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Research Topic

Vitamin D

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Below you will find compelling research hard-referenced to peer-reviewed biomedical research sourced from the US National Library of Medicine. For more research on over 6000 validated topics, please visit http://GreenMedInfo.com/research-dashboard

Overview of Terms

Associated with Your Search Topic

339 Relevant Results for
Diseases

Disease/Symptom	Cumulative Knowledge	Article Count
Vitamin D Deficiency	1306	138
African-American Specific Deficiencies/Diseases	165	16
Cardiovascular Diseases	141	13
Breast Cancer	131	27
Mortality: All-Cause	111	9
Cardiac Mortality	100	7
Obesity	98	12
Hypertension	92	9
Depression	90	8
Alzheimer's Disease	82	7
Insulin Resistance	82	10
Heart Failure	81	7
Multiple Sclerosis	74	16
Diabetes Mellitus: Type 2	72	8
Inflammation	70	12
Prenatal Nutrition: Prevention of Problems	61	7
C-Reactive Protein	60	5
Osteoporosis	57	8
Tuberculosis	54	8
Colorectal Cancer	53	6
Prenatal Nutrition: Health of the Offspring	53	7
Bladder Cancer	50	3
Breast Cancer: Prevention	50	4
Multiple Sclerosis: Relapsing-Remitting	50	5

Non-Hodgkin Lymphoma	50	4
Asthma	43	7
Pancreatic Cancer	43	5
Systemic Lupus Erythematosus	43	6
Lung Cancer	42	3
Pneumonia	42	6
Asthma: Childhood	41	4
All-Cause Mortality	40	3
Dementia	40	2
Depressive Disorder	40	4
Elderly: Age Specific Diseases	40	3
Endothelial Dysfunction	40	3
Respiratory Tract Infections	40	4
Oxidative Stress	38	8
Bone Fractures	35	5
Infant Nutrition	32	5
Ovarian Cancer	32	4
Hip Fracture	31	3
Childhood Infections	30	3
Colon Cancer	30	8
Coronary Artery Disease	30	3
Fibromyalgia	30	3
Gestational Diabetes	30	3
Hashimoto's thyroiditis	30	3
Hispanic-American Specific Defiencies/Diseases	30	3
Hyperparathyroidism	30	3
Lupus Erythematosus: Systemic	30	3
Metabolic Diseases	30	3

Peripheral Arterial Disease	30	3
Respiratory Diseases	30	2
Rheumatoid Arthritis	30	3
Osteomalacia	26	4
Autoimmune Diseases	23	4
Influenza	23	5
Cognitive Decline/Dysfunction	22	3
Inflammatory Bowel Diseases	22	3
Lung Cancer: Prevention	22	2
Prenatal Nutrition	22	4
Pulmonary Tubercolosis	22	4
Atopic Dermatitis	21	3
Cancers: All	21	11
Colorectal Cancer: Prevention	21	2
Congestive Heart Failure	21	3
Food Allergies	21	3
Multiple Sclerosis: Prevention	21	2
Pre-Eclampsia	21	3
Upper Respiratory Infections	21	3
Allergic Rhinitis	20	2
Allergies	20	2
Arterial Hardening: Elasticity	20	2
Autism Spectrum Disorders	20	2
Bladder Cancer: Prevention	20	1
Breastfeeding: Nutritional Deficiencies	20	2
Bronchitis	20	1
Cardiovascular Disease: Prevention	20	2
Cervical Cancer	20	1

Corticosteroid-Induced Toxicity	20	2
Dementia: Alzheimer Type	20	1
Diabetes Mellitus: Type 1	20	2
Diabetes Mellitus: Type 2: Prevention	20	2
Drug-Induced Toxicity: Aromatase Inhibitors	20	2
Endometrial Cancer	20	1
Epstein-Barr Virus Infections	20	2
Esophageal Cancer	20	1
Hemodialysis	20	2
Hodgkin Lymphoma	20	1
Kidney Failure	20	2
Metabolic Syndrome X	20	2
Muscle Weakness	20	2
Myalgias	20	2
Myelodysplastic Syndrome	20	2
Osteoarthritis: Knee	20	2
Overactive Bladder	20	1
Pelvic Floor Dysfunction (PFD)	20	1
Peripheral Neuropathies	20	2
Polycystic Ovary Syndrome	20	1
Quality of Life: Poor	20	2
Renal Cancer	20	1
Respiratory Infections: Infants & Children	20	2
Respiratory Tract Infections: Prevention	20	2
Rickets	20	2
Smoking	20	2
Vulvar Cancer	20	1
Celiac Disease	15	4

HIV Infections	13	4
Amyotrophic Lateral Sclerosis	12	2
Amyotrophic lateral sclerosis (ALS)	12	2
Cancer Metastasis	12	2
Chronic Obstructive Pulmonary Disease	12	3
Crohn's Disease	12	3
Psoriasis	12	3
Sepsis	12	3
Urinary Tract Infections	12	3
Abdominal Obesity (Midsection Fat)	11	2
Atopic Dermatitis: Infant & Childhood	11	2
Bacterial Vaginosis	11	2
Childhood Deficiencies	11	2
Human Influenza	11	2
Hypercalcemia	11	2
Hyperglycemia	11	2
Kidney Diseases	11	2
Liver Cirrhosis	11	2
Stroke: Prevention	11	2
Vitamin D Deficiency: Dosage Consideration	11	2
Adenotonsillectomy	10	1
Allergic Rhinitis: Prevention	10	1
Amputations	10	1
Anemia: Aplastic	10	1
Arterial Calcification	10	1
Arterial Plaque	10	1
Arterial Thickening	10	1
Arteriosclerosis	10	1

Asthma: Prevention	10	1
Atherosclerosis	10	1
Athletic Performance	10	1
Atopic Disease	10	1
Atrial Fibrillation	10	1
Brain Injury: Traumatic	10	1
Breast Cancer: Metastatic	10	1
Breast Cancer: Recovery	10	1
Carcinoma: Non-Small-Cell Lung	10	1
Carpal Tunnel Syndrome	10	1
Cerebrovascular Disorders	10	1
Chemotherapy-Induced Toxicity: Cyclophosphamide	10	1
Childhood Chronic Lung Diseases	10	1
Childhood Cognitive Disorders	10	1
Chronic Kidney Disease (CKD)	10	1
Chronic Pain	10	1
Cold and Flu	10	1
Cold and Flu: Infants & Children	10	1
Common variable immunodeficiency (CVID)	10	1
Cortisone Toxicity	10	1
Cystic Fibrosis	10	1
Dental Caries: Children	10	1
Diabetic Nephropathy	10	1
Diabetic Neuropathies	10	1
Diabetic Ulcer	10	1
Drug-Induced Nutrient Depletion: Statin Drugs	10	1
Dry Eye Syndromes	10	1
End Stage Renal Disease	10	1

Epidermolysis Bullosa	10	1
Epilepsy	10	1
Food Allergies/Intolerances: Cereals/Grains	10	1
Gallstones	10	1
Gaucher Disease	10	1
Headache: Migraine	10	1
High Homocysteine	10	1
Human Papillomavirus (HPV)	10	1
Hyperuricemia	10	1
Infant Infections	10	1
Infertility: Female	10	1
Influenza: 1918-1919 Pandemic	10	1
Irritable Bowel Syndrome	10	1
Kidney Transplant	10	1
Lactation Disorders	10	1
Liver Diseases	10	1
Magnesium Deficiency	10	1
Malaria	10	1
Menopausal Syndrome	10	1
Multiple Myeloma	10	1
Mycobacterium tuberculosis	10	1
Myelodysplastic Syndromes	10	1
Myocardial Infarction	10	1
Myocardial Infarction: Prevention	10	1
Myopathy	10	1
Myositis	10	1
Non-Specific and Persistent	10	1
Nonalcoholic fatty liver disease (NAFLD)	10	1
Obesity: Abdominal	10	1

Organ Transplantation: Kidney	10	1
Osteoarthritis	10	1
Osteopenia	10	1
Osteoporosis: Steroid-Induced	10	1
Overweight	10	1
Pain: Musculoskeletal	10	1
Pain: Musculoskeletal, Non-Specific and Persistent	10	1
Parkinson's Disease	10	1
Periodontitis	10	1
Peripheral Vascular Diseases	10	1
Pesticide-Induced Toxicity: Organochlorines	10	1
Plantar Wart	10	1
Pneumonia: Eosinophilic	10	1
Porphyria: Erythropoietic	10	1
Porphyrias	10	1
Premenstrual syndrome	10	1
Psoriatic Arthritis	10	1
Rhinosinusitis: Acute	10	1
Sarcopenia	10	1
Sclerosis: Systemic	10	1
Sleep Apnea: Obstructive	10	1
Slipped Capital Femoral Epiphysis (SCFE)	10	1
Statin-Induced Pathologies	10	1
Stroke	10	1
Stroke: Attenuation/Recovery	10	1
Stroke: Ischemic	10	1
Thrombocytopenia	10	1
Tonsil Diseases	10	1

Tubercolosis: Latent	10	1
Ulcerative Colitis	10	1
Urticaria	10	1
Wound Healing: Delayed	10	1
Hepatitis C	8	6
Aging	6	2
Cancer: Prostate	5	1
Dengue Fever	5	3
Acute Myeloid Leukemia	4	3
Fluoride Toxicity	4	2
Ischemia	4	2
Liver Cancer	4	3
Prostate Cancer	4	4
Chronic Myeloid Leukemia	3	2
Colon Cancer: Prevention	3	2
Gastric Bypass Surgery	3	1
Myelofibrosis	3	1
Promyelocytic leukemia	3	3
Sickle Cell Anemia	3	1
Arthritis	2	1
Chemically-Induced Liver Damage	2	1
Chemotherapy-Induced Toxicity: Doxorubicin	2	1
Cholangiocarcinoma	2	1
Diabetes Mellitus: Type 1: Prevention	2	2
Diabetes: Reproductive	2	1
Edema	2	1
Facial Nerve Diseases	2	1
Facial Paralysis	2	1

High Fat Diet	2	1
Hyperoxia	2	1
Infertility	2	1
Ischemia: Myocardial	2	1
Leukemia: Chronic Lymphocytic Leukemia (CLL)	2	1
Lipid Peroxidation	2	1
Liver Disease	2	1
Lyme Disease	2	1
Membranoproliferative glomerulonephritis (MPGN)	2	1
Neurodegenerative Diseases	2	2
Neutropenia	2	2
Neutropenia: Cyclic	2	2
Osteomyelitis	2	1
Pesticide Toxicity	2	1
Proteinuria	2	1
Rosacea	2	2
Western-Style Diet Induced Toxicity	2	1
Advanced Glycation End products (AGE)	1	1
Aging Skin	1	1
Alopecia	1	1
Asthma: Bronchial	1	1
Athletic Performance: Strength	1	1
Bacterial Infections and Mycoses	1	1
Bone Cancer	1	1
Brain Cancer Stem Cells	1	1
Brain Inflammation	1	1
Brain: Oxidative Stress	1	1
Breast Cancer Stem Cells	1	1

Breast Cancer: Bone Metastasis	1	1
Breast Cancer: Triple Negative	1	1
Bronchial Asthma	1	1
Cachexia: Cancer	1	1
Cancer Stem Cells	1	1
Cancers: Drug Resistant	1	1
Celiac Disease: In Children and Adolescents	1	1
Celiac Disease: Refractory	1	1
Cholecystectomy	1	1
Clostridium Infections	1	1
Colon Cancer Stem Cells	1	1
DNA damage	1	1
Digestive System Surgical Procedures	1	1
Empyema: Gallbladder	1	1
Encephalomyelitis	1	1
Estrogen Dominance	1	1
Fibroid Tumor	1	1
Fibroids: Uterine	1	1
Fibrosis	1	1
Gastric Cancer	1	1
Gastrointestinal Diseases	1	1
Glioma	1	1
Gonorrhea	1	1
Head and Neck Cancer	1	1
Hepatitis B	1	1
Herpes Zoster	1	1
Hypertension: Arterial	1	1
Immune Disorders: Low Immune Function	1	1

Infection: In Infants & Children	1	1
Influenza A	1	1
Leiomyoma	1	1
Lipopolysaccharide-Induced Toxicity	1	1
Liver Cancer Stem Cells	1	1
Lung Diseases	1	1
Lymphoma: Non-Hodgkin	1	1
Mineral Imbalances	1	1
Mycobacterium Infections	1	1
Neuralgia: Post Herpetic	1	1
Neutropenia: Chemotherapy Induced	1	1
Neutropenia: Severe Congenital	1	1
Oral Cancer	1	1
Osteoclastoma	1	1
Osteoporosis: In Children & Adolescents	1	1
Osteosarcoma	1	1
Otitis media	1	1
Periodontal Diseases	1	1
Postcholecystectomy syndrome	1	1
Prediabetes	1	1
Preneoplastic Conditions	1	1
Salivary Gland Adenoid Cystic Carcinoma.	1	1
Schizophrenia	1	1
Skin Cancer: Squamous Cell	1	1
Skin Diseases: Inflammatory	1	1
Skin Diseases: Photo-Aging	1	1
Squamous cell carcinoma	1	1
Staphylococcus aureus: Methicillin-resistant (MRSA)	1	1
Sunburn	1	1

Urinary Tract Diseases	1	1
Vaginitis: Desquamative Inflammatory	1	1
Vitamin C Deficiency	1	1
Vitiligo	1	1
Wound Healing	1	1

72 Relevant Results for Pharmacological Actions

Pharmacological Action Name	Cumulative Knowledge	Article Count
Anti-Inflammatory Agents	88	19
Chemopreventive	71	14
Immunomodulatory	67	12
Antidepressive Agents	60	5
Antiproliferative	31	24
Hypolipidemic	30	2
Antioxidants	29	8
Anticarcinogenic Agents	28	6
Tumor Necrosis Factor (TNF) Alpha Inhibitor	26	7
Enzyme Inhibitors	22	4
Interleukin-10 upregulation	21	3
Anticholesteremic Agents	20	2
Cardiovascular Agents	20	1
Insulin Sensitizers	20	2
Apoptotic	19	17
Neuroprotective Agents	15	4
Antiviral Agents	14	4
Anti-Bacterial Agents	12	3
Cardioprotective	12	2
Antihypertensive Agents	11	2

Adiponectin upregulation	10	1
Gene Protective	10	1
Immunomodulatory: T-Cell down-regulation	10	1
Interleukin-17 upregulation	10	1
Malondialdehyde Down-regulation	10	1
Thermogenic	10	1
Cell cycle arrest	7	7
Anti-metastatic	6	6
NF-kappaB Inhibitor	6	6
Anti Inflammatory	5	1
Chemosensitizer	5	4
Telomerase Upregulation	5	1
Antineoplastic Agents	4	3
Hepatoprotective	3	2
Interleukin-6 Downregulation	3	3
MicroRNA modulator	3	3
Adjuvants: Immunologic	2	1
Anti-Apoptotic	2	1
Anti-Tumor	2	1
Bone Density Conservation Agents	2	1
Catalase Up-Regulation	2	1
Chemoprotective Agents	2	1
Interleukin-17 downregulation	2	1
Interleukin-8 downregulation	2	2
Remyelination	2	1
Renoprotective	2	1
Alpha-glucosidase inhibitor	1	1
Angiogenesis Inhibitors	1	1

Anti-Adipogenic	1	1
Anti-Glycation Agents	1	1
Anti-Infective Agents	1	1
Antimicrobial	1	1
Caspase-3 Activation	1	1
Cell Differentiation Inducer	1	1
Chemotherapeutic	1	1
Dermatologic Agents	1	1
Estrogen Antagonists	1	1
Gastrointestinal Agents	1	1
Genoprotective	1	1
Interferon Gamma Reducer	1	1
Interleukin-1 alpha downregulation	1	1
Interleukin-1 beta downregulation	1	1
Interleukin-2 Downregulation	1	1
Interleukin-4 upregulation	1	1
Nrf2 activation	1	1
Photoprotective	1	1
Radioprotective	1	1
SIRT1 Activator	1	1
Transforming growth factor beta (TGF-β) inhibitor	1	1
Tumor Suppressor Protein p53 Upregulation	1	1
Vascular Endothelial Growth Factor Regulator	1	1
Vitamin D Receptor (VDR) Modulator	1	1

87 Relevant Results for Substances

Substance Name	Cumulative Knowledge	Article Count
Vitamin K	52	7

Vitamin C	48	10
Calcium	38	12
Vitamin K2: Menaquinone-7	31	4
Cow Milk	30	2
Omega-3 Fatty Acids	30	2
Vitamin E	25	6
Selenium	23	5
Magnesium	21	3
Potassium	20	1
Protein Supplement	20	1
SAMe (S-adenosylmethionine)	20	1
Curcumin	18	9
Vitamin A	16	7
Melatonin	13	3
Carotenoids	11	2
DHA (Docosahexaenoic Acid)	11	2
Hops	11	2
beta-Carotene	11	2
Ascorbyl Palmitate	10	1
Astaxanthin	10	1
Berberine	10	1
Beta-glucan	10	1
Bioflavonoids	10	1
Egg	10	1
Iron	10	1
Lactobacillus rhamnosus GG	10	1
Lycopene	10	1
Prebiotics	10	1

Quercetin	10	1
Vitamin K2	10	1
Yoghurt	10	1
Zinc	10	1
Resveratrol	7	6
Genistein	4	4
Polyphenols	3	2
Ajuga	2	1
EGCG (Epigallocatechin gallate)	2	2
Fish Oil	2	2
Folate	2	2
Olive Oil	2	1
Polyunsaturated Fatty Acids (PUFAs)	2	2
Rosemary	2	1
Shiitake Mushroom	2	1
Sulforaphane	2	2
cottonseed oil (gossypol)	2	1
Anthocyanins	1	1
Antioxidant formulas	1	1
Arginine	1	1
Baicalein	1	1
Beta Sitosterol	1	1
Betulinic acid	1	1
Blueberry	1	1
Boron	1	1
Broccoli	1	1
Capsaicin	1	1
Carnosic Acid	1	1

Chromium	1	1
Cinnamon	1	1
Cocoa	1	1
Cruciferous Vegetables	1	1
Fiber	1	1
Folic Acid	1	1
Ginkgo biloba	1	1
Ginsenosides	1	1
Glutamine	1	1
Green Tea	1	1
Hydrogen Peroxide	1	1
Isoflavones	1	1
Isothiocyanates	1	1
Linoleic acid	1	1
Menthol	1	1
Mushrooms: All	1	1
Oregano	1	1
Peppermint	1	1
Policosanol	1	1
Riboflavin (Vitamin B-2)	1	1
Rose	1	1
Rose Hips	1	1
Sage	1	1
Sea buckthorn	1	1
Sesame Seeds	1	1
Silibinin	1	1
Spirulina	1	1
Thiamine (B-1)	1	1
Vitamin B-12	1	1

Vitamin B-6	1	1

60 Relevant Results for Keywords

Keyword Name	Cumulative Knowledge	Article Count
Risk Factors	534	57
Risk Reduction	434	41
25-hydroxyvitamin D	116	15
Supplementation	96	12
Diseases that are Linked	73	10
Significant Treatment Outcome	73	8
Increased Risk	70	7
Parathyroid Hormone	52	5
Disease Regression	20	2
Natural Substance Synergy	20	17
Neurosteroid Hormone	20	1
Drug Synergy	13	4
Natural Substance/Drug Synergy	13	3
Drug-Plant-Vitamin Synergies	12	3
Gene Expression	11	2
Vitamin D Dosage	11	2
Antibody Titers	10	1
Beta Cell Regeneration	10	1
Bone Density	10	1
Drug: Prednisolone	10	1
Gene Environment	10	1
Lysosomal Storage Disorder	10	1
Mammalian Photosynthesis	10	1

Mortality	10	1
Plant Extracts	10	7
Reduced Disease Severity	10	1
Sleep Duration	10	1
Too Much Vitamin D	10	1
Vaccine Efficacy	10	1
Gene Expression Regulation	8	5
Antineoplastic Agents	6	5
Chemotherapeutic Synergy: Cisplatin	4	3
Vitamin D2	4	3
Undefined	3	1
Anti-Obesity Agents	2	1
Dose Response	2	1
Drug Sparing	2	1
Drug: Cyclosporine	2	1
Metabolites	2	1
Vitamin D Receptor (VDR)	2	2
Vitamin D Synthesis	2	1
Airway Remodeling	1	1
Cathelicidin Induction	1	1
Chemothapeutic Synergy: 5-flourouracil	1	1
Chemotherapy Resistance	1	1
Dietary Concentrations	1	1
Dietary Modification	1	1
Drug: 5-flourouracil	1	1
Embryonic Development	1	1
Estrogen Receptor Positive Breast Cancer	1	1
Genomic Instability	1	1

Hair Regeneration	1	1
Harvey-ras Oncogene	1	1
Neural Stem Cell	1	1
Nutrient Interdependence	1	1
Radiation Resistant Breast Cancer	1	1
Remyelination	1	1
Selective Cytotoxicity	1	1
Telomere Length	1	1
Vitamin D4	1	1

8 Relevant Results for Therapeutic Actions

Therapeutic Action Name	Cumulative Knowledge	Article Count
Sunlight exposure	142	13
Breastfeeding	20	1
Fasting/Caloric Restriction	20	2
Exercise	10	1
Dietary Modification: Wheat/Gluten Free	4	2
Dietary Modification: Low Carbohydrate/Ketogenic	3	1
Sunlight Exposure: UVB Light	2	1
Light Therapy	1	1

3 Relevant Results for Problematic Actions

Problematic Action Name	Cumulative Knowledge	Article Count
Vaccination: HPV (Gardisil)	10	1
Western Diet	6	3
Radiotherapy	1	1

5 Relevant Results for Problem Substances

Problem Substance Name	Cumulative Knowledge	Article Count
Organochlorine pesticides	10	1
Gluten	3	1
Concanavalin A	2	1
Aromatase Inhibitor Drugs	1	1
Bisphosphonates	1	1

View the Evidence.
454 Research Articles in Total.

Category : Diseases

Abdominal Obesity (Midsection Fat) (AC 2) (CK 11)

Greater visceral fat and sarcopenia are associated with vitamin D deficiency.

Pubmed Data : J Am Geriatr Soc. 2012 Feb 8. Epub 2012 Feb 8. PMID: 22316299

Article Published Date : Feb 08, 2012

Authors : Ji A Seo, Hyunjoo Cho, Chai R Eun, Hye J Yoo, Sin G Kim, Kyung M Choi, Sei H Baik, Dong S Choi, Moon H Park, Changsu Han, Nan H Kim

Study Type : Human Study

Additional Links

Substances : Vitamin D : CK(3209) : AC(455)

Diseases : Abdominal Obesity (Midsection Fat) : CK(458) : AC(66) , Sarcopenia : CK(29) : AC(7) , Vitamin D Deficiency : CK(1695) : AC(178)

The combination of vitamin D with genistein results in an enhanced inhibition of lipid accumulation and induction

of programmed cell death in maturing preadipocytes (immature fat cells).

Pubmed Data : Life Sci. 2002 Oct 4;71(20):2383-90. PMID: 18239559

Article Published Date : Oct 04, 2002

Authors : Srujana Rayalam, Mary Anne Della-Fera, Suresh Ambati, Jeong-Yeh Yang, Hea Jin Park, Clifton A Baile

Study Type : In Vitro Study
Additional Links
Substances : Genistein : CK(515) : AC(228) , Vitamin D : CK(3176) : AC(449)
Diseases : Abdominal Obesity (Midsection Fat) : CK(458) : AC(66) , Obesity : CK(2208) : AC(467)
Pharmacological Actions : Anti-Adipogenic : CK(110) : AC(52), Apoptotic : CK(2958) : AC(2075)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247)

Acute Myeloid Leukemia (AC 3) (CK 4)

A combination of plant extracts could induce antiproliferative and apoptosis in acute myeloid leukemia cells.

Pubmed Data : Biomed Pharmacother. 2016 May 7 ;82:80-89. Epub 2016 May 7. PMID: 27470342

Article Published Date : May 06, 2016

Authors : Gulzhan T Zhamanbayeva, Araylim N Aralbayeva, Maira K Murzakhmetova, Sultan T Tuleukhanov, Michael Danilenko

Study Type : In Vitro Study
Additional Links
Substances : Oregano : CK(78) : AC(38) , Rose : CK(167) : AC(46), Rose Hips : CK(39) : AC(11) , Sage : CK(126) : AC(30), Sea buckthorn : CK(61) : AC(17) , Vitamin D : CK(3176) : AC(449)
Diseases : Acute Myeloid Leukemia : CK(95) : AC(47)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247) , Plant Extracts : CK(7483) : AC(2462)

Treatment with carnosic acid-rich rosemary extract and 1,25D3 analogs results in strong cooperative antileukemic effects.

Pubmed Data : Int J Mol Sci. 2016 ;17(7). Epub 2016 Jul 5. PMID: 27399677

Article Published Date : Dec 31, 2015

Authors : Matan Nachliely, Ehud Sharony, Narasimha Rao Bolla, Andrzej Kutner, Michael Danilenko

Study Type : In Vitro Study
Additional Links
Substances : Carnosic Acid : CK(29) : AC(21) , Vitamin D : CK(3176) : AC(449)
Diseases : Acute Myeloid Leukemia : CK(95) : AC(47)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Cell cycle arrest : CK(810) : AC(612)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247) , Natural Substance Synergy : CK(537) : AC(247)

Vitamin D3 and rosemary have a cooperative antitumor effect in a mouse model of myeloid leukemia.

Pubmed Data : Int J Cancer. 2006 Jun 15;118(12):3012-21. PMID: 16395705

Article Published Date : Jun 15, 2006

Authors : Hagar Sharabani, Eugene Izumchenko, Qing Wang, Rita Kreinin, Michael Steiner, Zeev Barvish, Michael Kafka, Yoav Sharoni, Joseph Levy, Milan Uskokovic, George P Studzinski, Michael Danilenko

Study Type : Animal Study
Additional Links
Substances : Rosemary : CK(218) : AC(78) , Vitamin D : CK(3176) : AC(449)
Diseases : Acute Myeloid Leukemia : CK(95) : AC(47) , Chronic Myeloid Leukemia : CK(31) : AC(16)
Pharmacological Actions : Anti-Tumor : CK(136) : AC(72), Anticarcinogenic Agents : CK(1097) : AC(518)
Additional Keywords : Antineoplastic Agents : CK(69) : AC(28) , Natural Substance Synergy : CK(537) : AC(247), Plant Extracts : CK(7483) : AC(2462)

Adenotonsillectomy (AC 1) (CK 10)

Seventy-eight percent of Auckland children undergoing (adeno)tonsillectomy had a 25(OH) vitamin D level<75nmol/L, a level which is associated with an increased incidence of upper respiratory tract infection.

Pubmed Data : J Am Coll Nutr. 2003 Feb;22(1):36-42. PMID: 21131064

Article Published Date : Feb 01, 2003

Authors : David Reid, Randall Morton, Lesley Salkeld, Jim Bartley

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Adenotonsillectomy : CK(30) : AC(3) , Respiratory Infections: Infants & Children : CK(90) : AC(9), Tonsil Diseases : CK(10) : AC(1) , Upper Respiratory Infections : CK(950) : AC(114)

Advanced Glycation End products (AGE) (AC 1) (CK 1)

Vitamin D metabolites could reduce glycation modification

Pubmed Data : FEBS Lett. 2016 Jul 1. Epub 2016 Jul 1. PMID: 27364912

Article Published Date : Jun 30, 2016

Authors : Sarah Iqbal, Md Maroof Alam, Imrana Naseem

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Advanced Glycation End products (AGE) : CK(231) : AC(73)
Pharmacological Actions : Anti-Glycation Agents : CK(46) : AC(19)

African-American Specific Deficiencies/Diseases (AC 16) (CK 165)

"Vitamin D may improve telomere maintenance and prevent cell senescence and counteract obesity-induced acceleration of cellular aging."

Pubmed Data : Int J Obes (Lond). 2012 Jun ;36(6):805-9. Epub 2011 Oct 11. PMID: 21986705

Article Published Date : Jun 01, 2012

Authors : H Zhu, D Guo, K Li, J Pedersen-White, I S Stallmann-Jorgensen, Y Huang, S Parikh, K Liu, Y Dong

Study Type : Human In Vitro
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Aging : CK(1633) : AC(434), Obesity : CK(2208) : AC(467)
Pharmacological Actions : Telomerase Upregulation : CK(102) : AC(28)

Doubling global vitamin D levels could significantly reduce mortality.

Pubmed Data : Eur J Clin Nutr. 2011 Jul 6. Epub 2011 Jul 6. PMID: **21731036**

Article Published Date : Jul 06, 2011

Authors : W B Grant

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Cardiac Mortality : CK(947) : AC(86), Cardiovascular Diseases : CK(7176) : AC(907) , Mortality: All-Cause : CK(713) : AC(63), Respiratory Diseases : CK(250) : AC(39) , Tuberculosis : CK(312) : AC(54) , Vitamin D Deficiency : CK(1695) : AC(178)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)

Obese Black Americans are at particularly high risk for vitamin D deficiency and secondary hyperparathyroidism.

Pubmed Data : Clin Endocrinol (Oxf). 2006 May;64(5):523-9. PMID: **16649971**

Article Published Date : May 01, 2006

Authors : Lisa B Yanoff, Shamik J Parikh, Amanda Spitalnik, Blakeley Denkinger, Nancy G Sebring, Pamela Slaughter, Theresa McHugh, Alan T Remaley, Jack A Yanovski

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Hyperparathyroidism : CK(30) : AC(2), Obesity : CK(2208) : AC(467) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

The prevalance of vitamin D deficiency in African-American men is far higher and sever than previously reported.

Pubmed Data : BMC Public Health. 2009;9:191. Epub 2009 Jun 18. PMID: 19534831

Article Published Date : Jan 01, 2009

Authors : Marilyn Tseng, Veda Giri, Deborah W Bruner, Edward Giovannucci

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20)

There is a disproportionately higher level of vitamin D deficiency in a non-Hispanic African-American adolescent populations.

Pubmed Data : Pediatrics. 2009 Mar;123(3):797-803. PMID: 19255005

Article Published Date : Mar 01, 2009

Authors : Sandy Saintonge, Heejung Bang, Linda M Gerber

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20)

Vitamin D deficiency is associated with obesity in African-American adolescents and may promote insulin resistance.

Pubmed Data : J Clin Endocrinol Metab. 2009 Sep;94(9):3200-6. Epub 2009 Jun 23. PMID: 19549742

Article Published Date : Sep 01, 2009

Authors : Ambika Ashraf, Jessica Alvarez, Karen Saenz, Barbara Gower, Kenneth McCormick, Frank Franklin

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Insulin Resistance : CK(1683) : AC(346), Obesity : CK(2208) : AC(467)

Vitamin D deficiency is common in African-Americans and continued to rise from 1988-2004.

Pubmed Data : Arch Intern Med. 2009 Mar 23;169(6):626-32. PMID: 19307527

Article Published Date : Mar 23, 2009

Authors : Adit A Ginde, Mark C Liu, Carlos A Camargo

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20)

Vitamin D deficiency is common in obese and non-obese preadolescent African-American children, and may take loses significantly higher than the recommended adequate intake to raise blood levels.

Pubmed Data : Obesity (Silver Spring). 2008 Jan;16(1):90-5. PMID: 18223618

Article Published Date : Jan 01, 2008

Authors : Kumaravel Rajakumar, John D Fernstrom, Michael F Holick, Janine E Janosky, Susan L Greenspan

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Obesity : CK(2208) : AC(467)

Vitamin D deficiency is highly prevalent in US adults (especially African-Americans) with cardiovascular diseases, particularly coronary heart disease and heart failure.

Pubmed Data : Am J Cardiol. 2008 Dec 1;102(11):1540-4. Epub 2008 Sep 24. PMID: 19026311

Article Published Date : Dec 01, 2008

Authors : Dae Hyun Kim, Siamak Sabour, Utpal N Sagar, Suzanne Adams, David J Whellan

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Cardiovascular Diseases : CK(7176) : AC(907), Coronary Artery Disease : CK(1468) : AC(155) , Heart Failure : CK(918) : AC(124)

Vitamin D deficiency is omnipresent in non-Hispanic black and Hispanic children.

Pubmed Data : Pediatrics. 2009 Nov;124(5):1404-10. PMID: 19951983

Article Published Date : Nov 01, 2009

Authors : Jonathan M Mansbach, Adit A Ginde, Carlos A Camargo

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Hispanic-American Specific Deficiencies/Diseases : CK(30) : AC(3)

Vitamin D insufficiency is common in preadolescent African-American children.

Pubmed Data : Clin Pediatr (Phila). 2005 Oct;44(8):683-92. PMID: **16211192**

Article Published Date : Oct 01, 2005

Authors : Kumaravel Rajakumar, John D Fernstrom, Janine E Janosky, Susan L Greenspan

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20)

Vitamin D intake significantly lowers the risk of non-Hodgkin lymphoma in African American women.

Pubmed Data : Br J Nutr. 2010 Feb;103(4):581-4. Epub 2009 Sep 28. PMID: **19781122**

Article Published Date : Feb 01, 2010

Authors : Eva Erber, Gertraud Maskarinec, Unhee Lim, Laurence N Kolonel

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Non-Hodgkin Lymphoma : CK(363) : AC(79)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Vitamin D levels are inversely associated with adiposity in Hispanics and African Americans.

Pubmed Data : Anticancer Res. 2005 Mar-Apr;25(2A):971-9. PMID: **19549738**

Article Published Date : Mar 01, 2005

Authors : Kendra A Young, Corinne D Engelman, Carl D Langefeld, Kristen G Hairston, Steven M Haffner, Michael Bryer-Ash, Jill M Norris

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Hispanic-American Specific Deficiencies/Diseases : CK(30) : AC(3), Obesity : CK(2208) : AC(467) , Obesity: Abdominal : CK(458) : AC(66)

Vitamin D levels are significantly inversely associated with blood pressure in Hispanic and African-Americans.

Pubmed Data : Am J Hypertens. 2009 Aug;22(8):867-70. Epub 2009 May 14. PMID: **19444222**

Article Published Date : Aug 01, 2009

Authors : Kimberly J Schmitz, Halcyon G Skinner, Leonelo E Bautista, Tasha E Fingerlin, Carl D Langefeld, Pamela J Hicks, Steven M Haffner, Michael Bryer-Ash, Lynne E Wagenknecht, Donald W Bowden, Jill M Norris, Corinne D Engelman

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Hispanic-American Specific Defiencies/Diseases : CK(30) : AC(3), Hypertension : CK(2984) : AC(406)

Vitamin D status is associated the risk of peripheral arterial disease, especially in African-Americans.

Pubmed Data : Am J Clin Nutr. 2008 Dec;88(6):1469-77. PMID: **19064505**

Article Published Date : Dec 01, 2008

Authors : Jared P Reis, Erin D Michos, Denise von Mühlen, Edgar R Miller

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Peripheral Arterial Disease : CK(282) : AC(29), Peripheral Vascular Diseases : CK(221) : AC(23) , Smoking : CK(676) : AC(102)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

vitamin D supplementation may be effective in optimizing vitamin D status and counteracting the progression of aortic stiffness in black youth.

Pubmed Data : J Clin Endocrinol Metab. 2010 Oct;95(10):4584-91. Epub 2010 Jul 21. PMID: **20660028**

Article Published Date : Oct 01, 2010

Authors : Yanbin Dong, Inger S Stallmann-Jorgensen, Norman K Pollock, Ryan A Harris, Daniel Keeton, Ying Huang, Ke Li, Reda Bassali, De-huang Guo, Jeffrey Thomas, Gary L Pierce, Jennifer White, Michael F Holick, Haidong Zhu

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Arterial Hardening:

Elasticity : CK(186) : AC(21), Cardiovascular Diseases : CK(7176) : AC(907) , Vitamin D Deficiency : CK(1695) : AC(178)

Aging (AC 2) (CK 6)

"Vitamin D may improve telomere maintenance and prevent cell senescence and counteract obesity-induced acceleration of cellular aging."

Pubmed Data : Int J Obes (Lond). 2012 Jun ;36(6):805-9. Epub 2011 Oct 11. PMID: **21986705**

Article Published Date : Jun 01, 2012

Authors : H Zhu, D Guo, K Li, J Pedersen-White, I S Stallmann-Jorgensen, Y Huang, S Parikh, K Liu, Y Dong

Study Type : Human In Vitro
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Aging : CK(1633) : AC(434), Obesity : CK(2208) : AC(467)
Pharmacological Actions : Telomerase Upregulation : CK(102) : AC(28)

This reviews the existing knowledge about the link between telomere biology and cellular aging with a focus on the role of vitamin D.

Pubmed Data : Clin Chem Lab Med. 2015 Mar 21. Epub 2015 Mar 21. PMID: **25803084**

Article Published Date : Mar 20, 2015

Authors : Irene Pusceddu, Christopher-John L Farrell, Angela Maria Di Pierro, Erika Jani, Wolfgang Herrmann, Markus Herrmann

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Aging : CK(1633) : AC(434) , Cardiovascular Diseases : CK(7176) : AC(907) , Neurodegenerative Diseases : CK(3376) : AC(850)
Pharmacological Actions : Genoprotective : CK(270) : AC(97)
Additional Keywords : Telomere Length : CK(18) : AC(5)

Aging Skin (AC 1) (CK 1)

Vitamin D3 inhibits ultraviolet-B-indcued damage in human skin cells.

Pubmed Data : J Cell Biochem. 2003 Jul 1;89(4):663-73. PMID: 12858333

Article Published Date : Jul 01, 2003

Authors : Petra De Haes, Marjan Garmyn, Hugo Degreef, Katleen Vantieghem, Roger Bouillon, Siegfried Segaert

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Aging Skin : CK(426) : AC(101) , Skin Diseases: Photo-Aging : CK(132) : AC(51)
Pharmacological Actions : Apoptotic : CK(2958) : AC(2075) , Interleukin-6 Downregulation : CK(1095) : AC(342), Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)

All-Cause Mortality (AC 3) (CK 40)

Evidence from observational studies indicates inverse associations of circulating 25-hydroxyvitamin D with risks of death due to cardiovascular disease, cancer, and other causes.

Pubmed Data : BMJ. 2014 ;348:g1903. Epub 2014 Apr 1. PMID: 24690623

Article Published Date : Dec 31, 2013

Authors : Rajiv Chowdhury, Setor Kunutsor, Anna Vitezova, Clare Oliver-Williams, Susmita Chowdhury, Jessica C Kiefte-de-Jong, Hassan Khan, Cristina P Baena, Dorairaj Prabhakaran, Moshe B Hoshen, Becca S Feldman, An Pan, Laura Johnson, Francesca Crowe, Frank B Hu, Oscar H Franco

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : All-Cause Mortality : CK(333) : AC(26) , Cardiac Mortality : CK(947) : AC(86)

In this cohort of middle-aged and older men low serum

25(OH)D3 concentration was associated with increased risk of death mainly in those with lower magnesium intake.

Pubmed Data : Eur J Epidemiol. 2015 Apr ;30(4):343-7. Epub 2015 Mar 12. PMID: 25762172

Article Published Date : Mar 31, 2015

Authors : Jaakko Mursu, Tarja Nurmi, Sari Voutilainen, Tomi-Pekka Tuomainen, Jyrki K Virtanen

Study Type : Human Study
Additional Links
Substances : Magnesium : CK(1516) : AC(193) , Vitamin D : CK(3176) : AC(449)
Diseases : All-Cause Mortality : CK(333) : AC(26) , Magnesium Deficiency : CK(401) : AC(48) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Low serum 25(OH)D is associated with frailty, and there is additive joint effects of serum 25(OH)D and frailty on all-cause mortality in older adults.

Pubmed Data : Eur J Clin Nutr. 2012 Jun 13. Epub 2012 Jun 13. PMID: 22692022

Article Published Date : Jun 12, 2012

Authors : E Smit, C J Crespo, Y Michael, F A Ramirez-Marrero, G R Brodowicz, S Bartlett, R E Andersen

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : All-Cause Mortality : CK(343) : AC(27)

Allergic Rhinitis (AC 2) (CK 20)

These results demonstrated the immunologic effect of probiotic and vitamin D supplementation on sublingual immunotherapy.

Pubmed Data : Allergy Asthma Proc. 2016 Jul ;37(4):324-34. PMID: 27401319

Article Published Date : Jun 30, 2016

Authors : Joanna Jerzynska, Wlodzimierz Stelmach, Joanna Balcerak, Katarzyna Woicka-Kolejwa, Blazej Rychlik, Andrzej Blauz, Marcin Wachulec, Piotr Stelmach, Pawel Majak, Iwona Stelmach

Study Type : Human Study
Additional Links
Substances : Lactobacillus rhamnosus GG : CK(212) : AC(29) , Vitamin D : CK(3176) : AC(449)
Diseases : Allergic Rhinitis : CK(392) : AC(52)
Pharmacological Actions : Immunomodulatory : CK(1287) : AC(358)

Vitamin D deficiency is higher among children with asthma, allergic rhinitis, atopic dermatitis, acute urticaria, and food allergy.

Pubmed Data : Eur Ann Allergy Clin Immunol. 2011 Jun ;43(3):81-8. PMID: **21789969**

Article Published Date : Jun 01, 2011

Authors : M S Ehlayel, A Bener, A Sabbah

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Allergic Rhinitis : CK(392) : AC(52) , Asthma : CK(1146) : AC(188) , Atopic Dermatitis : CK(1134) : AC(117), Atopic Disease : CK(101) : AC(10) , Food Allergies : CK(507) : AC(70) , Urticaria : CK(130) : AC(8), Vitamin D Deficiency : CK(1695) : AC(178)

Allergic Rhinitis: Prevention (AC 1) (CK 10)

Maternal vitamin D intake from foods during pregnancy may be negatively associated with risk of asthma and allergic rhinitis in childhood.

Pubmed Data : Clin Exp Allergy. 2009 Jun;39(6):875-82. PMID: **19522996**

Article Published Date : Jun 01, 2009

Authors : M Erkkola, M Kaila, B I Nwaru, C Kronberg-Kippilä, S Ahonen, J Nevalainen, R Veijola, J Pekkanen, J Ilonen, O Simell, M Knip, S M Virtanen

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Allergic Rhinitis: Prevention : CK(12) : AC(2) , Asthma: Prevention : CK(40) : AC(3) , Prenatal Nutrition : CK(180) : AC(25), Prenatal Nutrition: Health of the Offspring : CK(246) : AC(35) , Prenatal Nutrition: Prevention of Problems : CK(367) : AC(42)

Allergies (AC 2) (CK 20)

Consumption of a cow's milk-based beverage in 1- to 4-year-olds reduced allergic manifestations.

Pubmed Data : Nutr J. 2016 ;15(1):19. Epub 2016 Feb 27. PMID: 26920136

Article Published Date : Dec 31, 2015

Authors : M V Pontes, T C M Ribeiro, H Ribeiro, A P de Mattos, I R Almeida, V M Leal, G N Cabral, S Stolz, W Zhuang, D M F Scalabrin

Study Type : Human Study
Additional Links
Substances : Beta-glucan : CK(249) : AC(44) , Cow Milk : CK(20) : AC(3) , DHA (Docosahexaenoic Acid) : CK(813) : AC(134), Prebiotics : CK(169) : AC(31) , Vitamin A : CK(498) : AC(77) , Vitamin D : CK(3176) : AC(449)
Diseases : Allergies : CK(703) : AC(132)
Additional Keywords : Risk Reduction : CK(6346) : AC(680)

The 25-OHD levels in early childhood are associated with the emergence of allergy.

Pubmed Data : Int Arch Allergy Immunol. 2016 Aug 18 ;170(3):141-148. Epub 2016 Aug 18. PMID: 27533066

Article Published Date : Aug 17, 2016

Authors : Emma Merike Savilahti, Outi Mäkitie, Anna Kaarina Kukkonen, Sture Andersson, Heli Viljakainen, Erkki Savilahti, Mikael Kuitunen

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Allergies : CK(703) : AC(132)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Alopecia (AC 1) (CK 1)

Vitamin D3 may have therapeutic potential for hair regeneration.

Pubmed Data : Stem Cells Transl Med. 2012 Aug ;1(8):615-26. Epub 2012 Jul 27. PMID: **23197867**

Article Published Date : Jul 31, 2012

Authors : Noriyuki Aoi, Keita Inoue, Toshihiro Chikanishi, Ryoji Fujiki, Hanako Yamamoto, Harunosuke Kato, Hitomi Eto, Kentaro Doi, Satoshi Itami, Shigeaki Kato, Kotaro Yoshimura

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Alopecia : CK(146) : AC(32)
Additional Keywords : Hair Regeneration : CK(1) : AC(1)

Alzheimer's Disease (AC 7) (CK 82)

A variety of nutraceutical strategies hold promise in the prevention of Alzheimer disease.

Pubmed Data : Med Hypotheses. 2006;67(4):682-97. Epub 2006 Jul 7. PMID: **16828233**

Article Published Date : Jan 01, 2006

Authors : Mark F McCarty

Study Type : Commentary
Additional Links
Substances : Chromium : CK(56) : AC(12) , Cinnamon : CK(245) : AC(89) , Cocoa : CK(522) : AC(77) , DHA (Docosahexaenoic Acid) : CK(813) : AC(134) , Fish Oil : CK(701) : AC(111) , Folic Acid : CK(645) : AC(94), Genistein : CK(515) : AC(228) , Hops : CK(76) : AC(26) , Policosanol : CK(194) : AC(25) , Sesame Seeds : CK(235) : AC(71), Vitamin D : CK(3176) : AC(449)
Diseases : Alzheimer's Disease : CK(1287) : AC(379) , Neurodegenerative Diseases : CK(3376) : AC(850)

Alzheimer's disease cases have lower serum vitamin D concentrations than matched controls.

Pubmed Data : J Alzheimers Dis. 2012 Oct 5. Epub 2012 Oct 5. PMID: **23042216**

Article Published Date : Oct 04, 2012

Authors : Cedric Annweiler, David J Llewellyn, Olivier Beauchet

Study Type : Meta Analysis
Additional Links

Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Alzheimer's Disease : CK(1292) : AC(382) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Neurosteroid Hormone : CK(20) : AC(1)

Available data indicates that lower vitamin D status may be associated with increased risk of developing AD and dementia.

Pubmed Data : Nutr J. 2015 ;14(1):76. Epub 2015 Aug 1. PMID: **26231781**

Article Published Date : Dec 31, 2014

Authors : Liang Shen, Hong-Fang Ji

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Alzheimer's Disease : CK(1292) : AC(382) , Dementia : CK(571) : AC(79) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332)

Vitamin D deficiency might pose a greater risk for ApoEε4 non-carrier Alzheimer's disease patients.

Pubmed Data : Neurol Sci. 2016 Jun 29. Epub 2016 Jun 29. PMID: **27357856**

Article Published Date : Jun 28, 2016

Authors : Erdinç Dursun, Merve Alaylıoğlu, Başar Bilgiç, Haşmet Hanağası, Ebba Lohmann, Irem L Atasoy, Esin Candaş, Ömür Selin Araz, Burak Önal, Hakan Gürvit, Selma Yılmazer, Duygu Gezen-Ak

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Alzheimer's Disease : CK(1292) : AC(382) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332)

Vitamin D, cognition, and dementia: a systematic review and meta-analysis.

Pubmed Data : Neurology. 2012 Sep 25 ;79(13):1397-405. PMID: **23008220**

Article Published Date : Sep 24, 2012

Authors : Cynthia Balion, Lauren E Griffith, Lisa Strifler, Matthew Henderson, Christopher Patterson, George Heckman, David J Llewellyn, Parminder Raina

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Alzheimer's Disease : CK(1292) : AC(382) , Dementia : CK(571) : AC(79) , Dementia: Alzheimer Type : CK(23) : AC(3), Vitamin D Deficiency : CK(1695) : AC(178)

Vitamin D2 has therapeutic potential against inflammation and Alzheimer's disease.

Pubmed Data : Life Sci. 2016 Jul 28. Epub 2016 Jul 28. PMID: 27477351

Article Published Date : Jul 27, 2016

Authors : Suchismita Raha, Ho Jeong Lee, Silvia Yumnam, Gyeong Eun Hong, Venu Venkatarame Gowda Saralamma, Yeong Lae Ha, Jeong Ok Kim, Young Suk Kim, Jeong Doo Heo, Sang Joon Lee, Hee Kim Eun, Gon Sup Kim

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Alzheimer's Disease : CK(1287) : AC(379)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interleukin-1 beta downregulation : CK(462) : AC(204), Interleukin-6 Downregulation : CK(1083) : AC(340) , NF-kappaB Inhibitor : CK(1113) : AC(693), Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)

Vitamin D3 and curcuminoids (turmeric) stimulate amyloid-beta clearance by macrophages of Alzheimer's disease patients.

Pubmed Data : J Alzheimers Dis. 2009 Jul;17(3):703-17. PMID: 19433889

Article Published Date : Jul 01, 2009

Authors : Ava Masoumi, Ben Goldenson, Senait Ghirmai, Hripsime Avagyan, Justin Zaghi, Ken Abel, Xueying Zheng, Araceli Espinosa-Jeffrey, Michelle Mahanian, Phillip T Liu, Martin Hewison, Matthew Mizwickie, John Cashman, Milan Fiala

Study Type : Human Study
Additional Links
Substances : Curcumin : CK(4135) : AC(2175) , Vitamin D : CK(3176) : AC(449)
Diseases : Alzheimer's Disease : CK(1292) : AC(382)
Additional Keywords : Disease Regression : CK(150) : AC(26)

Amputations (AC 1) (CK 10)

Vitamin D deficiency is associated with an increased amputation risk in veterans with peripheral artery disease.

Pubmed Data : J Am Med Dir Assoc. 2011 Jan;12(1):58-61. Epub 2010 Aug 12. PMID: 21194661

Article Published Date : Jan 01, 2011

Authors : Vamsi C Gaddipati, Beth A Bailey, Reena Kuriacose, Rebecca J Copeland, Todd Manning, Alan N Peiris

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Amputations : CK(10) : AC(1) , Peripheral Arterial Disease : CK(282) : AC(29) , Vitamin D Deficiency : CK(1695) : AC(178)

Amyotrophic Lateral Sclerosis (AC 2) (CK 12)

Extremely high dose vitamin D attenuates a feature of ALS, but not disease outcomes; also toxic to female mice.

Pubmed Data : PLoS One. 2013 ;8(2):e30243. Epub 2013 Feb 6. PMID: 23405058

Article Published Date : Dec 31, 2012

Authors : Alexandro Gianforcaro, Jesse A Solomon, Mazen J Hamadeh

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Amyotrophic Lateral Sclerosis : CK(567) : AC(140)

Suboptimal vitamin D levels are frequently found in ALS patients (81%).

Pubmed Data : J Clin Neurosci. 2013 Nov ;20(11):1550-3. Epub 2013 Jun 29. PMID: 23815870

Article Published Date : Oct 31, 2013

Authors : Chafic Karam, Matthew J Barrett, Theresa Imperato, Daniel J L MacGowan, Stephen Scelsa

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Amyotrophic Lateral Sclerosis : CK(567) : AC(140) , Vitamin D Deficiency : CK(1695) : AC(178)

Amyotrophic lateral sclerosis (ALS) (AC 2) (CK 12)

In ALS patients, we report that a severe vitamin D deficiency accelerates the rate of decline and were associated with a marked shorter life expectancy.

Pubmed Data : Neurobiol Aging. 2014 May ;35(5):1198-205. Epub 2013 Nov 13. PMID: 24378089

Article Published Date : Apr 30, 2014

Authors : William Camu, Boris Tremblier, Carine Plassot, Sébastien Alphandery, Céline Salsac, Nicolas Pageot, Raul Juntas-Morales, Frédérique Scamps, Jean-Pierre Daures, Cédric Raoul

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Amyotrophic lateral sclerosis (ALS) : CK(566) : AC(140) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Neuroprotective Agents : CK(2268) : AC(1071)

Vitamin D deficiency exacerbates disease pathophysiology in the G93A mouse model of ALS.

Pubmed Data : PLoS One. 2015 ;10(5):e0126355. Epub 2015 May 28. PMID: 26020962

Article Published Date : Dec 31, 2014

Authors : Elnaz Moghimi, Jesse A Solomon, Alexandro Gianforcaro, Mazen J Hamadeh

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Amyotrophic lateral sclerosis (ALS) : CK(566) : AC(140) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Anemia: Aplastic (AC 1) (CK 10)

Vitamin K2 plus Vitamin D3 are therapeutic for the treatment of anemia and thyrombocytopenia associated wtih low/intermediate myelodysplastic syndrome.

Pubmed Data : Leuk Res. 2010 Sep;34(9):1151-7. Epub 2010 Jun 1. PMID: **20569983**

Article Published Date : Sep 01, 2010

Authors : Nobu Akiyama, Keisuke Miyazawa, Yoshinobu Kanda, Kaoru Tohyama, Mitsuhiro Omine, Kinuko Mitani, Kazuma Ohyashiki

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449) , Vitamin K : CK(645) : AC(85) , Vitamin K2 : CK(319) : AC(38)
Diseases : Anemia: Aplastic : CK(30) : AC(3) , Myelodysplastic Syndrome : CK(221) : AC(22) , Thrombocytopenia : CK(234) : AC(26)

Arterial Calcification (AC 1) (CK 10)

Omega-3 fatty acids and vitamin D supplementation results in a substantial reduction in coronary calcium scores and slowed plaque growth.

Pubmed Data : Am J Ther. 2009 Jul-Aug;16(4):326-32. PMID: **19092644**

Article Published Date : Jul 01, 2009

Authors : William Davis, Susie Rockway, Mary Kwasny

Study Type : Human Study
Additional Links
Substances : Omega-3 Fatty Acids : CK(3268) : AC(387) , Vitamin D : CK(3176) : AC(449)
Diseases : Arterial Calcification : CK(186) : AC(29) , Arterial Plaque : CK(77) : AC(20) , Arterial Thickening : CK(37) : AC(7), Coronary Artery Disease : CK(1468) : AC(155)
Additional Keywords : Disease Regression : CK(150) : AC(26)

Arterial Hardening: Elasticity (AC 2)

(CK 20)

Vitamins K1 and D have a beneficial effect on the elastic properties of the arterial vessel wall.

Pubmed Data : Thromb Haemost. 2004 Feb;91(2):373-80. PMID: 14961167

Article Published Date : Feb 01, 2004

Authors : Lavienja A J L M Braam, Arnold P G Hoeks, Fred Brouns, Karly Hamulyák, Monique J W Gerichhausen, Cees Vermeer

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449) , Vitamin K : CK(645) : AC(85)
Diseases : Arterial Hardening: Elasticity : CK(186) : AC(21) , Arteriosclerosis : CK(452) : AC(126)

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vitamin D supplementation may be effective in optimizing vitamin D status and counteracting the progression of aortic stiffness in black youth.

Pubmed Data : J Clin Endocrinol Metab. 2010 Oct;95(10):4584-91. Epub 2010 Jul 21. PMID: 20660028

Article Published Date : Oct 01, 2010

Authors : Yanbin Dong, Inger S Stallmann-Jorgensen, Norman K Pollock, Ryan A Harris, Daniel Keeton, Ying Huang, Ke Li, Reda Bassali, De-huang Guo, Jeffrey Thomas, Gary L Pierce, Jennifer White, Michael F Holick, Haidong Zhu

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Arterial Hardening: Elasticity : CK(186) : AC(21), Cardiovascular Diseases : CK(7176) : AC(907) , Vitamin D Deficiency : CK(1695) : AC(178)

Arterial Plaque (AC 1) (CK 10)

Omega-3 fatty acids and vitamin D supplementation results in a substantial reduction in coronary calcium scores and slowed plaque growth.

Pubmed Data : Am J Ther. 2009 Jul-Aug;16(4):326-32. PMID: 19092644

Article Published Date : Jul 01, 2009

Authors : William Davis, Susie Rockway, Mary Kwasny

Study Type : Human Study
Additional Links
Substances : Omega-3 Fatty Acids : CK(3268) : AC(387) , Vitamin D : CK(3176) : AC(449)
Diseases : Arterial Calcification : CK(186) : AC(29) , Arterial Plaque : CK(77) : AC(20) , Arterial Thickening : CK(37) : AC(7), Coronary Artery Disease : CK(1468) : AC(155)
Additional Keywords : Disease Regression : CK(150) : AC(26)

Arterial Thickening (AC 1) (CK 10)

Omega-3 fatty acids and vitamin D supplementation results in a substantial reduction in coronary calcium scores and slowed plaque growth.

Pubmed Data : Am J Ther. 2009 Jul-Aug;16(4):326-32. PMID: 19092644

Article Published Date : Jul 01, 2009

Authors : William Davis, Susie Rockway, Mary Kwasny

Study Type : Human Study
Additional Links
Substances : Omega-3 Fatty Acids : CK(3268) : AC(387) , Vitamin D : CK(3176) : AC(449)
Diseases : Arterial Calcification : CK(186) : AC(29) , Arterial Plaque : CK(77) : AC(20) , Arterial Thickening : CK(37) : AC(7), Coronary Artery Disease : CK(1468) : AC(155)
Additional Keywords : Disease Regression : CK(150) : AC(26)

Arteriosclerosis (AC 1) (CK 10)

Vitamins K1 and D have a beneficial effect on the elastic properties of the arterial vessel wall.

Pubmed Data : Thromb Haemost. 2004 Feb;91(2):373-80. PMID: 14961167

Article Published Date : Feb 01, 2004

Authors : Lavienja A J L M Braam, Arnold P G Hoeks, Fred Brouns, Karly Hamulyák, Monique J W Gerichhausen, Cees Vermeer

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449) , Vitamin K : CK(645) : AC(85)
Diseases : Arterial Hardening: Elasticity : CK(186) : AC(21) , Arteriosclerosis : CK(452) : AC(126)

Arthritis (AC 1) (CK 2)

Vitamin D prevents articular cartilage erosion by regulating collagen II turnover through TGF-β1 in ovariectomized rats.

Pubmed Data : Osteoarthritis Cartilage. 2015 Sep 3. Epub 2015 Sep 3. PMID: **26343586**

Article Published Date : Sep 02, 2015

Authors : Siwei Li, Guodong Niu, Yuwei Wu, Guohong Du, Chen Huang, Xiaoxue Yin, Zhongjun Liu, Chunli Song, Huijie Leng

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Arthritis : CK(1964) : AC(312) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Dose Response : CK(1056) : AC(408) , Supplementation : CK(413) : AC(60)

Asthma (AC 7) (CK 43)

Childhood asthma may be a consequence of vitamin D deficiency.

Pubmed Data : Curr Opin Allergy Clin Immunol. 2009 Jun;9(3):202-7. PMID: **19365260**

Article Published Date : Jun 01, 2009

Authors : Augusto A Litonjua

Study Type : Commentary
Additional Links

Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Asthma : CK(1146) : AC(188) , Asthma: Childhood : CK(101) : AC(10)

Serum levels of vitamin D in asthma patients were less than in healthy people, and also reduced lung function in these patients.

Pubmed Data : Allergol Immunopathol (Madr). 2016 Jul 28. Epub 2016 Jul 28. PMID: **27477034**

Article Published Date : Jul 27, 2016

Authors : Rasoul Nasiri Kalmarzi, A Zamani, A Fathallahpour, E Ghaderi, Ramesh Rahehagh, W Kooti

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Asthma : CK(1146) : AC(188) , Vitamin D Deficiency : CK(1695) : AC(178)

Supplementation of vitamin D3 is effective in improving the quality of life in severe asthmatics.

Pubmed Data : J Pharmacol Pharmacother. 2015 Jul-Sep;6(3):142-6. PMID: **26311997**

Article Published Date : Jun 30, 2015

Authors : Muhasaparur Ganesan Rajanandh, Arcot D Nageswari, Giridharan Prathiksha

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Asthma : CK(1146) : AC(188) , Quality of Life: Poor : CK(438) : AC(45)

Vitamin D deficiency is higher among children with asthma, allergic rhinitis, atopic dermatitis, acute urticaria, and food allergy.

Pubmed Data : Eur Ann Allergy Clin Immunol. 2011 Jun ;43(3):81-8. PMID: **21789969**

Article Published Date : Jun 01, 2011

Authors : M S Ehlayel, A Bener, A Sabbah

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Allergic Rhinitis : CK(392) : AC(52) , Asthma : CK(1146) : AC(188) , Atopic Dermatitis : CK(1134) : AC(117), Atopic Disease : CK(101) : AC(10) , Food Allergies : CK(507) : AC(70) , Urticaria : CK(130) : AC(8), Vitamin D Deficiency : CK(1695) : AC(178)

Vitamin D may improve lung function and response to steroids therapy, reduce airway remodeling and disease exacerbations.

Pubmed Data : Minerva Med. 2016 Jun 15. Epub 2016 Jun 15. PMID: **27308869**

Article Published Date : Jun 14, 2016

Authors : Paolo Solidoro, Michela Bellocchia, Fabrizio Facchini

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Asthma : CK(1146) : AC(188) , Chronic Obstructive Pulmonary Disease : CK(376) : AC(57) , Lung Diseases : CK(37) : AC(8) , Vitamin D Deficiency : CK(1695) : AC(178)

Vitamin D may provide a potential treatment for airway remodeling in asthma.

Pubmed Data : Br J Pharmacol. 2009 Nov;158(6):1426-8. PMID: **19906117**

Article Published Date : Nov 01, 2009

Authors : Rachel L Clifford, Alan J Knox

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Asthma : CK(1146) : AC(188)
Additional Keywords : Airway Remodeling : CK(1) : AC(1)

Vitamin D3 prevents the adverse effects of steroids in asthmatic children receiving corticosteroids.

Pubmed Data : Clin Exp Allergy. 2009 Oct 7. PMID: **19817753**

Article Published Date : Oct 07, 2009

Authors : P Majak, B Rychlik, I Stelmach

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Asthma : CK(1146) : AC(188) , Asthma: Childhood : CK(101) : AC(10) , Corticosteroid-Induced Toxicity : CK(77) : AC(16), Cortisone Toxicity : CK(26) : AC(7)
Additional Keywords : Drug-Plant-Vitamin Synergies : CK(965) : AC(266)

Asthma: Bronchial (AC 1) (CK 1)

Vitamin D has potential immunomodulatory properties in regulating airway smooth muscle function and airway inflammation in bronchial asthma.

Pubmed Data : Expert Rev Respir Med. 2015 Dec 4. Epub 2015 Dec 4. PMID: 26634624

Article Published Date : Dec 03, 2015

Authors : Sannette C Hall, Kimberly D Fischer, Devendra K Agrawal

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Asthma: Bronchial : CK(280) : AC(36)
Pharmacological Actions : Immunomodulatory : CK(1287) : AC(358)

Asthma: Childhood (AC 4) (CK 41)

Childhood asthma may be a consequence of vitamin D deficiency.

Pubmed Data : Curr Opin Allergy Clin Immunol. 2009 Jun;9(3):202-7. PMID: 19365260

Article Published Date : Jun 01, 2009

Authors : Augusto A Litonjua

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Asthma : CK(1146) : AC(188) , Asthma: Childhood : CK(101) : AC(10)

Vitamin D deficiency and insufficiency might increase the risk of childhood asthma.

Pubmed Data : Int J Clin Exp Med. 2015 ;8(4):5699-706. Epub 2015 Apr 15. PMID: 26131154

Article Published Date : Dec 31, 2014

Authors : Lixin Man, Zhao Zhang, Meng Zhang, Yingying Zhang, Ju Li, Nan Zheng, Yanhua Cao,

Ming Chi, Yujin Chao, Qiuer Huang, Chunmei Song, Bo Xu

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Asthma: Childhood : CK(101) : AC(10) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Vitamin D supplementation is effective in preventing seasonal influenza A in schoolchildren, reducing risk by 59%. As a secondary outcome in children with a previous diagnosis of asthma, asthma attacks occurred in 2 children versus 12 who did not take D.

Pubmed Data : Am J Clin Nutr. 2010 May;91(5):1255-60. Epub 2010 Mar 10. PMID: **20219962**

Article Published Date : May 01, 2010

Authors : Mitsuyoshi Urashima, Takaaki Segawa, Minoru Okazaki, Mana Kurihara, Yasuyuki Wada, Hiroyuki Ida

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Asthma: Childhood : CK(101) : AC(10) , Childhood Infections : CK(275) : AC(29) , Cold and Flu : CK(1269) : AC(177), Cold and Flu: Infants & Children : CK(62) : AC(6), Influenza : CK(789) : AC(123)

Vitamin D3 prevents the adverse effects of steroids in asthmatic children receiving corticosteroids.

Pubmed Data : Clin Exp Allergy. 2009 Oct 7. PMID: **19817753**

Article Published Date : Oct 07, 2009

Authors : P Majak, B Rychlik, I Stelmach

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Asthma : CK(1146) : AC(188) , Asthma: Childhood : CK(101) : AC(10) , Corticosteroid-Induced Toxicity : CK(77) : AC(16), Cortisone Toxicity : CK(26) : AC(7)
Additional Keywords : Drug-Plant-Vitamin Synergies : CK(965) : AC(266)

Asthma: Prevention (AC 1) (CK 10)

Maternal vitamin D intake from foods during pregnancy may be negatively associated with risk of asthma and allergic rhinitis in childhood.

Pubmed Data : Clin Exp Allergy. 2009 Jun;39(6):875-82. PMID: 19522996

Article Published Date : Jun 01, 2009

Authors : M Erkkola, M Kaila, B I Nwaru, C Kronberg-Kippilä, S Ahonen, J Nevalainen, R Veijola, J Pekkanen, J Ilonen, O Simell, M Knip, S M Virtanen

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Allergic Rhinitis: Prevention : CK(12) : AC(2) , Asthma: Prevention : CK(40) : AC(3) , Prenatal Nutrition : CK(180) : AC(25), Prenatal Nutrition: Health of the Offspring : CK(246) : AC(35) , Prenatal Nutrition: Prevention of Problems : CK(367) : AC(42)

Atherosclerosis (AC 1) (CK 10)

Serum vitamin D levels was negatively associated with carotid atherosclerosis.

Pubmed Data : Int J Food Sci Nutr. 2016 Aug 18:1-7. Epub 2016 Aug 18. PMID: 27537342

Article Published Date : Aug 17, 2016

Authors : Yeon-Kyeong Choi, Sang-Wook Song, Bo-Ra Shin, Jeong-Ah Kim, Ha-Na Kim

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Atherosclerosis : CK(601) : AC(150) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Increased Risk : CK(1450) : AC(181)

Athletic Performance (AC 1) (CK 10)

Athletes who had lower vitamin D status had reduced performance scores.

Pubmed Data : Int J Sport Nutr Exerc Metab. 2016 Apr 20. Epub 2016 Apr 20. PMID: 27097322

Article Published Date : Apr 19, 2016

Authors : Rachel A Hildebrand, Bridget Miller, Aric Warren, Deana Hildebrand, Brenda J Smith

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Athletic Performance : CK(583) : AC(73) , Vitamin D Deficiency : CK(1695) : AC(178)

Athletic Performance: Strength (AC 1) (CK 1)

In this study supplementation with vitamin D led to improvements in muscle strength ranging from 1.37% to 18.75%.

Pubmed Data : J Strength Cond Res. 2016 Jun 28. Epub 2016 Jun 28. PMID: 27379960

Article Published Date : Jun 27, 2016

Authors : Chien-Ming Chiang, Ahmed Ismaeel, Rachel B Griffis, Suzy Weems

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Athletic Performance: Strength : CK(41) : AC(5)
Additional Keywords : Supplementation : CK(413) : AC(60)

Atopic Dermatitis (AC 3) (CK 21)

Epidemiological and clinical evidences indicate a beneficial role for vitamin D in atopic dermatitis.

Pubmed Data : J Immunol Res. 2015;2015:257879. Epub 2015 Apr 20. PMID: 25973433

Article Published Date : Dec 31, 2014

Authors : Michelangelo Vestita, Angela Filoni, Maurizio Congedo, Caterina Foti, Domenico Bonamonte

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Atopic Dermatitis : CK(1134) : AC(117) , Atopic Dermatitis: Infant & Childhood : CK(191) : AC(17)
Pharmacological Actions : Dermatologic Agents : CK(240) : AC(28)

Vitamin D deficiency is higher among children with asthma, allergic rhinitis, atopic dermatitis, acute urticaria, and food allergy.

Pubmed Data : Eur Ann Allergy Clin Immunol. 2011 Jun ;43(3):81-8. PMID: 21789969

Article Published Date : Jun 01, 2011

Authors : M S Ehlayel, A Bener, A Sabbah

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Allergic Rhinitis : CK(392) : AC(52) , Asthma : CK(1146) : AC(188) , Atopic Dermatitis : CK(1134) : AC(117), Atopic Disease : CK(101) : AC(10) , Food Allergies : CK(507) : AC(70) , Urticaria : CK(130) : AC(8), Vitamin D Deficiency : CK(1695) : AC(178)

Vitamin E and D supplementation improves symptoms of atopic dermatitis.

Pubmed Data : J Dermatolog Treat. 2010 Jul 24. Epub 2010 Jul 24. PMID: 20653487

Article Published Date : Jul 24, 2010

Authors : Mohammad Hassan Javanbakht, Seyed Ali Keshavarz, Mahmoud Djalali, Fereydoun Siassi, Mohammad Reza Eshraghian, Alireza Firooz, Hassan Seirafi, Amir Hooshang Ehsani, Maryam Chamari, Abbas Mirshafiey

Study Type : Human Study

Additional Links
Substances : Vitamin D : CK(3176) : AC(449) , Vitamin E : CK(1656) : AC(290)
Diseases : Atopic Dermatitis : CK(1134) : AC(117)

Atopic Dermatitis: Infant & Childhood (AC 2) (CK 11)

Epidemiological and clinical evidences indicate a beneficial role for vitamin D in atopic dermatitis.

Pubmed Data : J Immunol Res. 2015;2015:257879. Epub 2015 Apr 20. PMID: **25973433**

Article Published Date : Dec 31, 2014

Authors : Michelangelo Vestita, Angela Filoni, Maurizio Congedo, Caterina Foti, Domenico Bonamonte

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Atopic Dermatitis : CK(1134) : AC(117) , Atopic Dermatitis: Infant & Childhood : CK(191) : AC(17)
Pharmacological Actions : Dermatologic Agents : CK(240) : AC(28)

Vitamin D insufficiency is associated with challenge-proven food allergy in infants.

Pubmed Data : J Allergy Clin Immunol. 2013 Apr ;131(4):1109-16, 1116.e1-6. Epub 2013 Feb 27. PMID: **23453797**

Article Published Date : Mar 31, 2013

Authors : Katrina J Allen, Jennifer J Koplin, Anne-Louise Ponsonby, Lyle C Gurrin, Melissa Wake, Peter Vuillermin, Pamela Martin, Melanie Matheson, Adrian Lowe, Marnie Robinson, Dean Tey, Nicholas J Osborne, Thanh Dang, Hern-Tze Tina Tan, Leone Thiele, Deborah Anderson, Helen Czech, Jeeva Sanjeevan, Giovanni Zurzolo, Terence Dwyer, Mimi L K Tang, David Hill, Shyamali C Dharmage

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Atopic Dermatitis: Infant & Childhood : CK(191) : AC(17) , Food Allergies : CK(507) : AC(70), Food Allergies/Intolerances: Cereals/Grains : CK(11) : AC(2) , Vitamin D Deficiency : CK(1695) : AC(178)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)

Atopic Disease (AC 1) (CK 10)

Vitamin D deficiency is higher among children with asthma, allergic rhinitis, atopic dermatitis, acute urticaria, and food allergy.

Pubmed Data : Eur Ann Allergy Clin Immunol. 2011 Jun ;43(3):81-8. PMID: **21789969**

Article Published Date : Jun 01, 2011

Authors : M S Ehlayel, A Bener, A Sabbah

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Allergic Rhinitis : CK(392) : AC(52) , Asthma : CK(1146) : AC(188) , Atopic Dermatitis : CK(1134) : AC(117), Atopic Disease : CK(101) : AC(10) , Food Allergies : CK(507) : AC(70) , Urticaria : CK(130) : AC(8), Vitamin D Deficiency : CK(1695) : AC(178)

Atrial Fibrillation (AC 1) (CK 10)

A low plasma vitamin D concentration was strongly associated with atrial fibrillation in patients with chronic heart failure.

Pubmed Data : Adv Clin Exp Med. 2016 Jul-Aug;25(1):51-7. PMID: **26935498**

Article Published Date : Jun 30, 2016

Authors : Erdal Belen, Ahmet C Aykan, Ezgi Kalaycioglu, Mustafa A Sungur, Aylin Sungur, Mustafa Cetin

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Atrial Fibrillation : CK(422) : AC(52) , Heart Failure : CK(918) : AC(124) , Vitamin D Deficiency : CK(1695) : AC(178)

Autism Spectrum Disorders (AC 2) (CK 20)

Supplementation of vitamin D3 may significantly improve the outcome of some children with ASD.

Pubmed Data : Nutr Neurosci. 2016 Jan 18. Epub 2016 Jan 18. PMID: 26783092

Article Published Date : Jan 17, 2016

Authors : Junyan Feng, Ling Shan, Lin Du, Bing Wang, Honghua Li, Wei Wang, Tiantian Wang, Hanyu Dong, Xiaojing Yue, Zhida Xu, Wouter G Staal, Feiyong Jia

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Autism Spectrum Disorders : CK(1461) : AC(159) , Vitamin D Deficiency : CK(1695) : AC(178)

Vitamin C and D deficiencies in North American children may be contributing to cognitive disorders and autistic spectrum disorders.

Pubmed Data : Pediatrics. 2007 Mar;119(3):e783-90. PMID: 17332193

Article Published Date : Mar 01, 2007

Authors : James McCallum Noble, Arthur Mandel, Marc C Patterson

Study Type : Human Study
Additional Links
Substances : Vitamin C : CK(1956) : AC(403) , Vitamin D : CK(3209) : AC(455)
Diseases : Autism Spectrum Disorders : CK(1461) : AC(159) , Childhood Cognitive Disorders : CK(231) : AC(19), Childhood Deficiencies : CK(41) : AC(4)

Autoimmune Diseases (AC 4) (CK 23)

In patients with systemic lupus erythematosus low vitamin D was associated with a higher disease activity and an increase in serum vitamin D was associated with reduced disease activity over time.

Pubmed Data : Lupus Sci Med. 2015 ;2(1):e000064. Epub 2015 Apr 8. PMID: 25893106

Article Published Date : Dec 31, 2014

Authors : K S Yap, M Northcott, A B-Y Hoi, E F Morand, M Nikpour

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Autoimmune Diseases : CK(6629) : AC(1128), Systemic Lupus Erythematosus : CK(463) : AC(66), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303), Significant Treatment Outcome : CK(3038) : AC(366)

Vitamin D and beta-sitosterol may have beneficial effects in autoimmune diseases such as multiple sclerosis.

Pubmed Data : Int Immunopharmacol. 2010 Nov;10(11):1390-6. Epub 2010 Aug 20. PMID: 20728596

Article Published Date : Nov 01, 2010

Authors : Lini Alappat, Michael Valerio, Atif B Awad

Study Type : In Vitro Study
Additional Links
Substances : Beta Sitosterol : CK(45) : AC(15), Vitamin D : CK(3176) : AC(449)
Diseases : Autoimmune Diseases : CK(6604) : AC(1119), Lipopolysaccharide-Induced Toxicity : CK(359) : AC(218), Multiple Sclerosis : CK(964) : AC(184)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), NF-kappaB Inhibitor : CK(1113) : AC(693)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247)

Vitamin D supplementation during infancy, as well as intake of vitamin D during pregnancy has been associated with decreased risk of type 1 diabetes.

Pubmed Data : Pediatr Diabetes. 2007 Feb;8(1):11-4. PMID: 17341286

Article Published Date : Feb 01, 2007

Authors : Hilde K Brekke, Johnny Ludvigsson

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)

Diseases : Autoimmune Diseases : CK(6604) : AC(1119) , Diabetes Mellitus: Type 1 : CK(1086) : AC(290), Prenatal Nutrition: Prevention of Problems : CK(367) : AC(42)

Vitamin D3 may be an effective compliment to other B cell suppression therapeutics to augment downregulation of nonspecific inflammation.

Pubmed Data : J Nutr Metab. 2016 ;2016:4280876. Epub 2016 May 30. PMID: 27313879

Article Published Date : Dec 31, 2015

Authors : Omar K Danner, Leslie R Matthews, Sharon Francis, Veena N Rao, Cassie P Harvey, Richard P Tobin, Ken L Wilson, Ernest Alema-Mensah, M Karen Newell Rogers, Ed W Childs

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Autoimmune Diseases : CK(6604) : AC(1119)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622)

Bacterial Infections and Mycoses (AC 1) (CK 1)

Vitamin D and vitmain A (retinoic acid) may have a therapeutic role in the treatment of intracelleular infection, particular tubercolosis.

Pubmed Data : J Microbiol Immunol Infect. 2008 Feb;41(1):17-25. PMID: 18327422

Article Published Date : Feb 01, 2008

Authors : Paras K Anand, Deepak Kaul, Meera Sharma

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Bacterial Infections and Mycoses : CK(129) : AC(55) , Pulmonary Tubercolosis : CK(80) : AC(12), Tuberculosis : CK(312) : AC(54)

Bacterial Vaginosis (AC 2) (CK 11)

Maternal vitamin D deficiency is associated with bacterial vaginosis in the first trimester of pregnancy.

Pubmed Data : J Nutr. 2009 Jun;139(6):1157-61. Epub 2009 Apr 8. PMID: 19357214

Article Published Date : Jun 01, 2009

Authors : Lisa M Bodnar, Marijane A Krohn, Hyagriv N Simhan

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Bacterial Vaginosis : CK(46) : AC(6) , Prenatal Nutrition: Prevention of Problems : CK(367) : AC(42)

Vitamin D may be acting as a panaceal antibiotic agent and thus may be useful as an adjuvant therapy in diverse infections.

Pubmed Data : Ann N Y Acad Sci. 2014 May ;1317:76-83. Epub 2014 Mar 4. PMID: 24593793

Article Published Date : Apr 30, 2014

Authors : Elisabetta Borella, Gideon Nesher, Eitan Israeli, Yehuda Shoenfeld

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bacterial Vaginosis : CK(46) : AC(6) , Clostridium Infections : CK(233) : AC(45) , Dengue Fever : CK(2) : AC(2), Hepatitis B : CK(241) : AC(46), Hepatitis C : CK(474) : AC(87) , HIV Infections : CK(659) : AC(216), Influenza : CK(789) : AC(123) , Otitis media : CK(305) : AC(41) , Pneumonia : CK(399) : AC(54), Sepsis : CK(197) : AC(54) , Upper Respiratory Infections : CK(950) : AC(114) , Urinary Tract Infections : CK(397) : AC(57)
Pharmacological Actions : Anti-Bacterial Agents : CK(1367) : AC(475) , Anti-Infective Agents : CK(43) : AC(18)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Bladder Cancer (AC 3) (CK 50)

Review: there is a consistently strong inverse correlations

with solar UVB for 15 types of cancers.

Pubmed Data : Anticancer Res. 2012 Jan ;32(1):223-36. PMID: **22213311**

Article Published Date : Jan 01, 2012

Authors : William B Grant

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bladder Cancer : CK(349) : AC(100) , Breast Cancer : CK(3526) : AC(1059) , Cervical Cancer : CK(345) : AC(144), Colon Cancer : CK(749) : AC(430) , Colorectal Cancer : CK(1635) : AC(611) , Endometrial Cancer : CK(307) : AC(53) , Esophageal Cancer : CK(506) : AC(85) , Hodgkin Lymphoma : CK(53) : AC(7), Lung Cancer : CK(1033) : AC(393) , Non-Hodgkin Lymphoma : CK(363) : AC(79) , Ovarian Cancer : CK(360) : AC(128) , Pancreatic Cancer : CK(889) : AC(260) , Renal Cancer : CK(25) : AC(4), Vulvar Cancer : CK(52) : AC(4)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)
Pharmacological Actions : Chemopreventive : CK(2831) : AC(784)

There is an increased risk of bladder cancer in smokers with lower serum vitamin D.

Pubmed Data : Biol Trace Elem Res. 2002 Nov;89(2):105-10. PMID: **20978193**

Article Published Date : Nov 01, 2002

Authors : Alison M Mondul, Stephanie J Weinstein, Satu Männistö, Kirk Snyder, Ronald L Horst, Jarmo Virtamo, Demetrius Albanes

Study Type : Human Study
Additional Links
Substances : beta-Carotene : CK(318) : AC(53) , Vitamin D : CK(3176) : AC(449)
Diseases : Bladder Cancer : CK(349) : AC(100) , Smoking : CK(676) : AC(102)
Therapeutic Actions : Fasting/Caloric Restriction : CK(297) : AC(63)

Vitamin D deficiency is associated with increased risk of bladder carcinoma in the present study.

Pubmed Data : Cell Physiol Biochem. 2015 Nov 9 ;37(5):1686-1692. Epub 2015 Nov 9. PMID: **26545152**

Article Published Date : Nov 08, 2015

Authors : Hui Zhang, Hui Zhang, Xiuhua Wen, Yonggang Zhang, Xueli Wei, Taiyang Liu

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bladder Cancer : CK(349) : AC(100) , Bladder Cancer: Prevention : CK(89) : AC(9) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Anticarcinogenic Agents : CK(1097) : AC(518)
Additional Keywords : Risk Factors : CK(2584) : AC(332)

Bladder Cancer: Prevention (AC 1) (CK 20)

Vitamin D deficiency is associated with increased risk of bladder carcinoma in the present study.

Pubmed Data : Cell Physiol Biochem. 2015 Nov 9 ;37(5):1686-1692. Epub 2015 Nov 9. PMID: 26545152

Article Published Date : Nov 08, 2015

Authors : Hui Zhang, Hui Zhang, Xiuhua Wen, Yonggang Zhang, Xueli Wei, Taiyang Liu

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bladder Cancer : CK(349) : AC(100) , Bladder Cancer: Prevention : CK(89) : AC(9) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Anticarcinogenic Agents : CK(1097) : AC(518)
Additional Keywords : Risk Factors : CK(2584) : AC(332)

Bone Cancer (AC 1) (CK 1)

Vitamin D demonstrates antiproliferative activity against human bone cancer cells.

Pubmed Data : Phytomedicine. 2008 Aug;15(8):577-86. Epub 2008 Jun 30. PMID: 17412493

Article Published Date : Aug 01, 2008

Authors : Wei Wu, Xiaoyu Zhang, Laura P Zanello

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bone Cancer : CK(133) : AC(69)

Bone Fractures (AC 5) (CK 35)

Assessing optimal dietary intake of vitamin D for reducing fracture risk

Pubmed Data : Calcif Tissue Int. 2012 May 17. Epub 2012 May 17. PMID: 22592290

Article Published Date : May 16, 2012

Authors : Bess Dawson-Hughes

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Bone Fractures : CK(514) : AC(78) , Hip Fracture : CK(188) : AC(23)
Additional Keywords : Vitamin D Dosage : CK(11) : AC(2)

High dose vitamin D3 stimulates fracture healing.

Pubmed Data : Arch Orthop Trauma Surg. 1997;116(1-2):37-40. PMID: 9006763

Article Published Date : Jan 01, 1997

Authors : S Omeroğlu, D Erdoğan, H Omeroğlu

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Bone Fractures : CK(514) : AC(78)

High-dose vitamin D3 application had positive effects on fracture healing in a healthy animal model.

Pubmed Data : Arch Orthop Trauma Surg. 1997;116(5):271-4. PMID: 9177802

Article Published Date : Jan 01, 1997

Authors : H Omeroğlu, Y Ateş, O Akkuş, F Korkusuz, A Biçimoğlu, N Akkaş

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Bone Fractures : CK(514) : AC(78)

Nonvertebral fracture prevention with vitamin D is dose dependent,

Pubmed Data : Arch Intern Med. 2009 Mar 23;169(6):551-61. PMID: 19307517

Article Published Date : Mar 23, 2009

Authors : Heike A Bischoff-Ferrari, Walter C Willett, John B Wong, Andreas E Stuck, Hannes B Staehelin, E John Orav, Anna Thoma, Douglas P Kiel, Jana Henschkowski

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bone Fractures : CK(514) : AC(78)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Vitamin D supplementation between 700 to 800 IU/d appears to reduce the risk of hip and any nonvertebral fractures in ambulatory or institutionalized elderly persons.

Pubmed Data : JAMA. 2005 May 11;293(18):2257-64. PMID: **15886381**

Article Published Date : May 11, 2005

Authors : Heike A Bischoff-Ferrari, Walter C Willett, John B Wong, Edward Giovannucci, Thomas Dietrich, Bess Dawson-Hughes

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Bone Fractures : CK(514) : AC(78) , Hip Fracture : CK(188) : AC(23)

Brain Cancer Stem Cells (AC 1) (CK 1)

Natural Products That Target Cancer Stem Cells.

Pubmed Data : Anticancer Res. 2015 Nov ;35(11):5773-88. PMID: **26503998**

Article Published Date : Oct 31, 2015

Authors : Jim Moselhy, Sowmyalakshmi Srinivasan, Murali K Ankem, Chendil Damodaran

Study Type : Review
Additional Links
Substances : Baicalein : CK(61) : AC(44) , Cruciferous Vegetables : CK(1131) : AC(358) , Curcumin : CK(4135) : AC(2175), Vitamin D : CK(3176) : AC(449)
Diseases : Brain Cancer Stem Cells : CK(4) : AC(4) , Breast Cancer Stem Cells : CK(23) : AC(18) , Cancer Stem Cells : CK(105) : AC(64) , Colon Cancer Stem Cells : CK(1) : AC(1) , Liver Cancer Stem Cells : CK(2) : AC(1)
Additional Keywords : Selective Cytotoxicity : CK(158) : AC(112)

Brain Inflammation (AC 1) (CK 1)

A nutraceutical formulation with spirulina may help protect the stem progenitor cells from insults.

Pubmed Data : Minerva Urol Nefrol. 1985 Jan-Mar;37(1):35-50. PMID: PMC2864748

Article Published Date : Dec 31, 1984

Authors : F Aragona, C Spinelli, G Parlato, B Maestrini, F D'Elia, U Simi, L Fiorentini

Study Type : In Vitro Study
Additional Links
Substances : Blueberry : CK(260) : AC(90) , Green Tea : CK(1971) : AC(562) , Spirulina : CK(266) : AC(73), Vitamin D : CK(3176) : AC(449)
Diseases : Brain: Oxidative Stress : CK(79) : AC(46) , Brain Inflammation : CK(259) : AC(143), Oxidative Stress : CK(3855) : AC(1378)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616) , Antioxidants : CK(7304) : AC(2677), Neuroprotective Agents : CK(2268) : AC(1071)
Additional Keywords : Neural Stem Cell : CK(6) : AC(5) , Plant Extracts : CK(7483) : AC(2462)

Brain Injury: Traumatic (AC 1) (CK 10)

Vitamin D deficiency is common in patients after TBI and associated with impaired cognitive function and more severe depressive symptoms.

Pubmed Data : Clin Endocrinol (Oxf). 2016 Feb 27. Epub 2016 Feb 27. PMID: 26921561

Article Published Date : Feb 26, 2016

Authors : Omer A Jamall, Claire Feeney, Joanna Zaw-Linn, Aysha Malik, Mari Ek Niemi, Carmen Tenorio-Jimenez, Timothy E Ham, Sagar R Jilka, Peter O Jenkins, Gregory Scott, Lucia M Li, Nikolaos Gorgoraptis, David Baxter, David J Sharp, Anthony P Goldstone

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Brain Injury: Traumatic : CK(99) : AC(30) , Vitamin D Deficiency : CK(1695) : AC(178)

Additional Keywords : Risk Factors : CK(2597) : AC(334)

Brain: Oxidative Stress (AC 1) (CK 1)

A nutraceutical formulation with spirulina may help protect the stem progenitor cells from insults.

Pubmed Data : Minerva Urol Nefrol. 1985 Jan-Mar;37(1):35-50. PMID: PMC2864748

Article Published Date : Dec 31, 1984

Authors : F Aragona, C Spinelli, G Parlato, B Maestrini, F D'Elia, U Simi, L Fiorentini

Study Type : In Vitro Study

Additional Links

Substances : Blueberry : CK(260) : AC(90) , Green Tea : CK(1971) : AC(562) , Spirulina : CK(266) : AC(73), Vitamin D : CK(3176) : AC(449)

Diseases : Brain: Oxidative Stress : CK(79) : AC(46) , Brain Inflammation : CK(259) : AC(143), Oxidative Stress : CK(3855) : AC(1378)

Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616) , Antioxidants : CK(7304) : AC(2677), Neuroprotective Agents : CK(2268) : AC(1071)

Additional Keywords : Neural Stem Cell : CK(6) : AC(5) , Plant Extracts : CK(7483) : AC(2462)

Breast Cancer (AC 27) (CK 131)

1,25(OH)2D inhibits breast cancer cell metastatic capability as well as inhibits EMT, an essential step in the metastatic process.

Pubmed Data : Nutr Cancer. 2016 Aug 23:1-8. Epub 2016 Aug 23. PMID: 27552186

Article Published Date : Aug 22, 2016

Authors : Tomasz Wilmanski, Alle Barnard, Mukti R Parikh, Julia Kirshner, Kimberly Buhman, John Burgess, Dorothy Teegarden

Study Type : In Vitro Study

Additional Links

Substances : Vitamin D : CK(3209) : AC(455)

Diseases : Breast Cancer : CK(3526) : AC(1059) , Breast Cancer: Bone Metastasis : CK(20) : AC(9) , Breast Cancer: Triple Negative : CK(258) : AC(140)
Pharmacological Actions : Anti-metastatic : CK(615) : AC(412)

1,25-dihydroxyvitamin D alters glutamine metabolism in MCF10A-ras cells by inhibiting glutamine uptake and utilization.

Pubmed Data : J Steroid Biochem Mol Biol. 2016 May 3. Epub 2016 May 3. PMID: **27154413**

Article Published Date : May 02, 2016

Authors : Xuanzhu Zhou, Wei Zheng, G A Nagana Gowda, Daniel Raftery, Shawn S Donkin, Brian Bequette, Dorothy Teegarden

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075)
Additional Keywords : Harvey-ras Oncogene : CK(1) : AC(1)

A combination of high-dose vitamin D3 and ketogenic diet leads to changes in some biological markers of breast cancer.

Pubmed Data : Anticancer Res. 2015 Oct ;35(10):5525-32. PMID: **26408720**

Article Published Date : Sep 30, 2015

Authors : Jacopo J V Branca, Stefania Pacini, Marco Ruggiero

Study Type : Human: Case Report
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059)
Therapeutic Actions : Dietary Modification: Low Carbohydrate/Ketogenic : CK(315) : AC(52)
Additional Keywords : Supplementation : CK(413) : AC(60)

Dietary intake of vitamin D is associated with a reduced risk of breast cancer.

Pubmed Data : Am J Epidemiol. 2008 Aug 27. [Epub ahead of print] PMID: **18756015**

Article Published Date : Aug 27, 2008

Authors : Kristina M Blackmore, Maia Lesosky, Heidi Barnett, Janet M Raboud, Reinhold Vieth, Julia A Knight

Study Type : Human Study
Additional Links

Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059)

High levels of Pit-1 and reduced BRCA1 levels increase breast cancer cell susceptibility to 3-Epi+cisplatin therapy.

Pubmed Data : Oncotarget. 2015 Jun 10 ;6(16):14456-71. PMID: **25992773**

Article Published Date : Jun 09, 2015

Authors : Samuel Seoane, Efigenia Arias, Rita Sigueiro, Juan Sendon-Lago, Anxo Martinez-Ordoñez, Esteban Castelao, Noemí Eiró, Tomás Garcia-Caballero, Manuel Macia, Rafael Lopez-Lopez, Miguel Maestro, Francisco Vizoso, Antonio Mouriño, Roman Perez-Fernandez

Study Type : Animal Study, In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Chemosensitizer : CK(394) : AC(286)
Additional Keywords : Chemotherapeutic Synergy: Cisplatin : CK(80) : AC(57)

Maintaining an optimal 25(OH)D status at diagnosis and during the 1-year follow-up period is important for improving breast cancer patient survival.

Pubmed Data : Asian Pac J Cancer Prev. 2015 ;16(6):2507-13. PMID: **25824788**

Article Published Date : Dec 31, 2014

Authors : Seung Taek Lim, Ye Won Jeon, Young Jin Suh

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18) , Significant Treatment Outcome : CK(3038) : AC(366)

Melatonin and vitamin D3 synergistically inhibit the growth of breast cancer cells.

Pubmed Data : J Pineal Res. 2011 Mar;50(2):150-8. Epub 2010 Nov 22. PMID: **21091766**

Article Published Date : Mar 01, 2011

Authors : Sara Proietti, Alessandra Cucina, Fabrizio D'Anselmi, Simona Dinicola, Alessia Pasqualato, Elisabetta Lisi, Mariano Bizzarri

Study Type : In Vitro Study
Additional Links
Substances : Melatonin : CK(965) : AC(310) , Vitamin D : CK(3176) : AC(449)

Diseases : Breast Cancer : CK(3526) : AC(1059)
Pharmacological Actions : Cell cycle arrest : CK(810) : AC(612) , Tumor Suppressor Protein p53 Upregulation : CK(293) : AC(202)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247)

Results from this case-control study support the protective effect of higher serum concentration of 25(OH)D against breast cancer.

Pubmed Data : J Am Coll Nutr. 2016 Jun 22:1-8. Epub 2016 Jun 22. PMID: **27331363**

Article Published Date : Jun 21, 2016

Authors : Yasaman Jamshidinaeini, Mohammad Esmaeil Akbari, Morteza Abdollahi, Marjan Ajami, Sayed Hossein Davoodi

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332)

Review: there is a consistently strong inverse correlations with solar UVB for 15 types of cancers.

Pubmed Data : Anticancer Res. 2012 Jan ;32(1):223-36. PMID: **22213311**

Article Published Date : Jan 01, 2012

Authors : William B Grant

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bladder Cancer : CK(349) : AC(100) , Breast Cancer : CK(3526) : AC(1059) , Cervical Cancer : CK(345) : AC(144), Colon Cancer : CK(749) : AC(430) , Colorectal Cancer : CK(1635) : AC(611) , Endometrial Cancer : CK(307) : AC(53) , Esophageal Cancer : CK(506) : AC(85) , Hodgkin Lymphoma : CK(53) : AC(7), Lung Cancer : CK(1033) : AC(393) , Non-Hodgkin Lymphoma : CK(363) : AC(79) , Ovarian Cancer : CK(360) : AC(128) , Pancreatic Cancer : CK(889) : AC(260) , Renal Cancer : CK(25) : AC(4), Vulvar Cancer : CK(52) : AC(4)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)
Pharmacological Actions : Chemopreventive : CK(2831) : AC(784)

Somatostatin combined with melatonin, retinoids, vitamin D3, and low doses of cyclophosphamide led to an overall clinical benefit been achieved in 75% of cases.

Pubmed Data : Neuro Endocrinol Lett. 2013 ;34(7):660-8. PMID: **24464005**

Article Published Date : Dec 31, 2012

Authors : Giuseppe Di Bella, Fabrizio Mascia, Alessandro Ricchi, Biagio Colori

Study Type : Human Study
Additional Links
Substances : Melatonin : CK(965) : AC(310) , Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059) , Breast Cancer: Metastatic : CK(123) : AC(52) , Chemotherapy-Induced Toxicity: Cyclophosphamide : CK(78) : AC(28)
Additional Keywords : Natural Substance/Drug Synergy : CK(352) : AC(142) , Significant Treatment Outcome : CK(3038) : AC(366)

These results suggest women with high, compared with low, plasma 25(OH)D levels in the summer have a reduced breast cancer risk.

Pubmed Data : Cancer Res. 2016 Aug 16. Epub 2016 Aug 16. PMID: **27530324**

Article Published Date : Aug 15, 2016

Authors : A Heather Eliassen, Erica T Warner, Bernard Rosner, Laura C Collins, Andrew H Beck, Liza M Quintana, Rulla M Tamimi, Susan E Hankinson

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332)

Vitamin D consumption is associated with a reduced risk of breast cancer.

Pubmed Data : Cancer Epidemiol Biomarkers Prev. 2007 Mar;16(3):422-9. PMID: **17372236**

Article Published Date : Mar 01, 2007

Authors : Julia A Knight, Maia Lesosky, Heidi Barnett, Janet M Raboud, Reinhold Vieth

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059)

Vitamin D deficiency is highly prevalent in Chilean women with breast cancer before endocrine therapy.

Pubmed Data : Breast. 2016 Jul 8 ;29:39-43. Epub 2016 Jul 8. PMID: **27400446**

Article Published Date : Jul 07, 2016

Authors : Francisco Acevedo, Victoria Pérez, Alejandra Pérez-Sepúlveda, Pablo Florenzano, Rocío Artigas, Lidia Medina, César Sánchez

Study Type : Human Study

Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332)

Vitamin D deficiency is highly prevalent in women with breast cancer.

Pubmed Data : J Clin Oncol. 2009 May 1;27(13):2151-6. Epub 2009 Apr 6. PMID: **19349547**

Article Published Date : May 01, 2009

Authors : Katherine D Crew, Elizabeth Shane, Serge Cremers, Donald J McMahon, Dinaz Irani, Dawn L Hershman

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059)

Vitamin D enhances caspase-dependent and -independent TNFalpha-induced breast cancer cell death.

Pubmed Data : Int J Cancer. 2003 Aug 20;106(2):178-86. PMID: **12800192**

Article Published Date : Aug 20, 2003

Authors : Gregory E Weitsman, Amiram Ravid, Uri A Liberman, Ruth Koren

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059)
Pharmacological Actions : Apoptotic : CK(2958) : AC(2075) , Enzyme Inhibitors : CK(463) : AC(250) , Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)
Additional Keywords : Antineoplastic Agents : CK(69) : AC(28)

Vitamin D has profound inhibitory and pro-apoptic effects on human prostate, breast cancer and osteosarcoma cells lines.

Pubmed Data : Cancer Lett. 1997 Nov 25;120(1):65-9. PMID: **9570387**

Article Published Date : Nov 25, 1997

Authors : R S Fife, G W Sledge, C Proctor

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059) , Osteosarcoma : CK(133) : AC(69) , Prostate Cancer : CK(1489) : AC(437)

Vitamin D induces programmed cell death in breast cancer cells.

Pubmed Data : Biochem Cell Biol. 1994 Nov-Dec;72(11-12):537-45. PMID: **7654327**

Article Published Date : Nov 01, 1994

Authors : J Welsh

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059)
Pharmacological Actions : Apoptotic : CK(2958) : AC(2075)

Vitamin D radiosensitizes breast tumor cells to radiation treatment by promoting autophagy.

Pubmed Data : Radiother Oncol. 2009 Jun 19. PMID: **19541381**

Article Published Date : Jun 19, 2009

Authors : David A Gewirtz, Molly L Hilliker, Eden N Wilson

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059)
Additional Keywords : Drug-Plant-Vitamin Synergies : CK(965) : AC(266) , Radiation Resistant Breast Cancer : CK(1) : AC(1)

Vitamin D sensitizes breast cancer cells to the action of hydrogen peroxide.

Pubmed Data : Free Radic Biol Med. 2005 Jul 15;39(2):266-78. Epub 2005 Apr 7. PMID: **15964518**

Article Published Date : Jul 15, 2005

Authors : Gregory E Weitsman, Ruth Koren, Efrat Zuck, Carmela Rotem, Uri A Liberman, Amiram Ravid

Study Type : In Vitro Study
Additional Links
Substances : Hydrogen Peroxide : CK(7) : AC(7) , Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059)
Pharmacological Actions : Apoptotic : CK(2958) : AC(2075)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247)

Vitamin D signalling inhibits the expression of the tumor

progression gene Id1.

Pubmed Data : Endocrinology. 2016 Mar 2:en20152036. Epub 2016 Mar 2. PMID: **26934299**

Article Published Date : Mar 01, 2016

Authors : Jasmaine D Williams, Abhishek Aggarwal, Srilatha Swami, Aruna V Krishnan, Lijuan Ji, Megan A Albertelli, Brian J Feldman

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059) , Cancer Metastasis : CK(442) : AC(206)
Additional Keywords : Gene Expression Regulation : CK(427) : AC(212) , Risk Factors : CK(2584) : AC(332)

Vitamin D status should be monitored in all cancer patients and treated by adequate vitamin D3 supplementation.

Pubmed Data : Med Monatsschr Pharm. 2015 Dec ;38(12):512-6. PMID: **26837159**

Article Published Date : Nov 30, 2015

Authors : Uwe Gröber, Klaus Kisters, Irenäus A Adamietz

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059) , Cachexia: Cancer : CK(50) : AC(15) , Cancers: All : CK(14500) : AC(4586), Colon Cancer : CK(749) : AC(430) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332)
Problem Substances : Aromatase Inhibitor Drugs : CK(362) : AC(23) , Bisphosphonates : CK(499) : AC(63)

Vitamin D suppresses breast cancer cell growth on a gene-regulatory level.

Pubmed Data : Breast Cancer Res Treat. 2003 Jul;80(1):49-62. PMID: **12889598**

Article Published Date : Jul 01, 2003

Authors : Srilatha Swami, Nalini Raghavachari, Uwe R Muller, Yijia P Bao, David Feldman

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059)
Additional Keywords : Antineoplastic Agents : CK(69) : AC(28)

Vitamin D3 and Vitamin D3 receptor have a key role in the

growth-regulatory pathways in mammary gland and breast cancer.

Pubmed Data : J Steroid Biochem Mol Biol. 2002 Dec;83(1-5):85-92. PMID: 12650704

Article Published Date : Dec 01, 2002

Authors : JoEllen Welsh, Jennifer A Wietzke, Glendon M Zinser, Sarah Smyczek, Saara Romu, Emily Tribble, Jennifer C Welsh, Belinda Byrne, Carmen J Narvaez

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059)

Vitamin D3 down-regulates estrogen receptor abundance and suppresses estrogen actions in MCF-7 human breast cancer cells.

Pubmed Data : Clin Cancer Res. 2000 Aug;6(8):3371-9. PMID: 10955825

Article Published Date : Aug 01, 2000

Authors : S Swami, A V Krishnan, D Feldman

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059) , Estrogen Dominance : CK(107) : AC(38)
Pharmacological Actions : Estrogen Antagonists : CK(3) : AC(1)
Additional Keywords : Estrogen Receptor Positive Breast Cancer : CK(3) : AC(3)

Vitamin D3 sensitizes breast cancer cells to chemotherapy-induced death.

Pubmed Data : Immunopharmacol Immunotoxicol. 2010 Mar 17. Epub 2010 Mar 17. PMID: 10766196

Article Published Date : Mar 17, 2010

Authors : Q Wang, W Yang, M S Uytingco, S Christakos, R Wieder

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059) , Cancers: Drug Resistant : CK(351) : AC(222)
Pharmacological Actions : Chemosensitizer : CK(394) : AC(286)
Additional Keywords : Antineoplastic Agents : CK(69) : AC(28)

Women with low levels of vitamin D had a higher risk of breast tumours with an unfavourable prognosis.

Pubmed Data : Breast. 2016 Jun 18 ;28:184-190. Epub 2016 Jun 18. PMID: **27326980**

Article Published Date : Jun 17, 2016

Authors : L Shirazi, M Almquist, S Borgquist, J Malm, J Manjer

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18) , Risk Factors : CK(2584) : AC(332)

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low and decreased level of vitamin D might correlate with progression and metastasis of breast cancer.

Pubmed Data : Asian Pac J Cancer Prev. 2015 ;16(12):4881-3. PMID: **26163608**

Article Published Date : Dec 31, 2014

Authors : Somchai Thanasitthichai, Arkom Chaiwerawattana, Aree Prasitthipayong

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18) , Risk Factors : CK(2584) : AC(332) , Risk Reduction : CK(6346) : AC(680)

Breast Cancer Stem Cells (AC 1) (CK 1)

Natural Products That Target Cancer Stem Cells.

Pubmed Data : Anticancer Res. 2015 Nov ;35(11):5773-88. PMID: **26503998**

Article Published Date : Oct 31, 2015

Authors : Jim Moselhy, Sowmyalakshmi Srinivasan, Murali K Ankem, Chendil Damodaran

Study Type : Review
Additional Links
Substances : Baicalein : CK(61) : AC(44) , Cruciferous Vegetables : CK(1131) : AC(358) , Curcumin : CK(4135) : AC(2175) , Vitamin D : CK(3176) : AC(449)
Diseases : Brain Cancer Stem Cells : CK(4) : AC(4) , Breast Cancer Stem Cells : CK(23) : AC(18) , Cancer Stem Cells : CK(105) : AC(64) , Colon Cancer Stem Cells : CK(1) : AC(1) , Liver Cancer Stem Cells : CK(2) : AC(1)
Additional Keywords : Selective Cytotoxicity : CK(158) : AC(112)

Breast Cancer: Bone Metastasis (AC 1) (CK 1)

1,25(OH)2D inhibits breast cancer cell metastatic capability as well as inhibits EMT, an essential step in the metastatic process.

Pubmed Data : Nutr Cancer. 2016 Aug 23:1-8. Epub 2016 Aug 23. PMID: 27552186

Article Published Date : Aug 22, 2016

Authors : Tomasz Wilmanski, Alle Barnard, Mukti R Parikh, Julia Kirshner, Kimberly Buhman, John Burgess, Dorothy Teegarden

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Breast Cancer : CK(3526) : AC(1059) , Breast Cancer: Bone Metastasis : CK(20) : AC(9) , Breast Cancer: Triple Negative : CK(258) : AC(140)
Pharmacological Actions : Anti-metastatic : CK(615) : AC(412)

Breast Cancer: Metastatic (AC 1) (CK 10)

Somatostatin combined with melatonin, retinoids, vitamin D3, and low doses of cyclophosphamide led to an overall clinical benefit been achieved in 75% of cases.

Pubmed Data : Neuro Endocrinol Lett. 2013 ;34(7):660-8. PMID: 24464005

Article Published Date : Dec 31, 2012

Authors : Giuseppe Di Bella, Fabrizio Mascia, Alessandro Ricchi, Biagio Colori

Study Type : Human Study
Additional Links
Substances : Melatonin : CK(965) : AC(310) , Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059) , Breast Cancer: Metastatic : CK(123) : AC(52) , Chemotherapy-Induced Toxicity: Cyclophosphamide : CK(78) : AC(28)

Additional Keywords : Natural Substance/Drug Synergy : CK(352) : AC(142) , Significant Treatment Outcome : CK(3038) : AC(366)

Breast Cancer: Prevention (AC 4) (CK 50)

Adequate vitamin D stores may prevent breast cancer development.

Pubmed Data : Cancer Prev Res (Phila Pa). 2009 Jun;2(6):598-604. Epub 2009 May 26. PMID: 19470790

Article Published Date : Jun 01, 2009

Authors : Katherine D Crew, Marilie D Gammon, Susan E Steck, Dawn L Hershman, Serge Cremers, Elzbieta Dworakowski, Elizabeth Shane, Mary Beth Terry, Manisha Desai, Susan L Teitelbaum, Alfred I Neugut, Regina M Santella

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Breast Cancer: Prevention : CK(552) : AC(82)

Individuals with serum 25(OH)D of approximately 52 ng/ml had 50% lower risk of breast cancer than those with serum<13 ng/ml.

Pubmed Data : J Steroid Biochem Mol Biol. 2007 Mar ;103(3-5):708-11. PMID: 17368188

Article Published Date : Mar 01, 2007

Authors : Cedric F Garland, Edward D Gorham, Sharif B Mohr, William B Grant, Edward L Giovannucci, Martin Lipkin, Harold Newmark, Michael F Holick, Frank C Garland

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer: Prevention : CK(552) : AC(82) , Vitamin D Deficiency: Dosage Consideration : CK(1) : AC(1)
Pharmacological Actions : Chemopreventive : CK(2835) : AC(787)

Invariably almost all patients with breast cancer tested

were vitamin D deficient.

Pubmed Data : Indian J Endocrinol Metab. 2012 May ;16(3):409-13. PMID: 22629509

Article Published Date : May 01, 2012

Authors : Saba Imtiaz, Neelam Siddiqui, Syed Abbas Raza, Asif Loya, Aasim Muhammad

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Breast Cancer: Prevention : CK(552) : AC(82) , Vitamin D Deficiency : CK(1695) : AC(178)

Vitamin D exposure from both sun and diet are correlated with breast cancer risk.

Pubmed Data : Cancer Epidemiol Biomarkers Prev. 2011 Jan;20(1):187-98. Epub 2010 Dec 2. PMID: 21127286

Article Published Date : Jan 01, 2011

Authors : Pierre Engel, Guy Fagherazzi, Sylvie Mesrine, Marie-Christine Boutron-Ruault, Francoise Clavel-Chapelon

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Breast Cancer: Prevention : CK(552) : AC(82)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)

Breast Cancer: Recovery (AC 1) (CK 10)

Lower vitamin d status is associated with poorer breast cancer survival

Pubmed Data : Breast Cancer Res. 2011 Jul 26 ;13(4):R74. Epub 2011 Jul 26. PMID: 21791049 [

Article Published Date : Jul 26, 2011

Authors : Alina Vrieling, Rebecca Hein, Sascha Abbas, Andreas Schneeweiss, Dieter Flesch-Janys, Jenny Chang-Claude

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Breast Cancer: Recovery : CK(100) : AC(10)

Breast Cancer: Triple Negative (AC 1) (CK 1)

1,25(OH)2D inhibits breast cancer cell metastatic capability as well as inhibits EMT, an essential step in the metastatic process.

Pubmed Data : Nutr Cancer. 2016 Aug 23:1-8. Epub 2016 Aug 23. PMID: **27552186**

Article Published Date : Aug 22, 2016

Authors : Tomasz Wilmanski, Alle Barnard, Mukti R Parikh, Julia Kirshner, Kimberly Buhman, John Burgess, Dorothy Teegarden

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Breast Cancer : CK(3526) : AC(1059) , Breast Cancer: Bone Metastasis : CK(20) : AC(9) , Breast Cancer: Triple Negative : CK(258) : AC(140)
Pharmacological Actions : Anti-metastatic : CK(615) : AC(412)

Breastfeeding: Nutritional Deficiencies (AC 2) (CK 20)

Breastfed infants in winter who did not receive vitamin D supplementation were the most severely vitamin D deficient (78%).

Pubmed Data : Arch Pediatr Adolesc Med. 2008 Jun;162(6):513-9. PMID: **18524740**

Article Published Date : Jun 01, 2008

Authors : Alisha J Rovner, Kimberly O O'Brien

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Breastfeeding: Nutritional Deficiencies : CK(47) : AC(6) , Infant Nutrition : CK(90) : AC(14) , Lactation Disorders : CK(142) : AC(18) , Prenatal Nutrition: Health of the Offspring : CK(246) : AC(35) ,

Vitamin D Deficiency : CK(1695) : AC(178)

Vitamin D supplementation improves bone mineral density in breast-fed infants.

Pubmed Data : Eur J Clin Nutr. 2011 Jan 12. Epub 2011 Jan 12. PMID: 21224865

Article Published Date : Jan 12, 2011

Authors : F Savino, S Viola, V Tarasco, M M Lupica, E Castagno, R Oggero, R Miniero

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Breastfeeding: Nutritional Deficiencies : CK(47) : AC(6) , Infant Nutrition : CK(90) : AC(14)

Bronchial Asthma (AC 1) (CK 1)

Deficiency of vitamin D and vitamin C could alter the pathogenesis of bronchial asthma.

Pubmed Data : Bratisl Lek Listy. 2016 ;117(6):305-7. PMID: 27546360

Article Published Date : Dec 31, 2015

Authors : E Ginter, V Simko

Study Type : Review
Additional Links
Substances : Vitamin C : CK(1956) : AC(403) , Vitamin D : CK(3209) : AC(455)
Diseases : Bronchial Asthma : CK(1265) : AC(194) , Vitamin C Deficiency : CK(68) : AC(15) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Bronchitis (AC 1) (CK 20)

Low concentrations of serum 25-hydroxyvitamin D associated with increased risk for chronic bronchitis

among US adults.

Pubmed Data : Br J Nutr. 2011 Sep 8:1-7. Epub 2011 Sep 8. PMID: 21899806

Article Published Date : Sep 08, 2011

Authors : Guixiang Zhao, Earl S Ford, James Tsai, Chaoyang Li, Janet B Croft

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bronchitis : CK(73) : AC(7) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

C-Reactive Protein (AC 5) (CK 60)

Higher levels of Vitamin D may be associated with lower levels of C-reactive protein.

Pubmed Data : PLoS One. 2015 ;10(7):e0131740. Epub 2015 Jul 6. PMID: 26147588

Article Published Date : Dec 31, 2014

Authors : Marte C Liefaard, Symen Ligthart, Anna Vitezova, Albert Hofman, André G Uitterlinden, Jessica C Kiefte-de Jong, Oscar H Franco, M Carola Zillikens, Abbas Dehghan

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : C-Reactive Protein : CK(1630) : AC(172), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

The relationship between elevated serum uric acid and low-grade inflammation is mediated by the PTH:25(OH)D ratio in obese adolescents.

Pubmed Data : Metab Syndr Relat Disord. 2016 Jan 29. Epub 2016 Jan 29. PMID: 26824485

Article Published Date : Jan 28, 2016

Authors : Ramin Alemzadeh, Jessica Kichler

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : C-Reactive Protein : CK(1630) : AC(172), Hyperuricemia : CK(217) : AC(48) , Inflammation : CK(2923) : AC(860), Metabolic Syndrome X : CK(916) : AC(158) , Obesity : CK(2206) : AC(465) , Vitamin

D Deficiency : CK(1695) : AC(178)
Additional Keywords : Parathyroid Hormone : CK(52) : AC(5)

There was an inverse correlation between 25(OH) vitamin D and C-reactive protein, and this was more pronounced in patients with inflammatory diseases.

Pubmed Data : Clin Biochem. 2016 Jan 8. Epub 2016 Jan 8. PMID: **26778547**

Article Published Date : Jan 07, 2016

Authors : Adrian Kruit, Pieter Zanen

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : C-Reactive Protein : CK(1630) : AC(172), Inflammation : CK(2923) : AC(860), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Supplementation : CK(413) : AC(60)

Vitamin D supplementation may decrease serum levels of parathyroid hormone and inflammatory mediators in patients with chronic heart failure.

Pubmed Data : Clin Cardiol. 2015 Sep 28. Epub 2015 Sep 28. PMID: **26415519**

Article Published Date : Sep 27, 2015

Authors : Wei-Long Jiang, Hai-Bo Gu, Yu-Feng Zhang, Qing-Qing Xia, Jia Qi, Jian-Chang Chen

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : C-Reactive Protein : CK(1630) : AC(172), Heart Failure : CK(918) : AC(124)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622), Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)
Additional Keywords : Parathyroid Hormone : CK(52) : AC(5)

vitamin D supplementation had beneficial effects on improved glycemic control in patients with diabetic foot ulcer.

Pubmed Data : J Diabetes Complications. 2016 Jun 23. Epub 2016 Jun 23. PMID: **27363929**

Article Published Date : Jun 22, 2016

Authors : Reza Razzaghi, Hamideh Pourbagheri, Mansooreh Momen-Heravi, Fereshteh Bahmani, Jafar Shadi, Zahra Soleimani, Zatollah Asemi

Study Type : Human Study
Additional Links

Substances : Vitamin D : CK(3176) : AC(449)
Diseases : C-Reactive Protein : CK(1630) : AC(172), Diabetic Ulcer : CK(155) : AC(25), Wound Healing: Delayed : CK(74) : AC(29)
Pharmacological Actions : Anticholesteremic Agents : CK(1244) : AC(230), Malondialdehyde Down-regulation : CK(554) : AC(152)

Cachexia: Cancer (AC 1) (CK 1)

Vitamin D status should be monitored in all cancer patients and treated by adequate vitamin D3 supplementation.

Pubmed Data : Med Monatsschr Pharm. 2015 Dec ;38(12):512-6. PMID: 26837159

Article Published Date : Nov 30, 2015

Authors : Uwe Gröber, Klaus Kisters, Irenäus A Adamietz

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059), Cachexia: Cancer : CK(50) : AC(15), Cancers: All : CK(14500) : AC(4586), Colon Cancer : CK(749) : AC(430), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332)
Problem Substances : Aromatase Inhibitor Drugs : CK(362) : AC(23), Bisphosphonates : CK(499) : AC(63)

Cancer Metastasis (AC 2) (CK 12)

This study provides support for the use of 25-hydroxyvitamin D as a new predictor of outcome for colorectal liver metastases patients.

Pubmed Data : J Gastroenterol Hepatol. 2016 Feb 20. Epub 2016 Feb 20. PMID: 26896637

Article Published Date : Feb 19, 2016

Authors : Antonio Facciorusso, Valentina Del Prete, Nicola Muscatiello, Nicola Crucinio, Michele

Barone

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Cancer Metastasis : CK(442) : AC(206), Colorectal Cancer : CK(1635) : AC(611)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18)

Vitamin D signalling inhibits the expression of the tumor progression gene Id1.

Pubmed Data : Endocrinology. 2016 Mar 2:en20152036. Epub 2016 Mar 2. PMID: **26934299**

Article Published Date : Mar 01, 2016

Authors : Jasmaine D Williams, Abhishek Aggarwal, Srilatha Swami, Aruna V Krishnan, Lijuan Ji, Megan A Albertelli, Brian J Feldman

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059), Cancer Metastasis : CK(442) : AC(206)
Additional Keywords : Gene Expression Regulation : CK(427) : AC(212), Risk Factors : CK(2584) : AC(332)

Cancer Stem Cells (AC 1) (CK 1)

Natural Products That Target Cancer Stem Cells.

Pubmed Data : Anticancer Res. 2015 Nov ;35(11):5773-88. PMID: **26503998**

Article Published Date : Oct 31, 2015

Authors : Jim Moselhy, Sowmyalakshmi Srinivasan, Murali K Ankem, Chendil Damodaran

Study Type : Review
Additional Links
Substances : Baicalein : CK(61) : AC(44), Cruciferous Vegetables : CK(1131) : AC(358), Curcumin : CK(4135) : AC(2175), Vitamin D : CK(3176) : AC(449)
Diseases : Brain Cancer Stem Cells : CK(4) : AC(4), Breast Cancer Stem Cells : CK(23) : AC(18), Cancer Stem Cells : CK(105) : AC(64), Colon Cancer Stem Cells : CK(1) : AC(1), Liver Cancer Stem Cells : CK(2) : AC(1)
Additional Keywords : Selective Cytotoxicity : CK(158) : AC(112)

Cancer: Prostate (AC 1) (CK 5)

Vitamin D upregulates the expression of GDF-15 in prostate cancers driven by inflammation.

Pubmed Data : Prostate. 2014 Oct 18. Epub 2014 Oct 18. PMID: 25327758

Article Published Date : Oct 17, 2014

Authors : James R Lambert, Ramon J Whitson, Kenneth A Iczkowski, Francisco G La Rosa, Maxwell L Smith, R Storey Wilson, Elizabeth E Smith, Kathleen C Torkko, Hamid H Gari, M Scott Lucia

Study Type : Animal Study, Human In Vitro
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cancer: Prostate : CK(1466) : AC(428) , Inflammation : CK(2923) : AC(860)
Pharmacological Actions : Anti Inflammatory : CK(68) : AC(12)

Cancers: All (AC 11) (CK 21)

25(OH)D concentrations were associated with substantial reduction in risk of all invasive cancers combined.

Pubmed Data : PLoS One. 2016 ;11(4):e0152441. Epub 2016 Apr 6. PMID: 27049526

Article Published Date : Dec 31, 2015

Authors : Sharon L McDonnell, Carole Baggerly, Christine B French, Leo L Baggerly, Cedric F Garland, Edward D Gorham, Joan M Lappe, Robert P Heaney

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cancers: All : CK(14500) : AC(4586)
Additional Keywords : Risk Reduction : CK(6417) : AC(686)

A Western-style diet produces hyperproliferation of epithelial cells in several organs and that the changes can be prevented by increasing dietary calcium and vitamin D alone.

Pubmed Data : J Natl Cancer Inst. 1999 Jan 20;91(2):176-81. PMID: **9923860**

Article Published Date : Jan 20, 1999

Authors : L Xue, M Lipkin, H Newmark, J Wang

Study Type : Animal Study
Additional Links
Substances : Calcium : CK(287) : AC(44) , Vitamin D : CK(3176) : AC(449)
Diseases : Cancers: All : CK(14500) : AC(4586)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685)
Anti Therapeutic Actions : Western Diet : CK(131) : AC(35)

Dietary factors modify miRNA expression and their mRNA targets in various cancer processes.

Pubmed Data : Adv Nutr. 2011 Nov ;2(6):472-85. Epub 2011 Nov 3. PMID: **22332090**

Article Published Date : Oct 31, 2011

Authors : Sharon A Ross, Cindy D Davis

Study Type : Review
Additional Links
Substances : Curcumin : CK(4135) : AC(2175) , EGCG (Epigallocatechin gallate) : CK(609) : AC(314) , Fiber : CK(808) : AC(103) , Folate : CK(169) : AC(25) , Genistein : CK(515) : AC(228) , Resveratrol : CK(1245) : AC(746), Selenium : CK(784) : AC(139) , Vitamin A : CK(498) : AC(77) , Vitamin D : CK(3176) : AC(449), Vitamin E : CK(1656) : AC(290)
Diseases : Cancers: All : CK(14500) : AC(4586) , Inflammation : CK(2918) : AC(856)
Pharmacological Actions : Angiogenesis Inhibitors : CK(114) : AC(62) , Anti-metastatic : CK(615) : AC(412), Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612), Chemopreventive : CK(2831) : AC(784) , MicroRNA modulator : CK(260) : AC(142)
Additional Keywords : Dietary Concentrations : CK(95) : AC(23) , Plant Extracts : CK(7483) : AC(2462)

Growing evidence shows that vitamins, minerals, and other dietary factors have profound and protective effects against cancer cells, whether they are grown in the lab, in animals, or studied in human populations.

Pubmed Data : Semin Cancer Biol. 2015 Apr 10. Epub 2015 Apr 10. PMID: **25869442**

Article Published Date : Apr 09, 2015

Authors : Lynnette R Ferguson, Helen Chen, Andrew R Collins, Marisa Connell, Giovanna Damia, Santanu Dasgupta, Meenakshi Malhotra, Alan K Meeker, Amedeo Amedei, Amr Amin, S Salman Ashraf, Katia Aquilano, Asfar S Azmi, Dipita Bhakta, Alan Bilsland, Chandra S Boosani, Sophie Chen, Maria Rosa Ciriolo, Hiromasa Fujii, Gunjan Guha, Dorota Halicka, William G Helferich, W Nicol Keith, Sulma I Mohammed, Elena Niccolai, Xujuan Yang, Kanya Honoki, Virginia R Parslow, Satya Prakash, Sarallah Rezazadeh, Rodney E Shackelford, David Sidransky, Phuoc T Tran, Eddy S Yang, Christopher A Maxwell

Study Type : Review

Additional Links
Substances : Carotenoids : CK(1630) : AC(307) , Isothiocyanates : CK(573) : AC(265) , Polyphenols : CK(930) : AC(334), Resveratrol : CK(1245) : AC(746) , Selenium : CK(784) : AC(139) , Vitamin D : CK(3176) : AC(449)
Diseases : Cancers: All : CK(14500) : AC(4586) , DNA damage : CK(993) : AC(382)
Pharmacological Actions : Anticarcinogenic Agents : CK(1097) : AC(518) , Chemopreventive : CK(2831) : AC(784)
Additional Keywords : Genomic Instability : CK(1) : AC(1) , Natural Substance Synergy : CK(537) : AC(247)

The current findings support the application of 1,25D3 in cancer prevention and treatment.

Pubmed Data : Vitam Horm. 2016 ;100:395-431. Epub 2016 Jan 13. PMID: **26827961**

Article Published Date : Dec 31, 2015

Authors : Yingyu Ma, Candace S Johnson, Donald L Trump

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cancers: All : CK(14500) : AC(4586)
Pharmacological Actions : Chemopreventive : CK(2831) : AC(784)

The present review illustrates the effect of vitamin D and ascorbic acid intake on preventing cancer.

Pubmed Data : Crit Rev Food Sci Nutr. 2015 Oct 19:0. Epub 2015 Oct 19. PMID: **26479551**

Article Published Date : Oct 18, 2015

Authors : B V Sunil Kumar, Satparkash Singh, Ramneek Verma

Study Type : Review
Additional Links
Substances : Vitamin C : CK(1956) : AC(403) , Vitamin D : CK(3176) : AC(449)
Diseases : Cancers: All : CK(14500) : AC(4586)
Pharmacological Actions : Chemopreventive : CK(2831) : AC(784)

This review highlights the effects of vitamin D on CCN gene expression in the setting of two common pathologic conditions, fibrosis and cancer.

Pubmed Data : Cell Signal. 2016 Jul 23. Epub 2016 Jul 23. PMID: **27460560**

Article Published Date : Jul 22, 2016

Authors : Richard T Piszczatowski, Nathan H Lents

Study Type : In Vitro Study
Additional Links

Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cancers: All : CK(14500) : AC(4586) , Fibrosis : CK(13) : AC(8)
Additional Keywords : Gene Expression Regulation : CK(427) : AC(212)

Ultraviolet light, ginkgo biloba and other antioxidants may provide a safe, powerful adjunctive preventive treatment for cancer.

Pubmed Data : Med Hypotheses. 2006;66(6):1152-6. Epub 2006 Feb 17. PMID: **16483725**

Article Published Date : Jan 01, 2006

Authors : Robert Eli, James A Fasciano

Study Type : Commentary
Additional Links
Substances : Antioxidant formulas : CK(492) : AC(76) , Ginkgo biloba : CK(798) : AC(162) , Vitamin D : CK(3176) : AC(449)
Diseases : Cancers: All : CK(14500) : AC(4586)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)
Pharmacological Actions : Antioxidants : CK(7304) : AC(2677) , Chemopreventive : CK(2831) : AC(784)
Additional Keywords : Antineoplastic Agents : CK(69) : AC(28) , Plant Extracts : CK(7483) : AC(2462)

Vitamin D status may be an important modulator of cancer progression in persons living with cancer.

Pubmed Data : Oncol Res. 2015 ;22(3):129-37. PMID: **26168131**

Article Published Date : Dec 31, 2014

Authors : Xiayu Wu, Tao Zhou, Neng Cao, Juan Ni, Xu Wang

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cancers: All : CK(14500) : AC(4586)
Pharmacological Actions : Anticarcinogenic Agents : CK(1097) : AC(518)
Additional Keywords : Risk Factors : CK(2584) : AC(332) , Vitamin D Receptor (VDR) : CK(1) : AC(1)

Vitamin D status should be monitored in all cancer patients and treated by adequate vitamin D3 supplementation.

Pubmed Data : Med Monatsschr Pharm. 2015 Dec ;38(12):512-6. PMID: **26837159**

Article Published Date : Nov 30, 2015

Authors : Uwe Gröber, Klaus Kisters, Irenäus A Adamietz

Study Type : Commentary

Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059) , Cachexia: Cancer : CK(50) : AC(15) , Cancers: All : CK(14500) : AC(4586), Colon Cancer : CK(749) : AC(430) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332)
Problem Substances : Aromatase Inhibitor Drugs : CK(362) : AC(23) , Bisphosphonates : CK(499) : AC(63)

Vitamin D supplementation may significantly reduce the incidence of various cancers.

Pubmed Data : Ann Epidemiol. 2009 Jul;19(7):468-83. PMID: **19523595**

Article Published Date : Jul 01, 2009

Authors : Cedric F Garland, Edward D Gorham, Sharif B Mohr, Frank C Garland

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cancers: All : CK(14500) : AC(4586)

Cancers: Drug Resistant (AC 1) (CK 1)

Vitamin D3 sensitizes breast cancer cells to chemotherapy-induced death.

Pubmed Data : Immunopharmacol Immunotoxicol. 2010 Mar 17. Epub 2010 Mar 17. PMID: **10766196**

Article Published Date : Mar 17, 2010

Authors : Q Wang, W Yang, M S Uytingco, S Christakos, R Wieder

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059) , Cancers: Drug Resistant : CK(351) : AC(222)
Pharmacological Actions : Chemosensitizer : CK(394) : AC(286)
Additional Keywords : Antineoplastic Agents : CK(69) : AC(28)

Carcinoma: Non-Small-Cell Lung (AC 1) (CK 10)

Plasma 25(OH)D deficiency is significantly associated with a higher risk of NSCLC, specifically late stage NSCLC.

Pubmed Data : Cancer Biomark. 2015 Aug 31 ;15(5):663-8. PMID: **26406955**

Article Published Date : Aug 30, 2015

Authors : Xu Wang, Jiuwei Cui, Jingkai Gu, Hua He, Biao Li, Wei Li

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Carcinoma: Non-Small-Cell Lung : CK(134) : AC(71) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Increased Risk : CK(1450) : AC(181)

Cardiac Mortality (AC 7) (CK 100)

Being in the lowest quartile of vitamin D levels is associated with a 26% increased rate of all-cause mortality

Pubmed Data : Arch Intern Med. 2008 Aug 11;168(15):1629-37. PMID: **18695076**

Article Published Date : Aug 11, 2008

Authors : Michal L Melamed, Erin D Michos, Wendy Post, Brad Astor

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiac Mortality : CK(947) : AC(86), Mortality: All-Cause : CK(713) : AC(63) , Vitamin D Deficiency : CK(1695) : AC(178)

Both high and low concentrations of plasma 25(OH)D are associated with elevated risks of overall and cancer

mortality. Low concentrations are associated with cardiovascular mortality.

Pubmed Data : Am J Clin Nutr. 2010 Oct;92(4):841-8. Epub 2010 Aug 18. PMID: **20720256**

Article Published Date : Oct 01, 2010

Authors : Karl Michaëlsson, John A Baron, Greta Snellman, Rolf Gedeborg, Liisa Byberg, Johan Sundström, Lars Berglund, Johan Arnlöv, Per Hellman, Rune Blomhoff, Alicja Wolk, Hans Garmo, Lars Holmberg, Håkan Melhus

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiac Mortality : CK(947) : AC(86), Cardiovascular Diseases : CK(7145) : AC(903) , Elderly: Age Specific Diseases : CK(442) : AC(38) , Hypertension : CK(2984) : AC(406) , Mortality: All-Cause : CK(713) : AC(63)
Additional Keywords : Too Much Vitamin D : CK(10) : AC(1)

Doubling global vitamin D levels could significantly reduce mortality.

Pubmed Data : Eur J Clin Nutr. 2011 Jul 6. Epub 2011 Jul 6. PMID: **21731036**

Article Published Date : Jul 06, 2011

Authors : W B Grant

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Cardiac Mortality : CK(947) : AC(86), Cardiovascular Diseases : CK(7176) : AC(907) , Mortality: All-Cause : CK(713) : AC(63), Respiratory Diseases : CK(250) : AC(39) , Tuberculosis : CK(312) : AC(54) , Vitamin D Deficiency : CK(1695) : AC(178)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)

Evidence from observational studies indicates inverse associations of circulating 25-hydroxyvitamin D with risks of death due to cardiovascular disease, cancer, and other causes.

Pubmed Data : BMJ. 2014 ;348:g1903. Epub 2014 Apr 1. PMID: **24690623**

Article Published Date : Dec 31, 2013

Authors : Rajiv Chowdhury, Setor Kunutsor, Anna Vitezova, Clare Oliver-Williams, Susmita Chowdhury, Jessica C Kiefte-de-Jong, Hassan Khan, Cristina P Baena, Dorairaj Prabhakaran, Moshe B Hoshen, Becca S Feldman, An Pan, Laura Johnson, Francesca Crowe, Frank B Hu, Oscar H Franco

Study Type : Meta Analysis
Additional Links

Substances : Vitamin D : CK(3176) : AC(449)
Diseases : All-Cause Mortality : CK(333) : AC(26) , Cardiac Mortality : CK(947) : AC(86)

Low vitamin D levels are independently associated with all-cause and cardiovascular mortality.

Pubmed Data : Arch Intern Med. 2008 Jun 23;168(12):1340-9. PMID: **18574092**

Article Published Date : Jun 23, 2008

Authors : Harald Dobnig, Stefan Pilz, Hubert Scharnagl, Wilfried Renner, Ursula Seelhorst, Britta Wellnitz, Jürgen Kinkeldei, Bernhard O Boehm, Gisela Weihrauch, Winfried Maerz

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiac Mortality : CK(947) : AC(86), Cardiovascular Diseases : CK(7176) : AC(907) , Mortality: All-Cause : CK(713) : AC(63) , Vitamin D Deficiency : CK(1695) : AC(178)

Lower vitamin D levels are associated with all-cause mortality and even more pronounced with cardiovascular mortality.

Pubmed Data : Clin Endocrinol (Oxf). 2009 Nov;71(5):666-72. Epub 2009 Feb 18. PMID: **19226272**

Article Published Date : Nov 01, 2009

Authors : Stefan Pilz, Harald Dobnig, Giel Nijpels, Robert J Heine, Coen D A Stehouwer, Marieke B Snijder, Rob M van Dam, Jacqueline M Dekker

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiac Mortality : CK(947) : AC(86), Cardiovascular Diseases : CK(7145) : AC(903) , Mortality: All-Cause : CK(713) : AC(63) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Increased Risk : CK(1450) : AC(181)

Serum vitamin D levels have an independent, inverse association with cardiovascular disease and all-cause mortality.

Pubmed Data : J Am Geriatr Soc. 2009 Sep;57(9):1595-603. Epub 2009 Jun 22. PMID: **19549021**

Article Published Date : Sep 01, 2009

Authors : Adit A Ginde, Robert Scragg, Robert S Schwartz, Carlos A Camargo

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiac Mortality : CK(947) : AC(86), Cardiovascular Diseases : CK(7176) : AC(907) ,

Mortality: All-Cause : CK(713) : AC(63) , Vitamin D Deficiency : CK(1695) : AC(178)

Cardiovascular Disease: Prevention (AC 2) (CK 20)

Improvement of vitamin D status may help reduce the public health burden of metabolic syndrome, and potential subsequent health conditions including type 2 diabetes and cardiovascular disease.

Pubmed Data : Nutrients. 2015 ;7(9):7271-84. Epub 2015 Aug 28. PMID: **26343719**

Article Published Date : Dec 31, 2014

Authors : Truong-Minh Pham, John Paul Ekwaru, Solmaz Setayeshgar, Paul J Veugelers

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiovascular Disease: Prevention : CK(3187) : AC(425) , Diabetes Mellitus: Type 2: Prevention : CK(651) : AC(86), Metabolic Diseases : CK(411) : AC(75)
Additional Keywords : Risk Reduction : CK(6366) : AC(681) , Supplementation : CK(413) : AC(60)

Vitamin D can positively modulate endothelial function in patients with stable SLE.

Pubmed Data : Sci Rep. 2016 ;6:22341. Epub 2016 Mar 1. PMID: **26930567**

Article Published Date : Dec 31, 2015

Authors : John A Reynolds, Sahena Haque, Kate Williamson, David W Ray, M Yvonne Alexander, Ian N Bruce

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiovascular Disease: Prevention : CK(3187) : AC(425) , Systemic Lupus Erythematosus : CK(463) : AC(66)

Cardiovascular Diseases (AC 13) (CK 141)

Both high and low concentrations of plasma 25(OH)D are associated with elevated risks of overall and cancer mortality. Low concentrations are associated with cardiovascular mortality.

Pubmed Data : Am J Clin Nutr. 2010 Oct;92(4):841-8. Epub 2010 Aug 18. PMID: **20720256**

Article Published Date : Oct 01, 2010

Authors : Karl Michaëlsson, John A Baron, Greta Snellman, Rolf Gedeborg, Liisa Byberg, Johan Sundström, Lars Berglund, Johan Arnlöv, Per Hellman, Rune Blomhoff, Alicja Wolk, Hans Garmo, Lars Holmberg, Håkan Melhus

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiac Mortality : CK(947) : AC(86), Cardiovascular Diseases : CK(7145) : AC(903) , Elderly: Age Specific Diseases : CK(442) : AC(38) , Hypertension : CK(2984) : AC(406) , Mortality: All-Cause : CK(713) : AC(63)
Additional Keywords : Too Much Vitamin D : CK(10) : AC(1)

Doubling global vitamin D levels could significantly reduce mortality.

Pubmed Data : Eur J Clin Nutr. 2011 Jul 6. Epub 2011 Jul 6. PMID: **21731036**

Article Published Date : Jul 06, 2011

Authors : W B Grant

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Cardiac Mortality : CK(947) : AC(86), Cardiovascular Diseases : CK(7176) : AC(907) , Mortality: All-Cause : CK(713) : AC(63), Respiratory Diseases : CK(250) : AC(39) , Tuberculosis : CK(312) : AC(54) , Vitamin D Deficiency : CK(1695) : AC(178)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)

Low vitamin D levels are independently associated with all-cause and cardiovascular mortality.

Pubmed Data : Arch Intern Med. 2008 Jun 23;168(12):1340-9. PMID: **18574092**

Article Published Date : Jun 23, 2008

Authors : Harald Dobnig, Stefan Pilz, Hubert Scharnagl, Wilfried Renner, Ursula Seelhorst, Britta Wellnitz, Jürgen Kinkeldei, Bernhard O Boehm, Gisela Weihrauch, Winfried Maerz

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiac Mortality : CK(947) : AC(86), Cardiovascular Diseases : CK(7176) : AC(907) , Mortality: All-Cause : CK(713) : AC(63) , Vitamin D Deficiency : CK(1695) : AC(178)

Lower vitamin D levels are associated with all-cause mortality and even more pronounced with cardiovascular mortality.

Pubmed Data : Clin Endocrinol (Oxf). 2009 Nov;71(5):666-72. Epub 2009 Feb 18. PMID: **19226272**

Article Published Date : Nov 01, 2009

Authors : Stefan Pilz, Harald Dobnig, Giel Nijpels, Robert J Heine, Coen D A Stehouwer, Marieke B Snijder, Rob M van Dam, Jacqueline M Dekker

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiac Mortality : CK(947) : AC(86), Cardiovascular Diseases : CK(7145) : AC(903) , Mortality: All-Cause : CK(713) : AC(63) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Increased Risk : CK(1450) : AC(181)

Serum vitamin D levels have an independent, inverse association with cardiovascular disease and all-cause mortality.

Pubmed Data : J Am Geriatr Soc. 2009 Sep;57(9):1595-603. Epub 2009 Jun 22. PMID: **19549021**

Article Published Date : Sep 01, 2009

Authors : Adit A Ginde, Robert Scragg, Robert S Schwartz, Carlos A Camargo

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiac Mortality : CK(947) : AC(86), Cardiovascular Diseases : CK(7176) : AC(907) , Mortality: All-Cause : CK(713) : AC(63) , Vitamin D Deficiency : CK(1695) : AC(178)

Temporal improvements in vitamin D status reduce serum homocysteine concentrations.

Pubmed Data : PLoS One. 2016 ;11(8):e0161368. Epub 2016 Aug 22. PMID: **27548258**

Article Published Date : Dec 31, 2015

Authors : Truong-Minh Pham, John Paul Ekwaru, Silmara S Mastroeni, Marco F Mastroeni, Sarah A Loehr, Paul J Veugelers

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiovascular Diseases : CK(7176) : AC(907) , High Homocysteine : CK(443) : AC(65)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

This reviews the existing knowledge about the link between telomere biology and cellular aging with a focus on the role of vitamin D.

Pubmed Data : Clin Chem Lab Med. 2015 Mar 21. Epub 2015 Mar 21. PMID: **25803084**

Article Published Date : Mar 20, 2015

Authors : Irene Pusceddu, Christopher-John L Farrell, Angela Maria Di Pierro, Erika Jani, Wolfgang Herrmann, Markus Herrmann

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Aging : CK(1633) : AC(434), Cardiovascular Diseases : CK(7176) : AC(907) , Neurodegenerative Diseases : CK(3376) : AC(850)
Pharmacological Actions : Genoprotective : CK(270) : AC(97)
Additional Keywords : Telomere Length : CK(18) : AC(5)

Vitamin D deficiency is associated with incident cardiovascular disease.

Pubmed Data : Circulation. 2008 Jan 29;117(4):503-11. Epub 2008 Jan 7. PMID: **18180395**

Article Published Date : Jan 29, 2008

Authors : Thomas J Wang, Michael J Pencina, Sarah L Booth, Paul F Jacques, Erik Ingelsson, Katherine Lanier, Emelia J Benjamin, Ralph B D'Agostino, Myles Wolf, Ramachandran S Vasan

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiovascular Diseases : CK(7145) : AC(903) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Vitamin D deficiency is highly prevalent in US adults (especially African-Americans) with cardiovascular diseases, particularly coronary heart disease and heart failure.

Pubmed Data : Am J Cardiol. 2008 Dec 1;102(11):1540-4. Epub 2008 Sep 24. PMID: **19026311**

Article Published Date : Dec 01, 2008

Authors : Dae Hyun Kim, Siamak Sabour, Utpal N Sagar, Suzanne Adams, David J Whellan

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Cardiovascular Diseases : CK(7176) : AC(907), Coronary Artery Disease : CK(1468) : AC(155) , Heart Failure : CK(918) : AC(124)

Vitamin D supplementation improved some cardiovascular disease risk factors in healthy volunteers.

Pubmed Data : Ther Adv Endocrinol Metab. 2016 Aug ;7(4):153-65. Epub 2016 Jun 20. PMID: **27540461**

Article Published Date : Jul 31, 2016

Authors : Emad A S Al-Dujaili, Nimrah Munir, Raquel Revuelta Iniesta

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiovascular Diseases : CK(7176) : AC(907) , Oxidative Stress : CK(3855) : AC(1378) , Vitamin D Deficiency : CK(1695) : AC(178)
Therapeutic Actions : Exercise : CK(1235) : AC(193)
Pharmacological Actions : Antioxidants : CK(7304) : AC(2677) , Enzyme Inhibitors : CK(463) : AC(250)

Vitamin D supplementation in dialysis patients might help prevent cardiovascular diseases.

Pubmed Data : Hemodial Int. 2016 Jun 29. Epub 2016 Jun 29. PMID: **27358162**

Article Published Date : Jun 28, 2016

Authors : Yusuf Karakas, Garip Sahin, Furkan Ertürk Urfali, Cengiz Bal, Nevbahar Akcar Degirmenci, Basar Sirmagul

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiovascular Diseases : CK(7145) : AC(903) , Endothelial Dysfunction : CK(1176) : AC(232), Hemodialysis : CK(453) : AC(48)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

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current evidence clearly demonstrates that in certain conditions vitamin D can improve endothelial dysfunction

Pubmed Data : Cardiovasc Ther. 2015 Jun ;33(3):145-54. PMID: **25850709**

Article Published Date : May 31, 2015

Authors : Marko Stojanović, Miroslav Radenković

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiovascular Diseases : CK(7145) : AC(903) , Endothelial Dysfunction : CK(1176) : AC(232)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

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vitamin D supplementation may be effective in optimizing vitamin D status and counteracting the progression of aortic stiffness in black youth.

Pubmed Data : J Clin Endocrinol Metab. 2010 Oct;95(10):4584-91. Epub 2010 Jul 21. PMID: **20660028**

Article Published Date : Oct 01, 2010

Authors : Yanbin Dong, Inger S Stallmann-Jorgensen, Norman K Pollock, Ryan A Harris, Daniel Keeton, Ying Huang, Ke Li, Reda Bassali, De-huang Guo, Jeffrey Thomas, Gary L Pierce, Jennifer White, Michael F Holick, Haidong Zhu

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Arterial Hardening: Elasticity : CK(186) : AC(21), Cardiovascular Diseases : CK(7176) : AC(907) , Vitamin D Deficiency : CK(1695) : AC(178)

Carpal Tunnel Syndrome (AC 1) (CK 10)

This study suggests a potential link between vitamin D status and the occurrence of carpal tunnel syndrome in women younger than 50 years.

Pubmed Data : J Hand Surg Eur Vol. 2016 Jul ;41(6):643-7. Epub 2015 Dec 23. PMID: **26701973**

Article Published Date : Jun 30, 2016

Authors : S H Lee, H S Gong, D H Kim, H S Shin, K M Kim, J Kim, G H Baek

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Carpal Tunnel Syndrome : CK(150) : AC(15) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Celiac Disease (AC 4) (CK 15)

A remarkable preventive role of many vitamins like B6, B9, B12 and D on the risk of developing CRC was suggested by a large number of observational studies.

Pubmed Data : World J Gastroenterol. 2015 May 7 ;21(17):5191-5209. PMID: 25954093

Article Published Date : May 06, 2015

Authors : Omar A Masri, Jean M Chalhoub, Ala I Sharara

Study Type : Review
Additional Links
Substances : Folate : CK(169) : AC(25) , Vitamin B-12 : CK(780) : AC(104) , Vitamin B-6 : CK(435) : AC(54), Vitamin C : CK(1956) : AC(403) , Vitamin D : CK(3176) : AC(449) , Vitamin E : CK(1656) : AC(290)
Diseases : Celiac Disease : CK(1612) : AC(232) , Colorectal Cancer : CK(1635) : AC(611) , Colorectal Cancer: Prevention : CK(207) : AC(36), Gastrointestinal Diseases : CK(73) : AC(22)
Pharmacological Actions : Gastrointestinal Agents : CK(268) : AC(41)

Calcium, Vitamin D and a Gluten-Free diet decreased bone pain and improved muscle strength.

Pubmed Data : Arch Osteoporos. 2011 Dec ;6(1-2):209-213. Epub 2011 Jun 15. PMID: 22207878

Article Published Date : Dec 01, 2011

Authors : Noortje M Rabelink, Hans M Westgeest, Nathalie Bravenboer, Maarten A J M Jacobs, Paul Lips

Study Type : Human: Case Report
Additional Links
Substances : Calcium : CK(287) : AC(44) , Vitamin D : CK(3176) : AC(449)
Diseases : Celiac Disease : CK(1612) : AC(232) , Osteomalacia : CK(37) : AC(5) , Osteoporosis : CK(1283) : AC(245)
Therapeutic Actions : Dietary Modification: Wheat/Gluten Free : CK(293) : AC(46)
Problem Substances : Gluten : CK(1088) : AC(167)

Individuals with untreated celiac disease may have reduced bone mineral density associated with deficiencies of nutrients.

Pubmed Data : Nutr Rev. 2009 Oct;67(10):599-606. PMID: **19785691**

Article Published Date : Oct 01, 2009

Authors : Vanessa D Capriles, Ligia A Martini, José Alfredo G Arêas

Study Type : Review
Additional Links
Substances : Calcium : CK(287) : AC(44) , Vitamin D : CK(3176) : AC(449)
Diseases : Celiac Disease : CK(1612) : AC(232) , Celiac Disease: In Children and Adolescents : CK(32) : AC(5), Celiac Disease: Refractory : CK(11) : AC(3) , Inflammation : CK(2923) : AC(860) , Osteoporosis : CK(1282) : AC(244), Osteoporosis: In Children & Adolescents : CK(2) : AC(2)
Therapeutic Actions : Dietary Modification: Wheat/Gluten Free : CK(293) : AC(46)

Osteoporosis rates are higher in adult patients with celiac disease.

Pubmed Data : Bone. 1999 Mar;24(3):249-55. PMID: **10071918**

Article Published Date : Mar 01, 1999

Authors : T Kemppainen, H Kröger, E Janatuinen, I Arnala, V M Kosma, P Pikkarainen, R Julkunen, J Jurvelin, E Alhava, M Uusitupa

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Celiac Disease : CK(1612) : AC(232) , Osteoporosis : CK(1283) : AC(245)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Celiac Disease: In Children and Adolescents (AC 1) (CK 1)

Individuals with untreated celiac disease may have reduced bone mineral density associated with deficiencies of nutrients.

Pubmed Data : Nutr Rev. 2009 Oct;67(10):599-606. PMID: **19785691**

Article Published Date : Oct 01, 2009

Authors : Vanessa D Capriles, Ligia A Martini, José Alfredo G Arêas

Study Type : Review
Additional Links
Substances : Calcium : CK(287) : AC(44) , Vitamin D : CK(3176) : AC(449)
Diseases : Celiac Disease : CK(1612) : AC(232) , Celiac Disease: In Children and Adolescents : CK(32) : AC(5), Celiac Disease: Refractory : CK(11) : AC(3) , Inflammation : CK(2923) : AC(860) , Osteoporosis : CK(1282) : AC(244), Osteoporosis: In Children & Adolescents : CK(2) : AC(2)
Therapeutic Actions : Dietary Modification: Wheat/Gluten Free : CK(293) : AC(46)

Celiac Disease: Refractory (AC 1) (CK 1)

Individuals with untreated celiac disease may have reduced bone mineral density associated with deficiencies of nutrients.

Pubmed Data : Nutr Rev. 2009 Oct;67(10):599-606. PMID: 19785691

Article Published Date : Oct 01, 2009

Authors : Vanessa D Capriles, Ligia A Martini, José Alfredo G Arêas

Study Type : Review
Additional Links
Substances : Calcium : CK(287) : AC(44) , Vitamin D : CK(3176) : AC(449)
Diseases : Celiac Disease : CK(1612) : AC(232) , Celiac Disease: In Children and Adolescents : CK(32) : AC(5), Celiac Disease: Refractory : CK(11) : AC(3) , Inflammation : CK(2923) : AC(860) , Osteoporosis : CK(1282) : AC(244), Osteoporosis: In Children & Adolescents : CK(2) : AC(2)
Therapeutic Actions : Dietary Modification: Wheat/Gluten Free : CK(293) : AC(46)

Cerebrovascular Disorders (AC 1) (CK 10)

This study shows an association of vitamin D deficiency with diffuse subcortical brain damage in older adults living in a tropical region.

Pubmed Data : Int J Stroke. 2015 Aug 26. Epub 2015 Aug 26. PMID: 26310517

Article Published Date : Aug 25, 2015

Authors : Oscar H Del Brutto, Robertino M Mera, Jorge Macias, Gabriela Morales, Mauricio Zambrano

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cerebrovascular Disorders : CK(10) : AC(1) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Cervical Cancer (AC 1) (CK 20)

Review: there is a consistently strong inverse correlations with solar UVB for 15 types of cancers.

Pubmed Data : Anticancer Res. 2012 Jan ;32(1):223-36. PMID: 22213311

Article Published Date : Jan 01, 2012

Authors : William B Grant

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bladder Cancer : CK(349) : AC(100) , Breast Cancer : CK(3526) : AC(1059) , Cervical Cancer : CK(345) : AC(144), Colon Cancer : CK(749) : AC(430) , Colorectal Cancer : CK(1635) : AC(611) , Endometrial Cancer : CK(307) : AC(53) , Esophageal Cancer : CK(506) : AC(85) , Hodgkin Lymphoma : CK(53) : AC(7), Lung Cancer : CK(1033) : AC(393) , Non-Hodgkin Lymphoma : CK(363) : AC(79) , Ovarian Cancer : CK(360) : AC(128) , Pancreatic Cancer : CK(889) : AC(260) , Renal Cancer : CK(25) : AC(4), Vulvar Cancer : CK(52) : AC(4)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)
Pharmacological Actions : Chemopreventive : CK(2831) : AC(784)

Chemically-Induced Liver Damage (AC 1) (CK 2)

Vitamin D-enriched Shiitake mushroom exerts a synergistic anti-inflammatory effect in an immune-mediated hepatitis model.

Pubmed Data : J Med Food. 2016 Mar 30. Epub 2016 Mar 30. PMID: **27027234**

Article Published Date : Mar 29, 2016

Authors : Ariel Drori, Yehudit Shabat, Ami Ben Ya'acov, Ofer Danay, Dan Levanon, Lidya Zolotarov, Yaron Ilan

Study Type : Animal Study

Additional Links

Substances : Shiitake Mushroom : CK(43) : AC(22), Vitamin D : CK(3176) : AC(449)

Diseases : Chemically-Induced Liver Damage : CK(634) : AC(255) , Hepatitis C : CK(474) : AC(87) , Liver Disease : CK(135) : AC(40)

Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Hepatoprotective : CK(1383) : AC(592)

Additional Keywords : Natural Substance Synergy : CK(537) : AC(247) , Plant Extracts : CK(7483) : AC(2462)

Problem Substances : Concanavalin A : CK(25) : AC(10)

Chemotherapy-Induced Toxicity: Cyclophosphamide (AC 1) (CK 10)

Somatostatin combined with melatonin, retinoids, vitamin D3, and low doses of cyclophosphamide led to an overall clinical benefit been achieved in 75% of cases.

Pubmed Data : Neuro Endocrinol Lett. 2013 ;34(7):660-8. PMID: **24464005**

Article Published Date : Dec 31, 2012

Authors : Giuseppe Di Bella, Fabrizio Mascia, Alessandro Ricchi, Biagio Colori

Study Type : Human Study

Additional Links
Substances : Melatonin : CK(965) : AC(310) , Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059) , Breast Cancer: Metastatic : CK(123) : AC(52) , Chemotherapy-Induced Toxicity: Cyclophosphamide : CK(78) : AC(28)
Additional Keywords : Natural Substance/Drug Synergy : CK(352) : AC(142) , Significant Treatment Outcome : CK(3038) : AC(366)

Chemotherapy-Induced Toxicity: Doxorubicin (AC 1) (CK 2)

Vitamin D has anti- apoptotic and antioxidant effects on kidney tissue after doxorubicin induced injury.

Pubmed Data : Int J Clin Exp Med. 2015 ;8(8):13548-55. Epub 2015 Aug 15. PMID: **26550293**

Article Published Date : Dec 31, 2014

Authors : Ali Gurel, Hasan Atli, Nalan Kaya, Ebru Onalan, Tuncay Kuloglu, Bilge Aygen

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Chemotherapy-Induced Toxicity: Doxorubicin : CK(132) : AC(56)
Pharmacological Actions : Chemoprotective Agents : CK(356) : AC(146) , Renoprotective : CK(556) : AC(246)

Childhood Chronic Lung Diseases (AC 1) (CK 10)

There is a high frequency of nutritional rickets in children admitted with severe pneumonia.

Pubmed Data : J Pak Med Assoc. 2010 Sep;60(9):729-32. PMID: **21381578**

Article Published Date : Sep 01, 2010

Authors : Nighat Haider, Abdul Ghaffar Nagi, Khalid Mehmood A Khan

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Childhood Chronic Lung Diseases : CK(40) : AC(4) , Childhood Infections : CK(275) : AC(29), Pneumonia : CK(409) : AC(55) , Rickets : CK(20) : AC(2) , Vitamin D Deficiency : CK(1695) : AC(178)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)

Childhood Cognitive Disorders (AC 1) (CK 10)

Vitamin C and D deficiencies in North American children may be contributing to cognitive disorders and autistic spectrum disorders.

Pubmed Data : Pediatrics. 2007 Mar;119(3):e783-90. PMID: 17332193

Article Published Date : Mar 01, 2007

Authors : James McCallum Noble, Arthur Mandel, Marc C Patterson

Study Type : Human Study
Additional Links
Substances : Vitamin C : CK(1956) : AC(403) , Vitamin D : CK(3209) : AC(455)
Diseases : Autism Spectrum Disorders : CK(1461) : AC(159) , Childhood Cognitive Disorders : CK(231) : AC(19), Childhood Deficiencies : CK(41) : AC(4)

Childhood Deficiencies (AC 2) (CK 11)

Vitamin C and D deficiencies in North American children may be contributing to cognitive disorders and autistic spectrum disorders.

Pubmed Data : Pediatrics. 2007 Mar;119(3):e783-90. PMID: 17332193

Article Published Date : Mar 01, 2007

Authors : James McCallum Noble, Arthur Mandel, Marc C Patterson

Study Type : Human Study
Additional Links
Substances : Vitamin C : CK(1956) : AC(403) , Vitamin D : CK(3209) : AC(455)
Diseases : Autism Spectrum Disorders : CK(1461) : AC(159) , Childhood Cognitive Disorders : CK(231) : AC(19), Childhood Deficiencies : CK(41) : AC(4)

Vitamin D supplementation administered during pregnancy and childhood may prevent multiple sclerosis.

Pubmed Data : JAMA. 2002 Nov 27;288(20):2554-60. PMID: **15617877**

Article Published Date : Nov 27, 2002

Authors : Abhijit Chaudhuri

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Childhood Deficiencies : CK(41) : AC(4), Infant Nutrition : CK(90) : AC(14) , Multiple Sclerosis : CK(964) : AC(184), Prenatal Nutrition: Health of the Offspring : CK(246) : AC(35)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Childhood Infections (AC 3) (CK 30)

High dose vitamin D3 prevents recurrence of pneumonia in children treated with antibiotics.

Pubmed Data : Trop Med Int Health. 2010 Oct;15(10):1148-55. Epub 2010 Aug 17. PMID: **20723187**

Article Published Date : Oct 01, 2010

Authors : Semira Manaseki-Holland, Ghulam Qader, Mohammad Isaq Masher, Jane Bruce, M Zulf Mughal, Daniel Chandramohan, Gijs Walraven

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Childhood Infections : CK(275) : AC(29) , Pneumonia : CK(399) : AC(54) , Upper Respiratory Infections : CK(950) : AC(114)
Pharmacological Actions : Anti-Bacterial Agents : CK(1367) : AC(475)
Additional Keywords : Drug Synergy : CK(351) : AC(156)

There is a high frequency of nutritional rickets in children admitted with severe pneumonia.

Pubmed Data : J Pak Med Assoc. 2010 Sep;60(9):729-32. PMID: 21381578

Article Published Date : Sep 01, 2010

Authors : Nighat Haider, Abdul Ghaffar Nagi, Khalid Mehmood A Khan

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Childhood Chronic Lung Diseases : CK(40) : AC(4) , Childhood Infections : CK(275) : AC(29), Pneumonia : CK(409) : AC(55) , Rickets : CK(20) : AC(2) , Vitamin D Deficiency : CK(1695) : AC(178)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)

Vitamin D supplementation is effective in preventing seasonal influenza A in schoolchildren, reducing risk by 59%. As a secondary outcome in children with a previous diagnosis of asthma, asthma attacks occurred in 2 children versus 12 who did not take D.

Pubmed Data : Am J Clin Nutr. 2010 May;91(5):1255-60. Epub 2010 Mar 10. PMID: 20219962

Article Published Date : May 01, 2010

Authors : Mitsuyoshi Urashima, Takaaki Segawa, Minoru Okazaki, Mana Kurihara, Yasuyuki Wada, Hiroyuki Ida

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Asthma: Childhood : CK(101) : AC(10) , Childhood Infections : CK(275) : AC(29) , Cold and Flu : CK(1269) : AC(177), Cold and Flu: Infants & Children : CK(62) : AC(6), Influenza : CK(789) : AC(123)

Cholangiocarcinoma (AC 1) (CK 2)

25(OH)D is effective to repress human cholangiocarcinoma cell growth.

Pubmed Data : Int J Mol Sci. 2016;17(8). Epub 2016 Aug 12. PMID: 27529229

Article Published Date : Dec 31, 2015

Authors : Kun-Chun Chiang, Chun-Nan Yeh, Cheng-Cheng Huang, Ta-Sen Yeh, Jong-Hwei S Pang, Jun-Te Hsu, Li-Wei Chen, Sheng-Fong Kuo, Atsushi Kittaka, Tai C Chen, Horng-Heng Juang

Study Type : Animal Study, In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Cholangiocarcinoma : CK(96) : AC(21)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685)

Cholecystectomy (AC 1) (CK 1)

Cholestectomy may result in malabsorption of vitamin D and thereby contribute to osteoporosis and osteopenia.

Pubmed Data : Eksp Klin Gastroenterol. 2010(4):14-20. PMID: **20623948**

Article Published Date : Jan 01, 2010

Authors : E S Koricheva, A A Il'chenko, E Ia Selezneva, V N Drozdov

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Cholecystectomy : CK(104) : AC(7) , Digestive System Surgical Procedures : CK(1) : AC(1) , Empyema: Gallbladder : CK(1) : AC(1) , Postcholecystectomy syndrome : CK(1) : AC(1)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Chronic Kidney Disease (CKD) (AC 1) (CK 10)

Oral cholecalciferol administration increased 25-hydroxyvitamin D and mildly reduced PTH serum levels.

Pubmed Data : Int J Nephrol Renovasc Dis. 2015;8:151-157. Epub 2015 Nov 19. PMID: **26640388**

Article Published Date : Dec 31, 2014

Authors : Adamasco Cupisti, Valentina Vigo, Maria Enrica Baronti, Claudia D'Alessandro, Lorenzo Ghiadoni, Maria Francesca Egidi

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Chronic Kidney Disease (CKD) : CK(137) : AC(22) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Supplementation : CK(413) : AC(60)

Chronic Myeloid Leukemia (AC 2) (CK 3)

Vitamin D may induce programmed cell death in chronic myeloid leukemia cells by modulating apoptosis-related genes.

Pubmed Data : 1: Ann Hematol. 2009 May 28. PMID: **19475409**

Article Published Date : May 28, 2009

Authors : Sefa Kizildag, Halil Ates, Servet Kizildag

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Chronic Myeloid Leukemia : CK(31) : AC(16)
Pharmacological Actions : Apoptotic : CK(2958) : AC(2075)

Vitamin D3 and rosemary have a cooperative antitumor effect in a mouse model of myeloid leukemia.

Pubmed Data : Int J Cancer. 2006 Jun 15;118(12):3012-21. PMID: **16395705**

Article Published Date : Jun 15, 2006

Authors : Hagar Sharabani, Eugene Izumchenko, Qing Wang, Rita Kreinin, Michael Steiner, Zeev Barvish, Michael Kafka, Yoav Sharoni, Joseph Levy, Milan Uskokovic, George P Studzinski, Michael Danilenko

Study Type : Animal Study
Additional Links
Substances : Rosemary : CK(218) : AC(78) , Vitamin D : CK(3176) : AC(449)
Diseases : Acute Myeloid Leukemia : CK(95) : AC(47) , Chronic Myeloid Leukemia : CK(31) : AC(16)
Pharmacological Actions : Anti-Tumor : CK(136) : AC(72) , Anticarcinogenic Agents : CK(1097) :

AC(518)
Additional Keywords : Antineoplastic Agents : CK(69) : AC(28) , Natural Substance Synergy : CK(537) : AC(247), Plant Extracts : CK(7483) : AC(2462)

Chronic Obstructive Pulmonary Disease (AC 3) (CK 12)

Vitamin D intake decreased COPD exacerbation and improved FEV1 in the patients with severe and very severe COPD.

Pubmed Data : Glob J Health Sci. 2015 ;7(4):243-8. Epub 2015 Jan 14. PMID: 25946929

Article Published Date : Dec 31, 2014

Authors : Abolfazl Zendedel, Mohammadreza Gholami, Khatereh Anbari, Kourosh Ghanadi, Elham Ceneicel Bachari, Alireza Azargon

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Chronic Obstructive Pulmonary Disease : CK(376) : AC(57)
Additional Keywords : Supplementation : CK(413) : AC(60)

Vitamin D may have a therapeutic role in the treatment of COPD.

Pubmed Data : Am J Respir Crit Care Med. 2009 Apr 15;179(8):630-6. Epub 2009 Jan 22. PMID: 19164701

Article Published Date : Apr 15, 2009

Authors : Wim Janssens, An Lehouck, Claudia Carremans, Roger Bouillon, Chantal Mathieu, Marc Decramer

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Chronic Obstructive Pulmonary Disease : CK(376) : AC(57)

Vitamin D may improve lung function and response to steroids therapy, reduce airway remodeling and disease

exacerbations.

Pubmed Data : Minerva Med. 2016 Jun 15. Epub 2016 Jun 15. PMID: 27308869

Article Published Date : Jun 14, 2016

Authors : Paolo Solidoro, Michela Bellocchia, Fabrizio Facchini

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Asthma : CK(1146) : AC(188) , Chronic Obstructive Pulmonary Disease : CK(376) : AC(57) , Lung Diseases : CK(37) : AC(8) , Vitamin D Deficiency : CK(1695) : AC(178)

Chronic Pain (AC 1) (CK 10)

Low vitamin D might have an influence on new occurrence of chronic widespread pain.

Pubmed Data : BMC Musculoskelet Disord. 2016 ;17(1):32. Epub 2016 Jan 16. PMID: 26774507

Article Published Date : Dec 31, 2015

Authors : Paul S McCabe, Stephen R Pye, John Mc Beth, David M Lee, Abdelouahid Tajar, Gyorgy Bartfai, Steven Boonen, Roger Bouillon, Felipe Casanueva, Joseph D Finn, Gianni Forti, Aleksander Giwercman, Ilpo T Huhtaniemi, Krzysztof Kula, Neil Pendleton, Margus Punab, Dirk Vanderschueren, Frederick C Wu, Terence W O'Neill,

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Chronic Pain : CK(183) : AC(29) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Clostridium Infections (AC 1) (CK 1)

Vitamin D may be acting as a panaceal antibiotic agent and thus may be useful as an adjuvant therapy in diverse infections.

Pubmed Data : Ann N Y Acad Sci. 2014 May ;1317:76-83. Epub 2014 Mar 4. PMID: 24593793

Article Published Date : Apr 30, 2014

Authors : Elisabetta Borella, Gideon Nesher, Eitan Israeli, Yehuda Shoenfeld

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bacterial Vaginosis : CK(46) : AC(6) , Clostridium Infections : CK(233) : AC(45) , Dengue Fever : CK(2) : AC(2), Hepatitis B : CK(241) : AC(46), Hepatitis C : CK(474) : AC(87) , HIV Infections : CK(659) : AC(216), Influenza : CK(789) : AC(123) , Otitis media : CK(305) : AC(41) , Pneumonia : CK(399) : AC(54), Sepsis : CK(197) : AC(54) , Upper Respiratory Infections : CK(950) : AC(114) , Urinary Tract Infections : CK(397) : AC(57)
Pharmacological Actions : Anti-Bacterial Agents : CK(1367) : AC(475) , Anti-Infective Agents : CK(43) : AC(18)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Cognitive Decline/Dysfunction (AC 3) (CK 22)

Low vitamin D level was associated with greater risk of cognitive impairment in older as well as younger adults.

Pubmed Data : Neuropsychiatr Dis Treat. 2015 ;11:2217-23. Epub 2015 Aug 25. PMID: 26346368

Article Published Date : Dec 31, 2014

Authors : Hala Darwish, Pia Zeinoun, Husam Ghusn, Brigitte Khoury, Hani Tamim, Samia J Khoury

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cognitive Decline/Dysfunction : CK(1140) : AC(213) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Vitamin D insufficiency is common in adults with intellecutal disability living in nursing homes

Pubmed Data : J Intellect Disabil Res. 2009 Dec;53(12):1014-23. PMID: 19845825

Article Published Date : Dec 01, 2009

Authors : P Kilpinen-Loisa, M Arvio, V Ilvesmäki, O Mäkitie

Study Type : Human Study

Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Cognitive Decline/Dysfunction : CK(1140) : AC(213)

Vitamin D3 may have a protective effect on cognitive deficits and oxidative stress in toxic demyelination's model.

Pubmed Data : Iran J Basic Med Sci. 2016 Jan ;19(1):80-8. PMID: 27096068

Article Published Date : Dec 31, 2015

Authors : Sepideh Tarbali, Shiva Khezri

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cognitive Decline/Dysfunction : CK(1140) : AC(213) , Lipid Peroxidation : CK(695) : AC(255), Multiple Sclerosis : CK(964) : AC(184) , Oxidative Stress : CK(3855) : AC(1378)
Pharmacological Actions : Catalase Up-Regulation : CK(118) : AC(42) , Neuroprotective Agents : CK(2268) : AC(1071)

Cold and Flu (AC 1) (CK 10)

Vitamin D supplementation is effective in preventing seasonal influenza A in schoolchildren, reducing risk by 59%. As a secondary outcome in children with a previous diagnosis of asthma, asthma attacks occurred in 2 children versus 12 who did not take D.

Pubmed Data : Am J Clin Nutr. 2010 May;91(5):1255-60. Epub 2010 Mar 10. PMID: 20219962

Article Published Date : May 01, 2010

Authors : Mitsuyoshi Urashima, Takaaki Segawa, Minoru Okazaki, Mana Kurihara, Yasuyuki Wada, Hiroyuki Ida

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Asthma: Childhood : CK(101) : AC(10) , Childhood Infections : CK(275) : AC(29) , Cold and Flu : CK(1269) : AC(177), Cold and Flu: Infants & Children : CK(62) : AC(6), Influenza : CK(789) : AC(123)

Cold and Flu: Infants & Children (AC 1) (CK 10)

Vitamin D supplementation is effective in preventing seasonal influenza A in schoolchildren, reducing risk by 59%. As a secondary outcome in children with a previous diagnosis of asthma, asthma attacks occurred in 2 children versus 12 who did not take D.

Pubmed Data : Am J Clin Nutr. 2010 May;91(5):1255-60. Epub 2010 Mar 10. PMID: 20219962

Article Published Date : May 01, 2010

Authors : Mitsuyoshi Urashima, Takaaki Segawa, Minoru Okazaki, Mana Kurihara, Yasuyuki Wada, Hiroyuki Ida

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Asthma: Childhood : CK(101) : AC(10) , Childhood Infections : CK(275) : AC(29) , Cold and Flu : CK(1269) : AC(177), Cold and Flu: Infants & Children : CK(62) : AC(6), Influenza : CK(789) : AC(123)

Colon Cancer (AC 8) (CK 30)

A high vitamin D diet reduced proliferation, increased differentiation and apoptosis, and in parallel, upregulated mRNA expression of the calcium-sensing receptor in the colon of mice.

Pubmed Data : J Steroid Biochem Mol Biol. 2015 Mar 7. Epub 2015 Mar 7. PMID: 25758239

Article Published Date : Mar 06, 2015

Authors : Abhishek Aggarwal, Julia Höbaus, Samawansha Tennakoon, Maximilian Prinz-

Wohlgenannt, João Graça, Sally A Price, Petra Heffeter, Walter Berger, Sabina Baumgartner-Parzer, Enikö Kállay

Study Type : Animal Study, In Vitro Study
Additional Links
Substances : Calcium : CK(287) : AC(44) , Vitamin D : CK(3176) : AC(449)
Diseases : Colon Cancer : CK(749) : AC(430) , Colon Cancer: Prevention : CK(176) : AC(56)
Pharmacological Actions : Anticarcinogenic Agents : CK(1097) : AC(518) , Antineoplastic Agents : CK(1158) : AC(639), Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075)

A review of the potential use of vitamin D for protection and treatment of IBD and colon cancer.

Pubmed Data : World J Gastroenterol. 2016 Jan 21 ;22(3):933-48. PMID: **26811638**

Article Published Date : Jan 20, 2016

Authors : Stacey Meeker, Audrey Seamons, Lillian Maggio-Price, Jisun Paik

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Colon Cancer : CK(749) : AC(430) , Inflammation : CK(2918) : AC(856) , Inflammatory Bowel Diseases : CK(1003) : AC(189), Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Chemopreventive : CK(2831) : AC(784)

Calcitriol enhanced the efficacy of irinotecan in growth inhibition and apoptosis induction.

Pubmed Data : Mol Cancer Ther. 2016 Jul 25. Epub 2016 Jul 25. PMID: **27458137**

Article Published Date : Jul 24, 2016

Authors : Meiyan Sun, Qunshu Zhang, Xiaoyu Yang, Steven Y Qian, Bin Guo

Study Type : Animal Study, In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Colon Cancer : CK(749) : AC(430)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075)
Additional Keywords : Natural Substance/Drug Synergy : CK(352) : AC(142)

Calcium and vitamin D may prevent Western-style diet-induced colonic tumors.

Pubmed Data : Carcinogenesis. 2009 Jan;30(1):88-92. Epub 2008 Nov 18. PMID: **19017685**

Article Published Date : Jan 01, 2009

Authors : Harold L Newmark, Kan Yang, Naoto Kurihara, Kunhua Fan, Leonard H Augenlicht, Martin Lipkin

Study Type : Animal Study

Additional Links
Substances : Calcium : CK(287) : AC(44) , Vitamin D : CK(3176) : AC(449)
Diseases : Colon Cancer : CK(749) : AC(430) , Western-Style Diet Induced Toxicity : CK(6) : AC(3)
Anti Therapeutic Actions : Western Diet : CK(131) : AC(35)

Co-treatment with silibinin plus 1,25D decreased proliferation and migration at doses where silibinin alone had no effect.

Pubmed Data : Cancer Lett. 2015 Jul 1 ;362(2):199-207. Epub 2015 Apr 3. PMID: **25846868**

Article Published Date : Jun 30, 2015

Authors : Vandanajay Bhatia, Miriam Falzon

Study Type : In Vitro Study
Additional Links
Substances : Silibinin : CK(117) : AC(56) , Vitamin D : CK(3176) : AC(449)
Diseases : Colon Cancer : CK(749) : AC(430) , Inflammation : CK(2918) : AC(856)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616) , Anti-metastatic : CK(615) : AC(412), Antiproliferative : CK(2479) : AC(1685), Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)
Additional Keywords : Drug Synergy : CK(351) : AC(156)

Genistein modulates vitamin D metabolism and receptor expression in a manner which may contribute to colon cancer prevention.

Pubmed Data : Recent Results Cancer Res.2003;164:379-91. PMID: **12899537**

Article Published Date : Jan 01, 2003

Authors : Daniel Lechner, Heide S Cross

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Colon Cancer : CK(749) : AC(430)
Pharmacological Actions : Chemopreventive : CK(2831) : AC(784)

Review: there is a consistently strong inverse correlations with solar UVB for 15 types of cancers.

Pubmed Data : Anticancer Res. 2012 Jan ;32(1):223-36. PMID: **22213311**

Article Published Date : Jan 01, 2012

Authors : William B Grant

Study Type : Meta Analysis
Additional Links

Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bladder Cancer : CK(349) : AC(100) , Breast Cancer : CK(3526) : AC(1059) , Cervical Cancer : CK(345) : AC(144), Colon Cancer : CK(749) : AC(430) , Colorectal Cancer : CK(1635) : AC(611) , Endometrial Cancer : CK(307) : AC(53) , Esophageal Cancer : CK(506) : AC(85) , Hodgkin Lymphoma : CK(53) : AC(7), Lung Cancer : CK(1033) : AC(393) , Non-Hodgkin Lymphoma : CK(363) : AC(79) , Ovarian Cancer : CK(360) : AC(128) , Pancreatic Cancer : CK(889) : AC(260) , Renal Cancer : CK(25) : AC(4), Vulvar Cancer : CK(52) : AC(4)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)
Pharmacological Actions : Chemopreventive : CK(2831) : AC(784)

Vitamin D status should be monitored in all cancer patients and treated by adequate vitamin D3 supplementation.

Pubmed Data : Med Monatsschr Pharm. 2015 Dec ;38(12):512-6. PMID: **26837159**

Article Published Date : Nov 30, 2015

Authors : Uwe Gröber, Klaus Kisters, Irenäus A Adamietz

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059) , Cachexia: Cancer : CK(50) : AC(15) , Cancers: All : CK(14500) : AC(4586), Colon Cancer : CK(749) : AC(430) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332)
Problem Substances : Aromatase Inhibitor Drugs : CK(362) : AC(23) , Bisphosphonates : CK(499) : AC(63)

Colon Cancer Stem Cells (AC 1) (CK 1)

Natural Products That Target Cancer Stem Cells.

Pubmed Data : Anticancer Res. 2015 Nov ;35(11):5773-88. PMID: **26503998**

Article Published Date : Oct 31, 2015

Authors : Jim Moselhy, Sowmyalakshmi Srinivasan, Murali K Ankem, Chendil Damodaran

Study Type : Review
Additional Links
Substances : Baicalein : CK(61) : AC(44) , Cruciferous Vegetables : CK(1131) : AC(358) , Curcumin : CK(4135) : AC(2175), Vitamin D : CK(3176) : AC(449)
Diseases : Brain Cancer Stem Cells : CK(4) : AC(4) , Breast Cancer Stem Cells : CK(23) : AC(18) , Cancer Stem Cells : CK(105) : AC(64) , Colon Cancer Stem Cells : CK(1) : AC(1) , Liver Cancer Stem Cells : CK(2) : AC(1)

Additional Keywords : Selective Cytotoxicity : CK(158) : AC(112)

Colon Cancer: Prevention (AC 2) (CK 3)

A high vitamin D diet reduced proliferation, increased differentiation and apoptosis, and in parallel, upregulated mRNA expression of the calcium-sensing receptor in the colon of mice.

Pubmed Data : J Steroid Biochem Mol Biol. 2015 Mar 7. Epub 2015 Mar 7. PMID: 25758239

Article Published Date : Mar 06, 2015

Authors : Abhishek Aggarwal, Julia Höbaus, Samawansha Tennakoon, Maximilian Prinz-Wohlgenannt, João Graça, Sally A Price, Petra Heffeter, Walter Berger, Sabina Baumgartner-Parzer, Enikö Kállay

Study Type : Animal Study, In Vitro Study
Additional Links
Substances : Calcium : CK(287) : AC(44) , Vitamin D : CK(3176) : AC(449)
Diseases : Colon Cancer : CK(749) : AC(430) , Colon Cancer: Prevention : CK(176) : AC(56)
Pharmacological Actions : Anticarcinogenic Agents : CK(1097) : AC(518) , Antineoplastic Agents : CK(1158) : AC(639), Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075)

Vitamin D metabolite regulates the expression of several genes and protects against colon cancer.

Pubmed Data : Endocr Relat Cancer. 2012 Mar 1. Epub 2012 Mar 1. PMID: 22383428

Article Published Date : Mar 01, 2012

Authors : Fábio Pereira, María Jesús Larriba, Alberto Muñoz

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Colon Cancer: Prevention : CK(176) : AC(56)
Pharmacological Actions : Chemopreventive : CK(2835) : AC(787)

Colorectal Cancer (AC 6) (CK 53)

A remarkable preventive role of many vitamins like B6, B9, B12 and D on the risk of developing CRC was suggested by a large number of observational studies.

Pubmed Data : World J Gastroenterol. 2015 May 7 ;21(17):5191-5209. PMID: 25954093

Article Published Date : May 06, 2015

Authors : Omar A Masri, Jean M Chalhoub, Ala I Sharara

Study Type : Review
Additional Links
Substances : Folate : CK(169) : AC(25) , Vitamin B-12 : CK(780) : AC(104) , Vitamin B-6 : CK(435) : AC(54), Vitamin C : CK(1956) : AC(403) , Vitamin D : CK(3176) : AC(449) , Vitamin E : CK(1656) : AC(290)
Diseases : Celiac Disease : CK(1612) : AC(232) , Colorectal Cancer : CK(1635) : AC(611) , Colorectal Cancer: Prevention : CK(207) : AC(36), Gastrointestinal Diseases : CK(73) : AC(22)
Pharmacological Actions : Gastrointestinal Agents : CK(268) : AC(41)

Plasma levels of vitamin D is associated with clinically important differences in survival outcome.

Pubmed Data : J Clin Oncol. 2014 Jul 7. Epub 2014 Jul 7. PMID: 25002714

Article Published Date : Jul 06, 2014

Authors : Lina Zgaga, Evropi Theodoratou, Susan M Farrington, Farhat V N Din, Li Yin Ooi, Dominik Glodzik, Susan Johnston, Albert Tenesa, Harry Campbell, Malcolm G Dunlop

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Colorectal Cancer : CK(1635) : AC(611)
Pharmacological Actions : Gene Protective : CK(2) : AC(1)
Additional Keywords : Gene Environment : CK(12) : AC(3)

Review: there is a consistently strong inverse correlations with solar UVB for 15 types of cancers.

Pubmed Data : Anticancer Res. 2012 Jan ;32(1):223-36. PMID: 22213311

Article Published Date : Jan 01, 2012

Authors : William B Grant

Study Type : Meta Analysis
Additional Links

Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bladder Cancer : CK(349) : AC(100), Breast Cancer : CK(3526) : AC(1059), Cervical Cancer : CK(345) : AC(144), Colon Cancer : CK(749) : AC(430), Colorectal Cancer : CK(1635) : AC(611), Endometrial Cancer : CK(307) : AC(53), Esophageal Cancer : CK(506) : AC(85), Hodgkin Lymphoma : CK(53) : AC(7), Lung Cancer : CK(1033) : AC(393), Non-Hodgkin Lymphoma : CK(363) : AC(79), Ovarian Cancer : CK(360) : AC(128), Pancreatic Cancer : CK(889) : AC(260), Renal Cancer : CK(25) : AC(4), Vulvar Cancer : CK(52) : AC(4)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)
Pharmacological Actions : Chemopreventive : CK(2831) : AC(784)

This study provides support for the use of 25-hydroxyvitamin D as a new predictor of outcome for colorectal liver metastases patients.

Pubmed Data : J Gastroenterol Hepatol. 2016 Feb 20. Epub 2016 Feb 20. PMID: **26896637**

Article Published Date : Feb 19, 2016

Authors : Antonio Facciorusso, Valentina Del Prete, Nicola Muscatiello, Nicola Crucinio, Michele Barone

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Cancer Metastasis : CK(442) : AC(206), Colorectal Cancer : CK(1635) : AC(611)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18)

Vitamin D appears to reduce the risk of colorectal cancer.

Pubmed Data : Cancer Prev Res (Phila Pa). 2009 Mar;2(3):213-23. Epub 2009 Mar 3. PMID: **19258546**

Article Published Date : Mar 01, 2009

Authors : Veronika Fedirko, Roberd M Bostick, W Dana Flanders, Qi Long, Aasma Shaukat, Robin E Rutherford, Carrie R Daniel, Vaunita Cohen, Chiranjeev Dash

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Colorectal Cancer : CK(1635) : AC(611)
Pharmacological Actions : Chemopreventive : CK(2835) : AC(787)

Vitamin D could be developed as therapy to suppress inception or progression of a subset of colorectal tumors.

Pubmed Data : Oncotarget. 2016 Apr 20. Epub 2016 Apr 20. PMID: **27119498**

Article Published Date : Apr 19, 2016

Authors : Ravi K Deevi, Jane McClements, Karen D McCloskey, Aliya Fatehullah, Dorota Tkocz, Arman Javadi, Robyn Higginson, Victoria Marsh Durban, Marnix Jansen, Alan Clarke, Maurice B

Loughrey, Frederick C Campbell

Study Type : In Vitro Study, Transgenic Animal Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Colorectal Cancer : CK(1635) : AC(611)

Colorectal Cancer: Prevention (AC 2) (CK 21)

A remarkable preventive role of many vitamins like B6, B9, B12 and D on the risk of developing CRC was suggested by a large number of observational studies.

Pubmed Data : World J Gastroenterol. 2015 May 7 ;21(17):5191-5209. PMID: 25954093

Article Published Date : May 06, 2015

Authors : Omar A Masri, Jean M Chalhoub, Ala I Sharara

Study Type : Review
Additional Links
Substances : Folate : CK(169) : AC(25) , Vitamin B-12 : CK(780) : AC(104) , Vitamin B-6 : CK(435) : AC(54), Vitamin C : CK(1956) : AC(403) , Vitamin D : CK(3176) : AC(449) , Vitamin E : CK(1656) : AC(290)
Diseases : Celiac Disease : CK(1612) : AC(232) , Colorectal Cancer : CK(1635) : AC(611) , Colorectal Cancer: Prevention : CK(207) : AC(36), Gastrointestinal Diseases : CK(73) : AC(22)
Pharmacological Actions : Gastrointestinal Agents : CK(268) : AC(41)

There is a consistent inverse relationship between serum 25-hydroxyvitamin D levels and colorectal cancer was found.

Pubmed Data : Int J Cancer. 2011 Mar 15 ;128(6):1414-24. PMID: 20473927

Article Published Date : Mar 15, 2011

Authors : Sara Gandini, Mathieu Boniol, Jari Haukka, Graham Byrnes, Brian Cox, Mary Jane Sneyd, Patrick Mullie, Philippe Autier

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Colorectal Cancer: Prevention : CK(207) : AC(36), Vitamin D Deficiency : CK(1695) : AC(178)

Pharmacological Actions : Chemopreventive : CK(2835) : AC(787)

Common variable immunodeficiency (CVID) (AC 1) (CK 10)

Vitamin D status may play a critical role in common variable immunodeficiency.

Pubmed Data : Int Arch Allergy Immunol. 2008;147(1):74-83. Epub 2008 May 2. PMID: 18451650

Article Published Date : Jan 01, 2008

Authors : Omür Ardeniz, Ciğir Biray Avci, Aytul Sin, Gokhan Ozgen, Fulya Gunsar, Nihal Mete, Okan Gulbahar, Ali Kokuludag

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Common variable immunodeficiency (CVID) : CK(60) : AC(6)

Congestive Heart Failure (AC 3) (CK 21)

"Vitamin D deficiency is a predictor of reduced survival in patients with heart failure; vitamin D supplementation improves outcome."

Pubmed Data : Eur J Heart Fail. 2012 Feb 3. Epub 2012 Feb 3. PMID: 22308011

Article Published Date : Feb 03, 2012

Authors : Israel Gotsman, Ayelet Shauer, Donna R Zwas, Yaron Hellman, Andre Keren, Chaim Lotan, Dan Admon

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)

Diseases : Congestive Heart Failure : CK(276) : AC(34) , Heart Failure : CK(918) : AC(124)

Deficiencies and/or abberations in the levels of Ca(2+), Mg(2+), vitamin D, zinc and selenium appear to be an integral component of pathophysiologic expressions of CHF that contributes to its systemic and progressive nature.

Pubmed Data : Clin Med Res. 2007 Dec;5(4):238-43. PMID: **18367709**

Article Published Date : Dec 01, 2007

Authors : Shadwan Alsafwah, Stephen P Laguardia, Maximiliano Arroyo, Brian K Dockery, Syamal K Bhattacharya, Robert A Ahokas, Kevin P Newman

Study Type : Review
Additional Links
Substances : Calcium : CK(287) : AC(44) , Magnesium : CK(1516) : AC(193) , Selenium : CK(784) : AC(139), Vitamin D : CK(3176) : AC(449)
Diseases : Congestive Heart Failure : CK(276) : AC(34) , Heart Failure : CK(918) : AC(124)

Vitamin D(3) reduces the inflammatory milieu in congestive heart failure patients and might serve as a new antiinflammatory agent for the future treatment of the disease.

Pubmed Data : Am J Clin Nutr. 2006 Apr;83(4):754-9. PMID: **16600924**

Article Published Date : Apr 01, 2006

Authors : Stefanie S Schleithoff, Armin Zittermann, Gero Tenderich, Heiner K Berthold, Peter Stehle, Reiner Koerfer

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Congestive Heart Failure : CK(276) : AC(34) , Heart Failure : CK(918) : AC(124)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interleukin-10 upregulation : CK(105) : AC(24)

Coronary Artery Disease (AC 3) (CK

30)

Omega-3 fatty acids and vitamin D supplementation results in a substantial reduction in coronary calcium scores and slowed plaque growth.

Pubmed Data : Am J Ther. 2009 Jul-Aug;16(4):326-32. PMID: **19092644**

Article Published Date : Jul 01, 2009

Authors : William Davis, Susie Rockway, Mary Kwasny

Study Type : Human Study
Additional Links
Substances : Omega-3 Fatty Acids : CK(3268) : AC(387) , Vitamin D : CK(3176) : AC(449)
Diseases : Arterial Calcification : CK(186) : AC(29) , Arterial Plaque : CK(77) : AC(20) , Arterial Thickening : CK(37) : AC(7), Coronary Artery Disease : CK(1468) : AC(155)
Additional Keywords : Disease Regression : CK(150) : AC(26)

Vitamin D deficiency is highly prevalent in US adults (especially African-Americans) with cardiovascular diseases, particularly coronary heart disease and heart failure.

Pubmed Data : Am J Cardiol. 2008 Dec 1;102(11):1540-4. Epub 2008 Sep 24. PMID: **19026311**

Article Published Date : Dec 01, 2008

Authors : Dae Hyun Kim, Siamak Sabour, Utpal N Sagar, Suzanne Adams, David J Whellan

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Cardiovascular Diseases : CK(7176) : AC(907), Coronary Artery Disease : CK(1468) : AC(155) , Heart Failure : CK(918) : AC(124)

Vitamin D supplementation has beneficial effects on coronary artery disease.

Pubmed Data : Scand Cardiovasc J. 2015 Nov 2:1-8. Epub 2015 Nov 2. PMID: **26440923**

Article Published Date : Nov 01, 2015

Authors : Zhaoke Wu, Ting Wang, Shenshen Zhu, Ling Li

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Coronary Artery Disease : CK(1468) : AC(155)

Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18)

Corticosteroid-Induced Toxicity (AC 2) (CK 20)

Vitamin D3 prevents the adverse effects of steroids in asthmatic children receiving corticosteroids.

Pubmed Data : Clin Exp Allergy. 2009 Oct 7. PMID: **19817753**

Article Published Date : Oct 07, 2009

Authors : P Majak, B Rychlik, I Stelmach

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Asthma : CK(1146) : AC(188) , Asthma: Childhood : CK(101) : AC(10) , Corticosteroid-Induced Toxicity : CK(77) : AC(16), Cortisone Toxicity : CK(26) : AC(7)
Additional Keywords : Drug-Plant-Vitamin Synergies : CK(965) : AC(266)

Vitamins K2 and D3 have a protective effect on prednisolone-induced loss of bone mineral density in the lumbar spine.

Pubmed Data : Am J Kidney Dis. 2004 Jan;43(1):53-60. PMID: **14712427**

Article Published Date : Jan 01, 2004

Authors : Katsuhiko Yonemura, Hirotaka Fukasawa, Yoshihide Fujigaki, Akira Hishida

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455) , Vitamin K : CK(645) : AC(85) , Vitamin K2: Menaquinone-7 : CK(108) : AC(16)
Diseases : Corticosteroid-Induced Toxicity : CK(77) : AC(16) , Osteoporosis: Steroid-Induced : CK(28) : AC(6)
Additional Keywords : Drug: Prednisolone : CK(20) : AC(2)

Cortisone Toxicity (AC 1) (CK 10)

Vitamin D3 prevents the adverse effects of steroids in asthmatic children receiving corticosteroids.

Pubmed Data : Clin Exp Allergy. 2009 Oct 7. PMID: 19817753

Article Published Date : Oct 07, 2009

Authors : P Majak, B Rychlik, I Stelmach

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Asthma : CK(1146) : AC(188) , Asthma: Childhood : CK(101) : AC(10) , Corticosteroid-Induced Toxicity : CK(77) : AC(16), Cortisone Toxicity : CK(26) : AC(7)
Additional Keywords : Drug-Plant-Vitamin Synergies : CK(965) : AC(266)

Crohn's Disease (AC 3) (CK 12)

Glutamine and arginine-fortified PF with curcumin might be a promising option to enhance the effectiveness and expand the scope of EEN therapy.

Pubmed Data : JPEN J Parenter Enteral Nutr. 2016 Jan 29. Epub 2016 Jan 29. PMID: 26826259

Article Published Date : Jan 28, 2016

Authors : Moftah H Alhagamhmad, Andrew S Day, Daniel A Lemberg, Steven T Leach

Study Type : In Vitro Study
Additional Links
Substances : Arginine : CK(1012) : AC(176) , Curcumin : CK(4135) : AC(2175) , Glutamine : CK(123) : AC(24), Vitamin D : CK(3176) : AC(449)
Diseases : Crohn's Disease : CK(153) : AC(30) , Inflammatory Bowel Diseases : CK(1003) : AC(189)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616) , Interleukin-8 downregulation : CK(166) : AC(61)

Vitamin D deficiency may contribute to the development and geographical distribution of Crohn's disease.

Pubmed Data : Med Hypotheses. 2009 Jul;73(1):94-6. Epub 2009 Mar 6. PMID: 19269107

Article Published Date : Jul 01, 2009

Authors : Laurent Peyrin-Biroulet, Abderrahim Oussalah, Marc-André Bigard

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Crohn's Disease : CK(153) : AC(30)

Vitamin D levels are lower in Crohn's disease patients with severe disease activity and less sun exposure.

Pubmed Data : Indian J Med Res. 2009 Aug;130(2):133-7. PMID: 19797809

Article Published Date : Aug 01, 2009

Authors : A J Joseph, Biju George, A B Pulimood, M S Seshadri, Ashok Chacko

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Crohn's Disease : CK(153) : AC(30) , Vitamin D Deficiency : CK(1695) : AC(178)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Cystic Fibrosis (AC 1) (CK 10)

Very high dose vitamin D is effective for correcting deficiency in children and young adults with cystic fibrosis.

Pubmed Data : J Cyst Fibros. 2009 Jul;8(4):270-2. Epub 2009 May 15. PMID: 19447079

Article Published Date : Jul 01, 2009

Authors : Steven R Boas, Joseph R Hageman, Louisa T Ho, Marissa Liveris

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Cystic Fibrosis : CK(547) : AC(83)

DNA damage (AC 1) (CK 1)

Growing evidence shows that vitamins, minerals, and other dietary factors have profound and protective effects against cancer cells, whether they are grown in the lab, in animals, or studied in human populations.

Pubmed Data : Semin Cancer Biol. 2015 Apr 10. Epub 2015 Apr 10. PMID: 25869442

Article Published Date : Apr 09, 2015

Authors : Lynnette R Ferguson, Helen Chen, Andrew R Collins, Marisa Connell, Giovanna Damia, Santanu Dasgupta, Meenakshi Malhotra, Alan K Meeker, Amedeo Amedei, Amr Amin, S Salman Ashraf, Katia Aquilano, Asfar S Azmi, Dipita Bhakta, Alan Bilsland, Chandra S Boosani, Sophie Chen, Maria Rosa Ciriolo, Hiromasa Fujii, Gunjan Guha, Dorota Halicka, William G Helferich, W Nicol Keith, Sulma I Mohammed, Elena Niccolai, Xujuan Yang, Kanya Honoki, Virginia R Parslow, Satya Prakash, Sarallah Rezazadeh, Rodney E Shackelford, David Sidransky, Phuoc T Tran, Eddy S Yang, Christopher A Maxwell

Study Type : Review

Additional Links

Substances : Carotenoids : CK(1630) : AC(307) , Isothiocyanates : CK(573) : AC(265) , Polyphenols : CK(930) : AC(334), Resveratrol : CK(1245) : AC(746) , Selenium : CK(784) : AC(139) , Vitamin D : CK(3176) : AC(449)

Diseases : Cancers: All : CK(14500) : AC(4586) , DNA damage : CK(993) : AC(382)

Pharmacological Actions : Anticarcinogenic Agents : CK(1097) : AC(518) , Chemopreventive : CK(2831) : AC(784)

Additional Keywords : Genomic Instability : CK(1) : AC(1) , Natural Substance Synergy : CK(537) : AC(247)

Dementia (AC 2) (CK 40)

Available data indicates that lower vitamin D status may be associated with increased risk of developing AD and dementia.

Pubmed Data : Nutr J. 2015 ;14(1):76. Epub 2015 Aug 1. PMID: 26231781

Article Published Date : Dec 31, 2014

Authors : Liang Shen, Hong-Fang Ji

Study Type : Meta Analysis

Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Alzheimer's Disease : CK(1292) : AC(382) , Dementia : CK(571) : AC(79) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332)

Vitamin D, cognition, and dementia: a systematic review and meta-analysis.

Pubmed Data : Neurology. 2012 Sep 25 ;79(13):1397-405. PMID: **23008220**

Article Published Date : Sep 24, 2012

Authors : Cynthia Balion, Lauren E Griffith, Lisa Strifler, Matthew Henderson, Christopher Patterson, George Heckman, David J Llewellyn, Parminder Raina

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Alzheimer's Disease : CK(1292) : AC(382) , Dementia : CK(571) : AC(79) , Dementia: Alzheimer Type : CK(23) : AC(3), Vitamin D Deficiency : CK(1695) : AC(178)

Dementia: Alzheimer Type (AC 1) (CK 20)

Vitamin D, cognition, and dementia: a systematic review and meta-analysis.

Pubmed Data : Neurology. 2012 Sep 25 ;79(13):1397-405. PMID: **23008220**

Article Published Date : Sep 24, 2012

Authors : Cynthia Balion, Lauren E Griffith, Lisa Strifler, Matthew Henderson, Christopher Patterson, George Heckman, David J Llewellyn, Parminder Raina

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Alzheimer's Disease : CK(1292) : AC(382) , Dementia : CK(571) : AC(79) , Dementia: Alzheimer Type : CK(23) : AC(3), Vitamin D Deficiency : CK(1695) : AC(178)

Dengue Fever (AC 3) (CK 5)

Calcium and Vitamin D3 may have therapeutic properties in the reduction of symptoms associated with Dengue Fever.

Pubmed Data : Proc West Pharmacol Soc. 2009 ;52:14-7. PMID: 22128411

Article Published Date : Jan 01, 2009

Authors : Emilio Sánchez-Valdéz, Melissa Delgado-Aradillas, José Angel Torres-Martínez, José Martín Torres-Benítez

Study Type : Human: Case Report
Additional Links
Substances : Calcium : CK(287) : AC(44) , Vitamin D : CK(3209) : AC(455)
Diseases : Dengue Fever : CK(2) : AC(2)
Additional Keywords : Undefined : CK(14) : AC(3)

Vitamin D may be acting as a panaceal antibiotic agent and thus may be useful as an adjuvant therapy in diverse infections.

Pubmed Data : Ann N Y Acad Sci. 2014 May ;1317:76-83. Epub 2014 Mar 4. PMID: 24593793

Article Published Date : Apr 30, 2014

Authors : Elisabetta Borella, Gideon Nesher, Eitan Israeli, Yehuda Shoenfeld

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bacterial Vaginosis : CK(46) : AC(6) , Clostridium Infections : CK(233) : AC(45) , Dengue Fever : CK(2) : AC(2), Hepatitis B : CK(241) : AC(46), Hepatitis C : CK(474) : AC(87) , HIV Infections : CK(659) : AC(216), Influenza : CK(789) : AC(123) , Otitis media : CK(305) : AC(41) , Pneumonia : CK(399) : AC(54), Sepsis : CK(197) : AC(54) , Upper Respiratory Infections : CK(950) : AC(114) , Urinary Tract Infections : CK(397) : AC(57)
Pharmacological Actions : Anti-Bacterial Agents : CK(1367) : AC(475) , Anti-Infective Agents : CK(43) : AC(18)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Vitamin D3 may represent a potentially useful antiviral compound.

Pubmed Data : Antiviral Res. 2012 Apr ;94(1):57-61. Epub 2012 Feb 22. PMID: 22387385

Article Published Date : Apr 01, 2012

Authors : Henry Puerta-Guardo, Sergio Isaac De la Cruz Hernández, Victor H Rosales, Juan E

Ludert, Rosa María del Angel

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Dengue Fever : CK(2) : AC(2)
Pharmacological Actions : Antiviral Agents : CK(938) : AC(433)

Dental Caries: Children (AC 1) (CK 10)

Improving children's vitamin D status may be an additional preventive consideration to lower the risk for caries.

Pubmed Data : J Dent Res. 2015 Nov 9. Epub 2015 Nov 9. PMID: **26553883**

Article Published Date : Nov 08, 2015

Authors : R J Schroth, R Rabbani, G Loewen, M E Moffatt

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Dental Caries: Children : CK(152) : AC(16) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334) , Supplementation : CK(413) : AC(60)

Depression (AC 8) (CK 90)

Consuming 2000 IU vitamin D3 daily during late pregnancy was effective in decreasing perinatal depression levels.

Pubmed Data : BMC Pregnancy Childbirth. 2016;16(1):239. Epub 2016 Aug 20. PMID: **27544544**

Article Published Date : Dec 31, 2015

Authors : Farideh Vaziri, Samira Nasiri, Zohreh Tavana, Mohammad Hossein Dabbaghmanesh, Farkhondeh Sharif, Peyman Jafari

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Depression : CK(1884) : AC(270)
Pharmacological Actions : Antidepressive Agents : CK(1004) : AC(162)
Additional Keywords : Risk Reduction : CK(6346) : AC(680)

Current evidence supports adjunctive use of SAMe, methylfolate, omega-3, and vitamin D with antidepressants to reduce depressive symptoms.

Pubmed Data : Am J Psychiatry. 2016 Apr 26:appiajp201615091228. Epub 2016 Apr 26. PMID: 27113121

Article Published Date : Apr 25, 2016

Authors : Jerome Sarris, Jenifer Murphy, David Mischoulon, George I Papakostas, Maurizio Fava, Michael Berk, Chee H Ng

Study Type : Meta Analysis, Review
Additional Links
Substances : Omega-3 Fatty Acids : CK(3268) : AC(387) , SAMe (S-adenosylmethionine) : CK(113) : AC(20), Vitamin D : CK(3176) : AC(449)
Diseases : Depression : CK(1884) : AC(270)
Pharmacological Actions : Antidepressive Agents : CK(1004) : AC(162)

Low serum 25(OH)D was associated with higher depressive symptom scores.

Pubmed Data : Eur J Nutr. 2015 Jul 4. Epub 2015 Jul 4. PMID: 26141257

Article Published Date : Jul 03, 2015

Authors : E M Brouwer-Brolsma, R A M Dhonukshe-Rutten, J P van Wijngaarden, N L van der Zwaluw, E Sohl, P H In't Veld, S C van Dijk, K M A Swart, A W Enneman, A C Ham, N M van Schoor, N van der Velde, A G Uitterlinden, P Lips, E J M Feskens, L C P G M de Groot

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Depression : CK(1884) : AC(270) , Depressive Disorder : CK(416) : AC(59) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Antidepressive Agents : CK(1004) : AC(162)
Additional Keywords : Gene Expression : CK(93) : AC(46) , Risk Reduction : CK(6346) : AC(680)

Plasma vitamin D might have a preventive role against recurrent depressive symptoms.

Pubmed Data : Eur J Nutr. 2016 Jul 27. Epub 2016 Jul 27. PMID: 27464883

Article Published Date : Jul 26, 2016

Authors : Caroline Collin, Karen E Assmann, Mélanie Deschasaux, Valentina A Andreeva, Cédric Lemogne, Nathalie Charnaux, Angela Sutton, Serge Hercberg, Pilar Galan, Mathilde Touvier, Emmanuelle Kesse-Guyot

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Depression : CK(1884) : AC(270) , Depressive Disorder : CK(416) : AC(59) , Vitamin D Deficiency : CK(1695) : AC(178)

These results support the hypothesis that higher serum 25(OH)D concentrations protect against depression.

Pubmed Data : Br J Nutr. 2015 May ;113(9):1418-26. PMID: **25989997**

Article Published Date : Apr 30, 2015

Authors : Tuija Jääskeläinen, Paul Knekt, Jaana Suvisaari, Satu Männistö, Timo Partonen, Katri Sääksjärvi, Niina E Kaartinen, Noora Kanerva, Olavi Lindfors

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Depression : CK(1884) : AC(270) , Depressive Disorder : CK(416) : AC(59)
Pharmacological Actions : Antidepressive Agents : CK(1004) : AC(162)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18) , Risk Reduction : CK(6346) : AC(680)

Vitamin D deficiency may be a risk factor for late-life depression.

Pubmed Data : J Affect Disord. 2016 Mar 9 ;198:1-14. Epub 2016 Mar 9. PMID: **26998791**

Article Published Date : Mar 08, 2016

Authors : Olivia I Okereke, Ankura Singh

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Depression : CK(1884) : AC(270) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332)

Vitamin D is independently associated with depression and inflammation in overweight women both with and without PCOS.

Pubmed Data : Gynecol Endocrinol. 2014 Nov 4:1-4. Epub 2014 Nov 4. PMID: **25366261**

Article Published Date : Nov 03, 2014

Authors : L J Moran, H J Teede, A J Vincent

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Depression : CK(1844) : AC(267) , Inflammation : CK(2923) : AC(860) , Overweight : CK(3320) : AC(544), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18) , Risk Factors : CK(2584) : AC(332)

Vitamin D supplementation of patients with major depressive disorder for 8 week had beneficial effects.

Pubmed Data : J Nutr. 2015 Nov 25. Epub 2015 Nov 25. PMID: **26609167**

Article Published Date : Nov 24, 2015

Authors : Zahra Sepehrmanesh, Fariba Kolahdooz, Fatemeh Abedi, Navid Mazroii, Amin Assarian, Zatollah Asemi, Ahmad Esmaillzadeh

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Depression : CK(1884) : AC(270) , Insulin Resistance : CK(1683) : AC(346) , Oxidative Stress : CK(3855) : AC(1378)
Pharmacological Actions : Antidepressive Agents : CK(1004) : AC(162)

Depressive Disorder (AC 4) (CK 40)

Low serum 25(OH)D was associated with higher depressive symptom scores.

Pubmed Data : Eur J Nutr. 2015 Jul 4. Epub 2015 Jul 4. PMID: **26141257**

Article Published Date : Jul 03, 2015

Authors : E M Brouwer-Brolsma, R A M Dhonukshe-Rutten, J P van Wijngaarden, N L van der Zwaluw, E Sohl, P H In't Veld, S C van Dijk, K M A Swart, A W Enneman, A C Ham, N M van Schoor, N van der Velde, A G Uitterlinden, P Lips, E J M Feskens, L C P G M de Groot

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Depression : CK(1884) : AC(270) , Depressive Disorder : CK(416) : AC(59) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Antidepressive Agents : CK(1004) : AC(162)
Additional Keywords : Gene Expression : CK(93) : AC(46) , Risk Reduction : CK(6346) : AC(680)

Plasma vitamin D might have a preventive role against recurrent depressive symptoms.

Pubmed Data : Eur J Nutr. 2016 Jul 27. Epub 2016 Jul 27. PMID: **27464883**

Article Published Date : Jul 26, 2016

Authors : Caroline Collin, Karen E Assmann, Mélanie Deschasaux, Valentina A Andreeva, Cédric Lemogne, Nathalie Charnaux, Angela Sutton, Serge Hercberg, Pilar Galan, Mathilde Touvier, Emmanuelle Kesse-Guyot

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Depression : CK(1884) : AC(270) , Depressive Disorder : CK(416) : AC(59) , Vitamin D Deficiency : CK(1695) : AC(178)

These findings suggest that both vitamin D and total cholesterol are important targets for the prevention and treatment of depression.

Pubmed Data : Public Health Nutr. 2016 Jul 4:1-8. Epub 2016 Jul 4. PMID: **27373847**

Article Published Date : Jul 03, 2016

Authors : Soo-Hyun Lee, Eunkyung Suh, Kyung-Chae Park, Ji-Hee Haam, KyongChol Kim, Hyung Suk Koo, Beom-Hee Choi, Bo Youn Won, Ki-Hyun Park, Kye-Seon Park, Moon-Jong Kim, Young-Sang Kim

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Depressive Disorder : CK(416) : AC(59) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

These results support the hypothesis that higher serum 25(OH)D concentrations protect against depression.

Pubmed Data : Br J Nutr. 2015 May ;113(9):1418-26. PMID: **25989997**

Article Published Date : Apr 30, 2015

Authors : Tuija Jääskeläinen, Paul Knekt, Jaana Suvisaari, Satu Männistö, Timo Partonen, Katri Sääksjärvi, Niina E Kaartinen, Noora Kanerva, Olavi Lindfors

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Depression : CK(1884) : AC(270) , Depressive Disorder : CK(416) : AC(59)
Pharmacological Actions : Antidepressive Agents : CK(1004) : AC(162)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18) , Risk Reduction : CK(6346) : AC(680)

Diabetes Mellitus: Type 1 (AC 2) (CK 20)

Correction of vitamin D deficiency in a patient results in improved glucose tolerance and beta-cell function.

Pubmed Data : Anticancer Res. 2006 Jan-Feb;26(1A):203-9. PMID: 8029165

Article Published Date : Jan 01, 2006

Authors : S Kumar, M Davies, Y Zakaria, E B Mawer, C Gordon, A O Olukoga, A J Boulton

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Diabetes Mellitus: Type 1 : CK(1086) : AC(290)
Additional Keywords : Beta Cell Regeneration : CK(78) : AC(29)

Vitamin D supplementation during infancy, as well as intake of vitamin D during pregnancy has been associated with decreased risk of type 1 diabetes.

Pubmed Data : Pediatr Diabetes. 2007 Feb;8(1):11-4. PMID: 17341286

Article Published Date : Feb 01, 2007

Authors : Hilde K Brekke, Johnny Ludvigsson

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Autoimmune Diseases : CK(6604) : AC(1119), Diabetes Mellitus: Type 1 : CK(1086) : AC(290), Prenatal Nutrition: Prevention of Problems : CK(367) : AC(42)

Diabetes Mellitus: Type 1: Prevention (AC 2) (CK 2)

Studies show that there may be a higher risk of food allergies for those with not enough exposure to vitamin D when young.

Pubmed Data : Curr Allergy Asthma Rep. 2012 Feb ;12(1):64-71. PMID: 22006065

Article Published Date : Feb 01, 2012

Authors : Raymond James Mullins, Carlos A Camargo

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Diabetes Mellitus: Type 1: Prevention : CK(255) : AC(50) , Food Allergies : CK(507) : AC(70), Multiple Sclerosis: Prevention : CK(21) : AC(1) , Vitamin D Deficiency : CK(1695) : AC(178)

The role of some natural Nrf2 activators and its effect in diabetes is discussed in this review.

Pubmed Data : Clin Chim Acta. 2015 Jul 9. Epub 2015 Jul 9. PMID: 26165427

Article Published Date : Jul 08, 2015

Authors : Angélica Saraí Jiménez-Osorio, Susana González-Reyes, José Pedraza-Chaverri

Study Type : Review
Additional Links
Substances : Curcumin : CK(4135) : AC(2175) , Resveratrol : CK(1245) : AC(746) , Sulforaphane : CK(533) : AC(262), Vitamin D : CK(3176) : AC(449)
Diseases : Diabetes Mellitus: Type 1: Prevention : CK(255) : AC(50) , Diabetes Mellitus: Type 2 : CK(3384) : AC(595), Hyperglycemia : CK(539) : AC(130) , Prediabetes : CK(150) : AC(17)
Pharmacological Actions : Antioxidants : CK(7304) : AC(2677) , Nrf2 activation : CK(175) : AC(85)

Diabetes Mellitus: Type 2 (AC 8) (CK 72)

A combination of quercetin, ascorbyl palmitate and vitamin D appears to safely offer relief of symptomatic diabetic neuropathy.

Pubmed Data : J Diabetes Complications. 2005 Sep-Oct;19(5):247-53. PMID: 16112498

Article Published Date : Sep 01, 2005

Authors : Paul Valensi, Claude Le Devehat, Jean-Louis Richard, Cherifo Farez, Taraneh Khodabandehlou, Richard A Rosenbloom, Carolyn LeFante

Study Type : Human Study
Additional Links
Substances : Ascorbyl Palmitate : CK(10) : AC(1) , Quercetin : CK(564) : AC(250) , Vitamin C : CK(1956) : AC(403), Vitamin D : CK(3209) : AC(455)
Diseases : Diabetes Mellitus: Type 2 : CK(3384) : AC(595) , Diabetic Neuropathies : CK(233) : AC(36) , Peripheral Neuropathies : CK(214) : AC(35)
Pharmacological Actions : Enzyme Inhibitors : CK(463) : AC(250)

Correction of vitamin D deficiency in type 2 diabetic patients decreases total cholesterol.

Pubmed Data : Ther Adv Endocrinol Metab. 2015 Dec ;6(6):245-248. PMID: **26623001**

Article Published Date : Nov 30, 2015

Authors : José Manuel Ramiro-Lozano, José María Calvo-Romero

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Diabetes Mellitus: Type 2 : CK(3384) : AC(595) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Anticholesteremic Agents : CK(1244) : AC(230)

Low serum 25(OH)D levels were significantly associated with a higher prevalence of PAD in type 2 diabetes patients 65 years of age.

Pubmed Data : Arch Med Res. 2016 Feb 5. Epub 2016 Feb 5. PMID: **26854799**

Article Published Date : Feb 04, 2016

Authors : Dong-Mei Li, Ying Zhang, Qian Li, Xiao-Hua Xu, Bo Ding, Jian-Hua Ma

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Diabetes Mellitus: Type 2 : CK(3384) : AC(595) , Peripheral Arterial Disease : CK(282) : AC(29), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Raising serum 25(OH)D may be a useful tool for reducing risk of diabetes in the population.

Pubmed Data : J Steroid Biochem Mol Biol. 2015 Jul 4. Epub 2015 Jul 4. PMID: **26151742**

Article Published Date : Jul 03, 2015

Authors : S L McDonnell, L L Baggerly, C B French, R P Heaney, E D Gorham, M F Holick, R Scragg, C F Garland

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Diabetes Mellitus: Type 2 : CK(3384) : AC(595) , Diabetes Mellitus: Type 2: Prevention : CK(651) : AC(86)
Additional Keywords : Risk Factors : CK(2584) : AC(332) , Risk Reduction : CK(6366) : AC(681)

The role of some natural Nrf2 activators and its effect in diabetes is discussed in this review.

Pubmed Data : Clin Chim Acta. 2015 Jul 9. Epub 2015 Jul 9. PMID: **26165427**

Article Published Date : Jul 08, 2015

Authors : Angélica Saraí Jiménez-Osorio, Susana González-Reyes, José Pedraza-Chaverri

Study Type : Review
Additional Links
Substances : Curcumin : CK(4135) : AC(2175) , Resveratrol : CK(1245) : AC(746) , Sulforaphane : CK(533) : AC(262), Vitamin D : CK(3176) : AC(449)
Diseases : Diabetes Mellitus: Type 1: Prevention : CK(255) : AC(50) , Diabetes Mellitus: Type 2 : CK(3384) : AC(595), Hyperglycemia : CK(539) : AC(130) , Prediabetes : CK(150) : AC(17)
Pharmacological Actions : Antioxidants : CK(7304) : AC(2677) , Nrf2 activation : CK(175) : AC(85)

Vitamin D improved serum levels of TC, TG, and LDL in patients with type 2 diabetes.

Pubmed Data : Clin Nutr. 2016 Mar 15. Epub 2016 Mar 15. PMID: **27020528**

Article Published Date : Mar 14, 2016

Authors : Tina Jafari, Aziz A Fallah, Afshin Barani

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Diabetes Mellitus: Type 2 : CK(3384) : AC(595)
Pharmacological Actions : Hypolipidemic : CK(1229) : AC(256)

Vitamin D supplementation improves serum concentrations of magnesium and selenium in a gender-dependent manner.

Pubmed Data : Int J Vitam Nutr Res. 2014 ;84(1-2):27-34. PMID: **25835233**

Article Published Date : Dec 31, 2013

Authors : Nasser M Al-Daghri, Khalid M Alkharfy, Nasiruddin Khan, Hanan A Alfawaz, Abdulrahman S Al-Ajlan, Sobhy M Yakout, Majed S Alokail

Study Type : Human Study
Additional Links

Substances : Magnesium : CK(1516) : AC(193) , Selenium : CK(784) : AC(139) , Vitamin D : CK(3209) : AC(455)
Diseases : Diabetes Mellitus: Type 2 : CK(3384) : AC(595)
Therapeutic Actions : Fasting/Caloric Restriction : CK(297) : AC(63)
Additional Keywords : Parathyroid Hormone : CK(52) : AC(5) , Supplementation : CK(413) : AC(60)

Vitamin D3 combined with vitamin B1 or vitamin B2 exhibited significant synergistic effects on inhibition of α-glucosidase.

Pubmed Data : Food Funct. 2016 Jan 8. Epub 2016 Jan 8. PMID: **26744303**

Article Published Date : Jan 07, 2016

Authors : Xi Peng, Guowen Zhang, Li Zeng

Study Type : In Vitro Study
Additional Links
Substances : Riboflavin (Vitamin B-2) : CK(120) : AC(19) , Thiamine (B-1) : CK(106) : AC(18), Vitamin D : CK(3209) : AC(455)
Diseases : Diabetes Mellitus: Type 2 : CK(3384) : AC(595)
Pharmacological Actions : Alpha-glucosidase inhibitor : CK(52) : AC(37)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247)

Diabetes Mellitus: Type 2: Prevention (AC 2) (CK 20)

Improvement of vitamin D status may help reduce the public health burden of metabolic syndrome, and potential subsequent health conditions including type 2 diabetes and cardiovascular disease.

Pubmed Data : Nutrients. 2015 ;7(9):7271-84. Epub 2015 Aug 28. PMID: **26343719**

Article Published Date : Dec 31, 2014

Authors : Truong-Minh Pham, John Paul Ekwaru, Solmaz Setayeshgar, Paul J Veugelers

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiovascular Disease: Prevention : CK(3187) : AC(425) , Diabetes Mellitus: Type 2: Prevention : CK(651) : AC(86), Metabolic Diseases : CK(411) : AC(75)

Additional Keywords : Risk Reduction : CK(6366) : AC(681) , Supplementation : CK(413) : AC(60)

Raising serum 25(OH)D may be a useful tool for reducing risk of diabetes in the population.

Pubmed Data : J Steroid Biochem Mol Biol. 2015 Jul 4. Epub 2015 Jul 4. PMID: 26151742

Article Published Date : Jul 03, 2015

Authors : S L McDonnell, L L Baggerly, C B French, R P Heaney, E D Gorham, M F Holick, R Scragg, C F Garland

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Diabetes Mellitus: Type 2 : CK(3384) : AC(595) , Diabetes Mellitus: Type 2: Prevention : CK(651) : AC(86)
Additional Keywords : Risk Factors : CK(2584) : AC(332) , Risk Reduction : CK(6366) : AC(681)

Diabetes: Reproductive (AC 1) (CK 2)

Vitamin D and Ajuga iva have an inhibitory effect on oxidative stress, toxicity and hypo-fertility in diabetic rat testes.

Pubmed Data : J Physiol Biochem. 2008 Sep;64(3):231-9. PMID: 19244937

Article Published Date : Sep 01, 2008

Authors : K Hamden, S Carreau, K Jamoussi, F Ayadi, F Garmazi, N Mezgenni, A Elfeki

Study Type : Animal Study
Additional Links
Substances : Ajuga : CK(3) : AC(2) , Vitamin D : CK(3176) : AC(449)
Diseases : Diabetes: Reproductive : CK(2) : AC(1) , Infertility : CK(728) : AC(152)
Pharmacological Actions : Antioxidants : CK(7331) : AC(2682)
Additional Keywords : Plant Extracts : CK(7483) : AC(2462)

Diabetic Nephropathy (AC 1) (CK 10)

Vitamin D deficiency is prevalent in patients with diabetic nephropathy and increases in severity with diabetic nephropathy progression.

Pubmed Data : J Int Med Res. 2016 Mar 4. Epub 2016 Mar 4. PMID: 26944386

Article Published Date : Mar 03, 2016

Authors : Xiaoyan Xiao, Yajuan Wang, Yanlian Hou, Feng Han, Jianmin Ren, Zhao Hu

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Diabetic Nephropathy : CK(136) : AC(52) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Diabetic Neuropathies (AC 1) (CK 10)

A combination of quercetin, ascorbyl palmitate and vitamin D appears to safely offer relief of symptomatic diabetic neuropathy.

Pubmed Data : J Diabetes Complications. 2005 Sep-Oct;19(5):247-53. PMID: 16112498

Article Published Date : Sep 01, 2005

Authors : Paul Valensi, Claude Le Devehat, Jean-Louis Richard, Cherifo Farez, Taraneh Khodabandehlou, Richard A Rosenbloom, Carolyn LeFante

Study Type : Human Study
Additional Links
Substances : Ascorbyl Palmitate : CK(10) : AC(1) , Quercetin : CK(564) : AC(250) , Vitamin C : CK(1956) : AC(403), Vitamin D : CK(3209) : AC(455)
Diseases : Diabetes Mellitus: Type 2 : CK(3384) : AC(595) , Diabetic Neuropathies : CK(233) : AC(36) , Peripheral Neuropathies : CK(214) : AC(35)
Pharmacological Actions : Enzyme Inhibitors : CK(463) : AC(250)

Diabetic Ulcer (AC 1) (CK 10)

vitamin D supplementation had beneficial effects on improved glycemic control in patients with diabetic foot ulcer.

Pubmed Data : J Diabetes Complications. 2016 Jun 23. Epub 2016 Jun 23. PMID: 27363929

Article Published Date : Jun 22, 2016

Authors : Reza Razzaghi, Hamideh Pourbagheri, Mansooreh Momen-Heravi, Fereshteh Bahmani, Jafar Shadi, Zahra Soleimani, Zatollah Asemi

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : C-Reactive Protein : CK(1630) : AC(172), Diabetic Ulcer : CK(155) : AC(25), Wound Healing: Delayed : CK(74) : AC(29)
Pharmacological Actions : Anticholesteremic Agents : CK(1244) : AC(230), Malondialdehyde Down-regulation : CK(554) : AC(152)

Digestive System Surgical Procedures (AC 1) (CK 1)

Cholestectomy may result in malabsorption of vitamin D and thereby contribute to osteoporosis and osteopenia.

Pubmed Data : Eksp Klin Gastroenterol. 2010(4):14-20. PMID: 20623948

Article Published Date : Jan 01, 2010

Authors : E S Koricheva, A A Il'chenko, E Ia Selezneva, V N Drozdov

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Cholecystectomy : CK(104) : AC(7), Digestive System Surgical Procedures : CK(1) : AC(1), Empyema: Gallbladder : CK(1) : AC(1), Postcholecystectomy syndrome : CK(1) : AC(1)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Drug-Induced Nutrient Depletion: Statin Drugs (AC 1) (CK 10)

Low serum vitamin D levels are associated with reversible myositis-myalgia in statin-treated patients.

Pubmed Data : Transl Res. 2009 Jan;153(1):11-6. Epub 2008 Dec 6. PMID: 19100953

Article Published Date : Jan 01, 2009

Authors : Waqas Ahmed, Naseer Khan, Charles J Glueck, Suman Pandey, Ping Wang, Naila Goldenberg, Muhammad Uppal, Suraj Khanal

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Drug-Induced Nutrient Depletion: Statin Drugs : CK(147) : AC(34) , Myalgias : CK(105) : AC(14), Myositis : CK(40) : AC(7), Statin-Induced Pathologies : CK(1638) : AC(327) , Vitamin D Deficiency : CK(1695) : AC(178)

Drug-Induced Toxicity: Aromatase Inhibitors (AC 2) (CK 20)

Vitamin D insufficiency is strongly correlated to musculoskeletal symptoms (e.g. muscle pain) in breast cancer survivors on aromatase inhibitor therapy.

Pubmed Data : Cancer Nurs. 2009 Mar-Apr;32(2):143-50. PMID: 19125120

Article Published Date : Mar 01, 2009

Authors : Nancy L Waltman, Carol D Ott, Janice J Twiss, Gloria J Gross, Ada M Lindsey

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Drug-Induced Toxicity: Aromatase Inhibitors : CK(20) : AC(2)

Vitamin D supplementation may reduce disability associated with aromatase inhibitors.

Pubmed Data : Breast Cancer Res Treat. 2009 Aug 5; PMID: 19655244

Article Published Date : Aug 05, 2009

Authors : Qamar J Khan, Pavan S Reddy, Bruce F Kimler, Priyanka Sharma, Susan E Baxa, Anne P O'Dea, Jennifer R Klemp, Carol J Fabian

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Drug-Induced Toxicity: Aromatase Inhibitors : CK(20) : AC(2) , Pain: Musculoskeletal, Non-Specific and Persistent : CK(10) : AC(1)

Dry Eye Syndromes (AC 1) (CK 10)

Dry eye and impaired tear function in patients with vitamin D deficiency may indicate a protective role of vitamin D in the development of dry eye.

Pubmed Data : Int J Rheum Dis. 2015 Aug 13. Epub 2015 Aug 13. PMID: 26269110

Article Published Date : Aug 12, 2015

Authors : Pelin Yildirim, Yeşim Garip, Ayse Aslihan Karci, Tuba Guler

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Dry Eye Syndromes : CK(200) : AC(31) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Edema (AC 1) (CK 2)

Vitamin D augments transalveolar fluid clearance, and

vitamin D therapy may potentially be used to ameliorate pulmonary edema.

Pubmed Data : J Pharm Sci. 2016 Jan ;105(1):333-8. Epub 2016 Jan 13. PMID: 26852863

Article Published Date : Dec 31, 2015

Authors : Hongguang Nie, Yong Cui, Sihui Wu, Yan Ding, Yanchun Li

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Edema : CK(107) : AC(13)

Elderly: Age Specific Diseases (AC 3) (CK 40)

Both high and low concentrations of plasma 25(OH)D are associated with elevated risks of overall and cancer mortality. Low concentrations are associated with cardiovascular mortality.

Pubmed Data : Am J Clin Nutr. 2010 Oct;92(4):841-8. Epub 2010 Aug 18. PMID: 20720256

Article Published Date : Oct 01, 2010

Authors : Karl Michaëlsson, John A Baron, Greta Snellman, Rolf Gedeborg, Liisa Byberg, Johan Sundström, Lars Berglund, Johan Arnlöv, Per Hellman, Rune Blomhoff, Alicja Wolk, Hans Garmo, Lars Holmberg, Håkan Melhus

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiac Mortality : CK(947) : AC(86), Cardiovascular Diseases : CK(7145) : AC(903) , Elderly: Age Specific Diseases : CK(442) : AC(38) , Hypertension : CK(2984) : AC(406) , Mortality: All-Cause : CK(713) : AC(63)
Additional Keywords : Too Much Vitamin D : CK(10) : AC(1)

Vitamin D supplementation reduces mortality in adults.

Pubmed Data : Cochrane Database Syst Rev. 2011(7):CD007470. Epub 2011 Jul 6. PMID: 21735411

Article Published Date : Jan 01, 2011

Authors : Goran Bjelakovic, Lise Lotte Gluud, Dimitrinka Nikolova, Kate Whitfield, Jørn Wetterslev,

Rosa G Simonetti, Marija Bjelakovic, Christian Gluud

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Elderly: Age Specific Diseases : CK(442) : AC(38) , Mortality: All-Cause : CK(713) : AC(63)

Vitamin D3 levels should be investigated as a potential therapy to treat prefrailty and prevent further decline

Pubmed Data : J Am Geriatr Soc. 2012 Feb ;60(2):256-64. Epub 2012 Jan 27. PMID: 22283177

Article Published Date : Jan 31, 2012

Authors : Michelle Shardell, Christopher D'Adamo, Dawn E Alley, Ram R Miller, Gregory E Hicks, Yuri Milaneschi, Richard D Semba, Antonio Cherubini, Stefania Bandinelli, Luigi Ferrucci

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Elderly: Age Specific Diseases : CK(442) : AC(38)

Empyema: Gallbladder (AC 1) (CK 1)

Cholestectomy may result in malabsorption of vitamin D and thereby contribute to osteoporosis and osteopenia.

Pubmed Data : Eksp Klin Gastroenterol. 2010(4):14-20. PMID: 20623948

Article Published Date : Jan 01, 2010

Authors : E S Koricheva, A A Il'chenko, E Ia Selezneva, V N Drozdov

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Cholecystectomy : CK(104) : AC(7) , Digestive System Surgical Procedures : CK(1) : AC(1) , Empyema: Gallbladder : CK(1) : AC(1) , Postcholecystectomy syndrome : CK(1) : AC(1)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Encephalomyelitis (AC 1) (CK 1)

This review provides evidence that nutrition and natural compounds can help in prevention and treatment of this neuroinflammatory disease.

Pubmed Data : Pharmacol Ther. 2015 Apr ;148:85-113. Epub 2014 Nov 27. PMID: 25435020

Article Published Date : Mar 31, 2015

Authors : Katja Schmitz, Julia Barthelmes, Leonie Stolz, Susanne Beyer, Olaf Diehl, Irmgard Tegeder

Study Type : Review

Additional Links

Substances : Broccoli : CK(962) : AC(298) , Curcumin : CK(4135) : AC(2175) , EGCG (Epigallocatechin gallate) : CK(609) : AC(314), Polyunsaturated Fatty Acids (PUFAs) : CK(174) : AC(32) , Sulforaphane : CK(533) : AC(262), Vitamin A : CK(498) : AC(77) , Vitamin D : CK(3176) : AC(449) , Vitamin E : CK(1656) : AC(290)

Diseases : Encephalomyelitis : CK(12) : AC(7) , Multiple Sclerosis : CK(964) : AC(184)

Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616) , Immunomodulatory : CK(1286) : AC(357)

Additional Keywords : Dietary Modification : CK(315) : AC(47) , Natural Substance Synergy : CK(537) : AC(247), Significant Treatment Outcome : CK(3038) : AC(366)

End Stage Renal Disease (AC 1) (CK 10)

The higher incidence of end stage kidney disease in African-American populations is associated with lower vitamin D levels.

Pubmed Data : J Am Soc Nephrol. 2009 Dec;20(12):2631-9. Epub 2009 Oct 29. PMID: 19875805

Article Published Date : Dec 01, 2009

Authors : Michal L Melamed, Brad Astor, Erin D Michos, Thomas H Hostetter, Neil R Powe, Paul Muntner

Study Type : Human Study

Additional Links

Substances : Vitamin D : CK(3209) : AC(455)

Diseases : End Stage Renal Disease : CK(10) : AC(1) , Kidney Diseases : CK(501) : AC(84) , Kidney Failure : CK(321) : AC(45)

Endometrial Cancer (AC 1) (CK 20)

Review: there is a consistently strong inverse correlations with solar UVB for 15 types of cancers.

Pubmed Data : Anticancer Res. 2012 Jan ;32(1):223-36. PMID: **22213311**

Article Published Date : Jan 01, 2012

Authors : William B Grant

Study Type : Meta Analysis

Additional Links

Substances : Vitamin D : CK(3176) : AC(449)

Diseases : Bladder Cancer : CK(349) : AC(100) , Breast Cancer : CK(3526) : AC(1059) , Cervical Cancer : CK(345) : AC(144), Colon Cancer : CK(749) : AC(430) , Colorectal Cancer : CK(1635) : AC(611) , Endometrial Cancer : CK(307) : AC(53) , Esophageal Cancer : CK(506) : AC(85) , Hodgkin Lymphoma : CK(53) : AC(7), Lung Cancer : CK(1033) : AC(393) , Non-Hodgkin Lymphoma : CK(363) : AC(79) , Ovarian Cancer : CK(360) : AC(128) , Pancreatic Cancer : CK(889) : AC(260) , Renal Cancer : CK(25) : AC(4), Vulvar Cancer : CK(52) : AC(4)

Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)

Pharmacological Actions : Chemopreventive : CK(2831) : AC(784)

Endothelial Dysfunction (AC 3) (CK 40)

These results suggest a potential role for vitamin D in systemic lupus erythematosus-related endothelial dysfunction.

Pubmed Data : Am J Med Sci. 2015 Oct ;350(4):302-7. PMID: **26351776**

Article Published Date : Sep 30, 2015

Authors : Diane L Kamen, Jim C Oates

Study Type : Human Study

Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Endothelial Dysfunction : CK(1176) : AC(232) , Lupus Erythematosus: Systemic : CK(463) : AC(66)

Vitamin D supplementation in dialysis patients might help prevent cardiovascular diseases.

Pubmed Data : Hemodial Int. 2016 Jun 29. Epub 2016 Jun 29. PMID: **27358162**

Article Published Date : Jun 28, 2016

Authors : Yusuf Karakas, Garip Sahin, Furkan Ertürk Urfali, Cengiz Bal, Nevbahar Akcar Degirmenci, Basar Sirmagul

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiovascular Diseases : CK(7145) : AC(903) , Endothelial Dysfunction : CK(1176) : AC(232), Hemodialysis : CK(453) : AC(48)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

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current evidence clearly demonstrates that in certain conditions vitamin D can improve endothelial dysfunction

Pubmed Data : Cardiovasc Ther. 2015 Jun ;33(3):145-54. PMID: **25850709**

Article Published Date : May 31, 2015

Authors : Marko Stojanović, Miroslav Radenković

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiovascular Diseases : CK(7145) : AC(903) , Endothelial Dysfunction : CK(1176) : AC(232)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Epidermolysis Bullosa (AC 1) (CK 10)

Iron, Vitamin D, Vitamin C, Zinc and Selenium deficiences are common in recessive dystrophic epidermolysis bullosa.

Pubmed Data : J Eur Acad Dermatol Venereol. 2004 Nov;18(6):649-53. PMID: 15482288

Article Published Date : Nov 01, 2004

Authors : S Ingen-Housz-Oro, C Blanchet-Bardon, M Vrillat, L Dubertret

Study Type : Human Study
Additional Links
Substances : Iron : CK(111) : AC(11), Selenium : CK(784) : AC(139) , Vitamin C : CK(1956) : AC(403) , Vitamin D : CK(3209) : AC(455) , Zinc : CK(941) : AC(139)
Diseases : Epidermolysis Bullosa : CK(40) : AC(4)

Epilepsy (AC 1) (CK 10)

Vitamin D deficiency is prevalent in children with epilespy.

Pubmed Data : Pediatr Neurol. 2010 Jun;42(6):422-6. PMID: 20472195

Article Published Date : Jun 01, 2010

Authors : Renée A Shellhaas, Amanda K Barks, Sucheta M Joshi

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Epilepsy : CK(249) : AC(63)

Epstein-Barr Virus Infections (AC 2) (CK 20)

Antibody titers against EBV in MS patients rise after the onset of the disease and indicate that vitamin D3 supplementation could limit augmentation of these titers in MS patients.

Pubmed Data : Cell Immunol. 2015 Mar ;294(1):9-12. Epub 2015 Jan 28. PMID: 25666504

Article Published Date : Feb 28, 2015

Authors : Adeleh Najafipoor, Rasoul Roghanian, Sayyed Hamid Zarkesh-Esfahani, Majid Bouzari, Masoud Etemadifar

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Epstein-Barr Virus Infections : CK(132) : AC(47) , Multiple Sclerosis : CK(964) : AC(184) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Immunomodulatory : CK(1286) : AC(357)
Additional Keywords : Risk Factors : CK(2584) : AC(332) , Risk Reduction : CK(6366) : AC(681)

High-dose oral vitamin D3 supplementation can affect humoral immune responses against the latent EBV antigen EBNA1.

Pubmed Data : Mult Scler. 2016 Jun 20. Epub 2016 Jun 20. PMID: **27325604**

Article Published Date : Jun 19, 2016

Authors : Egil Røsjø, Andreas Lossius, Nada Abdelmagid, Jonas C Lindstrøm, Margitta T Kampman, Lone Jørgensen, Peter Sundström, Tomas Olsson, Linn H Steffensen, Øivind Torkildsen, Trygve Holmøy

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Epstein-Barr Virus Infections : CK(132) : AC(47) , Multiple Sclerosis: Relapsing-Remitting : CK(114) : AC(13)
Pharmacological Actions : Immunomodulatory : CK(1287) : AC(358)

Esophageal Cancer (AC 1) (CK 20)

Review: there is a consistently strong inverse correlations with solar UVB for 15 types of cancers.

Pubmed Data : Anticancer Res. 2012 Jan ;32(1):223-36. PMID: **22213311**

Article Published Date : Jan 01, 2012

Authors : William B Grant

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bladder Cancer : CK(349) : AC(100) , Breast Cancer : CK(3526) : AC(1059) , Cervical Cancer

: CK(345) : AC(144), Colon Cancer : CK(749) : AC(430), Colorectal Cancer : CK(1635) : AC(611), Endometrial Cancer : CK(307) : AC(53), Esophageal Cancer : CK(506) : AC(85), Hodgkin Lymphoma : CK(53) : AC(7), Lung Cancer : CK(1033) : AC(393), Non-Hodgkin Lymphoma : CK(363) : AC(79), Ovarian Cancer : CK(360) : AC(128), Pancreatic Cancer : CK(889) : AC(260), Renal Cancer : CK(25) : AC(4), Vulvar Cancer : CK(52) : AC(4)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)
Pharmacological Actions : Chemopreventive : CK(2831) : AC(784)

Estrogen Dominance (AC 1) (CK 1)

Vitamin D3 down-regulates estrogen receptor abundance and suppresses estrogen actions in MCF-7 human breast cancer cells.

Pubmed Data : Clin Cancer Res. 2000 Aug;6(8):3371-9. PMID: **10955825**

Article Published Date : Aug 01, 2000

Authors : S Swami, A V Krishnan, D Feldman

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059), Estrogen Dominance : CK(107) : AC(38)
Pharmacological Actions : Estrogen Antagonists : CK(3) : AC(1)
Additional Keywords : Estrogen Receptor Positive Breast Cancer : CK(3) : AC(3)

Facial Nerve Diseases (AC 1) (CK 2)

Cholecalciferol significantly increases functional recovery and myelination, after 12 weeks of treatment.

Pubmed Data : Eur Arch Otorhinolaryngol. 2014 Sep 27. Epub 2014 Sep 27. PMID: **25261104**

Article Published Date : Sep 26, 2014

Authors : Marion Montava, Stéphane Garcia, Julien Mancini, Yves Jammes, Joël Courageot, Jean-Pierre Lavieille, François Feron

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Facial Nerve Diseases : CK(4) : AC(2) , Facial Paralysis : CK(4) : AC(2)
Pharmacological Actions : Remyelination : CK(2) : AC(1)
Additional Keywords : Significant Treatment Outcome : CK(3038) : AC(366)

Facial Paralysis (AC 1) (CK 2)

Cholecalciferol significantly increases functional recovery and myelination, after 12 weeks of treatment.

Pubmed Data : Eur Arch Otorhinolaryngol. 2014 Sep 27. Epub 2014 Sep 27. PMID: 25261104

Article Published Date : Sep 26, 2014

Authors : Marion Montava, Stéphane Garcia, Julien Mancini, Yves Jammes, Joël Courageot, Jean-Pierre Lavieille, François Feron

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Facial Nerve Diseases : CK(4) : AC(2) , Facial Paralysis : CK(4) : AC(2)
Pharmacological Actions : Remyelination : CK(2) : AC(1)
Additional Keywords : Significant Treatment Outcome : CK(3038) : AC(366)

Fibroid Tumor (AC 1) (CK 1)

Vitamin D inhibits leiomyoma (fibroid) cell growth, in vitro.

Pubmed Data : Fertil Steril. 2009 May;91(5):1919-25. Epub 2008 Apr 18. PMID: 18423458

Article Published Date : May 01, 2009

Authors : Merja Bläuer, Päivi H Rovio, Timo Ylikomi, Pentti K Heinonen

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)

Diseases : Fibroid Tumor : CK(41) : AC(13) , Fibroids: Uterine : CK(57) : AC(18) , Leiomyoma : CK(48) : AC(18)

Fibroids: Uterine (AC 1) (CK 1)

Vitamin D inhibits leiomyoma (fibroid) cell growth, in vitro.

Pubmed Data : Fertil Steril. 2009 May;91(5):1919-25. Epub 2008 Apr 18. PMID: 18423458

Article Published Date : May 01, 2009

Authors : Merja Bläuer, Päivi H Rovio, Timo Ylikomi, Pentti K Heinonen

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Fibroid Tumor : CK(41) : AC(13) , Fibroids: Uterine : CK(57) : AC(18) , Leiomyoma : CK(48) : AC(18)

Fibromyalgia (AC 3) (CK 30)

Optimization of vitamin D levels in FMS had a positive effect on the perception of pain.

Pubmed Data : Pain. 2014 Feb ;155(2):261-8. PMID: 24438771

Article Published Date : Jan 31, 2014

Authors : Florian Wepner, Raphael Scheuer, Birgit Schuetz-Wieser, Peter Machacek, Elisabeth Pieler-Bruha, Heide S Cross, Julia Hahne, Martin Friedrich

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Fibromyalgia : CK(619) : AC(67)

Vitamin D deficiency may be associated with anxiety and

depression in fibromyalgia.

Pubmed Data : Clin Rheumatol. 2007 Apr;26(4):551-4. Epub 2006 Jul 19. PMID: 16850115

Article Published Date : Apr 01, 2007

Authors : D J Armstrong, G K Meenagh, I Bickle, A S H Lee, E-S Curran, M B Finch

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Fibromyalgia : CK(619) : AC(67)

Vitamin D may be therapeutic in some patients with fibromyalgia.

Pubmed Data : Endocr Pract. 2009 May-Jun;15(3):203-12. PMID: 19364687

Article Published Date : May 01, 2009

Authors : David S Arvold, Marilyn J Odean, Maude P Dornfeld, Ronald R Regal, Judith G Arvold, Gene C Karwoski, David J Mast, Paul B Sanford, Robert J Sjoberg

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Fibromyalgia : CK(619) : AC(67)

Fibrosis (AC 1) (CK 1)

This review highlights the effects of vitamin D on CCN gene expression in the setting of two common pathologic conditions, fibrosis and cancer.

Pubmed Data : Cell Signal. 2016 Jul 23. Epub 2016 Jul 23. PMID: 27460560

Article Published Date : Jul 22, 2016

Authors : Richard T Piszczatowski, Nathan H Lents

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cancers: All : CK(14500) : AC(4586) , Fibrosis : CK(13) : AC(8)
Additional Keywords : Gene Expression Regulation : CK(427) : AC(212)

Fluoride Toxicity (AC 2) (CK 4)

Vitamin C, D, and E have an ameliorative effect on sodium-fluoride-induced hypoproteinemia and hypoglycemia in rats.

Pubmed Data : Food Chem Toxicol. 2002 Dec;40(12):1781-8. PMID: 12419692

Article Published Date : Dec 01, 2002

Authors : R J Verma, D M Guna Sherlin

Study Type : Animal Study
Additional Links
Substances : Vitamin C : CK(1956) : AC(403) , Vitamin D : CK(3176) : AC(449) , Vitamin E : CK(1656) : AC(290)
Diseases : Fluoride Toxicity : CK(187) : AC(63)
Pharmacological Actions : Antioxidants : CK(7304) : AC(2677)

Vitamin D ameliorates fluoride-induced embryotoxicity in pregnant rats.

Pubmed Data : Hepatogastroenterology. 2003 Dec;50 Suppl 2:cclxxix-cclxxx. PMID: 11348838

Article Published Date : Dec 01, 2003

Authors : D M Guna Sherlin, R J Verma

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Fluoride Toxicity : CK(187) : AC(63)

Food Allergies (AC 3) (CK 21)

Studies show that there may be a higher risk of food allergies for those with not enough exposure to vitamin D when young.

Pubmed Data : Curr Allergy Asthma Rep. 2012 Feb ;12(1):64-71. PMID: 22006065

Article Published Date : Feb 01, 2012

Authors : Raymond James Mullins, Carlos A Camargo

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Diabetes Mellitus: Type 1: Prevention : CK(255) : AC(50) , Food Allergies : CK(507) : AC(70), Multiple Sclerosis: Prevention : CK(21) : AC(1) , Vitamin D Deficiency : CK(1695) : AC(178)

Vitamin D deficiency is higher among children with asthma, allergic rhinitis, atopic dermatitis, acute urticaria, and food allergy.

Pubmed Data : Eur Ann Allergy Clin Immunol. 2011 Jun ;43(3):81-8. PMID: **21789969**

Article Published Date : Jun 01, 2011

Authors : M S Ehlayel, A Bener, A Sabbah

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Allergic Rhinitis : CK(392) : AC(52) , Asthma : CK(1146) : AC(188) , Atopic Dermatitis : CK(1134) : AC(117), Atopic Disease : CK(101) : AC(10) , Food Allergies : CK(507) : AC(70) , Urticaria : CK(130) : AC(8), Vitamin D Deficiency : CK(1695) : AC(178)

Vitamin D insufficiency is associated with challenge-proven food allergy in infants.

Pubmed Data : J Allergy Clin Immunol. 2013 Apr ;131(4):1109-16, 1116.e1-6. Epub 2013 Feb 27. PMID: **23453797**

Article Published Date : Mar 31, 2013

Authors : Katrina J Allen, Jennifer J Koplin, Anne-Louise Ponsonby, Lyle C Gurrin, Melissa Wake, Peter Vuillermin, Pamela Martin, Melanie Matheson, Adrian Lowe, Marnie Robinson, Dean Tey, Nicholas J Osborne, Thanh Dang, Hern-Tze Tina Tan, Leone Thiele, Deborah Anderson, Helen Czech, Jeeva Sanjeevan, Giovanni Zurzolo, Terence Dwyer, Mimi L K Tang, David Hill, Shyamali C Dharmage

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Atopic Dermatitis: Infant & Childhood : CK(191) : AC(17) , Food Allergies : CK(507) : AC(70), Food Allergies/Intolerances: Cereals/Grains : CK(11) : AC(2) , Vitamin D Deficiency : CK(1695) : AC(178)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)

Food Allergies/Intolerances: Cereals/Grains (AC 1) (CK 10)

Vitamin D insufficiency is associated with challenge-proven food allergy in infants.

Pubmed Data : J Allergy Clin Immunol. 2013 Apr ;131(4):1109-16, 1116.e1-6. Epub 2013 Feb 27. PMID: **23453797**

Article Published Date : Mar 31, 2013

Authors : Katrina J Allen, Jennifer J Koplin, Anne-Louise Ponsonby, Lyle C Gurrin, Melissa Wake, Peter Vuillermin, Pamela Martin, Melanie Matheson, Adrian Lowe, Marnie Robinson, Dean Tey, Nicholas J Osborne, Thanh Dang, Hern-Tze Tina Tan, Leone Thiele, Deborah Anderson, Helen Czech, Jeeva Sanjeevan, Giovanni Zurzolo, Terence Dwyer, Mimi L K Tang, David Hill, Shyamali C Dharmage

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Atopic Dermatitis: Infant & Childhood : CK(191) : AC(17) , Food Allergies : CK(507) : AC(70), Food Allergies/Intolerances: Cereals/Grains : CK(11) : AC(2) , Vitamin D Deficiency : CK(1695) : AC(178)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)

Gallstones (AC 1) (CK 10)

Vitamin D deficiency is associated with gallbladder stasis and gallstones.

Pubmed Data : Dig Dis Sci. 2015 May 12. Epub 2015 May 12. PMID: **25963323**

Article Published Date : May 11, 2015

Authors : Rimpi Singla, Usha Dutta, Neelam Aggarwal, Sanjay Kumar Bhadada, Rakesh Kochhar, Lakhbir K Dhaliwal

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Gallstones : CK(173) : AC(33), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Increased Risk : CK(1450) : AC(181) , Risk Reduction : CK(6346) : AC(680)

Gastric Bypass Surgery (AC 1) (CK 3)

Osteomalacia with bone marrow fibrosis due to severe vitamin D deficiency after a gastrointestinal bypass operation for severe obesity has been reported.

Pubmed Data : Endocr Pract. 2009 Sep-Oct;15(6):528-33. PMID: 19491072

Article Published Date : Sep 01, 2009

Authors : Ahmad Al-Shoha, Shijing Qiu, Saroj Palnitkar, D Sudhaker Rao

Study Type : Human: Case Report

Additional Links

Substances : Vitamin D : CK(3209) : AC(455)

Diseases : Gastric Bypass Surgery : CK(33) : AC(4) , Myelofibrosis : CK(19) : AC(4), Osteomalacia : CK(37) : AC(5), Vitamin D Deficiency : CK(1695) : AC(178)

Gastric Cancer (AC 1) (CK 1)

The combined use of 1,25(OH)2D3 and cisplatin may be used as a strategy to overcome resistance to cisplatin and dose limitations, and to improve the anticancer effects of chemotherapy.

Pubmed Data : Int J Mol Med. 2014 May ;33(5):1177-84. Epub 2014 Feb 24. PMID: 24573222

Article Published Date : Apr 30, 2014

Authors : Anyu Bao, Yan Li, Yongqing Tong, Hongyun Zheng, Wei Wu, Chuandong Wei

Study Type : In Vitro Study

Additional Links

Substances : Vitamin D : CK(3209) : AC(455)

Diseases : Gastric Cancer : CK(621) : AC(198)

Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Caspase-3 Activation : CK(91) : AC(66) , Cell cycle arrest : CK(810) : AC(612)

Additional Keywords : Chemotherapeutic Synergy: Cisplatin : CK(80) : AC(57)

Gastrointestinal Diseases (AC 1) (CK 1)

A remarkable preventive role of many vitamins like B6, B9, B12 and D on the risk of developing CRC was suggested by a large number of observational studies.

Pubmed Data : World J Gastroenterol. 2015 May 7 ;21(17):5191-5209. PMID: 25954093

Article Published Date : May 06, 2015

Authors : Omar A Masri, Jean M Chalhoub, Ala I Sharara

Study Type : Review
Additional Links
Substances : Folate : CK(169) : AC(25) , Vitamin B-12 : CK(780) : AC(104) , Vitamin B-6 : CK(435) : AC(54), Vitamin C : CK(1956) : AC(403) , Vitamin D : CK(3176) : AC(449) , Vitamin E : CK(1656) : AC(290)
Diseases : Celiac Disease : CK(1612) : AC(232) , Colorectal Cancer : CK(1635) : AC(611) , Colorectal Cancer: Prevention : CK(207) : AC(36), Gastrointestinal Diseases : CK(73) : AC(22)
Pharmacological Actions : Gastrointestinal Agents : CK(268) : AC(41)

Gaucher Disease (AC 1) (CK 10)

Patients with Gaucher disease living in England have a high frequency of vitamin D deficiency

Pubmed Data : Mol Genet Metab. 2009 Mar ;96(3):113-20. Epub 2009 Jan 14. PMID: 19147383

Article Published Date : Mar 01, 2009

Authors : P Mikosch, M Reed, H Stettner, R Baker, A B Mehta, D A Hughes

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Gaucher Disease : CK(10) : AC(1) , Osteopenia : CK(229) : AC(41) , Osteoporosis : CK(1283) : AC(245), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Bone Density : CK(10) : AC(1) , Lysosomal Storage Disorder : CK(10) : AC(1)

Gestational Diabetes (AC 3) (CK 30)

A D3-supplemented yogurt drink improves insulin resistance and lipid profiles in women with gestational diabetes mellitus.

Pubmed Data : Ann Nutr Metab. 2016 Jun 24 ;68(4):285-290. Epub 2016 Jun 24. PMID: 27336154

Article Published Date : Jun 23, 2016

Authors : Qin Li, Baoheng Xing

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449) , Yoghurt : CK(154) : AC(23)
Diseases : Gestational Diabetes : CK(76) : AC(10) , Insulin Resistance : CK(1683) : AC(346)
Pharmacological Actions : Hypolipidemic : CK(1229) : AC(256)

Maternal vitamin D deficiency in early pregnancy is significantly associated with an elevated risk for gestational diabetes mellitus.

Pubmed Data : PLoS One. 2008;3(11):e3753. Epub 2008 Nov 18. PMID: 19015731

Article Published Date : Jan 01, 2008

Authors : Cuilin Zhang, Chunfang Qiu, Frank B Hu, Robert M David, Rob M van Dam, Alexander Bralley, Michelle A Williams

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Gestational Diabetes : CK(76) : AC(10) , Prenatal Nutrition: Prevention of Problems : CK(367) : AC(42)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Six months supplementation with 4000 IU of vitamin D3 safely restored the vitamin D level, improved basal pancreatic beta-cell function and ameliorated the metabolic state.

Pubmed Data : PLoS One. 2015 ;10(6):e0129017. Epub 2015 Jun 9. PMID: **26057782**

Article Published Date : Dec 31, 2014

Authors : Toh Peng Yeow, Shueh Lin Lim, Chee Peng Hor, Amir S Khir, Wan Nazaimoon Wan Mohamud, Giovanni Pacini

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Gestational Diabetes : CK(76) : AC(10), Insulin Resistance : CK(1683) : AC(346), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Glioma (AC 1) (CK 1)

Vitamin D3 induces programmed cell death in a rat glioma cell line.

Pubmed Data : J Environ Pathol Toxicol Oncol. 2009;28(4):311-23. PMID: **8951666**

Article Published Date : Jan 01, 2009

Authors : C Baudet, G Chevalier, A Chassevent, C Canova, R Filmon, F Larra, P Brachet, D Wion

Study Type : In Vitro Study
Additional Links
Substances : Genistein : CK(515) : AC(228), Isoflavones : CK(631) : AC(129), Vitamin D : CK(3176) : AC(449)
Diseases : Glioma : CK(174) : AC(84)
Pharmacological Actions : Apoptotic : CK(2958) : AC(2075), Vascular Endothelial Growth Factor Regulator : CK(31) : AC(14)

Gonorrhea (AC 1) (CK 1)

Vitamin D and curcumin taken together may be useful in combating both normal and drug-resistant gonorrhea.

Pubmed Data : Med Hypotheses. 2013 Jul ;81(1):131-5. Epub 2013 Apr 30. PMID: **23642399**

Article Published Date : Jun 30, 2013

Authors : Dima A Youssef, Alan N Peiris, Jim L Kelley, William B Grant

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4135) : AC(2175) , Vitamin D : CK(3176) : AC(449)
Diseases : Gonorrhea : CK(3) : AC(2)
Pharmacological Actions : Antimicrobial : CK(293) : AC(128) , NF-kappaB Inhibitor : CK(1114) : AC(694), Transforming growth factor beta (TGF-β) inhibitor : CK(32) : AC(9)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247)

HIV Infections (AC 4) (CK 13)

This review details the association between vitamin D deficiency and common infections.

Pubmed Data : Can J Physiol Pharmacol. 2015 May ;93(5):363-8. Epub 2015 Jan 26. PMID: 25741906

Article Published Date : Apr 30, 2015

Authors : Richard R Watkins, Tracy L Lemonovich, Robert A Salata

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hepatitis C : CK(474) : AC(87) , HIV Infections : CK(659) : AC(216) , Influenza : CK(789) : AC(123), Pneumonia : CK(399) : AC(54) , Sepsis : CK(197) : AC(54) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(244) : AC(92), Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Anti-Bacterial Agents : CK(1367) : AC(475)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Vitamin D insufficiency or deficiency is highly prevalent among HIV-infected adults and is associated with known risk factors.

Pubmed Data : Clin Infect Dis. 2011 Feb 1 ;52(3):396-405. PMID: 21217186

Article Published Date : Feb 01, 2011

Authors : Christine N Dao, Pragna Patel, E Turner Overton, Frank Rhame, Sherri L Pals, Christopher Johnson, Timothy Bush, John T Brooks,

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : HIV Infections : CK(659) : AC(216) , Vitamin D Deficiency : CK(1695) : AC(178)

Vitamin D may be acting as a panaceal antibiotic agent and thus may be useful as an adjuvant therapy in diverse infections.

Pubmed Data : Ann N Y Acad Sci. 2014 May ;1317:76-83. Epub 2014 Mar 4. PMID: 24593793

Article Published Date : Apr 30, 2014

Authors : Elisabetta Borella, Gideon Nesher, Eitan Israeli, Yehuda Shoenfeld

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bacterial Vaginosis : CK(46) : AC(6) , Clostridium Infections : CK(233) : AC(45) , Dengue Fever : CK(2) : AC(2), Hepatitis B : CK(241) : AC(46), Hepatitis C : CK(474) : AC(87) , HIV Infections : CK(659) : AC(216), Influenza : CK(789) : AC(123) , Otitis media : CK(305) : AC(41) , Pneumonia : CK(399) : AC(54), Sepsis : CK(197) : AC(54) , Upper Respiratory Infections : CK(950) : AC(114) , Urinary Tract Infections : CK(397) : AC(57)
Pharmacological Actions : Anti-Bacterial Agents : CK(1367) : AC(475) , Anti-Infective Agents : CK(43) : AC(18)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Vitamin D3 inhibits TNFα-induced latent HIV reactivation in J-LAT cells.

Pubmed Data : Mol Cell Biochem. 2016 Jun 13. Epub 2016 Jun 13. PMID: 27295094

Article Published Date : Jun 12, 2016

Authors : G Nunnari, P Fagone, F Lazzara, A Longo, D Cambria, G Di Stefano, M Palumbo, L Malaguarnera, Michelino Di Rosa

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : HIV Infections : CK(659) : AC(216)
Pharmacological Actions : MicroRNA modulator : CK(262) : AC(144)

Hashimoto's thyroiditis (AC 3) (CK 30)

Vitamin D deficiency is associated with Hashimoto's thyroiditis in children and adolescents.

Pubmed Data : J Clin Res Pediatr Endocrinol. 2015 Jun 5 ;7(2):128-33. PMID: **26316435**

Article Published Date : Jun 04, 2015

Authors : Olcay Evliyaoğlu, Manolya Acar, Bahar Özcabı, Ethem Erginöz, Feride Bucak, Oya Ercan, Mine Kucur

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hashimoto's thyroiditis : CK(152) : AC(18) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303) , Risk Factors : CK(2597) : AC(334)

Vitamin D deficiency may be related to the pathogenesis of Hashimoto's thyroiditis and supplementation could contribute to its treatment.

Pubmed Data : Hell J Nucl Med. 2015 Sep-Dec;18(3):222-7. PMID: **26637501**

Article Published Date : Aug 31, 2015

Authors : Elias E Mazokopakis, Maria G Papadomanolaki, Konstantinos C Tsekouras, Athanasios D Evangelopoulos, Dimitrios A Kotsiris, Anastasios A Tzortzinis

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hashimoto's thyroiditis : CK(152) : AC(18) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Vitamin D insufficiency was associated with autoimmune thyroid disease and Hashimoto's thyroiditis.

Pubmed Data : Hormones (Athens). 2016 Jul 11. Epub 2016 Jul 11. PMID: **27394703**

Article Published Date : Jul 10, 2016

Authors : Dohee Kim

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hashimoto's thyroiditis : CK(152) : AC(18) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Increased Risk : CK(1450) : AC(181)

Head and Neck Cancer (AC 1) (CK 1)

Vitamin A and D have an anti-tumor effect against head and neck squamous cell carcinoma.

Pubmed Data : Auris Nasus Larynx. 2003 Dec;30(4):403-12. PMID: 14656567

Article Published Date : Dec 01, 2003

Authors : Kenichi Satake, Emi Takagi, Akiko Ishii, Yasumasa Kato, Yukari Imagawa, Yuu Kimura, Mamoru Tsukuda

Study Type : In Vitro Study
Additional Links
Substances : Vitamin A : CK(498) : AC(77) , Vitamin D : CK(3176) : AC(449)
Diseases : Head and Neck Cancer : CK(162) : AC(42) , Skin Cancer: Squamous Cell : CK(56) : AC(20)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639) , Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612) , Chemosensitizer : CK(394) : AC(286)
Additional Keywords : Drug: 5-flourouracil : CK(108) : AC(29)

Headache: Migraine (AC 1) (CK 10)

Vitamin D supplementation may be useful in decreasing frequency of headache attacks and HDR among patients with migraine.

Pubmed Data : J Res Med Sci. 2015 May ;20(5):477-82. PMID: 26487877

Article Published Date : Apr 30, 2015

Authors : Tayebeh Mottaghi, Gholamreza Askari, Fariborz Khorvash, Mohammad Reza Maracy

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Headache: Migraine : CK(651) : AC(76)

Heart Failure (AC 7) (CK 81)

"Vitamin D deficiency is a predictor of reduced survival in patients with heart failure; vitamin D supplementation improves outcome."

Pubmed Data : Eur J Heart Fail. 2012 Feb 3. Epub 2012 Feb 3. PMID: **22308011**

Article Published Date : Feb 03, 2012

Authors : Israel Gotsman, Ayelet Shauer, Donna R Zwas, Yaron Hellman, Andre Keren, Chaim Lotan, Dan Admon

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Congestive Heart Failure : CK(276) : AC(34) , Heart Failure : CK(918) : AC(124)

A low plasma vitamin D concentration was strongly associated with atrial fibrillation in patients with chronic heart failure.

Pubmed Data : Adv Clin Exp Med. 2016 Jul-Aug;25(1):51-7. PMID: **26935498**

Article Published Date : Jun 30, 2016

Authors : Erdal Belen, Ahmet C Aykan, Ezgi Kalaycioglu, Mustafa A Sungur, Aylin Sungur, Mustafa Cetin

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Atrial Fibrillation : CK(422) : AC(52) , Heart Failure : CK(918) : AC(124) , Vitamin D Deficiency : CK(1695) : AC(178)

Deficiencies and/or abberations in the levels of Ca(2+), Mg(2+), vitamin D, zinc and selenium appear to be an integral component of pathophysiologic expressions of CHF that contributes to its systemic and progressive nature.

Pubmed Data : Clin Med Res. 2007 Dec;5(4):238-43. PMID: **18367709**

Article Published Date : Dec 01, 2007

Authors : Shadwan Alsafwah, Stephen P Laguardia, Maximiliano Arroyo, Brian K Dockery, Syamal K Bhattacharya, Robert A Ahokas, Kevin P Newman

Study Type : Review
Additional Links
Substances : Calcium : CK(287) : AC(44) , Magnesium : CK(1516) : AC(193) , Selenium : CK(784) : AC(139), Vitamin D : CK(3176) : AC(449)

Diseases : Congestive Heart Failure : CK(276) : AC(34) , Heart Failure : CK(918) : AC(124)

Vitamin D deficiency is highly prevalent in US adults (especially African-Americans) with cardiovascular diseases, particularly coronary heart disease and heart failure.

Pubmed Data : Am J Cardiol. 2008 Dec 1;102(11):1540-4. Epub 2008 Sep 24. PMID: **19026311**

Article Published Date : Dec 01, 2008

Authors : Dae Hyun Kim, Siamak Sabour, Utpal N Sagar, Suzanne Adams, David J Whellan

Study Type : Human Study

Additional Links

Substances : Vitamin D : CK(3176) : AC(449)

Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Cardiovascular Diseases : CK(7176) : AC(907), Coronary Artery Disease : CK(1468) : AC(155) , Heart Failure : CK(918) : AC(124)

Vitamin D supplementation may decrease serum levels of parathyroid hormone and inflammatory mediators in patients with chronic heart failure.

Pubmed Data : Clin Cardiol. 2015 Sep 28. Epub 2015 Sep 28. PMID: **26415519**

Article Published Date : Sep 27, 2015

Authors : Wei-Long Jiang, Hai-Bo Gu, Yu-Feng Zhang, Qing-Qing Xia, Jia Qi, Jian-Chang Chen

Study Type : Meta Analysis

Additional Links

Substances : Vitamin D : CK(3176) : AC(449)

Diseases : C-Reactive Protein : CK(1630) : AC(172), Heart Failure : CK(918) : AC(124)

Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)

Additional Keywords : Parathyroid Hormone : CK(52) : AC(5)

Vitamin D supplementation might protect against cardiac failure in older people but does not appear to protect against MI or stroke.

Pubmed Data : Am J Clin Nutr. 2014 Sep ;100(3):746-55. Epub 2014 Jul 23. PMID: **25057156**

Article Published Date : Aug 31, 2014

Authors : John A Ford, Graeme S MacLennan, Alison Avenell, Mark Bolland, Andrew Grey, Miles Witham,

Study Type : Meta Analysis

Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Heart Failure : CK(918) : AC(124) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Cardiovascular Agents : CK(160) : AC(24)
Additional Keywords : Risk Reduction : CK(6366) : AC(681) , Significant Treatment Outcome : CK(3038) : AC(366)

Vitamin D(3) reduces the inflammatory milieu in congestive heart failure patients and might serve as a new antiinflammatory agent for the future treatment of the disease.

Pubmed Data : Am J Clin Nutr. 2006 Apr;83(4):754-9. PMID: **16600924**

Article Published Date : Apr 01, 2006

Authors : Stefanie S Schleithoff, Armin Zittermann, Gero Tenderich, Heiner K Berthold, Peter Stehle, Reiner Koerfer

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Congestive Heart Failure : CK(276) : AC(34) , Heart Failure : CK(918) : AC(124)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interleukin-10 upregulation : CK(105) : AC(24)

Hemodialysis (AC 2) (CK 20)

Vitamin D reduces mortality among patients undergoing hemodialysis.

Pubmed Data : Pharmacotherapy. 2009 Feb;29(2):154-64. PMID: **19170585**

Article Published Date : Feb 01, 2009

Authors : Wendy L St Peter, Shuling Li, Jiannong Liu, David T Gilbertson, Thomas J Arneson, Allan J Collins

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Hemodialysis : CK(453) : AC(48) , Kidney Failure : CK(321) : AC(45)

Vitamin D supplementation in dialysis patients might help prevent cardiovascular diseases.

Pubmed Data : Hemodial Int. 2016 Jun 29. Epub 2016 Jun 29. PMID: 27358162

Article Published Date : Jun 28, 2016

Authors : Yusuf Karakas, Garip Sahin, Furkan Ertürk Urfali, Cengiz Bal, Nevbahar Akcar Degirmenci, Basar Sirmagul

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiovascular Diseases : CK(7145) : AC(903) , Endothelial Dysfunction : CK(1176) : AC(232), Hemodialysis : CK(453) : AC(48)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Hepatitis B (AC 1) (CK 1)

Vitamin D may be acting as a panaceal antibiotic agent and thus may be useful as an adjuvant therapy in diverse infections.

Pubmed Data : Ann N Y Acad Sci. 2014 May ;1317:76-83. Epub 2014 Mar 4. PMID: 24593793

Article Published Date : Apr 30, 2014

Authors : Elisabetta Borella, Gideon Nesher, Eitan Israeli, Yehuda Shoenfeld

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bacterial Vaginosis : CK(46) : AC(6) , Clostridium Infections : CK(233) : AC(45) , Dengue Fever : CK(2) : AC(2), Hepatitis B : CK(241) : AC(46), Hepatitis C : CK(474) : AC(87) , HIV Infections : CK(659) : AC(216), Influenza : CK(789) : AC(123) , Otitis media : CK(305) : AC(41) , Pneumonia : CK(399) : AC(54), Sepsis : CK(197) : AC(54) , Upper Respiratory Infections : CK(950) : AC(114) , Urinary Tract Infections : CK(397) : AC(57)
Pharmacological Actions : Anti-Bacterial Agents : CK(1367) : AC(475) , Anti-Infective Agents : CK(43) : AC(18)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Hepatitis C (AC 6) (CK 8)

Beta-caotene, vitamin D, linoleic acid possesses anti-hepatitis C virus activity in vitro.

Pubmed Data : Antimicrob Agents Chemother. 2007 Jun;51(6):2016-27. Epub 2007 Apr 9. PMID: 17420205

Article Published Date : Jun 01, 2007

Authors : Masahiko Yano, Masanori Ikeda, Ken-Ichi Abe, Hiromichi Dansako, Shogo Ohkoshi, Yutaka Aoyagi, Nobuyuki Kato

Study Type : In Vitro Study
Additional Links
Substances : beta-Carotene : CK(318) : AC(53) , Linoleic acid : CK(12) : AC(3) , Vitamin D : CK(3209) : AC(455)
Diseases : Hepatitis C : CK(474) : AC(87)

Calcitriol potentiates the anti-HCV effect of miR-130a in both Con1b replicon and J6/JFH1 culture systems.

Pubmed Data : Mediators Inflamm. 2015 ;2015:508989. Epub 2015 Apr 28. PMID: 26060358

Article Published Date : Dec 31, 2014

Authors : Xiaoqiong Duan, Yujuan Guan, Yujia Li, Shan Chen, Shilin Li, Limin Chen

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hepatitis C : CK(474) : AC(87)
Pharmacological Actions : Antiviral Agents : CK(938) : AC(433) , MicroRNA modulator : CK(260) : AC(142)

This review details the association between vitamin D deficiency and common infections.

Pubmed Data : Can J Physiol Pharmacol. 2015 May ;93(5):363-8. Epub 2015 Jan 26. PMID: 25741906

Article Published Date : Apr 30, 2015

Authors : Richard R Watkins, Tracy L Lemonovich, Robert A Salata

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hepatitis C : CK(474) : AC(87) , HIV Infections : CK(659) : AC(216) , Influenza : CK(789) : AC(123), Pneumonia : CK(399) : AC(54) , Sepsis : CK(197) : AC(54) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(244) : AC(92), Vitamin D Deficiency : CK(1695) : AC(178)

Pharmacological Actions : Anti-Bacterial Agents : CK(1367) : AC(475)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Vitamin D may be acting as a panaceal antibiotic agent and thus may be useful as an adjuvant therapy in diverse infections.

Pubmed Data : Ann N Y Acad Sci. 2014 May ;1317:76-83. Epub 2014 Mar 4. PMID: **24593793**

Article Published Date : Apr 30, 2014

Authors : Elisabetta Borella, Gideon Nesher, Eitan Israeli, Yehuda Shoenfeld

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bacterial Vaginosis : CK(46) : AC(6) , Clostridium Infections : CK(233) : AC(45) , Dengue Fever : CK(2) : AC(2), Hepatitis B : CK(241) : AC(46), Hepatitis C : CK(474) : AC(87) , HIV Infections : CK(659) : AC(216), Influenza : CK(789) : AC(123) , Otitis media : CK(305) : AC(41) , Pneumonia : CK(399) : AC(54), Sepsis : CK(197) : AC(54) , Upper Respiratory Infections : CK(950) : AC(114) , Urinary Tract Infections : CK(397) : AC(57)
Pharmacological Actions : Anti-Bacterial Agents : CK(1367) : AC(475) , Anti-Infective Agents : CK(43) : AC(18)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Vitamin D metabolites all possess modest to strong anti-hepatitis C virus activity.

Pubmed Data : J Virol Antivir Res. 2014 Oct 6 ;3(3). PMID: **26594646**

Article Published Date : Oct 05, 2014

Authors : Julio A Gutierrez, Krysten A Jones, Roxana Flores, Akul Singhania, Christopher H Woelk, Robert T Schooley, David L Wyles

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hepatitis C : CK(474) : AC(87)
Pharmacological Actions : Antiviral Agents : CK(938) : AC(433)
Additional Keywords : Gene Expression Regulation : CK(427) : AC(212) , Metabolites : CK(64) : AC(20)

Vitamin D-enriched Shiitake mushroom exerts a synergistic anti-inflammatory effect in an immune-mediated hepatitis model.

Pubmed Data : J Med Food. 2016 Mar 30. Epub 2016 Mar 30. PMID: **27027234**

Article Published Date : Mar 29, 2016

Authors : Ariel Drori, Yehudit Shabat, Ami Ben Ya'acov, Ofer Danay, Dan Levanon, Lidya Zolotarov, Yaron Ilan

Study Type : Animal Study
Additional Links
Substances : Shiitake Mushroom : CK(43) : AC(22), Vitamin D : CK(3176) : AC(449)
Diseases : Chemically-Induced Liver Damage : CK(634) : AC(255) , Hepatitis C : CK(474) : AC(87) , Liver Disease : CK(135) : AC(40)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Hepatoprotective : CK(1383) : AC(592)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247) , Plant Extracts : CK(7483) : AC(2462)
Problem Substances : Concanavalin A : CK(25) : AC(10)

Herpes Zoster (AC 1) (CK 1)

Vitamin D acts as an effect modifier for the entire herpes zoster spectrum with regard to disease susceptibility, manifestation, efficacy of pharmacologic management.

Pubmed Data : Med Hypotheses. 2015 Jul 2. Epub 2015 Jul 2. PMID: **26163058**

Article Published Date : Jul 01, 2015

Authors : Chia-Ter Chao, Chih-Kang Chiang, Jenq-Wen Huang, Kuan-Yu Hung

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Herpes Zoster : CK(473) : AC(36) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Immunomodulatory : CK(1286) : AC(357)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18) , Risk Reduction : CK(6366) : AC(681)

High Fat Diet (AC 1) (CK 2)

Mice consuming a high-fat diet treated with cholecalciferol had lower body weight and adipose tissue

weight.

Pubmed Data : J Biomed Sci. 2016 ;23(1):56. Epub 2016 Jul 29. PMID: 27473111

Article Published Date : Dec 31, 2015

Authors : Yue Fan, Kumi Futawaka, Rie Koyama, Yuki Fukuda, Misa Hayashi, Miyuki Imamoto, Takashi Miyawaki, Masato Kasahara, Tetsuya Tagami, Kenji Moriyama

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : High Fat Diet : CK(190) : AC(92) , Obesity : CK(2206) : AC(465) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Anti-Obesity Agents : CK(486) : AC(107)

High Homocysteine (AC 1) (CK 10)

Temporal improvements in vitamin D status reduce serum homocysteine concentrations.

Pubmed Data : PLoS One. 2016 ;11(8):e0161368. Epub 2016 Aug 22. PMID: 27548258

Article Published Date : Dec 31, 2015

Authors : Truong-Minh Pham, John Paul Ekwaru, Silmara S Mastroeni, Marco F Mastroeni, Sarah A Loehr, Paul J Veugelers

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiovascular Diseases : CK(7176) : AC(907) , High Homocysteine : CK(443) : AC(65)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Hip Fracture (AC 3) (CK 31)

Assessing optimal dietary intake of vitamin D for reducing fracture risk

Pubmed Data : Calcif Tissue Int. 2012 May 17. Epub 2012 May 17. PMID: 22592290

Article Published Date : May 16, 2012

Authors : Bess Dawson-Hughes

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Bone Fractures : CK(514) : AC(78) , Hip Fracture : CK(188) : AC(23)
Additional Keywords : Vitamin D Dosage : CK(11) : AC(2)

Levels of menaquinone-7 and vitamin D are lower in those wtih hip fracture, indicating they may have a role in fracture prevention.

Pubmed Data : Asia Pac J Clin Nutr. 2011;20(1):56-61. PMID: **21393111**

Article Published Date : Jan 01, 2011

Authors : Tetsuo Nakano, Naoko Tsugawa, Akiko Kuwabara, Maya Kamao, Kiyoshi Tanaka, Toshio Okano

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455) , Vitamin K2: Menaquinone-7 : CK(108) : AC(16)
Diseases : Hip Fracture : CK(188) : AC(23)

Vitamin D supplementation between 700 to 800 IU/d appears to reduce the risk of hip and any nonvertebral fractures in ambulatory or institutionalized elderly persons.

Pubmed Data : JAMA. 2005 May 11;293(18):2257-64. PMID: **15886381**

Article Published Date : May 11, 2005

Authors : Heike A Bischoff-Ferrari, Walter C Willett, John B Wong, Edward Giovannucci, Thomas Dietrich, Bess Dawson-Hughes

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Bone Fractures : CK(514) : AC(78) , Hip Fracture : CK(188) : AC(23)

Hispanic-American Specific

Deficiencies/Diseases (AC 3) (CK 30)

Vitamin D deficiency is omnipresent in non-Hispanic black and Hispanic children.

Pubmed Data : Pediatrics. 2009 Nov;124(5):1404-10. PMID: **19951983**

Article Published Date : Nov 01, 2009

Authors : Jonathan M Mansbach, Adit A Ginde, Carlos A Camargo

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Hispanic-American Specific Defiencies/Diseases : CK(30) : AC(3)

Vitamin D levels are inversely associated with adiposity in Hispanics and African Americans.

Pubmed Data : Anticancer Res. 2005 Mar-Apr;25(2A):971-9. PMID: **19549738**

Article Published Date : Mar 01, 2005

Authors : Kendra A Young, Corinne D Engelman, Carl D Langefeld, Kristen G Hairston, Steven M Haffner, Michael Bryer-Ash, Jill M Norris

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Hispanic-American Specific Defiencies/Diseases : CK(30) : AC(3), Obesity : CK(2208) : AC(467) , Obesity: Abdominal : CK(458) : AC(66)

Vitamin D levels are significantly inversely associated with blood pressure in Hispanic and African-Americans.

Pubmed Data : Am J Hypertens. 2009 Aug;22(8):867-70. Epub 2009 May 14. PMID: **19444222**

Article Published Date : Aug 01, 2009

Authors : Kimberly J Schmitz, Halcyon G Skinner, Leonelo E Bautista, Tasha E Fingerlin, Carl D Langefeld, Pamela J Hicks, Steven M Haffner, Michael Bryer-Ash, Lynne E Wagenknecht, Donald W Bowden, Jill M Norris, Corinne D Engelman

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Hispanic-American Specific Defiencies/Diseases : CK(30) : AC(3), Hypertension : CK(2984) : AC(406)

Hodgkin Lymphoma (AC 1) (CK 20)

Review: there is a consistently strong inverse correlations with solar UVB for 15 types of cancers.

Pubmed Data : Anticancer Res. 2012 Jan ;32(1):223-36. PMID: 22213311

Article Published Date : Jan 01, 2012

Authors : William B Grant

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bladder Cancer : CK(349) : AC(100), Breast Cancer : CK(3526) : AC(1059), Cervical Cancer : CK(345) : AC(144), Colon Cancer : CK(749) : AC(430), Colorectal Cancer : CK(1635) : AC(611), Endometrial Cancer : CK(307) : AC(53), Esophageal Cancer : CK(506) : AC(85), Hodgkin Lymphoma : CK(53) : AC(7), Lung Cancer : CK(1033) : AC(393), Non-Hodgkin Lymphoma : CK(363) : AC(79), Ovarian Cancer : CK(360) : AC(128), Pancreatic Cancer : CK(889) : AC(260), Renal Cancer : CK(25) : AC(4), Vulvar Cancer : CK(52) : AC(4)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)
Pharmacological Actions : Chemopreventive : CK(2831) : AC(784)

Human Influenza (AC 2) (CK 11)

There is indication that solar ultraviolet-B radiation and vitamin D levels were significant contributing factors in reducing case-fatality rates from the 1918-1919 influenza pandemic in the Unites States.

Pubmed Data : Dermatoendocrinol. 2009 Jul;1(4):215-9. PMID: 20592793

Article Published Date : Jul 01, 2009

Authors : William B Grant, Edward Giovannucci

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Human Influenza : CK(178) : AC(46), Influenza: 1918-1919 Pandemic : CK(10) : AC(1)

Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)

Vitamin D deficiency is associated with susceptibility to influenza.

Pubmed Data : Epidemiol Infect. 2006 Dec;134(6):1129-40. Epub 2006 Sep 7. PMID: **16959053**

Article Published Date : Dec 01, 2006

Authors : J J Cannell, R Vieth, J C Umhau, M F Holick, W B Grant, S Madronich, C F Garland, E Giovannucci

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Human Influenza : CK(178) : AC(46) , Influenza : CK(789) : AC(123) , Influenza A : CK(387) : AC(101)

Human Papillomavirus (HPV) (AC 1) (CK 10)

Antibody titers for all HPV strains were significantly higher among those with lower vitamin D levels and among younger participants.

Pubmed Data : Hum Vaccin Immunother. 2015 Jul 15:0. Epub 2015 Jul 15. PMID: **26176493**

Article Published Date : Jul 14, 2015

Authors : Richard K Zimmerman, Chyongchiou Jeng Lin, Jonathan M Raviotta, Mary Patricia Nowalk

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Human Papillomavirus (HPV) : CK(212) : AC(35) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Immunomodulatory : CK(1287) : AC(358)
Additional Keywords : Antibody Titers : CK(13) : AC(2) , Vaccine Efficacy : CK(10) : AC(1)
Anti Therapeutic Actions : Vaccination: HPV (Gardisil) : CK(142) : AC(19)

Hypercalcemia (AC 2) (CK 11)

Hypercalcemia can be associated with excessively high doses of vitamin D.

Pubmed Data : J Trop Pediatr. 2009 Dec;55(6):396-8. Epub 2009 Apr 1. PMID: 19339514

Article Published Date : Dec 01, 2009

Authors : Rajesh Joshi

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Hypercalcemia : CK(13) : AC(3)

Vitamin D, unopposed by sufficient vitamin K (and possibly vitamin A), may cause hypercalcemia and other metabolic imbalances.

Pubmed Data : Med Hypotheses. 2007;68(5):1026-34. Epub 2006 Dec 4. PMID: 17145139

Article Published Date : Jan 01, 2007

Authors : Christopher Masterjohn

Study Type : Commentary
Additional Links
Substances : Vitamin A : CK(498) : AC(77) , Vitamin D : CK(3209) : AC(455) , Vitamin K : CK(645) : AC(85), Vitamin K2: Menaquinone-7 : CK(108) : AC(16)
Diseases : Hypercalcemia : CK(13) : AC(3)
Additional Keywords : Nutrient Interdependence : CK(1) : AC(1)

Hyperglycemia (AC 2) (CK 11)

The role of some natural Nrf2 activators and its effect in diabetes is discussed in this review.

Pubmed Data : Clin Chim Acta. 2015 Jul 9. Epub 2015 Jul 9. PMID: 26165427

Article Published Date : Jul 08, 2015

Authors : Angélica Saraí Jiménez-Osorio, Susana González-Reyes, José Pedraza-Chaverri

Study Type : Review
Additional Links
Substances : Curcumin : CK(4135) : AC(2175) , Resveratrol : CK(1245) : AC(746) , Sulforaphane : CK(533) : AC(262), Vitamin D : CK(3176) : AC(449)
Diseases : Diabetes Mellitus: Type 1: Prevention : CK(255) : AC(50) , Diabetes Mellitus: Type 2 : CK(3384) : AC(595), Hyperglycemia : CK(539) : AC(130) , Prediabetes : CK(150) : AC(17)
Pharmacological Actions : Antioxidants : CK(7304) : AC(2677) , Nrf2 activation : CK(175) : AC(85)

Vitamin D supplementation showed a positive effect on plasma adiponectin levels.

Pubmed Data : Int J Clin Pract. 2016 Apr 19. Epub 2016 Apr 19. PMID: **27091752**

Article Published Date : Apr 18, 2016

Authors : N Alizadeh, H Khalili, M Mohammadi, A Abdollahi, S Ala

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Hyperglycemia : CK(539) : AC(130)
Pharmacological Actions : Adiponectin upregulation : CK(51) : AC(11)

Hyperoxia (AC 1) (CK 2)

Vitamin D seems to protect against hyperoxia-induced lung injury in newborn rats.

Pubmed Data : Pediatr Pulmonol. 2016 Jun 13. Epub 2016 Jun 13. PMID: **27291304**

Article Published Date : Jun 12, 2016

Authors : Mehmet Kose, Osman Bastug, Mehmet Fatih Sonmez, Sedat Per, Ahmet Ozdemir, Emin Kaymak, Hande Yahşi, Mehmet Adnan Ozturk

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Hyperoxia : CK(14) : AC(3)
Pharmacological Actions : Anti-Apoptotic : CK(384) : AC(212)

Hyperparathyroidism (AC 3) (CK 30)

Obese Black Americans are at particularly high risk for vitamin D deficiency and secondary hyperparathyroidism.

Pubmed Data : Clin Endocrinol (Oxf). 2006 May;64(5):523-9. PMID: 16649971

Article Published Date : May 01, 2006

Authors : Lisa B Yanoff, Shamik J Parikh, Amanda Spitalnik, Blakeley Denkinger, Nancy G Sebring, Pamela Slaughter, Theresa McHugh, Alan T Remaley, Jack A Yanovski

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Hyperparathyroidism : CK(30) : AC(2) , Obesity : CK(2208) : AC(467) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

This study shows that there could be an association between hyperparathyroidism and 25-OHD levels.

Pubmed Data : Ulster Med J. 2015 Jan ;84(1):26-9. PMID: 25964700

Article Published Date : Dec 31, 2014

Authors : Mir Sadat-Ali, Abdullah S Al-Omran, Haifa A Al-Turki

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hyperparathyroidism : CK(30) : AC(2), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Up to 96% of morbidly obese patients before bariatric surgery have vitamin D deficiency and 44% have secondary hyperparathyroidism.

Pubmed Data : Obes Surg. 2011 Jan 14. Epub 2011 Jan 14. PMID: 21234699

Article Published Date : Jan 14, 2011

Authors : Roxane Ducloux, Estelle Nobécourt, Jean-Marc Chevallier, Hervé Ducloux, Negib Elian, Jean-Jacques Altman

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hyperparathyroidism : CK(30) : AC(2), Obesity : CK(2208) : AC(467) , Vitamin D Deficiency : CK(1695) : AC(178)

Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Hypertension (AC 9) (CK 92)

Blood 25-hydroxyvitamin D concentration is inversely associated with hypertension.

Pubmed Data : J Hypertens. 2011 Apr;29(4):636-45. PMID: 21191311

Article Published Date : Apr 01, 2011

Authors : Ann Burgaz, Nicola Orsini, Susanna C Larsson, Alicja Wolk

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hypertension : CK(2984) : AC(406)

Both high and low concentrations of plasma 25(OH)D are associated with elevated risks of overall and cancer mortality. Low concentrations are associated with cardiovascular mortality.

Pubmed Data : Am J Clin Nutr. 2010 Oct;92(4):841-8. Epub 2010 Aug 18. PMID: 20720256

Article Published Date : Oct 01, 2010

Authors : Karl Michaëlsson, John A Baron, Greta Snellman, Rolf Gedeborg, Liisa Byberg, Johan Sundström, Lars Berglund, Johan Arnlöv, Per Hellman, Rune Blomhoff, Alicja Wolk, Hans Garmo, Lars Holmberg, Håkan Melhus

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiac Mortality : CK(947) : AC(86), Cardiovascular Diseases : CK(7145) : AC(903) , Elderly: Age Specific Diseases : CK(442) : AC(38) , Hypertension : CK(2984) : AC(406) , Mortality: All-Cause : CK(713) : AC(63)
Additional Keywords : Too Much Vitamin D : CK(10) : AC(1)

Plasma vitamin D levels are inversely and independently associated with the risk of developing hypertension in young women.

Pubmed Data : Hypertension. 2008 Nov;52(5):828-32. Epub 2008 Oct 6. PMID: **18838623**

Article Published Date : Nov 01, 2008

Authors : John P Forman, Gary C Curhan, Eric N Taylor

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hypertension : CK(2984) : AC(406)
Additional Keywords : Risk Reduction : CK(6346) : AC(680)

Vitamin D deficiency may contribute to arterial hypertension.

Pubmed Data : Expert Rev Cardiovasc Ther. 2010 Nov;8(11):1599-608. PMID: **21090935**

Article Published Date : Nov 01, 2010

Authors : Stefan Pilz, Andreas Tomaschitz

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hypertension : CK(2984) : AC(406) , Hypertension: Arterial : CK(1) : AC(1)

Vitamin D deficiency may contribute to the development of arterial hypertension.

Pubmed Data : Nat Rev Cardiol. 2009 Oct;6(10):621-30. Epub 2009 Aug 18. PMID: **19687790**

Article Published Date : Oct 01, 2009

Authors : Stefan Pilz, Andreas Tomaschitz, Eberhard Ritz, Thomas R Pieber

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hypertension : CK(2984) : AC(406)
Pharmacological Actions : Antihypertensive Agents : CK(1147) : AC(161)

Vitamin D levels are significantly inversely associated with blood pressure in Hispanic and African-Americans.

Pubmed Data : Am J Hypertens. 2009 Aug;22(8):867-70. Epub 2009 May 14. PMID: **19444222**

Article Published Date : Aug 01, 2009

Authors : Kimberly J Schmitz, Halcyon G Skinner, Leonelo E Bautista, Tasha E Fingerlin, Carl D Langefeld, Pamela J Hicks, Steven M Haffner, Michael Bryer-Ash, Lynne E Wagenknecht, Donald W Bowden, Jill M Norris, Corinne D Engelman

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)

Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Hispanic-American Specific Defiencies/Diseases : CK(30) : AC(3), Hypertension : CK(2984) : AC(406)

Vitamin D supplementation in obese hypertensive patients with low 25-hydroxyvitamin D reduces HbA1c.

Pubmed Data : Diabetes Obes Metab. 2016 Jun 23. Epub 2016 Jun 23. PMID: **27334070**

Article Published Date : Jun 22, 2016

Authors : Martin R Grübler, Martin Gaksch, Katharina Kienreich, Nicolas Verheyen, Johannes Schmid, Bríain Ó Hartaigh, Georg Richtig, Hubert Scharnagl, Andreas Meinitzer, Astrid Fahrleitner-Pammer, Winfried März, Andreas Tomaschitz, Stefan Pilz

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hypertension : CK(2984) : AC(406) , Vitamin D Deficiency : CK(1695) : AC(178)

Vitamin D supplementation may reduce systolic blood pressure.

Pubmed Data : South Med J. 2010 Aug;103(8):729-37. PMID: **20622727**

Article Published Date : Aug 01, 2010

Authors : Sheng Hui Wu, Suzanne C Ho, Liu Zhong

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hypertension : CK(2984) : AC(406)

Vitamin d supplementation has a therapeutic role in the treatment of hypertension.

Pubmed Data : Indian J Clin Biochem. 2011 Jan ;26(1):88-90. Epub 2010 Dec 29. PMID: **22211023**

Article Published Date : Jan 01, 2011

Authors : R K Goel, Harbans Lal

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hypertension : CK(2984) : AC(406)

Hypertension: Arterial (AC 1) (CK 1)

Vitamin D deficiency may contribute to arterial hypertension.

Pubmed Data : Expert Rev Cardiovasc Ther. 2010 Nov;8(11):1599-608. PMID: 21090935

Article Published Date : Nov 01, 2010

Authors : Stefan Pilz, Andreas Tomaschitz

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hypertension : CK(2984) : AC(406) , Hypertension: Arterial : CK(1) : AC(1)

Hyperuricemia (AC 1) (CK 10)

The relationship between elevated serum uric acid and low-grade inflammation is mediated by the PTH:25(OH)D ratio in obese adolescents.

Pubmed Data : Metab Syndr Relat Disord. 2016 Jan 29. Epub 2016 Jan 29. PMID: 26824485

Article Published Date : Jan 28, 2016

Authors : Ramin Alemzadeh, Jessica Kichler

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : C-Reactive Protein : CK(1630) : AC(172) , Hyperuricemia : CK(217) : AC(48) , Inflammation : CK(2923) : AC(860), Metabolic Syndrome X : CK(916) : AC(158) , Obesity : CK(2206) : AC(465) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Parathyroid Hormone : CK(52) : AC(5)

Immune Disorders: Low Immune Function (AC 1) (CK 1)

Vitamin D stimulates antimicrobial peptide production which enhances innate immunity.

Pubmed Data : FASEB J. 2005 Jul;19(9):1067-77. PMID: **15985530**

Article Published Date : Jul 01, 2005

Authors : Adrian F Gombart, Niels Borregaard, H Phillip Koeffler

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Immune Disorders: Low Immune Function : CK(489) : AC(118)

Infant Infections (AC 1) (CK 10)

Cord-blood levels of 25(OH)D has an inverse associations with risk of respiratory infection and childhood wheezing.

Pubmed Data : Pediatrics. 2010 Dec 27. Epub 2010 Dec 27. PMID: **21187313**

Article Published Date : Dec 27, 2010

Authors : Carlos A Camargo, Tristram Ingham, Kristin Wickens, Ravi Thadhani, Karen M Silvers, Michael J Epton, G Ian Town, Philip K Pattemore, Janice A Espinola, Julian Crane,

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Infant Infections : CK(410) : AC(44) , Prenatal Nutrition: Prevention of Problems : CK(367) : AC(42), Respiratory Infections: Infants & Children : CK(90) : AC(9)

Infant Nutrition (AC 5) (CK 32)

Breastfed infants in winter who did not receive vitamin D supplementation were the most severely vitamin D deficient (78%).

Pubmed Data : Arch Pediatr Adolesc Med. 2008 Jun;162(6):513-9. PMID: 18524740

Article Published Date : Jun 01, 2008

Authors : Alisha J Rovner, Kimberly O O'Brien

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Breastfeeding: Nutritional Deficiencies : CK(47) : AC(6) , Infant Nutrition : CK(90) : AC(14) , Lactation Disorders : CK(142) : AC(18) , Prenatal Nutrition: Health of the Offspring : CK(246) : AC(35) , Vitamin D Deficiency : CK(1695) : AC(178)

Maternal and infant vitamin D supplementation significantly decreases vitamin D deficiency in breastfed infants.

Pubmed Data : Matern Child Nutr. 2009 Jan;5(1):25-32. PMID: 19161542

Article Published Date : Jan 01, 2009

Authors : Hussein F Saadi, Adekunle Dawodu, Bachar Afandi, Reem Zayed, Sheela Benedict, Nicolaas Nagelkerke, Bruce W Hollis

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Infant Nutrition : CK(90) : AC(14) , Prenatal Nutrition: Prevention of Problems : CK(367) : AC(42)

Vitamin D intake in infancy reduces the risk of pre-eclampsia much later in life.

Pubmed Data : Eur J Clin Nutr. 2007 Sep;61(9):1136-9. Epub 2007 Jan 31. PMID: 17268418

Article Published Date : Sep 01, 2007

Authors : E Hyppönen, A-L Hartikainen, U Sovio, M-R Järvelin, A Pouta

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Infant Nutrition : CK(90) : AC(14) , Pre-Eclampsia : CK(299) : AC(33)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Vitamin D supplementation administered during pregnancy and childhood may prevent multiple sclerosis.

Pubmed Data : JAMA. 2002 Nov 27;288(20):2554-60. PMID: **15617877**

Article Published Date : Nov 27, 2002

Authors : Abhijit Chaudhuri

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Childhood Deficiencies : CK(41) : AC(4), Infant Nutrition : CK(90) : AC(14) , Multiple Sclerosis : CK(964) : AC(184), Prenatal Nutrition: Health of the Offspring : CK(246) : AC(35)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Vitamin D supplementation improves bone mineral density in breast-fed infants.

Pubmed Data : Eur J Clin Nutr. 2011 Jan 12. Epub 2011 Jan 12. PMID: **21224865**

Article Published Date : Jan 12, 2011

Authors : F Savino, S Viola, V Tarasco, M M Lupica, E Castagno, R Oggero, R Miniero

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Breastfeeding: Nutritional Deficiencies : CK(47) : AC(6) , Infant Nutrition : CK(90) : AC(14)

Infection: In Infants & Children (AC 1) (CK 1)

Vitamin D supplementation may improve immune function and prevent infections in children.

Pubmed Data : Pediatr Res. 2009 Jan 28. PMID: **19190532**

Article Published Date : Jan 28, 2009

Authors : Valencia P Walker, Robert L Modlin

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)

Diseases : Infection: In Infants & Children : CK(101) : AC(10)

Infertility (AC 1) (CK 2)

Vitamin D and Ajuga iva have an inhibitory effect on oxidative stress, toxicity and hypo-fertility in diabetic rat testes.

Pubmed Data : J Physiol Biochem. 2008 Sep;64(3):231-9. PMID: **19244937**

Article Published Date : Sep 01, 2008

Authors : K Hamden, S Carreau, K Jamoussi, F Ayadi, F Garmazi, N Mezgenni, A Elfeki

Study Type : Animal Study
Additional Links
Substances : Ajuga : CK(3) : AC(2), Vitamin D : CK(3176) : AC(449)
Diseases : Diabetes: Reproductive : CK(2) : AC(1), Infertility : CK(728) : AC(152)
Pharmacological Actions : Antioxidants : CK(7331) : AC(2682)
Additional Keywords : Plant Extracts : CK(7483) : AC(2462)

Infertility: Female (AC 1) (CK 10)

Vitamin D status is associated with specific causes of infertility and individual anthropometric characteristics.

Pubmed Data : Nutrients. 2015 ;7(12):9972-84. Epub 2015 Dec 2. PMID: **26633484**

Article Published Date : Dec 31, 2014

Authors : Luca Pagliardini, Paola Vigano', Michela Molgora, Paola Persico, Andrea Salonia, Simona Helda Vailati, Alessio Paffoni, Edgardo Somigliana, Enrico Papaleo, Massimo Candiani

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Infertility: Female : CK(280) : AC(50), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Supplementation : CK(413) : AC(60)

Inflammation (AC 12) (CK 70)

A review of the potential use of vitamin D for protection and treatment of IBD and colon cancer.

Pubmed Data : World J Gastroenterol. 2016 Jan 21 ;22(3):933-48. PMID: **26811638**

Article Published Date : Jan 20, 2016

Authors : Stacey Meeker, Audrey Seamons, Lillian Maggio-Price, Jisun Paik

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Colon Cancer : CK(749) : AC(430) , Inflammation : CK(2918) : AC(856) , Inflammatory Bowel Diseases : CK(1003) : AC(189), Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Chemopreventive : CK(2831) : AC(784)

Co-treatment with silibinin plus 1,25D decreased proliferation and migration at doses where silibinin alone had no effect.

Pubmed Data : Cancer Lett. 2015 Jul 1 ;362(2):199-207. Epub 2015 Apr 3. PMID: **25846868**

Article Published Date : Jun 30, 2015

Authors : Vandanajay Bhatia, Miriam Falzon

Study Type : In Vitro Study
Additional Links
Substances : Silibinin : CK(117) : AC(56) , Vitamin D : CK(3176) : AC(449)
Diseases : Colon Cancer : CK(749) : AC(430) , Inflammation : CK(2918) : AC(856)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616) , Anti-metastatic : CK(615) : AC(412), Antiproliferative : CK(2479) : AC(1685), Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)
Additional Keywords : Drug Synergy : CK(351) : AC(156)

Dietary factors modify miRNA expression and their mRNA targets in various cancer processes.

Pubmed Data : Adv Nutr. 2011 Nov ;2(6):472-85. Epub 2011 Nov 3. PMID: **22332090**

Article Published Date : Oct 31, 2011

Authors : Sharon A Ross, Cindy D Davis

Study Type : Review

Additional Links
Substances : Curcumin : CK(4135) : AC(2175) , EGCG (Epigallocatechin gallate) : CK(609) : AC(314) , Fiber : CK(808) : AC(103) , Folate : CK(169) : AC(25) , Genistein : CK(515) : AC(228) , Resveratrol : CK(1245) : AC(746), Selenium : CK(784) : AC(139) , Vitamin A : CK(498) : AC(77) , Vitamin D : CK(3176) : AC(449), Vitamin E : CK(1656) : AC(290)
Diseases : Cancers: All : CK(14500) : AC(4586) , Inflammation : CK(2918) : AC(856)
Pharmacological Actions : Angiogenesis Inhibitors : CK(114) : AC(62) , Anti-metastatic : CK(615) : AC(412), Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612), Chemopreventive : CK(2831) : AC(784) , MicroRNA modulator : CK(260) : AC(142)
Additional Keywords : Dietary Concentrations : CK(95) : AC(23) , Plant Extracts : CK(7483) : AC(2462)

Individuals with untreated celiac disease may have reduced bone mineral density associated with deficiencies of nutrients.

Pubmed Data : Nutr Rev. 2009 Oct;67(10):599-606. PMID: **19785691**

Article Published Date : Oct 01, 2009

Authors : Vanessa D Capriles, Ligia A Martini, José Alfredo G Arêas

Study Type : Review
Additional Links
Substances : Calcium : CK(287) : AC(44) , Vitamin D : CK(3176) : AC(449)
Diseases : Celiac Disease : CK(1612) : AC(232) , Celiac Disease: In Children and Adolescents : CK(32) : AC(5), Celiac Disease: Refractory : CK(11) : AC(3) , Inflammation : CK(2923) : AC(860) , Osteoporosis : CK(1282) : AC(244), Osteoporosis: In Children & Adolescents : CK(2) : AC(2)
Therapeutic Actions : Dietary Modification: Wheat/Gluten Free : CK(293) : AC(46)

Serum 25-hydroxyvitamin D concentration is inversely associated with mucosal inflammation in patients with ulcerative colitis.

Pubmed Data : Am J Clin Nutr. 2016 Jun 8. Epub 2016 Jun 8. PMID: **27281309**

Article Published Date : Jun 07, 2016

Authors : Katherine Meckel, Yan Chun Li, John Lim, Masha Kocherginsky, Chris Weber, Anas Almoghrabi, Xindi Chen, Austin Kaboff, Farhana Sadiq, Stephen B Hanauer, Russell D Cohen, John Kwon, David T Rubin, Ira Hanan, Atsushi Sakuraba, Eugene Yen, Marc Bissonnette, Joel Pekow

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Inflammation : CK(2923) : AC(860) , Ulcerative Colitis : CK(295) : AC(59) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616)
Additional Keywords : Risk Factors : CK(2584) : AC(332) , Risk Reduction : CK(6346) : AC(680)

The relationship between elevated serum uric acid and low-grade inflammation is mediated by the PTH:25(OH)D ratio in obese adolescents.

Pubmed Data : Metab Syndr Relat Disord. 2016 Jan 29. Epub 2016 Jan 29. PMID: **26824485**

Article Published Date : Jan 28, 2016

Authors : Ramin Alemzadeh, Jessica Kichler

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : C-Reactive Protein : CK(1630) : AC(172), Hyperuricemia : CK(217) : AC(48), Inflammation : CK(2923) : AC(860), Metabolic Syndrome X : CK(916) : AC(158), Obesity : CK(2206) : AC(465), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Parathyroid Hormone : CK(52) : AC(5)

There was an inverse correlation between 25(OH) vitamin D and C-reactive protein, and this was more pronounced in patients with inflammatory diseases.

Pubmed Data : Clin Biochem. 2016 Jan 8. Epub 2016 Jan 8. PMID: **26778547**

Article Published Date : Jan 07, 2016

Authors : Adrian Kruit, Pieter Zanen

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : C-Reactive Protein : CK(1630) : AC(172), Inflammation : CK(2923) : AC(860), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Supplementation : CK(413) : AC(60)

This study found that inflammation was above the current clinical reference range in all sleep duration categories, whereas oxidative stress was elevated among short and very short sleepers.

Pubmed Data : Sleep. 2015 Jul 24. Epub 2015 Jul 24. PMID: **26237775**

Article Published Date : Jul 23, 2015

Authors : Thirumagal Kanagasabai, Chris I Ardern

Study Type : Human Study
Additional Links
Substances : Carotenoids : CK(1630) : AC(307), Vitamin C : CK(1956) : AC(403), Vitamin D : CK(3176) : AC(449)

Diseases : Inflammation : CK(2918) : AC(856) , Oxidative Stress : CK(3855) : AC(1378)
Pharmacological Actions : Antihypertensive Agents : CK(1167) : AC(162) , Antioxidants : CK(7304) : AC(2677)
Additional Keywords : Risk Factors : CK(2584) : AC(332) , Sleep Duration : CK(20) : AC(2)

Vitamin D consistently displayed anti-inflammatory effects in both human cell lines and PBMCs.

Pubmed Data : PLoS One. 2015 ;10(11):e0141770. Epub 2015 Nov 3. PMID: **26528817**

Article Published Date : Dec 31, 2014

Authors : Emily K Calton, Kevin N Keane, Philip Newsholme, Mario J Soares

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Inflammation : CK(2923) : AC(860)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616)

Vitamin D is independently associated with depression and inflammation in overweight women both with and without PCOS.

Pubmed Data : Gynecol Endocrinol. 2014 Nov 4:1-4. Epub 2014 Nov 4. PMID: **25366261**

Article Published Date : Nov 03, 2014

Authors : L J Moran, H J Teede, A J Vincent

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Depression : CK(1844) : AC(267) , Inflammation : CK(2923) : AC(860) , Overweight : CK(3320) : AC(544), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18) , Risk Factors : CK(2584) : AC(332)

Vitamin D upregulates the expression of GDF-15 in prostate cancers driven by inflammation.

Pubmed Data : Prostate. 2014 Oct 18. Epub 2014 Oct 18. PMID: **25327758**

Article Published Date : Oct 17, 2014

Authors : James R Lambert, Ramon J Whitson, Kenneth A Iczkowski, Francisco G La Rosa, Maxwell L Smith, R Storey Wilson, Elizabeth E Smith, Kathleen C Torkko, Hamid H Gari, M Scott Lucia

Study Type : Animal Study, Human In Vitro
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cancer: Prostate : CK(1466) : AC(428) , Inflammation : CK(2923) : AC(860)
Pharmacological Actions : Anti Inflammatory : CK(68) : AC(12)

vitamin D may have a role in regulating iron recycling by acting independently of changes in pro-inflammatory markers.

Pubmed Data : Clin Nutr. 2016 Jun 27. Epub 2016 Jun 27. PMID: **27402475**

Article Published Date : Jun 26, 2016

Authors : Ellen M Smith, Jessica A Alvarez, Malcolm D Kearns, Li Hao, John H Sloan, Robert J Konrad, Thomas R Ziegler, Susu M Zughaier, Vin Tangpricha

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Inflammation : CK(2923) : AC(860)

Inflammatory Bowel Diseases (AC 3) (CK 22)

A review of the potential use of vitamin D for protection and treatment of IBD and colon cancer.

Pubmed Data : World J Gastroenterol. 2016 Jan 21 ;22(3):933-48. PMID: **26811638**

Article Published Date : Jan 20, 2016

Authors : Stacey Meeker, Audrey Seamons, Lillian Maggio-Price, Jisun Paik

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Colon Cancer : CK(749) : AC(430) , Inflammation : CK(2918) : AC(856) , Inflammatory Bowel Diseases : CK(1003) : AC(189), Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Chemopreventive : CK(2831) : AC(784)

Glutamine and arginine-fortified PF with curcumin might be a promising option to enhance the effectiveness and expand the scope of EEN therapy.

Pubmed Data : JPEN J Parenter Enteral Nutr. 2016 Jan 29. Epub 2016 Jan 29. PMID: **26826259**

Article Published Date : Jan 28, 2016

Authors : Moftah H Alhagamhmad, Andrew S Day, Daniel A Lemberg, Steven T Leach

Study Type : In Vitro Study
Additional Links
Substances : Arginine : CK(1012) : AC(176) , Curcumin : CK(4135) : AC(2175) , Glutamine : CK(123) : AC(24), Vitamin D : CK(3176) : AC(449)
Diseases : Crohn's Disease : CK(153) : AC(30) , Inflammatory Bowel Diseases : CK(1003) : AC(189)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616) , Interleukin-8 downregulation : CK(166) : AC(61)

Vitamin D levels are lower in IBD patients, suggesting that vitamin D plays an important role in the pathogenesis of IBD.

Pubmed Data : PLoS One. 2015;10(7):e0132036. Epub 2015 Jul 14. PMID: **26172950**

Article Published Date : Dec 31, 2014

Authors : Chao Lu, Jun Yang, Weilai Yu, Dejian Li, Zun Xiang, Yiming Lin, Chaohui Yu

Study Type : Meta Analysis, Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Inflammatory Bowel Diseases : CK(1003) : AC(189) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332) , Risk Reduction : CK(6366) : AC(681)

Influenza (AC 5) (CK 23)

This review details the association between vitamin D deficiency and common infections.

Pubmed Data : Can J Physiol Pharmacol. 2015 May ;93(5):363-8. Epub 2015 Jan 26. PMID: **25741906**

Article Published Date : Apr 30, 2015

Authors : Richard R Watkins, Tracy L Lemonovich, Robert A Salata

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hepatitis C : CK(474) : AC(87) , HIV Infections : CK(659) : AC(216) , Influenza : CK(789) : AC(123), Pneumonia : CK(399) : AC(54) , Sepsis : CK(197) : AC(54) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(244) : AC(92), Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Anti-Bacterial Agents : CK(1367) : AC(475)

Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Vitamin D concentrations of 38 ng/ml or more in healthy adults are associated with a significant two-fold reduction in the risk of developing acute viral respiratory tract infection.

Pubmed Data : PLoS One. 2010;5(6):e11088. Epub 2010 Jun 14. PMID: **20559424**

Article Published Date : Jan 01, 2010

Authors : James R Sabetta, Paolo DePetrillo, Ralph J Cipriani, Joanne Smardin, Lillian A Burns, Marie L Landry

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Influenza : CK(789) : AC(123) , Respiratory Diseases : CK(250) : AC(39) , Respiratory Tract Infections : CK(153) : AC(16)
Pharmacological Actions : Antiviral Agents : CK(938) : AC(433)
Additional Keywords : Reduced Disease Severity : CK(10) : AC(1)

Vitamin D deficiency is associated with susceptibility to influenza.

Pubmed Data : Epidemiol Infect. 2006 Dec;134(6):1129-40. Epub 2006 Sep 7. PMID: **16959053**

Article Published Date : Dec 01, 2006

Authors : J J Cannell, R Vieth, J C Umhau, M F Holick, W B Grant, S Madronich, C F Garland, E Giovannucci

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Human Influenza : CK(178) : AC(46) , Influenza : CK(789) : AC(123) , Influenza A : CK(387) : AC(101)

Vitamin D may be acting as a panaceal antibiotic agent and thus may be useful as an adjuvant therapy in diverse infections.

Pubmed Data : Ann N Y Acad Sci. 2014 May ;1317:76-83. Epub 2014 Mar 4. PMID: **24593793**

Article Published Date : Apr 30, 2014

Authors : Elisabetta Borella, Gideon Nesher, Eitan Israeli, Yehuda Shoenfeld

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)

Diseases : Bacterial Vaginosis : CK(46) : AC(6) , Clostridium Infections : CK(233) : AC(45) , Dengue Fever : CK(2) : AC(2), Hepatitis B : CK(241) : AC(46), Hepatitis C : CK(474) : AC(87) , HIV Infections : CK(659) : AC(216), Influenza : CK(789) : AC(123) , Otitis media : CK(305) : AC(41) , Pneumonia : CK(399) : AC(54), Sepsis : CK(197) : AC(54) , Upper Respiratory Infections : CK(950) : AC(114) , Urinary Tract Infections : CK(397) : AC(57)
Pharmacological Actions : Anti-Bacterial Agents : CK(1367) : AC(475) , Anti-Infective Agents : CK(43) : AC(18)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Vitamin D supplementation is effective in preventing seasonal influenza A in schoolchildren, reducing risk by 59%. As a secondary outcome in children with a previous diagnosis of asthma, asthma attacks occurred in 2 children versus 12 who did not take D.

Pubmed Data : Am J Clin Nutr. 2010 May;91(5):1255-60. Epub 2010 Mar 10. PMID: **20219962**

Article Published Date : May 01, 2010

Authors : Mitsuyoshi Urashima, Takaaki Segawa, Minoru Okazaki, Mana Kurihara, Yasuyuki Wada, Hiroyuki Ida

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Asthma: Childhood : CK(101) : AC(10) , Childhood Infections : CK(275) : AC(29) , Cold and Flu : CK(1269) : AC(177), Cold and Flu: Infants & Children : CK(62) : AC(6), Influenza : CK(789) : AC(123)

Influenza A (AC 1) (CK 1)

Vitamin D deficiency is associated with susceptibility to influenza.

Pubmed Data : Epidemiol Infect. 2006 Dec;134(6):1129-40. Epub 2006 Sep 7. PMID: **16959053**

Article Published Date : Dec 01, 2006

Authors : J J Cannell, R Vieth, J C Umhau, M F Holick, W B Grant, S Madronich, C F Garland, E Giovannucci

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)

Diseases : Human Influenza : CK(178) : AC(46) , Influenza : CK(789) : AC(123) , Influenza A : CK(387) : AC(101)

Influenza: 1918-1919 Pandemic (AC 1) (CK 10)

There is indication that solar ultraviolet-B radiation and vitamin D levels were significant contributing factors in reducing case-fatality rates from the 1918-1919 influenza pandemic in the Unites States.

Pubmed Data : Dermatoendocrinol. 2009 Jul;1(4):215-9. PMID: 20592793

Article Published Date : Jul 01, 2009

Authors : William B Grant, Edward Giovannucci

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Human Influenza : CK(178) : AC(46) , Influenza: 1918-1919 Pandemic : CK(10) : AC(1)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)

Insulin Resistance (AC 10) (CK 82)

A D3-supplemented yogurt drink improves insulin resistance and lipid profiles in women with gestational diabetes mellitus.

Pubmed Data : Ann Nutr Metab. 2016 Jun 24 ;68(4):285-290. Epub 2016 Jun 24. PMID: 27336154

Article Published Date : Jun 23, 2016

Authors : Qin Li, Baoheng Xing

Study Type : Human Study
Additional Links

Substances : Vitamin D : CK(3176) : AC(449) , Yoghurt : CK(154) : AC(23)
Diseases : Gestational Diabetes : CK(76) : AC(10) , Insulin Resistance : CK(1683) : AC(346)
Pharmacological Actions : Hypolipidemic : CK(1229) : AC(256)

Correction of vitamin D deficiency leads to increased insulin sensitivity that was significantly able to maintain glucose in the normal range.

Pubmed Data : Diabetes Metab Syndr. 2016 Jan 14. Epub 2016 Jan 14. PMID: **27094871**

Article Published Date : Jan 13, 2016

Authors : Saeed Osati, Reza Homayounfar, Majid Hajifaraji

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Insulin Resistance : CK(1683) : AC(346) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Insulin Sensitizers : CK(350) : AC(70)

Serum 25(OH)D has an independent inverse association with insulin resistance.

Pubmed Data : Diabetes Metab J. 2016 Jul 26. Epub 2016 Jul 26. PMID: **27535642**

Article Published Date : Jul 25, 2016

Authors : So Young Ock, Kyoung Hwa Ha, Bu Kyung Kim, Hyeon Chang Kim, Jee Seon Shim, Myung Ha Lee, Young Me Yoon, Dae Jung Kim

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Insulin Resistance : CK(1683) : AC(346) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Six months supplementation with 4000 IU of vitamin D3 safely restored the vitamin D level, improved basal pancreatic beta-cell function and ameliorated the metabolic state.

Pubmed Data : PLoS One. 2015 ;10(6):e0129017. Epub 2015 Jun 9. PMID: **26057782**

Article Published Date : Dec 31, 2014

Authors : Toh Peng Yeow, Shueh Lin Lim, Chee Peng Hor, Amir S Khir, Wan Nazaimoon Wan Mohamud, Giovanni Pacini

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)

Diseases : Gestational Diabetes : CK(76) : AC(10), Insulin Resistance : CK(1683) : AC(346), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Vitamin D deficiency may contribute to insulin resistance.

Pubmed Data : Nutr Res Rev. 2009 Jun;22(1):82-92. PMID: 19555519

Article Published Date : Jun 01, 2009

Authors : Dorothy Teegarden, Shawn S Donkin

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Insulin Resistance : CK(1683) : AC(346)

Vitamin D deficiency is associated with obesity in African-American adolescents and may promote insulin resistance.

Pubmed Data : J Clin Endocrinol Metab. 2009 Sep;94(9):3200-6. Epub 2009 Jun 23. PMID: 19549742

Article Published Date : Sep 01, 2009

Authors : Ambika Ashraf, Jessica Alvarez, Karen Saenz, Barbara Gower, Kenneth McCormick, Frank Franklin

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20), Insulin Resistance : CK(1683) : AC(346), Obesity : CK(2208) : AC(467)

Vitamin D improves free fatty-acid-induced insulin resistance.

Pubmed Data : Cytotechnology. 2009 Apr;59(3):211-7. Epub 2009 Sep 17. PMID: 18551686

Article Published Date : Apr 01, 2009

Authors : Qiu Gen Zhou, Fan Fan Hou, Zhi Jian Guo, Min Liang, Guo Bao Wang, Xun Zhang

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Insulin Resistance : CK(1683) : AC(346)

Vitamin D supplementation of patients with major

depressive disorder for 8 week had beneficial effects.

Pubmed Data : J Nutr. 2015 Nov 25. Epub 2015 Nov 25. PMID: 26609167

Article Published Date : Nov 24, 2015

Authors : Zahra Sepehrmanesh, Fariba Kolahdooz, Fatemeh Abedi, Navid Mazroii, Amin Assarian, Zatollah Asemi, Ahmad Esmaillzadeh

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Depression : CK(1884) : AC(270) , Insulin Resistance : CK(1683) : AC(346) , Oxidative Stress : CK(3855) : AC(1378)
Pharmacological Actions : Antidepressive Agents : CK(1004) : AC(162)

Vitamin D3 supplementation improves insulin sensitivity in obese men.

Pubmed Data : Diabet Med. 2009 Jan;26(1):19-27. PMID: 19125756

Article Published Date : Jan 01, 2009

Authors : J Nagpal, J N Pande, A Bhartia

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Insulin Resistance : CK(1683) : AC(346) , Obesity : CK(2208) : AC(467)

Vitamin D3 supplementation improves insulin sensitivity in subjects with impaired fasting glucose.

Pubmed Data : Transl Res. 2011 Nov ;158(5):276-81. Epub 2011 Jun 7. PMID: 22005267

Article Published Date : Nov 01, 2011

Authors : Shaban Nazarian, John V St Peter, Raymond C Boston, Sidney A Jones, Cary N Mariash

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Insulin Resistance : CK(1683) : AC(346)
Pharmacological Actions : Insulin Sensitizers : CK(350) : AC(70)

Irritable Bowel Syndrome (AC 1) (CK

10)

vitamin D deficiency is highly prevalent in patients with IBS and these results seem to have therapeutic implications.

Pubmed Data : Oman Med J. 2015 Mar ;30(2):115-8. PMID: **25960837**

Article Published Date : Feb 28, 2015

Authors : Yasir Khayyat, Suzan Attar

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Irritable Bowel Syndrome : CK(710) : AC(92) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Ischemia (AC 2) (CK 4)

A combination of a non-hypotensive dose of 1,25 D and resveratrol can be a novel and effective strategy for protecting against ischemia.

Pubmed Data : Int J Vitam Nutr Res. 2015 Dec ;85(3-4):174-84. PMID: **26780396**

Article Published Date : Nov 30, 2015

Authors : Fatemeh Safari, Farideh Zarei, Shahnaz Shekarforoush, Asefeh Fekri, Mohsen Sharifi Klishadi, Seyedhossein Hekmatimoghaddam

Study Type : Animal Study
Additional Links
Substances : Resveratrol : CK(1245) : AC(746) , Vitamin D : CK(3209) : AC(455)
Diseases : Ischemia : CK(71) : AC(35) , Ischemia: Myocardial : CK(50) : AC(21)
Pharmacological Actions : Cardioprotective : CK(1596) : AC(409)

Vitamin D deficiency impairs renal repair responses to ischemia/reperfusion injury.

Pubmed Data : Physiol Rep. 2016 Jul ;4(13). PMID: **27369932**

Article Published Date : Jun 30, 2016

Authors : Ana C de Bragança, Rildo A Volpini, Purvi Mehrotra, Lúcia Andrade, David P Basile

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Ischemia : CK(71) : AC(35) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Ischemia: Myocardial (AC 1) (CK 2)

A combination of a non-hypotensive dose of 1,25 D and resveratrol can be a novel and effective strategy for protecting against ischemia.

Pubmed Data : Int J Vitam Nutr Res. 2015 Dec ;85(3-4):174-84. PMID: **26780396**

Article Published Date : Nov 30, 2015

Authors : Fatemeh Safari, Farideh Zarei, Shahnaz Shekarforoush, Asefeh Fekri, Mohsen Sharifi Klishadi, Seyedhossein Hekmatimoghaddam

Study Type : Animal Study
Additional Links
Substances : Resveratrol : CK(1245) : AC(746) , Vitamin D : CK(3209) : AC(455)
Diseases : Ischemia : CK(71) : AC(35) , Ischemia: Myocardial : CK(50) : AC(21)
Pharmacological Actions : Cardioprotective : CK(1596) : AC(409)

Kidney Diseases (AC 2) (CK 11)

The higher incidence of end stage kidney disease in African-American populations is associated with lower vitamin D levels.

Pubmed Data : J Am Soc Nephrol. 2009 Dec;20(12):2631-9. Epub 2009 Oct 29. PMID: **19875805**

Article Published Date : Dec 01, 2009

Authors : Michal L Melamed, Brad Astor, Erin D Michos, Thomas H Hostetter, Neil R Powe, Paul Muntner

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : End Stage Renal Disease : CK(10) : AC(1) , Kidney Diseases : CK(501) : AC(84) , Kidney Failure : CK(321) : AC(45)

Vitamin D deficiency may contribute to mortality in chronic kidney disease.

Pubmed Data : Transplantation. 2005 Dec 15;80(11):1556-9. PMID: 19657329

Article Published Date : Dec 15, 2005

Authors : Rajnish Mehrotra, Dulcie A Kermah, Isidro B Salusky, Myles S Wolf, Ravi I Thadhani, Yi-Wen Chiu, David Martins, Sharon G Adler, Keith C Norris

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Kidney Diseases : CK(501) : AC(84)

Kidney Failure (AC 2) (CK 20)

The higher incidence of end stage kidney disease in African-American populations is associated with lower vitamin D levels.

Pubmed Data : J Am Soc Nephrol. 2009 Dec;20(12):2631-9. Epub 2009 Oct 29. PMID: 19875805

Article Published Date : Dec 01, 2009

Authors : Michal L Melamed, Brad Astor, Erin D Michos, Thomas H Hostetter, Neil R Powe, Paul Muntner

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : End Stage Renal Disease : CK(10) : AC(1) , Kidney Diseases : CK(501) : AC(84) , Kidney Failure : CK(321) : AC(45)

Vitamin D reduces mortality among patients undergoing hemodialysis.

Pubmed Data : Pharmacotherapy. 2009 Feb;29(2):154-64. PMID: 19170585

Article Published Date : Feb 01, 2009

Authors : Wendy L St Peter, Shuling Li, Jiannong Liu, David T Gilbertson, Thomas J Arneson, Allan J Collins

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Hemodialysis : CK(453) : AC(48) , Kidney Failure : CK(321) : AC(45)

Kidney Transplant (AC 1) (CK 10)

Vitamin D deficiency is common in kidney transplant recipients.

Pubmed Data : Transplant Proc. 2009 Jul-Aug;41(6):2388-90. PMID: 19715928

Article Published Date : Jul 01, 2009

Authors : R Marcén, B Ponte, N Rodríguez-Mendiola, A Fernández-Rodriguez, C Galeano, J J Villafruela, J L Teruel, F J Burgos, J Ortuño

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Kidney Transplant : CK(65) : AC(8) , Organ Transplantation: Kidney : CK(80) : AC(8)

Lactation Disorders (AC 1) (CK 10)

Breastfed infants in winter who did not receive vitamin D supplementation were the most severely vitamin D deficient (78%).

Pubmed Data : Arch Pediatr Adolesc Med. 2008 Jun;162(6):513-9. PMID: 18524740

Article Published Date : Jun 01, 2008

Authors : Alisha J Rovner, Kimberly O O'Brien

Study Type : Human Study

Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Breastfeeding: Nutritional Deficiencies : CK(47) : AC(6) , Infant Nutrition : CK(90) : AC(14) , Lactation Disorders : CK(142) : AC(18) , Prenatal Nutrition: Health of the Offspring : CK(246) : AC(35) , Vitamin D Deficiency : CK(1695) : AC(178)

Leiomyoma (AC 1) (CK 1)

Vitamin D inhibits leiomyoma (fibroid) cell growth, in vitro.

Pubmed Data : Fertil Steril. 2009 May;91(5):1919-25. Epub 2008 Apr 18. PMID: **18423458**

Article Published Date : May 01, 2009

Authors : Merja Bläuer, Päivi H Rovio, Timo Ylikomi, Pentti K Heinonen

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Fibroid Tumor : CK(41) : AC(13) , Fibroids: Uterine : CK(57) : AC(18) , Leiomyoma : CK(48) : AC(18)

Leukemia: Chronic Lymphocytic Leukemia (CLL) (AC 1) (CK 2)

Vitamin D and gossypol appear to reduce lymphocyte content in Chronic Lymphocytic Leukemia.

Pubmed Data : Leuk Res. 2004 Aug;28(8):851-61. PMID: **18573644**

Article Published Date : Aug 01, 2004

Authors : W M Politzer

Study Type : Animal Study
Additional Links
Substances : cottonseed oil (gossypol) : CK(3) : AC(2) , Vitamin D : CK(3176) : AC(449)
Diseases : Leukemia: Chronic Lymphocytic Leukemia (CLL) : CK(87) : AC(34)

Lipid Peroxidation (AC 1) (CK 2)

Vitamin D3 may have a protective effect on cognitive deficits and oxidative stress in toxic demyelination's model.

Pubmed Data : Iran J Basic Med Sci. 2016 Jan ;19(1):80-8. PMID: 27096068

Article Published Date : Dec 31, 2015

Authors : Sepideh Tarbali, Shiva Khezri

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cognitive Decline/Dysfunction : CK(1140) : AC(213) , Lipid Peroxidation : CK(695) : AC(255), Multiple Sclerosis : CK(964) : AC(184) , Oxidative Stress : CK(3855) : AC(1378)
Pharmacological Actions : Catalase Up-Regulation : CK(118) : AC(42) , Neuroprotective Agents : CK(2268) : AC(1071)

Lipopolysaccharide-Induced Toxicity (AC 1) (CK 1)

Vitamin D and beta-sitosterol may have beneficial effects in autoimmune diseases such as multiple sclerosis.

Pubmed Data : Int Immunopharmacol. 2010 Nov;10(11):1390-6. Epub 2010 Aug 20. PMID: 20728596

Article Published Date : Nov 01, 2010

Authors : Lini Alappat, Michael Valerio, Atif B Awad

Study Type : In Vitro Study
Additional Links
Substances : Beta Sitosterol : CK(45) : AC(15) , Vitamin D : CK(3176) : AC(449)
Diseases : Autoimmune Diseases : CK(6604) : AC(1119) , Lipopolysaccharide-Induced Toxicity :

CK(359) : AC(218), Multiple Sclerosis : CK(964) : AC(184)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), NF-kappaB Inhibitor : CK(1113) : AC(693)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247)

Liver Cancer (AC 3) (CK 4)

Fish oil enhances the antiproliferative effect of vitamin D3 on liver cancer cells.

Pubmed Data : Anticancer Res. 2009 Sep;29(9):3591-6. PMID: **19667153**

Article Published Date : Sep 01, 2009

Authors : Kun-Chun Chiang, Kelly S Persons, Nawfal W Istfan, Michael F Holick, Tai C Chen

Study Type : In Vitro Study
Additional Links
Substances : Fish Oil : CK(701) : AC(111) , Vitamin D : CK(3176) : AC(449)
Diseases : Liver Cancer : CK(1235) : AC(462)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247)

Vitamin D could be a strong candidate for liver cancer prevention in the context of aberrant Smad3 signaling.

Pubmed Data : Sci Rep. 2016 ;6:30217. Epub 2016 Jul 26. PMID: **27456065**

Article Published Date : Dec 31, 2015

Authors : Jian Chen, Lior H Katz, Nina M Muñoz, Shoujun Gu, Ji-Hyun Shin, Wilma S Jogunoori, Mi-Hye Lee, Mitchell D Belkin, Sang-Bae Kim, Jon C White, Jaclyn Andricovich, Alexandros Tzatsos, Shulin Li, Sang Soo Kim, Kirti Shetty, Bibhuti Mishra, Asif Rashid, Ju-Seog Lee, Lopa Mishra

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Liver Cancer : CK(1235) : AC(462), Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Anticarcinogenic Agents : CK(1097) : AC(518)
Additional Keywords : Risk Factors : CK(2584) : AC(332)

Vitamin D3 works synergistically with all-trans retinoic acid to inhibit the growth of human hepatoma cells.

Pubmed Data : Ai Zheng. 2006 Dec ;25(12):1470-6. PMID: 17166369

Article Published Date : Dec 01, 2006

Authors : Hang-Qing Lu, Jie Zheng

Study Type : In Vitro Study

Additional Links

Substances : Vitamin D : CK(3176) : AC(449)

Diseases : Liver Cancer : CK(1235) : AC(462)

Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639) , Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612)

Additional Keywords : Drug Synergy : CK(351) : AC(156)

Liver Cancer Stem Cells (AC 1) (CK 1)

Natural Products That Target Cancer Stem Cells.

Pubmed Data : Anticancer Res. 2015 Nov ;35(11):5773-88. PMID: 26503998

Article Published Date : Oct 31, 2015

Authors : Jim Moselhy, Sowmyalakshmi Srinivasan, Murali K Ankem, Chendil Damodaran

Study Type : Review

Additional Links

Substances : Baicalein : CK(61) : AC(44) , Cruciferous Vegetables : CK(1131) : AC(358) , Curcumin : CK(4135) : AC(2175), Vitamin D : CK(3176) : AC(449)

Diseases : Brain Cancer Stem Cells : CK(4) : AC(4) , Breast Cancer Stem Cells : CK(23) : AC(18) , Cancer Stem Cells : CK(105) : AC(64) , Colon Cancer Stem Cells : CK(1) : AC(1) , Liver Cancer Stem Cells : CK(2) : AC(1)

Additional Keywords : Selective Cytotoxicity : CK(158) : AC(112)

Liver Cirrhosis (AC 2) (CK 11)

25(OH)D3 deficiency is associated with advanced liver disease and low 25(OH)D3 levels are an indicator for a poor outcome and are associated with infectious complications.

Pubmed Data : PLoS One. 2015 ;10(6):e0132119. Epub 2015 Jun 29. PMID: **26121590**

Article Published Date : Dec 31, 2014

Authors : Fabian Finkelmeier, Bernd Kronenberger, Stefan Zeuzem, Albrecht Piiper, Oliver Waidmann

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Liver Cirrhosis : CK(395) : AC(56) , Liver Diseases : CK(12) : AC(3) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Mortality : CK(62) : AC(6) , Risk Factors : CK(2584) : AC(332) , Risk Reduction : CK(6366) : AC(681)

The association of vitamin D with liver cirrhosis shows great potential for clinical application.

Pubmed Data : Ann Gastroenterol. 2016 Jul-Sep;29(3):297-306. Epub 2016 Apr 25. PMID: **27366029**

Article Published Date : Jun 30, 2016

Authors : Christos Konstantakis, Paraskevi Tselekouni, Maria Kalafateli, Christos Triantos

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Liver Cirrhosis : CK(395) : AC(56) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Hepatoprotective : CK(1383) : AC(592)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Liver Disease (AC 1) (CK 2)

Vitamin D-enriched Shiitake mushroom exerts a synergistic anti-inflammatory effect in an immune-mediated hepatitis model.

Pubmed Data : J Med Food. 2016 Mar 30. Epub 2016 Mar 30. PMID: **27027234**

Article Published Date : Mar 29, 2016

Authors : Ariel Drori, Yehudit Shabat, Ami Ben Ya'acov, Ofer Danay, Dan Levanon, Lidya Zolotarov, Yaron Ilan

Study Type : Animal Study
Additional Links

Substances : Shiitake Mushroom : CK(43) : AC(22), Vitamin D : CK(3176) : AC(449)
Diseases : Chemically-Induced Liver Damage : CK(634) : AC(255) , Hepatitis C : CK(474) : AC(87) , Liver Disease : CK(135) : AC(40)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Hepatoprotective : CK(1383) : AC(592)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247) , Plant Extracts : CK(7483) : AC(2462)
Problem Substances : Concanavalin A : CK(25) : AC(10)

Liver Diseases (AC 1) (CK 10)

25(OH)D3 deficiency is associated with advanced liver disease and low 25(OH)D3 levels are an indicator for a poor outcome and are associated with infectious complications.

Pubmed Data : PLoS One. 2015 ;10(6):e0132119. Epub 2015 Jun 29. PMID: **26121590**

Article Published Date : Dec 31, 2014

Authors : Fabian Finkelmeier, Bernd Kronenberger, Stefan Zeuzem, Albrecht Piiper, Oliver Waidmann

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Liver Cirrhosis : CK(395) : AC(56) , Liver Diseases : CK(12) : AC(3) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Mortality : CK(62) : AC(6) , Risk Factors : CK(2584) : AC(332) , Risk Reduction : CK(6366) : AC(681)

Lung Cancer (AC 3) (CK 42)

Current data suggests an inverse association between serum vitamin D and lung cancer risk.

Pubmed Data : Cell Physiol Biochem. 2015 ;36(1):299-305. Epub 2015 May 4. PMID: **25967968**

Article Published Date : Dec 31, 2014

Authors : Liqun Zhang, Sihai Wang, Xiaoyu Che, Xuehui Li

Study Type : Meta Analysis, Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Lung Cancer : CK(1033) : AC(393)
Additional Keywords : Risk Reduction : CK(6346) : AC(680)

Review: there is a consistently strong inverse correlations with solar UVB for 15 types of cancers.

Pubmed Data : Anticancer Res. 2012 Jan ;32(1):223-36. PMID: **22213311**

Article Published Date : Jan 01, 2012

Authors : William B Grant

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bladder Cancer : CK(349) : AC(100), Breast Cancer : CK(3526) : AC(1059), Cervical Cancer : CK(345) : AC(144), Colon Cancer : CK(749) : AC(430), Colorectal Cancer : CK(1635) : AC(611), Endometrial Cancer : CK(307) : AC(53), Esophageal Cancer : CK(506) : AC(85), Hodgkin Lymphoma : CK(53) : AC(7), Lung Cancer : CK(1033) : AC(393), Non-Hodgkin Lymphoma : CK(363) : AC(79), Ovarian Cancer : CK(360) : AC(128), Pancreatic Cancer : CK(889) : AC(260), Renal Cancer : CK(25) : AC(4), Vulvar Cancer : CK(52) : AC(4)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)
Pharmacological Actions : Chemopreventive : CK(2831) : AC(784)

Vitamin D repletion reduces the progression of premalignant lesions, proliferation, and inflammation.

Pubmed Data : Cancer Prev Res (Phila). 2015 Oct ;8(10):895-904. Epub 2015 Aug 14. PMID: **26276745**

Article Published Date : Sep 30, 2015

Authors : Sarah A Mazzilli, Pamela A Hershberger, Mary E Reid, Paul N Bogner, Kristopher Atwood, Donald L Trump, Candace S Johnson

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Lung Cancer : CK(1033) : AC(393), Lung Cancer: Prevention : CK(236) : AC(30), Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616), Antiproliferative : CK(2479) : AC(1685), Chemopreventive : CK(2831) : AC(784)

Lung Cancer: Prevention (AC 2) (CK 22)

25(OH)D may be associated with reduced risk of lung cancer, in particular among subjects with vitamin D deficiencies.

Pubmed Data : Cancer Causes Control. 2015 Sep 10. Epub 2015 Sep 10. PMID: 26358829

Article Published Date : Sep 09, 2015

Authors : Guo-Chong Chen, Zeng-Li Zhang, Zhongxiao Wan, Ling Wang, Peter Weber, Manfred Eggersdorfer, Li-Qiang Qin, Weiguo Zhang

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Lung Cancer: Prevention : CK(236) : AC(30)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18)

Vitamin D repletion reduces the progression of premalignant lesions, proliferation, and inflammation.

Pubmed Data : Cancer Prev Res (Phila). 2015 Oct ;8(10):895-904. Epub 2015 Aug 14. PMID: 26276745

Article Published Date : Sep 30, 2015

Authors : Sarah A Mazzilli, Pamela A Hershberger, Mary E Reid, Paul N Bogner, Kristopher Atwood, Donald L Trump, Candace S Johnson

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Lung Cancer : CK(1033) : AC(393) , Lung Cancer: Prevention : CK(236) : AC(30) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616) , Antiproliferative : CK(2479) : AC(1685), Chemopreventive : CK(2831) : AC(784)

Lung Diseases (AC 1) (CK 1)

Vitamin D may improve lung function and response to steroids therapy, reduce airway remodeling and disease exacerbations.

Pubmed Data : Minerva Med. 2016 Jun 15. Epub 2016 Jun 15. PMID: 27308869

Article Published Date : Jun 14, 2016

Authors : Paolo Solidoro, Michela Bellocchia, Fabrizio Facchini

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Asthma : CK(1146) : AC(188) , Chronic Obstructive Pulmonary Disease : CK(376) : AC(57) , Lung Diseases : CK(37) : AC(8) , Vitamin D Deficiency : CK(1695) : AC(178)

Lupus Erythematosus: Systemic (AC 3) (CK 30)

These results suggest a potential role for vitamin D in systemic lupus erythematosus-related endothelial dysfunction.

Pubmed Data : Am J Med Sci. 2015 Oct ;350(4):302-7. PMID: 26351776

Article Published Date : Sep 30, 2015

Authors : Diane L Kamen, Jim C Oates

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Endothelial Dysfunction : CK(1176) : AC(232) , Lupus Erythematosus: Systemic : CK(463) : AC(66)

Vitamin D deficiency is highly prevalent in patients with SLE.

Pubmed Data : Lupus. 2016 Feb 25. Epub 2016 Feb 25. PMID: 26921268

Article Published Date : Feb 24, 2016

Authors : C-C Gao, S-Y Liu, Z-Z Wu, T-F Li, G-M Gao, Z-S Liu, Z-H Zheng

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Lupus Erythematosus: Systemic : CK(463) : AC(66) , Vitamin D Deficiency : CK(1695) : AC(178)

Vitamin D supplementation may be beneficial to patients with systemic lupus erythematosus.

Pubmed Data : Am J Med Sci. 2008 Feb;335(2):99-104. PMID: **18277116**

Article Published Date : Feb 01, 2008

Authors : Amitha Thudi, Su Yin, Amy E Wandstrat, Quan-Zhen Li, Nancy J Olsen

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Lupus Erythematosus: Systemic : CK(463) : AC(66) , Systemic Lupus Erythematosus : CK(463) : AC(66)

Lyme Disease (AC 1) (CK 2)

Vitamin D prevent the progression to severe arthritis in mice exposed to Borrelia burgdorferi.

Pubmed Data : J Nutr. 1998 Jan;128(1):68-72. PMID: **9430604**

Article Published Date : Jan 01, 1998

Authors : M T Cantorna, C E Hayes, H F DeLuca

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Lyme Disease : CK(58) : AC(14)

Lymphoma: Non-Hodgkin (AC 1) (CK

1)

Sunlight exposure and vitamin D may reduce the risk of non-Hodgkin lymphoma.

Pubmed Data : Cancer Invest. 2009 Nov;27(9):942-51. PMID: **19832043**

Article Published Date : Nov 01, 2009

Authors : Jennifer L Kelly, Jonathan W Friedberg, Laura M Calvi, Edwin van Wijngaarden, Susan G Fisher

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Lymphoma: Non-Hodgkin : CK(363) : AC(79)
Therapeutic Actions : Light Therapy : CK(124) : AC(28)

Magnesium Deficiency (AC 1) (CK 10)

In this cohort of middle-aged and older men low serum 25(OH)D3 concentration was associated with increased risk of death mainly in those with lower magnesium intake.

Pubmed Data : Eur J Epidemiol. 2015 Apr ;30(4):343-7. Epub 2015 Mar 12. PMID: **25762172**

Article Published Date : Mar 31, 2015

Authors : Jaakko Mursu, Tarja Nurmi, Sari Voutilainen, Tomi-Pekka Tuomainen, Jyrki K Virtanen

Study Type : Human Study
Additional Links
Substances : Magnesium : CK(1516) : AC(193), Vitamin D : CK(3176) : AC(449)
Diseases : All-Cause Mortality : CK(333) : AC(26) , Magnesium Deficiency : CK(401) : AC(48) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Malaria (AC 1) (CK 10)

Vitamin D deficiency is nearly ubiquitious in those with sickle cell anemia.

Pubmed Data : J Natl Med Assoc. 2010 Apr ;102(4):332-5. PMID: **20437740**

Article Published Date : Apr 01, 2010

Authors : B Mitchell Goodman, Nicole Artz, Barbera Radford, Ian A Chen

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Malaria : CK(142) : AC(56) , Vitamin D Deficiency : CK(1695) : AC(178)

Membranoproliferative glomerulonephritis (MPGN) (AC 1) (CK 2)

Vitamin D may revert proteinuria, counteracting glomerular injury.

Pubmed Data : Phytother Res. 2009 Mar;23(3):404-6. PMID: **16388728**

Article Published Date : Mar 01, 2009

Authors : M Migliori, L Giovannini, V Panichi, C Filippi, D Taccola, N Origlia, C Mannari, G Camussi

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Membranoproliferative glomerulonephritis (MPGN) : CK(10) : AC(6) , Proteinuria : CK(103) : AC(20)

Menopausal Syndrome (AC 1) (CK 10)

A formula containing calcium, vitamin D3, lycopene , astaxantin and citrus bioflavonoids reducing climacteric symptoms in menopausal women.

Pubmed Data : Panminerva Med. 2010 Jun;52(2 Suppl 1):49-54. PMID: 20657535

Article Published Date : Jun 01, 2010

Authors : G Belcaro, M R Cesarone, U Cornelli, M Dugall

Study Type : Human Study
Additional Links
Substances : Astaxanthin : CK(406) : AC(146) , Bioflavonoids : CK(21) : AC(3) , Calcium : CK(287) : AC(44), Lycopene : CK(365) : AC(78) , Vitamin D : CK(3209) : AC(455)
Diseases : Menopausal Syndrome : CK(285) : AC(44)

Metabolic Diseases (AC 3) (CK 30)

Improvement of vitamin D status may help reduce the public health burden of metabolic syndrome, and potential subsequent health conditions including type 2 diabetes and cardiovascular disease.

Pubmed Data : Nutrients. 2015 ;7(9):7271-84. Epub 2015 Aug 28. PMID: 26343719

Article Published Date : Dec 31, 2014

Authors : Truong-Minh Pham, John Paul Ekwaru, Solmaz Setayeshgar, Paul J Veugelers

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiovascular Disease: Prevention : CK(3187) : AC(425) , Diabetes Mellitus: Type 2: Prevention : CK(651) : AC(86), Metabolic Diseases : CK(411) : AC(75)
Additional Keywords : Risk Reduction : CK(6366) : AC(681) , Supplementation : CK(413) : AC(60)

In persons without MetS a relationship was detected

between vitamin D concentration and exponents of metabolic syndrome.

Pubmed Data : Eur Rev Med Pharmacol Sci. 2015 Jun ;19(12):2180-7. PMID: 26166640

Article Published Date : May 31, 2015

Authors : M Kramkowska, T Grzelak, M Walczak, P Bogdanski, D Pupek-Musialik, K Czyzewska

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Metabolic Diseases : CK(411) : AC(75) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Vitamin D deficiency may contribute to common obesity, metabolic syndrome and a reduction in thermogenic activity.

Pubmed Data : Med Hypotheses. 2009 Mar;72(3):314-21. Epub 2008 Dec 2. PMID: 19054627

Article Published Date : Mar 01, 2009

Authors : Y J Foss

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Metabolic Diseases : CK(411) : AC(75) , Obesity : CK(2208) : AC(467)
Pharmacological Actions : Thermogenic : CK(57) : AC(9)

Metabolic Syndrome X (AC 2) (CK 20)

"Modest reversal of metabolic syndrome manifestations with vitamin D status correction"

Pubmed Data : Metabolism. 2012 May ;61(5):661-6. Epub 2011 Nov 8. PMID: 22075268

Article Published Date : May 01, 2012

Authors : Nasser M Al-Daghri, Khalid M Alkharfy, Yousef Al-Saleh, Omar S Al-Attas, Majed S Alokail, Abdulaziz Al-Othman, Osama Moharram, Emad El-Kholie, Shaun Sabico, Sudhesh Kumar, George P Chrousos

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)

Diseases : Metabolic Syndrome X : CK(916) : AC(158)

The relationship between elevated serum uric acid and low-grade inflammation is mediated by the PTH:25(OH)D ratio in obese adolescents.

Pubmed Data : Metab Syndr Relat Disord. 2016 Jan 29. Epub 2016 Jan 29. PMID: 26824485

Article Published Date : Jan 28, 2016

Authors : Ramin Alemzadeh, Jessica Kichler

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : C-Reactive Protein : CK(1630) : AC(172), Hyperuricemia : CK(217) : AC(48), Inflammation : CK(2923) : AC(860), Metabolic Syndrome X : CK(916) : AC(158), Obesity : CK(2206) : AC(465), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Parathyroid Hormone : CK(52) : AC(5)

Mineral Imbalances (AC 1) (CK 1)

Review of essential nutrients for bone health and their availability in the average North American diet.

Pubmed Data : Open Orthop J. 2012 ;6:143-9. Epub 2012 Apr 5. PMID: 22523525

Article Published Date : Dec 31, 2011

Authors : Charles T Price, Joshua R Langford, Frank A Liporace

Study Type : Review
Additional Links
Substances : Boron : CK(4) : AC(2), Calcium : CK(287) : AC(44), Vitamin C : CK(1956) : AC(403), Vitamin D : CK(3209) : AC(455), Vitamin K : CK(645) : AC(85)
Diseases : Mineral Imbalances : CK(3) : AC(1)

Mortality: All-Cause (AC 9) (CK 111)

Being in the lowest quartile of vitamin D levels is associated with a 26% increased rate of all-cause mortality

Pubmed Data : Arch Intern Med. 2008 Aug 11;168(15):1629-37. PMID: **18695076**

Article Published Date : Aug 11, 2008

Authors : Michal L Melamed, Erin D Michos, Wendy Post, Brad Astor

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiac Mortality : CK(947) : AC(86), Mortality: All-Cause : CK(713) : AC(63) , Vitamin D Deficiency : CK(1695) : AC(178)

Both high and low concentrations of plasma 25(OH)D are associated with elevated risks of overall and cancer mortality. Low concentrations are associated with cardiovascular mortality.

Pubmed Data : Am J Clin Nutr. 2010 Oct;92(4):841-8. Epub 2010 Aug 18. PMID: **20720256**

Article Published Date : Oct 01, 2010

Authors : Karl Michaëlsson, John A Baron, Greta Snellman, Rolf Gedeborg, Liisa Byberg, Johan Sundström, Lars Berglund, Johan Arnlöv, Per Hellman, Rune Blomhoff, Alicja Wolk, Hans Garmo, Lars Holmberg, Håkan Melhus

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiac Mortality : CK(947) : AC(86), Cardiovascular Diseases : CK(7145) : AC(903) , Elderly: Age Specific Diseases : CK(442) : AC(38) , Hypertension : CK(2984) : AC(406) , Mortality: All-Cause : CK(713) : AC(63)
Additional Keywords : Too Much Vitamin D : CK(10) : AC(1)

Doubling global vitamin D levels could significantly reduce mortality.

Pubmed Data : Eur J Clin Nutr. 2011 Jul 6. Epub 2011 Jul 6. PMID: **21731036**

Article Published Date : Jul 06, 2011

Authors : W B Grant

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Cardiac Mortality : CK(947) : AC(86), Cardiovascular Diseases : CK(7176) : AC(907) , Mortality: All-Cause : CK(713) :

AC(63), Respiratory Diseases : CK(250) : AC(39) , Tuberculosis : CK(312) : AC(54) , Vitamin D Deficiency : CK(1695) : AC(178)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)

Low vitamin D levels are independently associated with all-cause and cardiovascular mortality.

Pubmed Data : Arch Intern Med. 2008 Jun 23;168(12):1340-9. PMID: **18574092**

Article Published Date : Jun 23, 2008

Authors : Harald Dobnig, Stefan Pilz, Hubert Scharnagl, Wilfried Renner, Ursula Seelhorst, Britta Wellnitz, Jürgen Kinkeldei, Bernhard O Boehm, Gisela Weihrauch, Winfried Maerz

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiac Mortality : CK(947) : AC(86), Cardiovascular Diseases : CK(7176) : AC(907) , Mortality: All-Cause : CK(713) : AC(63) , Vitamin D Deficiency : CK(1695) : AC(178)

Lower vitamin D levels are associated with all-cause mortality and even more pronounced with cardiovascular mortality.

Pubmed Data : Clin Endocrinol (Oxf). 2009 Nov;71(5):666-72. Epub 2009 Feb 18. PMID: **19226272**

Article Published Date : Nov 01, 2009

Authors : Stefan Pilz, Harald Dobnig, Giel Nijpels, Robert J Heine, Coen D A Stehouwer, Marieke B Snijder, Rob M van Dam, Jacqueline M Dekker

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiac Mortality : CK(947) : AC(86), Cardiovascular Diseases : CK(7145) : AC(903) , Mortality: All-Cause : CK(713) : AC(63) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Increased Risk : CK(1450) : AC(181)

Serum vitamin D levels have an independent, inverse association with cardiovascular disease and all-cause mortality.

Pubmed Data : J Am Geriatr Soc. 2009 Sep;57(9):1595-603. Epub 2009 Jun 22. PMID: **19549021**

Article Published Date : Sep 01, 2009

Authors : Adit A Ginde, Robert Scragg, Robert S Schwartz, Carlos A Camargo

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)

Diseases : Cardiac Mortality : CK(947) : AC(86), Cardiovascular Diseases : CK(7176) : AC(907) , Mortality: All-Cause : CK(713) : AC(63) , Vitamin D Deficiency : CK(1695) : AC(178)

The prevalence of vitamin D deficiency was ~80% in patients hospitalised with community-acquired pneumonia.

Pubmed Data : Int J Tuberc Lung Dis. 2015 Jun ;19(6):729-34. PMID: **25946368**

Article Published Date : May 31, 2015

Authors : H J Kim, J G Jang, K S Hong, J-K Park, E-Y Choi

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Mortality: All-Cause : CK(713) : AC(63) , Pneumonia : CK(399) : AC(54) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332) , Risk Reduction : CK(6366) : AC(681)

Vitamin D supplementation reduces mortality in adults.

Pubmed Data : Cochrane Database Syst Rev. 2011(7):CD007470. Epub 2011 Jul 6. PMID: **21735411**

Article Published Date : Jan 01, 2011

Authors : Goran Bjelakovic, Lise Lotte Gluud, Dimitrinka Nikolova, Kate Whitfield, Jørn Wetterslev, Rosa G Simonetti, Marija Bjelakovic, Christian Gluud

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Elderly: Age Specific Diseases : CK(442) : AC(38) , Mortality: All-Cause : CK(713) : AC(63)

Vitamin D supplementation reduces total mortality.

Pubmed Data : J Burn Care Res. 2011 Jan-Feb;32(1):135-42. PMID: **17846391**

Article Published Date : Jan 01, 2011

Authors : Philippe Autier, Sara Gandini

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Mortality: All-Cause : CK(713) : AC(63)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Multiple Myeloma (AC 1) (CK 10)

The severity of peripheral neuropathy is associated with lower vitamin D levels.

Pubmed Data : Support Care Cancer. 2016 Feb 23. Epub 2016 Feb 23. PMID: 26902977

Article Published Date : Feb 22, 2016

Authors : James Wang, Kyle A Udd, Aleksandra Vidisheva, Regina A Swift, Tanya M Spektor, Eric Bravin, Emad Ibrahim, Jonathan Treisman, Mohammed Masri, James R Berenson

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Multiple Myeloma : CK(213) : AC(71) , Peripheral Neuropathies : CK(214) : AC(35) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18)

Multiple Sclerosis (AC 16) (CK 74)

Antibody titers against EBV in MS patients rise after the onset of the disease and indicate that vitamin D3 supplementation could limit augmentation of these titers in MS patients.

Pubmed Data : Cell Immunol. 2015 Mar ;294(1):9-12. Epub 2015 Jan 28. PMID: 25666504

Article Published Date : Feb 28, 2015

Authors : Adeleh Najafipoor, Rasoul Roghanian, Sayyed Hamid Zarkesh-Esfahani, Majid Bouzari, Masoud Etemadifar

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Epstein-Barr Virus Infections : CK(132) : AC(47) , Multiple Sclerosis : CK(964) : AC(184) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Immunomodulatory : CK(1286) : AC(357)
Additional Keywords : Risk Factors : CK(2584) : AC(332) , Risk Reduction : CK(6366) : AC(681)

Genetically lowered 25OHD level is associated with an increase in the risk of MS in people of European descent.

Pubmed Data : PLoS Med. 2015 Aug ;12(8):e1001866. Epub 2015 Aug 25. PMID: **26305103**

Article Published Date : Jul 31, 2015

Authors : Lauren E Mokry, Stephanie Ross, Omar S Ahmad, Vincenzo Forgetta, George Davey Smith, Aaron Leong, Celia M T Greenwood, George Thanassoulis, J Brent Richards

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Multiple Sclerosis : CK(964) : AC(184)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

High dose vitamin D3 improves the inflammation/immune status in patients with multiple sclerosis.

Pubmed Data : PLoS One. 2010;5(12):e15235. Epub 2010 Dec 13. PMID: **21179201**

Article Published Date : Jan 01, 2010

Authors : Joost Smolders, Evelyn Peelen, Mariëlle Thewissen, Jan Willem Cohen Tervaert, Paul Menheere, Raymond Hupperts, Jan Damoiseaux

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Multiple Sclerosis : CK(964) : AC(184)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Immunomodulatory: T-Cell down-regulation : CK(12) : AC(2)

Higher vitamin D levels are inversely correlated to lower incidence of multiple sclerosis in women.

Pubmed Data : Mult Scler. 2008 Aug 13. PMID: **18701572**

Article Published Date : Aug 13, 2008

Authors : Jj Kragt, Bm van Amerongen, J Killestein, Cd Dijkstra, Bmj Uitdehaag, Ch Polman, P Lips

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Multiple Sclerosis : CK(964) : AC(184)

Monthly ambient sunlight and serum vitamin D levels are inversely associated with relapse rates and postively

associated with upper respiratory tract infections in subjects with multiple sclerosis.

Pubmed Data : Neuroepidemiology. 2008;31(4):271-9. Epub 2008 Oct 30 PMID: **18971584**

Article Published Date : Jan 01, 2008

Authors : Helen Tremlett, Ingrid A F van der Mei, Fotini Pittas, Leigh Blizzard, Glenys Paley, Desiree Mesaros, Richard Woodbaker, Manuel Nunez, Terence Dwyer, Bruce V Taylor, Anne-Louise Ponsonby

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Multiple Sclerosis : CK(964) : AC(184) , Respiratory Tract Infections : CK(153) : AC(16)

This review provides evidence that nutrition and natural compounds can help in prevention and treatment of this neuroinflammatory disease.

Pubmed Data : Pharmacol Ther. 2015 Apr ;148:85-113. Epub 2014 Nov 27. PMID: **25435020**

Article Published Date : Mar 31, 2015

Authors : Katja Schmitz, Julia Barthelmes, Leonie Stolz, Susanne Beyer, Olaf Diehl, Irmgard Tegeder

Study Type : Review
Additional Links
Substances : Broccoli : CK(962) : AC(298) , Curcumin : CK(4135) : AC(2175) , EGCG (Epigallocatechin gallate) : CK(609) : AC(314), Polyunsaturated Fatty Acids (PUFAs) : CK(174) : AC(32) , Sulforaphane : CK(533) : AC(262), Vitamin A : CK(498) : AC(77) , Vitamin D : CK(3176) : AC(449) , Vitamin E : CK(1656) : AC(290)
Diseases : Encephalomyelitis : CK(12) : AC(7) , Multiple Sclerosis : CK(964) : AC(184)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616) , Immunomodulatory : CK(1286) : AC(357)
Additional Keywords : Dietary Modification : CK(315) : AC(47) , Natural Substance Synergy : CK(537) : AC(247), Significant Treatment Outcome : CK(3038) : AC(366)

Vitamin D and beta-sitosterol may have beneficial effects in autoimmune diseases such as multiple sclerosis.

Pubmed Data : Int Immunopharmacol. 2010 Nov;10(11):1390-6. Epub 2010 Aug 20. PMID: **20728596**

Article Published Date : Nov 01, 2010

Authors : Lini Alappat, Michael Valerio, Atif B Awad

Study Type : In Vitro Study
Additional Links
Substances : Beta Sitosterol : CK(45) : AC(15) , Vitamin D : CK(3176) : AC(449)
Diseases : Autoimmune Diseases : CK(6604) : AC(1119) , Lipopolysaccharide-Induced Toxicity :

CK(359) : AC(218), Multiple Sclerosis : CK(964) : AC(184)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), NF-kappaB Inhibitor : CK(1113) : AC(693)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247)

Vitamin D is a natural inhibitor of multiple sclerosis.

Pubmed Data : Proc Nutr Soc. 2000 Nov;59(4):531-5. PMID: **11115787**

Article Published Date : Nov 01, 2000

Authors : C E Hayes

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Multiple Sclerosis : CK(964) : AC(184)

Vitamin D levels are frequently low in those with multiple sclerosis.

Pubmed Data : Rev Neurol (Paris). 2011 Apr;167(4):317-23. Epub 2010 Dec 24. PMID: **21186037**

Article Published Date : Apr 01, 2011

Authors : J P Neau, M S Artaud-Uriot, V Lhomme, J Y Bounaud, F Lebras, L Boissonnot, N Moinot, J Ciron, D Larrieu, S Mathis, G Godeneche, P Ingrand

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Multiple Sclerosis : CK(964) : AC(184) , Vitamin D Deficiency : CK(1695) : AC(178)

Vitamin D may prevent the induction of multiple sclerosis.

Pubmed Data : J Cell Biochem. 2008 Jul 24. [Epub ahead of print] PMID: **18655192**

Article Published Date : Jul 24, 2008

Authors : Anita Raghuwanshi, Sneha S Joshi, Sylvia Christakos

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Multiple Sclerosis : CK(964) : AC(184)

Vitamin D seems to play a role in the central nervous system and this hypothesis is that VD is involved in remyelination.

Pubmed Data : Neurologia. 2016 Jun 16. Epub 2016 Jun 16. PMID: 27321170

Article Published Date : Jun 15, 2016

Authors : J Matías-Guíu, C Oreja-Guevara, J A Matias-Guiu, U Gomez-Pinedo

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Multiple Sclerosis : CK(964) : AC(184)
Additional Keywords : Remyelination : CK(16) : AC(11)

Vitamin D supplementation administered during pregnancy and childhood may prevent multiple sclerosis.

Pubmed Data : JAMA. 2002 Nov 27;288(20):2554-60. PMID: 15617877

Article Published Date : Nov 27, 2002

Authors : Abhijit Chaudhuri

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Childhood Deficiencies : CK(41) : AC(4), Infant Nutrition : CK(90) : AC(14) , Multiple Sclerosis : CK(964) : AC(184), Prenatal Nutrition: Health of the Offspring : CK(246) : AC(35)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Vitamin D3 acts directly on the T lymphocyte vitamin D receptor to inhibit experimental autoimmune encephalomyelitis.

Pubmed Data : Magn Reson Imaging. 2010 Jul 19. Epub 2010 Jul 19. PMID: 21287548

Article Published Date : Jul 19, 2010

Authors : Christopher G Mayne, Justin A Spanier, Lance M Relland, Calvin B Williams, Colleen E Hayes

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Multiple Sclerosis : CK(964) : AC(184)

Vitamin D3 has drug sparing effect in cylcosporine treatment of multiple sclerosis in an animal model.

Pubmed Data : J Neuroimmunol. 1995 Sep;61(2):151-60. PMID: 7593550

Article Published Date : Sep 01, 1995

Authors : D D Branisteanu, M Waer, H Sobis, S Marcelis, M Vandeputte, R Bouillon

Study Type : Animal Study

Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Multiple Sclerosis : CK(964) : AC(184)
Pharmacological Actions : Adjuvants: Immunologic : CK(2) : AC(1)
Additional Keywords : Drug: Cyclosporine : CK(2) : AC(1) , Drug Sparing : CK(451) : AC(50)

Vitamin D3 may have a protective effect on cognitive deficits and oxidative stress in toxic demyelination's model.

Pubmed Data : Iran J Basic Med Sci. 2016 Jan ;19(1):80-8. PMID: **27096068**

Article Published Date : Dec 31, 2015

Authors : Sepideh Tarbali, Shiva Khezri

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cognitive Decline/Dysfunction : CK(1140) : AC(213) , Lipid Peroxidation : CK(695) : AC(255), Multiple Sclerosis : CK(964) : AC(184) , Oxidative Stress : CK(3855) : AC(1378)
Pharmacological Actions : Catalase Up-Regulation : CK(118) : AC(42) , Neuroprotective Agents : CK(2268) : AC(1071)

Vitamin D3 prevents the induction of multiple sclerosis in the animal model.

Pubmed Data : J Clin Invest. 1991 Mar;87(3):1103-7. PMID: **1705564**

Article Published Date : Mar 01, 1991

Authors : J M Lemire, D C Archer

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Multiple Sclerosis : CK(964) : AC(184)
Pharmacological Actions : Immunomodulatory : CK(1286) : AC(357) , Neuroprotective Agents : CK(2268) : AC(1071)

Multiple Sclerosis: Prevention (AC 2) (CK 21)

Higher maternal milk and vitamin D intake during pregnancy may be associated with a lower risk of developing MS in offspring.

Pubmed Data : Ann Neurol. 2011 Jul ;70(1):30-40. PMID: 21786297

Article Published Date : Jul 01, 2011

Authors : Fariba Mirzaei, Karin B Michels, Kassandra Munger, Eilis O'Reilly, Tanuja Chitnis, Michele R Forman, Edward Giovannucci, Bernard Rosner, Alberto Ascherio

Study Type : Meta Analysis
Additional Links
Substances : Cow Milk : CK(20) : AC(3) , Vitamin D : CK(3209) : AC(455)
Diseases : Multiple Sclerosis: Prevention : CK(21) : AC(1) , Prenatal Nutrition: Health of the Offspring : CK(246) : AC(35)
Therapeutic Actions : Breastfeeding : CK(803) : AC(85)

Studies show that there may be a higher risk of food allergies for those with not enough exposure to vitamin D when young.

Pubmed Data : Curr Allergy Asthma Rep. 2012 Feb ;12(1):64-71. PMID: 22006065

Article Published Date : Feb 01, 2012

Authors : Raymond James Mullins, Carlos A Camargo

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Diabetes Mellitus: Type 1: Prevention : CK(255) : AC(50) , Food Allergies : CK(507) : AC(70), Multiple Sclerosis: Prevention : CK(21) : AC(1) , Vitamin D Deficiency : CK(1695) : AC(178)

Multiple Sclerosis: Relapsing-Remitting (AC 5) (CK 50)

Among patients with MS treated with interferon beta-1b, higher 25(OH)D levels were associated with lower rates of MS activity observed on MRI.

Pubmed Data : JAMA Neurol. 2015 Oct 12:1-8. Epub 2015 Oct 12. PMID: **26458124**

Article Published Date : Oct 11, 2015

Authors : Kathryn C Fitzgerald, Kassandra L Munger, Karl Köchert, Barry G W Arnason, Giancarlo Comi, Stuart Cook, Douglas S Goodin, Massimo Filippi, Hans-Peter Hartung, Douglas R Jeffery, Paul O'Connor, Gustavo Suarez, Rupert Sandbrink, Ludwig Kappos, Christoph Pohl, Alberto Ascherio

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Multiple Sclerosis: Relapsing-Remitting : CK(114) : AC(13), Vitamin D Deficiency : CK(1695) : AC(178)

Data supports previous work suggesting that vitamin D deficiency is associated with higher risk of disability in MS.

Pubmed Data : Eur J Neurol. 2015 Mar ;22(3):564-9. Epub 2014 Dec 20. PMID: **25530281**

Article Published Date : Feb 28, 2015

Authors : E Thouvenot, M Orsini, J-P Daures, W Camu

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Multiple Sclerosis: Relapsing-Remitting : CK(114) : AC(13), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Increased Risk : CK(1450) : AC(181)

High-dose oral vitamin D3 supplementation can affect humoral immune responses against the latent EBV antigen EBNA1.

Pubmed Data : Mult Scler. 2016 Jun 20. Epub 2016 Jun 20. PMID: **27325604**

Article Published Date : Jun 19, 2016

Authors : Egil Røsjø, Andreas Lossius, Nada Abdelmagid, Jonas C Lindstrøm, Margitta T Kampman, Lone Jørgensen, Peter Sundström, Tomas Olsson, Linn H Steffensen, Øivind Torkildsen, Trygve Holmøy

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Epstein-Barr Virus Infections : CK(132) : AC(47) , Multiple Sclerosis: Relapsing-Remitting : CK(114) : AC(13)
Pharmacological Actions : Immunomodulatory : CK(1287) : AC(358)

High-dose vitamin D might be useful in promoting an anti-

inflammatory state in RRMS patients.

Pubmed Data : Neuroimmunomodulation. 2015 Sep 25. Epub 2015 Sep 25. PMID: 26401986

Article Published Date : Sep 24, 2015

Authors : Fereshteh Ashtari, Nafiseh Toghianifar, Sayyed Hamid Zarkesh-Esfahani, Marjan Mansourian

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Multiple Sclerosis: Relapsing-Remitting : CK(114) : AC(13)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interleukin-10 upregulation : CK(105) : AC(24)

IL-17 levels showed significant change in RRMS patients after receiving high dose vitamin D3 for 12weeks.

Pubmed Data : J Neuroimmunol. 2015 Aug 15 ;285:125-8. Epub 2015 Jun 12. PMID: 26198928

Article Published Date : Aug 14, 2015

Authors : Nafiseh Toghianifar, Fereshteh Ashtari, Sayyed Hamid Zarkesh-Esfahani, Marjan Mansourian

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Multiple Sclerosis: Relapsing-Remitting : CK(114) : AC(13)
Pharmacological Actions : Interleukin-17 upregulation : CK(4) : AC(2)

Muscle Weakness (AC 2) (CK 20)

There is a statistically significant association between low vitamin D levels and muscle mass and strength in adults under 65 years of age.

Pubmed Data : J Bone Miner Res. 2011 Sep 13. Epub 2011 Sep 13. PMID: 21915904

Article Published Date : Sep 13, 2011

Authors : Isabel Marantes, Sara J Achenbach, Elizabeth J Atkinson, Sundeep Khosla, L Joseph Melton, Shreyasee Amin

Study Type : Human Study
Additional Links

Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Muscle Weakness : CK(20) : AC(2) , Vitamin D Deficiency : CK(1695) : AC(178)

Treatment of vitamin D deficiency increases lower limb muscle strength in institutionalized older people independently of regular physical activity.

Pubmed Data : Ann Nutr Metab. 2009;54(4):291-300. Epub 2009 Aug 31. PMID: 19729890

Article Published Date : Jan 01, 2009

Authors : Linda D F Moreira-Pfrimer, Márcia A C Pedrosa, Luzimar Teixeira, Marise Lazaretti-Castro

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Muscle Weakness : CK(20) : AC(2)

Myalgias (AC 2) (CK 20)

Low serum vitamin D levels are associated with reversible myositis-myalgia in statin-treated patients.

Pubmed Data : Transl Res. 2009 Jan;153(1):11-6. Epub 2008 Dec 6. PMID: 19100953

Article Published Date : Jan 01, 2009

Authors : Waqas Ahmed, Naseer Khan, Charles J Glueck, Suman Pandey, Ping Wang, Naila Goldenberg, Muhammad Uppal, Suraj Khanal

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Drug-Induced Nutrient Depletion: Statin Drugs : CK(147) : AC(34) , Myalgias : CK(105) : AC(14), Myositis : CK(40) : AC(7), Statin-Induced Pathologies : CK(1638) : AC(327) , Vitamin D Deficiency : CK(1695) : AC(178)

Myalgias or non-specific muscle pain may indicate vitamin D deficiency.

Pubmed Data : Clin Rheumatol. 2009 Aug;28(8):971-3. Epub 2009 Mar 10. PMID: 19277814

Article Published Date : Aug 01, 2009

Authors : Humeira Badsha, Mirna Daher, Kok Ooi Kong

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Myalgias : CK(105) : AC(14)

Mycobacterium Infections (AC 1) (CK 1)

Vitamin D may be therapeutic in treating mycobacterium tubercolosis.

Pubmed Data : Clin Rev Allergy Immunol. 2009 Jun 20. PMID: 19543859

Article Published Date : Jun 20, 2009

Authors : Yinon Shapira, Nancy Agmon-Levin, Yehuda Shoenfeld

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Mycobacterium Infections : CK(48) : AC(26) , Tuberculosis : CK(312) : AC(54)

Mycobacterium tuberculosis (AC 1) (CK 10)

Seasonal variation in the incidence rate of tuberculous meningitis is associated with sunshine hours.

Pubmed Data : Epidemiol Infect. 2013 Mar ;141(3):459-62. Epub 2012 May 31. PMID: 22647556

Article Published Date : Feb 28, 2013

Authors : D H Visser, J F Schoeman, A M VAN Furth

Study Type : Human Study
Additional Links

Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Mycobacterium tuberculosis : CK(3) : AC(2) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Myelodysplastic Syndrome (AC 2) (CK 20)

Vitamin D may be therapeutic in the treatment of myelodysplastic syndrome.

Pubmed Data : Contrib Nephrol. 1991;91:95-101. PMID: 1800016

Article Published Date : Jan 01, 1991

Authors : Y Imai, M Tsutsumi, T Tsunenari, M Nishikawa, T Matsui, T Natazuka, T Fujita

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Myelodysplastic Syndrome : CK(221) : AC(22) , Myelodysplastic Syndromes : CK(221) : AC(22)

Vitamin K2 plus Vitamin D3 are therapeutic for the treatment of anemia and thyrombocytopenia associated wtih low/intermediate myelodysplastic syndrome.

Pubmed Data : Leuk Res. 2010 Sep;34(9):1151-7. Epub 2010 Jun 1. PMID: 20569983

Article Published Date : Sep 01, 2010

Authors : Nobu Akiyama, Keisuke Miyazawa, Yoshinobu Kanda, Kaoru Tohyama, Mitsuhiro Omine, Kinuko Mitani, Kazuma Ohyashiki

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449) , Vitamin K : CK(645) : AC(85) , Vitamin K2 : CK(319) : AC(38)
Diseases : Anemia: Aplastic : CK(30) : AC(3) , Myelodysplastic Syndrome : CK(221) : AC(22) , Thrombocytopenia : CK(234) : AC(26)

Myelodysplastic Syndromes (AC 1) (CK 10)

Vitamin D may be therapeutic in the treatment of myelodysplastic syndrome.

Pubmed Data : Contrib Nephrol. 1991;91:95-101. PMID: 1800016

Article Published Date : Jan 01, 1991

Authors : Y Imai, M Tsutsumi, T Tsunenari, M Nishikawa, T Matsui, T Natazuka, T Fujita

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Myelodysplastic Syndrome : CK(221) : AC(22) , Myelodysplastic Syndromes : CK(221) : AC(22)

Myelofibrosis (AC 1) (CK 3)

Osteomalacia with bone marrow fibrosis due to severe vitamin D deficiency after a gastrointestinal bypass operation for severe obesity has been reported.

Pubmed Data : Endocr Pract. 2009 Sep-Oct;15(6):528-33. PMID: 19491072

Article Published Date : Sep 01, 2009

Authors : Ahmad Al-Shoha, Shijing Qiu, Saroj Palnitkar, D Sudhaker Rao

Study Type : Human: Case Report
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Gastric Bypass Surgery : CK(33) : AC(4) , Myelofibrosis : CK(19) : AC(4) , Osteomalacia : CK(37) : AC(5), Vitamin D Deficiency : CK(1695) : AC(178)

Myocardial Infarction (AC 1) (CK 10)

In this case controlled study, vitamin D deficiency was associated with acute MI after adjusting for conventional risk factors.

Pubmed Data : Indian Heart J. 2015 Jan-Feb;67(1):27-32. Epub 2015 Mar 11. PMID: 25820047

Article Published Date : Dec 31, 2014

Authors : Ambuj Roy, Ramakrishnan Lakshmy, Mohamad Tarik, Nikhil Tandon, K Srinath Reddy, Dorairaj Prabhakaran

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Myocardial Infarction : CK(1085) : AC(158) , Myocardial Infarction: Prevention : CK(98) : AC(11), Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Cardioprotective : CK(1596) : AC(409)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18) , Risk Reduction : CK(6366) : AC(681)

Myocardial Infarction: Prevention (AC 1) (CK 10)

In this case controlled study, vitamin D deficiency was associated with acute MI after adjusting for conventional risk factors.

Pubmed Data : Indian Heart J. 2015 Jan-Feb;67(1):27-32. Epub 2015 Mar 11. PMID: 25820047

Article Published Date : Dec 31, 2014

Authors : Ambuj Roy, Ramakrishnan Lakshmy, Mohamad Tarik, Nikhil Tandon, K Srinath Reddy, Dorairaj Prabhakaran

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Myocardial Infarction : CK(1085) : AC(158) , Myocardial Infarction: Prevention : CK(98) : AC(11), Vitamin D Deficiency : CK(1695) : AC(178)

Pharmacological Actions : Cardioprotective : CK(1596) : AC(409)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18) , Risk Reduction : CK(6366) : AC(681)

Myopathy (AC 1) (CK 10)

Osteomalacia associated severe proximal myopathy may be due to vitamin D deficiency.

Pubmed Data : Am J Physiol Regul Integr Comp Physiol. 2008 Feb;294(2):R311-20. Epub 2007 Nov 21. PMID: **19534335**

Article Published Date : Feb 01, 2008

Authors : Yousef A Al-Said, Hiyam S Al-Rached, Hussien A Al-Qahtani, Mohammed M S Jan

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Myopathy : CK(60) : AC(6) , Osteomalacia : CK(37) : AC(5)

Myositis (AC 1) (CK 10)

Low serum vitamin D levels are associated with reversible myositis-myalgia in statin-treated patients.

Pubmed Data : Transl Res. 2009 Jan;153(1):11-6. Epub 2008 Dec 6. PMID: **19100953**

Article Published Date : Jan 01, 2009

Authors : Waqas Ahmed, Naseer Khan, Charles J Glueck, Suman Pandey, Ping Wang, Naila Goldenberg, Muhammad Uppal, Suraj Khanal

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Drug-Induced Nutrient Depletion: Statin Drugs : CK(147) : AC(34) , Myalgias : CK(105) : AC(14), Myositis : CK(40) : AC(7), Statin-Induced Pathologies : CK(1638) : AC(327) , Vitamin D Deficiency : CK(1695) : AC(178)

Neuralgia: Post Herpetic (AC 1) (CK 1)

Vitamin D may be therapeutic in the treatment of post herpetic neuralgia.

Pubmed Data : Med Hypotheses. 2009 Jul 25. PMID: 19635651

Article Published Date : Jul 25, 2009

Authors : Jim Bartley

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Neuralgia: Post Herpetic : CK(30) : AC(6)

Neurodegenerative Diseases (AC 2) (CK 2)

A variety of nutraceutical strategies hold promise in the prevention of Alzheimer disease.

Pubmed Data : Med Hypotheses. 2006;67(4):682-97. Epub 2006 Jul 7. PMID: 16828233

Article Published Date : Jan 01, 2006

Authors : Mark F McCarty

Study Type : Commentary
Additional Links
Substances : Chromium : CK(56) : AC(12) , Cinnamon : CK(245) : AC(89) , Cocoa : CK(522) : AC(77) , DHA (Docosahexaenoic Acid) : CK(813) : AC(134) , Fish Oil : CK(701) : AC(111) , Folic Acid : CK(645) : AC(94), Genistein : CK(515) : AC(228) , Hops : CK(76) : AC(26) , Policosanol : CK(194) : AC(25) , Sesame Seeds : CK(235) : AC(71), Vitamin D : CK(3176) : AC(449)
Diseases : Alzheimer's Disease : CK(1287) : AC(379) , Neurodegenerative Diseases : CK(3376) : AC(850)

This reviews the existing knowledge about the link between telomere biology and cellular aging with a focus

on the role of vitamin D.

Pubmed Data : Clin Chem Lab Med. 2015 Mar 21. Epub 2015 Mar 21. PMID: 25803084

Article Published Date : Mar 20, 2015

Authors : Irene Pusceddu, Christopher-John L Farrell, Angela Maria Di Pierro, Erika Jani, Wolfgang Herrmann, Markus Herrmann

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Aging : CK(1633) : AC(434), Cardiovascular Diseases : CK(7176) : AC(907), Neurodegenerative Diseases : CK(3376) : AC(850)
Pharmacological Actions : Genoprotective : CK(270) : AC(97)
Additional Keywords : Telomere Length : CK(18) : AC(5)

Neutropenia (AC 2) (CK 2)

Vitamin D3 corrects defective epxression of an antimicrobial peptide, pro-LL-37, in neutrophil precursors from patiens with severe congenital neutropenia.

Pubmed Data : J Leukoc Biol. 2008 Nov;84(5):1279-86. Epub 2008 Aug 14. PMID: 18703682

Article Published Date : Nov 01, 2008

Authors : Jenny Karlsson, Göran Carlsson, Olivia Larne, Mats Andersson, Katrin Pütsep

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Neutropenia : CK(90) : AC(22), Neutropenia: Cyclic : CK(48) : AC(16)

Vitamin upregulates Cathelicidin, an antimicrobial substance normally produced by neutrophils.

Pubmed Data : Altern Med Rev. 2008 Mar;13(1):6-20. PMID: 18377099

Article Published Date : Mar 01, 2008

Authors : John J Cannell, Bruce W Hollis

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Neutropenia : CK(90) : AC(22), Neutropenia: Chemotherapy Induced : CK(72) : AC(16),

Neutropenia: Cyclic : CK(48) : AC(16) , Neutropenia: Severe Congenital : CK(16) : AC(7)

Neutropenia: Chemotherapy Induced (AC 1) (CK 1)

Vitamin upregulates Cathelicidin, an antimicrobial substance normally produced by neutrophils.

Pubmed Data : Altern Med Rev. 2008 Mar;13(1):6-20. PMID: 18377099

Article Published Date : Mar 01, 2008

Authors : John J Cannell, Bruce W Hollis

Study Type : Review

Additional Links

Substances : Vitamin D : CK(3209) : AC(455)

Diseases : Neutropenia : CK(90) : AC(22) , Neutropenia: Chemotherapy Induced : CK(72) : AC(16) , Neutropenia: Cyclic : CK(48) : AC(16) , Neutropenia: Severe Congenital : CK(16) : AC(7)

Neutropenia: Cyclic (AC 2) (CK 2)

Vitamin D3 corrects defective epxression of an antimicrobial peptide, pro-LL-37, in neutrophil precursors from patiens with severe congenital neutropenia.

Pubmed Data : J Leukoc Biol. 2008 Nov;84(5):1279-86. Epub 2008 Aug 14. PMID: 18703682

Article Published Date : Nov 01, 2008

Authors : Jenny Karlsson, Göran Carlsson, Olivia Larne, Mats Andersson, Katrin Pütsep

Study Type : In Vitro Study

Additional Links

Substances : Vitamin D : CK(3209) : AC(455)

Diseases : Neutropenia : CK(90) : AC(22) , Neutropenia: Cyclic : CK(48) : AC(16)

Vitamin upregulates Cathelicidin, an antimicrobial substance normally produced by neutrophils.

Pubmed Data : Altern Med Rev. 2008 Mar;13(1):6-20. PMID: **18377099**

Article Published Date : Mar 01, 2008

Authors : John J Cannell, Bruce W Hollis

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Neutropenia : CK(90) : AC(22), Neutropenia: Chemotherapy Induced : CK(72) : AC(16), Neutropenia: Cyclic : CK(48) : AC(16), Neutropenia: Severe Congenital : CK(16) : AC(7)

Neutropenia: Severe Congenital (AC 1) (CK 1)

Vitamin upregulates Cathelicidin, an antimicrobial substance normally produced by neutrophils.

Pubmed Data : Altern Med Rev. 2008 Mar;13(1):6-20. PMID: **18377099**

Article Published Date : Mar 01, 2008

Authors : John J Cannell, Bruce W Hollis

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Neutropenia : CK(90) : AC(22), Neutropenia: Chemotherapy Induced : CK(72) : AC(16), Neutropenia: Cyclic : CK(48) : AC(16), Neutropenia: Severe Congenital : CK(16) : AC(7)

Non-Hodgkin Lymphoma (AC 4) (CK 50)

Review: there is a consistently strong inverse correlations with solar UVB for 15 types of cancers.

Pubmed Data : Anticancer Res. 2012 Jan ;32(1):223-36. PMID: 22213311

Article Published Date : Jan 01, 2012

Authors : William B Grant

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bladder Cancer : CK(349) : AC(100), Breast Cancer : CK(3526) : AC(1059), Cervical Cancer : CK(345) : AC(144), Colon Cancer : CK(749) : AC(430), Colorectal Cancer : CK(1635) : AC(611), Endometrial Cancer : CK(307) : AC(53), Esophageal Cancer : CK(506) : AC(85), Hodgkin Lymphoma : CK(53) : AC(7), Lung Cancer : CK(1033) : AC(393), Non-Hodgkin Lymphoma : CK(363) : AC(79), Ovarian Cancer : CK(360) : AC(128), Pancreatic Cancer : CK(889) : AC(260), Renal Cancer : CK(25) : AC(4), Vulvar Cancer : CK(52) : AC(4)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)
Pharmacological Actions : Chemopreventive : CK(2831) : AC(784)

Sun exposure may protect against non-Hodgkin lymphoma.

Pubmed Data : Int J Cancer. 2004 Dec 10;112(5):865-71. PMID: 15386383

Article Published Date : Dec 10, 2004

Authors : Ann Maree Hughes, Bruce K Armstrong, Claire M Vajdic, Jennifer Turner, Andrew E Grulich, Lin Fritschi, Sam Milliken, John Kaldor, Geza Benke, Anne Kricker

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Non-Hodgkin Lymphoma : CK(363) : AC(79)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)

Sunlight has a protective effect against non-Hodgkin lymphoma.

Pubmed Data : Cancer Causes Control. 2006 Oct;17(8):1045-52. PMID: 16933055

Article Published Date : Oct 01, 2006

Authors : Patricia Hartge, Unhee Lim, D Michal Freedman, Joanne S Colt, James R Cerhan, Wendy Cozen, Richard K Severson, Scott Davis

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Non-Hodgkin Lymphoma : CK(363) : AC(79)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Vitamin D intake significantly lowers the risk of non-Hodgkin lymphoma in African American women.

Pubmed Data : Br J Nutr. 2010 Feb;103(4):581-4. Epub 2009 Sep 28. PMID: 19781122

Article Published Date : Feb 01, 2010

Authors : Eva Erber, Gertraud Maskarinec, Unhee Lim, Laurence N Kolonel

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Non-Hodgkin Lymphoma : CK(363) : AC(79)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Non-Specific and Persistent (AC 1) (CK 10)

Persistent, nonspecific musculoskeletal pain caused by conditions like osteomalacia may be due in part to vitamin D deficiency.

Pubmed Data : Mayo Clin Proc. 2003 Dec;78(12):1463-70. PMID: 14661675

Article Published Date : Dec 01, 2003

Authors : Gregory A Plotnikoff, Joanna M Quigley

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Non-Specific and Persistent : CK(10) : AC(1) , Osteomalacia : CK(37) : AC(5) , Pain: Musculoskeletal : CK(30) : AC(3)

Nonalcoholic fatty liver disease

(NAFLD) (AC 1) (CK 10)

Serum 25(OH)D level was inversely associated with liver fat content in middle-aged and elderly Chinese men.

Pubmed Data : PLoS One. 2016 ;11(6):e0157515. Epub 2016 Jun 10. PMID: 27284686

Article Published Date : Dec 31, 2015

Authors : Dan Wang, Huandong Lin, Mingfeng Xia, Qiqige Aleteng, Xiaoming Li, Hui Ma, Baishen Pan, Jian Gao, Xin Gao

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Nonalcoholic fatty liver disease (NAFLD) : CK(392) : AC(88), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332) , Risk Reduction : CK(6366) : AC(681)

Obesity (AC 12) (CK 98)

"Vitamin D may improve telomere maintenance and prevent cell senescence and counteract obesity-induced acceleration of cellular aging."

Pubmed Data : Int J Obes (Lond). 2012 Jun ;36(6):805-9. Epub 2011 Oct 11. PMID: 21986705

Article Published Date : Jun 01, 2012

Authors : H Zhu, D Guo, K Li, J Pedersen-White, I S Stallmann-Jorgensen, Y Huang, S Parikh, K Liu, Y Dong

Study Type : Human In Vitro
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Aging : CK(1633) : AC(434), Obesity : CK(2208) : AC(467)
Pharmacological Actions : Telomerase Upregulation : CK(102) : AC(28)

Mice consuming a high-fat diet treated with cholecalciferol had lower body weight and adipose tissue weight.

Pubmed Data : J Biomed Sci. 2016 ;23(1):56. Epub 2016 Jul 29. PMID: **27473111**

Article Published Date : Dec 31, 2015

Authors : Yue Fan, Kumi Futawaka, Rie Koyama, Yuki Fukuda, Misa Hayashi, Miyuki Imamoto, Takashi Miyawaki, Masato Kasahara, Tetsuya Tagami, Kenji Moriyama

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : High Fat Diet : CK(190) : AC(92) , Obesity : CK(2206) : AC(465) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Anti-Obesity Agents : CK(486) : AC(107)

Obese Black Americans are at particularly high risk for vitamin D deficiency and secondary hyperparathyroidism.

Pubmed Data : Clin Endocrinol (Oxf). 2006 May;64(5):523-9. PMID: **16649971**

Article Published Date : May 01, 2006

Authors : Lisa B Yanoff, Shamik J Parikh, Amanda Spitalnik, Blakeley Denkinger, Nancy G Sebring, Pamela Slaughter, Theresa McHugh, Alan T Remaley, Jack A Yanovski

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Hyperparathyroidism : CK(30) : AC(2) , Obesity : CK(2208) : AC(467) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

The combination of vitamin D with genistein results in an enhanced inhibition of lipid accumulation and induction of programmed cell death in maturing preadipocytes (immature fat cells).

Pubmed Data : Life Sci. 2002 Oct 4;71(20):2383-90. PMID: **18239559**

Article Published Date : Oct 04, 2002

Authors : Srujana Rayalam, Mary Anne Della-Fera, Suresh Ambati, Jeong-Yeh Yang, Hea Jin Park, Clifton A Baile

Study Type : In Vitro Study
Additional Links
Substances : Genistein : CK(515) : AC(228) , Vitamin D : CK(3176) : AC(449)
Diseases : Abdominal Obesity (Midsection Fat) : CK(458) : AC(66) , Obesity : CK(2208) : AC(467)
Pharmacological Actions : Anti-Adipogenic : CK(110) : AC(52) , Apoptotic : CK(2958) : AC(2075)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247)

The distribution of fat in obese adolescents may be associated with vitamin D status.

Pubmed Data : Am J Clin Nutr. 2009 Sep;90(3):459-67. Epub 2009 Jul 29. PMID: **19640956**

Article Published Date : Sep 01, 2009

Authors : Carine M Lenders, Henry A Feldman, Emily Von Scheven, Anne Merewood, Carol Sweeney, Darrell M Wilson, Phillip D K Lee, Stephanie H Abrams, Stephen E Gitelman, Marcia S Wertz, William J Klish, George A Taylor, Tai C Chen, Michael F Holick,

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Obesity : CK(2208) : AC(467)

The relationship between elevated serum uric acid and low-grade inflammation is mediated by the PTH:25(OH)D ratio in obese adolescents.

Pubmed Data : Metab Syndr Relat Disord. 2016 Jan 29. Epub 2016 Jan 29. PMID: **26824485**

Article Published Date : Jan 28, 2016

Authors : Ramin Alemzadeh, Jessica Kichler

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : C-Reactive Protein : CK(1630) : AC(172), Hyperuricemia : CK(217) : AC(48), Inflammation : CK(2923) : AC(860), Metabolic Syndrome X : CK(916) : AC(158), Obesity : CK(2206) : AC(465), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Parathyroid Hormone : CK(52) : AC(5)

Up to 96% of morbidly obese patients before bariatric surgery have vitamin D deficiency and 44% have secondary hyperparathyroidism.

Pubmed Data : Obes Surg. 2011 Jan 14. Epub 2011 Jan 14. PMID: **21234699**

Article Published Date : Jan 14, 2011

Authors : Roxane Ducloux, Estelle Nobécourt, Jean-Marc Chevallier, Hervé Ducloux, Negib Elian, Jean-Jacques Altman

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hyperparathyroidism : CK(30) : AC(2), Obesity : CK(2208) : AC(467), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Vitamin D deficiency may contribute to common obesity, metabolic syndrome and a reduction in thermogenic activity.

Pubmed Data : Med Hypotheses. 2009 Mar;72(3):314-21. Epub 2008 Dec 2. PMID: 19054627

Article Published Date : Mar 01, 2009

Authors : Y J Foss

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Metabolic Diseases : CK(411) : AC(75) , Obesity : CK(2208) : AC(467)
Pharmacological Actions : Thermogenic : CK(57) : AC(9)

Vitamin D deficiency is associated with obesity in African-American adolescents and may promote insulin resistance.

Pubmed Data : J Clin Endocrinol Metab. 2009 Sep;94(9):3200-6. Epub 2009 Jun 23. PMID: 19549742

Article Published Date : Sep 01, 2009

Authors : Ambika Ashraf, Jessica Alvarez, Karen Saenz, Barbara Gower, Kenneth McCormick, Frank Franklin

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Insulin Resistance : CK(1683) : AC(346), Obesity : CK(2208) : AC(467)

Vitamin D deficiency is common in obese and non-obese preadolescent African-American children, and may take loses significantly higher than the recommended adequate intake to raise blood levels.

Pubmed Data : Obesity (Silver Spring). 2008 Jan;16(1):90-5. PMID: 18223618

Article Published Date : Jan 01, 2008

Authors : Kumaravel Rajakumar, John D Fernstrom, Michael F Holick, Janine E Janosky, Susan L Greenspan

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Obesity : CK(2208) :

AC(467)

Vitamin D levels are inversely associated with adiposity in Hispanics and African Americans.

Pubmed Data : Anticancer Res. 2005 Mar-Apr;25(2A):971-9. PMID: **19549738**

Article Published Date : Mar 01, 2005

Authors : Kendra A Young, Corinne D Engelman, Carl D Langefeld, Kristen G Hairston, Steven M Haffner, Michael Bryer-Ash, Jill M Norris

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Hispanic-American Specific Defiencies/Diseases : CK(30) : AC(3), Obesity : CK(2208) : AC(467) , Obesity: Abdominal : CK(458) : AC(66)

Vitamin D3 supplementation improves insulin sensitivity in obese men.

Pubmed Data : Diabet Med. 2009 Jan;26(1):19-27. PMID: **19125756**

Article Published Date : Jan 01, 2009

Authors : J Nagpal, J N Pande, A Bhartia

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Insulin Resistance : CK(1683) : AC(346) , Obesity : CK(2208) : AC(467)

Obesity: Abdominal (AC 1) (CK 10)

Vitamin D levels are inversely associated with adiposity in Hispanics and African Americans.

Pubmed Data : Anticancer Res. 2005 Mar-Apr;25(2A):971-9. PMID: **19549738**

Article Published Date : Mar 01, 2005

Authors : Kendra A Young, Corinne D Engelman, Carl D Langefeld, Kristen G Hairston, Steven M Haffner, Michael Bryer-Ash, Jill M Norris

Study Type : Human Study

Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Hispanic-American Specific Defiencies/Diseases : CK(30) : AC(3), Obesity : CK(2208) : AC(467) , Obesity: Abdominal : CK(458) : AC(66)

Oral Cancer (AC 1) (CK 1)

Combination of 5-fluorouracil, 13-cis retinoic acid and vitamin D3 has more inhibitory effect on cell proliferation and apoptotic effect than one of these drugs.

Pubmed Data : J Contemp Dent Pract. 2012 May-Jun;13(3):345-50. Epub 2012 May 1. PMID: 22918008

Article Published Date : Apr 30, 2012

Authors : Zohreh Dalirsani, Safar Farajnia, Yousef Javadzadeh, Masoumeh Mehdipour, Sepideh Koozegari

Study Type : In Vitro Study
Additional Links
Substances : Vitamin A : CK(498) : AC(77) , Vitamin D : CK(3209) : AC(455)
Diseases : Oral Cancer : CK(214) : AC(79) , Squamous cell carcinoma : CK(152) : AC(67)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075)
Additional Keywords : Chemothapeutic Synergy: 5-flourouracil : CK(39) : AC(23)

Organ Transplantation: Kidney (AC 1) (CK 10)

Vitamin D deficiency is common in kidney transplant recipients.

Pubmed Data : Transplant Proc. 2009 Jul-Aug;41(6):2388-90. PMID: 19715928

Article Published Date : Jul 01, 2009

Authors : R Marcén, B Ponte, N Rodríguez-Mendiola, A Fernández-Rodriguez, C Galeano, J J Villafruela, J L Teruel, F J Burgos, J Ortuño

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Kidney Transplant : CK(65) : AC(8) , Organ Transplantation: Kidney : CK(80) : AC(8)

Osteoarthritis (AC 1) (CK 10)

Vitamin D deficiency is highly prevalent in RA patients and is associated with higher disease activity and worse QoL indices.

Pubmed Data : J Clin Rheumatol. 2015 Apr ;21(3):126-30. PMID: **25807091**

Article Published Date : Mar 31, 2015

Authors : Anna Raczkiewicz, Bartłomiej Kisiel, Maciej Kulig, Witold Tłustochowicz

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Osteoarthritis : CK(770) : AC(115) , Quality of Life: Poor : CK(438) : AC(45) , Rheumatoid Arthritis : CK(706) : AC(117), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Osteoarthritis: Knee (AC 2) (CK 20)

Low dietary vitamin D intake increases the risk of progresssion of radiographic osteoarthritis of the knee.

Pubmed Data : Digestion. 2008;78(4):224-8. Epub 2009 Jan 13. PMID: **19654490**

Article Published Date : Jan 01, 2008

Authors : Arjan P Bergink, André G Uitterlinden, Johannes P T M Van Leeuwen, Cok J Buurman, Albert Hofman, Jan A N Verhaar, Huibert A P Pols

Study Type : Human Study

Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Osteoarthritis: Knee : CK(517) : AC(53)

Vitamin D deficiency may contribute to the pathogenesis of osteoarthritis of the knee.

Pubmed Data : Ann Intern Med. 1996 Sep 1;125(5):353-9. PMID: **8702085**

Article Published Date : Sep 01, 1996

Authors : T E McAlindon, D T Felson, Y Zhang, M T Hannan, P Aliabadi, B Weissman, D Rush, P W Wilson, P Jacques

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Osteoarthritis: Knee : CK(517) : AC(53)

Osteoclastoma (AC 1) (CK 1)

Treatment of GCT cells with 25D augmented cell migration, as determined by live cell imaging.

Pubmed Data : J Steroid Biochem Mol Biol. 2013 Jul ;136:59-61. Epub 2012 Sep 16. PMID: **22989483**

Article Published Date : Jun 30, 2013

Authors : M Kogawa, D M Findlay, P H Anderson, G J Atkins

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Osteoclastoma : CK(2) : AC(2)
Pharmacological Actions : Anti-metastatic : CK(615) : AC(412)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18)

Osteomalacia (AC 4) (CK 26)

Calcium, Vitamin D and a Gluten-Free diet decreased bone pain and improved muscle strength.

Pubmed Data : Arch Osteoporos. 2011 Dec ;6(1-2):209-213. Epub 2011 Jun 15. PMID: 22207878

Article Published Date : Dec 01, 2011

Authors : Noortje M Rabelink, Hans M Westgeest, Nathalie Bravenboer, Maarten A J M Jacobs, Paul Lips

Study Type : Human: Case Report
Additional Links
Substances : Calcium : CK(287) : AC(44) , Vitamin D : CK(3176) : AC(449)
Diseases : Celiac Disease : CK(1612) : AC(232) , Osteomalacia : CK(37) : AC(5) , Osteoporosis : CK(1283) : AC(245)
Therapeutic Actions : Dietary Modification: Wheat/Gluten Free : CK(293) : AC(46)
Problem Substances : Gluten : CK(1088) : AC(167)

Osteomalacia associated severe proximal myopathy may be due to vitamin D deficiency.

Pubmed Data : Am J Physiol Regul Integr Comp Physiol. 2008 Feb;294(2):R311-20. Epub 2007 Nov 21. PMID: 19534335

Article Published Date : Feb 01, 2008

Authors : Yousef A Al-Said, Hiyam S Al-Rached, Hussien A Al-Qahtani, Mohammed M S Jan

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Myopathy : CK(60) : AC(6) , Osteomalacia : CK(37) : AC(5)

Osteomalacia with bone marrow fibrosis due to severe vitamin D deficiency after a gastrointestinal bypass operation for severe obesity has been reported.

Pubmed Data : Endocr Pract. 2009 Sep-Oct;15(6):528-33. PMID: 19491072

Article Published Date : Sep 01, 2009

Authors : Ahmad Al-Shoha, Shijing Qiu, Saroj Palnitkar, D Sudhaker Rao

Study Type : Human: Case Report
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Gastric Bypass Surgery : CK(33) : AC(4) , Myelofibrosis : CK(19) : AC(4) , Osteomalacia : CK(37) : AC(5), Vitamin D Deficiency : CK(1695) : AC(178)

Persistent, nonspecific musculoskeletal pain caused by

conditions like osteomalacia may be due in part to vitamin D deficiency.

Pubmed Data : Mayo Clin Proc. 2003 Dec;78(12):1463-70. PMID: 14661675

Article Published Date : Dec 01, 2003

Authors : Gregory A Plotnikoff, Joanna M Quigley

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Non-Specific and Persistent : CK(10) : AC(1) , Osteomalacia : CK(37) : AC(5) , Pain: Musculoskeletal : CK(30) : AC(3)

Osteomyelitis (AC 1) (CK 2)

Vitamin D may have a therapeutic role in the treatment of osteomyelitis.

Pubmed Data : Poult Sci. 2002 Jul;81(7):958-65. PMID: 12162356

Article Published Date : Jul 01, 2002

Authors : G R Huff, W E Huff, J M Balog, N C Rath, H Xie, R L Horst

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Osteomyelitis : CK(43) : AC(6)

Osteopenia (AC 1) (CK 10)

Patients with Gaucher disease living in England have a high frequency of vitamin D deficiency

Pubmed Data : Mol Genet Metab. 2009 Mar ;96(3):113-20. Epub 2009 Jan 14. PMID: 19147383

Article Published Date : Mar 01, 2009

Authors : P Mikosch, M Reed, H Stettner, R Baker, A B Mehta, D A Hughes

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Gaucher Disease : CK(10) : AC(1) , Osteopenia : CK(229) : AC(41) , Osteoporosis : CK(1283) : AC(245), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Bone Density : CK(10) : AC(1) , Lysosomal Storage Disorder : CK(10) : AC(1)

Osteoporosis (AC 8) (CK 57)

Calcium, Vitamin D and a Gluten-Free diet decreased bone pain and improved muscle strength.

Pubmed Data : Arch Osteoporos. 2011 Dec ;6(1-2):209-213. Epub 2011 Jun 15. PMID: 22207878

Article Published Date : Dec 01, 2011

Authors : Noortje M Rabelink, Hans M Westgeest, Nathalie Bravenboer, Maarten A J M Jacobs, Paul Lips

Study Type : Human: Case Report
Additional Links
Substances : Calcium : CK(287) : AC(44) , Vitamin D : CK(3176) : AC(449)
Diseases : Celiac Disease : CK(1612) : AC(232) , Osteomalacia : CK(37) : AC(5) , Osteoporosis : CK(1283) : AC(245)
Therapeutic Actions : Dietary Modification: Wheat/Gluten Free : CK(293) : AC(46)
Problem Substances : Gluten : CK(1088) : AC(167)

High dose vitamin D may have a therapeutic role in certain cases of chronic pain associated with sickle cell anemia.

Pubmed Data : J Pediatr Hematol Oncol. 2011 Oct ;33(7):549-51. PMID: 21941148

Article Published Date : Oct 01, 2011

Authors : Ifeyinwa Osunkwo

Study Type : Human: Case Report
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Osteoporosis : CK(1283) : AC(245) , Sickle Cell Anemia : CK(190) : AC(21) , Vitamin D Deficiency : CK(1695) : AC(178)

Hop rho iso-alpha acids, berberine, vitamin D(3) and

vitamin K (1) favorably impact biomarkers of bone turnover in postmenopausal women.

Pubmed Data : J Bone Miner Metab. 2009 Dec 19. Epub 2009 Dec 19. PMID: **20024591**

Article Published Date : Dec 19, 2009

Authors : Michael F Holick, Joseph J Lamb, Robert H Lerman, Veera R Konda, Gary Darland, Deanna M Minich, Anuradha Desai, Tai C Chen, Melissa Austin, Jacob Kornberg, Jyh-Lurn Chang, Alex Hsi, Jeffrey S Bland, Matthew L Tripp

Study Type : Human Study
Additional Links
Substances : Berberine : CK(325) : AC(166) , Hops : CK(76) : AC(26) , Vitamin D : CK(3176) : AC(449) , Vitamin K : CK(645) : AC(85)
Diseases : Osteoporosis : CK(1282) : AC(244)

Individuals with untreated celiac disease may have reduced bone mineral density associated with deficiencies of nutrients.

Pubmed Data : Nutr Rev. 2009 Oct;67(10):599-606. PMID: **19785691**

Article Published Date : Oct 01, 2009

Authors : Vanessa D Capriles, Ligia A Martini, José Alfredo G Arêas

Study Type : Review
Additional Links
Substances : Calcium : CK(287) : AC(44) , Vitamin D : CK(3176) : AC(449)
Diseases : Celiac Disease : CK(1612) : AC(232) , Celiac Disease: In Children and Adolescents : CK(32) : AC(5), Celiac Disease: Refractory : CK(11) : AC(3) , Inflammation : CK(2923) : AC(860) , Osteoporosis : CK(1282) : AC(244), Osteoporosis: In Children & Adolescents : CK(2) : AC(2)
Therapeutic Actions : Dietary Modification: Wheat/Gluten Free : CK(293) : AC(46)

Osteoporosis rates are higher in adult patients with celiac disease.

Pubmed Data : Bone. 1999 Mar;24(3):249-55. PMID: **10071918**

Article Published Date : Mar 01, 1999

Authors : T Kemppainen, H Kröger, E Janatuinen, I Arnala, V M Kosma, P Pikkarainen, R Julkunen, J Jurvelin, E Alhava, M Uusitupa

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Celiac Disease : CK(1612) : AC(232) , Osteoporosis : CK(1283) : AC(245)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Patients with Gaucher disease living in England have a high frequency of vitamin D deficiency

Pubmed Data : Mol Genet Metab. 2009 Mar ;96(3):113-20. Epub 2009 Jan 14. PMID: **19147383**

Article Published Date : Mar 01, 2009

Authors : P Mikosch, M Reed, H Stettner, R Baker, A B Mehta, D A Hughes

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Gaucher Disease : CK(10) : AC(1) , Osteopenia : CK(229) : AC(41) , Osteoporosis : CK(1283) : AC(245), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Bone Density : CK(10) : AC(1) , Lysosomal Storage Disorder : CK(10) : AC(1)

Sunlight exposure ameliorates osteoporosis and hypovitaminosis in Parkinson's disease.

Pubmed Data : Parkinsonism Relat Disord. 2011 Jan;17(1):22-6. Epub 2010 Nov 2. PMID: **21050796**

Article Published Date : Jan 01, 2011

Authors : Yoshihiro Sato, Jun Iwamoto, Yoshiaki Honda

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Osteoporosis : CK(1283) : AC(245) , Vitamin D Deficiency : CK(1695) : AC(178)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)

Vitamin D3 and vitamin K2 have a therapeutic effect on bone mineral density of the lumbar spine in postmenopausal women with osteoporosis.

Pubmed Data : J Nutr. 2008 May;138(5):954-63. PMID: **11180916**

Article Published Date : May 01, 2008

Authors : J Iwamoto, T Takeda, S Ichimura

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449) , Vitamin K : CK(645) : AC(85) , Vitamin K2: Menaquinone-7 : CK(108) : AC(16)
Diseases : Osteoporosis : CK(1283) : AC(245)

Osteoporosis: In Children & Adolescents (AC 1) (CK 1)

Individuals with untreated celiac disease may have reduced bone mineral density associated with deficiencies of nutrients.

Pubmed Data : Nutr Rev. 2009 Oct;67(10):599-606. PMID: 19785691

Article Published Date : Oct 01, 2009

Authors : Vanessa D Capriles, Ligia A Martini, José Alfredo G Arêas

Study Type : Review
Additional Links
Substances : Calcium : CK(287) : AC(44) , Vitamin D : CK(3176) : AC(449)
Diseases : Celiac Disease : CK(1612) : AC(232) , Celiac Disease: In Children and Adolescents : CK(32) : AC(5), Celiac Disease: Refractory : CK(11) : AC(3) , Inflammation : CK(2923) : AC(860) , Osteoporosis : CK(1282) : AC(244), Osteoporosis: In Children & Adolescents : CK(2) : AC(2)
Therapeutic Actions : Dietary Modification: Wheat/Gluten Free : CK(293) : AC(46)

Osteoporosis: Steroid-Induced (AC 1) (CK 10)

Vitamins K2 and D3 have a protective effect on prednisolone-induced loss of bone mineral density in the lumbar spine.

Pubmed Data : Am J Kidney Dis. 2004 Jan;43(1):53-60. PMID: 14712427

Article Published Date : Jan 01, 2004

Authors : Katsuhiko Yonemura, Hirotaka Fukasawa, Yoshihide Fujigaki, Akira Hishida

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455) , Vitamin K : CK(645) : AC(85) , Vitamin K2: Menaquinone-7 : CK(108) : AC(16)
Diseases : Corticosteroid-Induced Toxicity : CK(77) : AC(16) , Osteoporosis: Steroid-Induced : CK(28) : AC(6)
Additional Keywords : Drug: Prednisolone : CK(20) : AC(2)

Osteosarcoma (AC 1) (CK 1)

Vitamin D has profound inhibitory and pro-apoptic effects on human prostate, breast cancer and osteosarcoma cells lines.

Pubmed Data : Cancer Lett. 1997 Nov 25;120(1):65-9. PMID: **9570387**

Article Published Date : Nov 25, 1997

Authors : R S Fife, G W Sledge, C Proctor

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059) , Osteosarcoma : CK(133) : AC(69) , Prostate Cancer : CK(1489) : AC(437)

Otitis media (AC 1) (CK 1)

Vitamin D may be acting as a panaceal antibiotic agent and thus may be useful as an adjuvant therapy in diverse infections.

Pubmed Data : Ann N Y Acad Sci. 2014 May ;1317:76-83. Epub 2014 Mar 4. PMID: **24593793**

Article Published Date : Apr 30, 2014

Authors : Elisabetta Borella, Gideon Nesher, Eitan Israeli, Yehuda Shoenfeld

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bacterial Vaginosis : CK(46) : AC(6) , Clostridium Infections : CK(233) : AC(45) , Dengue Fever : CK(2) : AC(2), Hepatitis B : CK(241) : AC(46), Hepatitis C : CK(474) : AC(87) , HIV Infections : CK(659) : AC(216), Influenza : CK(789) : AC(123) , Otitis media : CK(305) : AC(41) , Pneumonia : CK(399) : AC(54), Sepsis : CK(197) : AC(54) , Upper Respiratory Infections : CK(950) : AC(114) , Urinary Tract Infections : CK(397) : AC(57)

Pharmacological Actions : Anti-Bacterial Agents : CK(1367) : AC(475) , Anti-Infective Agents : CK(43) : AC(18)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Ovarian Cancer (AC 4) (CK 32)

In this cohort, higher serum 25(OH)D concentrations at diagnosis were associated with longer survival among women with ovarian cancer.

Pubmed Data : Am J Clin Nutr. 2015 May 13. Epub 2015 May 13. PMID: **25971716**

Article Published Date : May 12, 2015

Authors : Penelope M Webb, Anna de Fazio, Melinda M Protani, Torukiri I Ibiebele, Christina M Nagle, Alison H Brand, Penelope I Blomfield, Peter Grant, Lewis C Perrin, Rachel E Neale,

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Ovarian Cancer : CK(360) : AC(128)
Additional Keywords : Significant Treatment Outcome : CK(3038) : AC(366)

Review: there is a consistently strong inverse correlations with solar UVB for 15 types of cancers.

Pubmed Data : Anticancer Res. 2012 Jan ;32(1):223-36. PMID: **22213311**

Article Published Date : Jan 01, 2012

Authors : William B Grant

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bladder Cancer : CK(349) : AC(100) , Breast Cancer : CK(3526) : AC(1059) , Cervical Cancer : CK(345) : AC(144), Colon Cancer : CK(749) : AC(430) , Colorectal Cancer : CK(1635) : AC(611) , Endometrial Cancer : CK(307) : AC(53) , Esophageal Cancer : CK(506) : AC(85) , Hodgkin Lymphoma : CK(53) : AC(7), Lung Cancer : CK(1033) : AC(393) , Non-Hodgkin Lymphoma : CK(363) : AC(79) , Ovarian Cancer : CK(360) : AC(128) , Pancreatic Cancer : CK(889) : AC(260) , Renal Cancer : CK(25) : AC(4), Vulvar Cancer : CK(52) : AC(4)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)
Pharmacological Actions : Chemopreventive : CK(2831) : AC(784)

These results indicate that 1α,25(OH)$_2$D$_3$ suppresses the migration and invasion of ovarian cancer cells by inhibiting EMT.

Pubmed Data : Int J Mol Sci. 2016 ;17(8). Epub 2016 Aug 19. PMID: 27548154

Article Published Date : Dec 31, 2015

Authors : Yong-Feng Hou, Si-Hai Gao, Ping Wang, He-Mei Zhang, Li-Zhi Liu, Meng-Xuan Ye, Guang-Ming Zhou, Zeng-Li Zhang, Bing-Yan Li

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Ovarian Cancer : CK(360) : AC(128)
Pharmacological Actions : Anti-metastatic : CK(615) : AC(412)

Vitamin D3 stimulates embryonic stem cells but inhibits migration and growth of ovarian cancer and teratocarcinoma cell lines.

Pubmed Data : J Ovarian Res. 2016 ;9(1):26. Epub 2016 Apr 18. PMID: 27091127

Article Published Date : Dec 31, 2015

Authors : Ahmed Abdelbaset-Ismail, Daniel Pedziwiatr, Ewa Suszyńska, Sylwia Sluczanowska-Glabowska, Gabriela Schneider, Sham S Kakar, Mariusz Z Ratajczak

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Ovarian Cancer : CK(360) : AC(128)
Pharmacological Actions : Anti-metastatic : CK(615) : AC(412), Antiproliferative : CK(2479) : AC(1685)
Additional Keywords : Embryonic Development : CK(3) : AC(2)

Overactive Bladder (AC 1) (CK 20)

Higher intakes of vitamin D, protein and potassium are significantly associated with decreased risks of onset of overactive bladder.

Pubmed Data : Neurourol Urodyn. 2004;23(3):204-10. PMID: 15098215

Article Published Date : Jan 01, 2004

Authors : Helen M Dallosso, Catherine W McGrother, Ruth J Matthews, Madeleine M K Donaldson,

Study Type : Meta Analysis

Additional Links

Substances : Potassium : CK(121) : AC(19) , Protein Supplement : CK(73) : AC(7) , Vitamin D : CK(3209) : AC(455)

Diseases : Overactive Bladder : CK(119) : AC(16)

Overweight (AC 1) (CK 10)

Vitamin D is independently associated with depression and inflammation in overweight women both with and without PCOS.

Pubmed Data : Gynecol Endocrinol. 2014 Nov 4:1-4. Epub 2014 Nov 4. PMID: 25366261

Article Published Date : Nov 03, 2014

Authors : L J Moran, H J Teede, A J Vincent

Study Type : Human Study

Additional Links

Substances : Vitamin D : CK(3176) : AC(449)

Diseases : Depression : CK(1844) : AC(267) , Inflammation : CK(2923) : AC(860) , Overweight : CK(3320) : AC(544), Vitamin D Deficiency : CK(1695) : AC(178)

Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18) , Risk Factors : CK(2584) : AC(332)

Oxidative Stress (AC 8) (CK 38)

A nutraceutical formulation with spirulina may help protect the stem progenitor cells from insults.

Pubmed Data : Minerva Urol Nefrol. 1985 Jan-Mar;37(1):35-50. PMID: PMC2864748

Article Published Date : Dec 31, 1984

Authors : F Aragona, C Spinelli, G Parlato, B Maestrini, F D'Elia, U Simi, L Fiorentini

Study Type : In Vitro Study

Additional Links
Substances : Blueberry : CK(260) : AC(90) , Green Tea : CK(1971) : AC(562) , Spirulina : CK(266) : AC(73), Vitamin D : CK(3176) : AC(449)
Diseases : Brain: Oxidative Stress : CK(79) : AC(46) , Brain Inflammation : CK(259) : AC(143), Oxidative Stress : CK(3855) : AC(1378)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616) , Antioxidants : CK(7304) : AC(2677), Neuroprotective Agents : CK(2268) : AC(1071)
Additional Keywords : Neural Stem Cell : CK(6) : AC(5) , Plant Extracts : CK(7483) : AC(2462)

This study found that inflammation was above the current clinical reference range in all sleep duration categories, whereas oxidative stress was elevated among short and very short sleepers.

Pubmed Data : Sleep. 2015 Jul 24. Epub 2015 Jul 24. PMID: **26237775**

Article Published Date : Jul 23, 2015

Authors : Thirumagal Kanagasabai, Chris I Ardern

Study Type : Human Study
Additional Links
Substances : Carotenoids : CK(1630) : AC(307) , Vitamin C : CK(1956) : AC(403) , Vitamin D : CK(3176) : AC(449)
Diseases : Inflammation : CK(2918) : AC(856) , Oxidative Stress : CK(3855) : AC(1378)
Pharmacological Actions : Antihypertensive Agents : CK(1167) : AC(162) , Antioxidants : CK(7304) : AC(2677)
Additional Keywords : Risk Factors : CK(2584) : AC(332) , Sleep Duration : CK(20) : AC(2)

Virgin olive oil fortified with vitamin D3 is able to counteract the bone loss induced by estrogen deprivation.

Pubmed Data : PLoS One. 2014 ;9(12):e115817. Epub 2014 Dec 31. PMID: **25551374**

Article Published Date : Dec 31, 2013

Authors : Camille Tagliaferri, Marie-Jeanne Davicco, Patrice Lebecque, Stéphane Georgé, Marie-Jo Amiot, Sylvie Mercier, Amélie Dhaussy, Alain Huertas, Stéphane Walrand, Yohann Wittrant, Véronique Coxam

Study Type : Animal Study
Additional Links
Substances : Olive Oil : CK(245) : AC(50) , Polyphenols : CK(930) : AC(334) , Vitamin D : CK(3176) : AC(449)
Diseases : Oxidative Stress : CK(3855) : AC(1378)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Bone Density Conservation Agents : CK(6) : AC(3)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247)

Vit.D protects human endothelial cells from IR induced/oxidative stress by positively regulating the MAPKs/SirT1 axis.

Pubmed Data : J Endocrinol Invest. 2015 Sep 3. Epub 2015 Sep 3. PMID: **26335302**

Article Published Date : Sep 02, 2015

Authors : F Marampon, G L Gravina, C Festuccia, V M Popov, E A Colapietro, P Sanità, D Musio, F De Felice, A Lenzi, E A Jannini, E Di Cesare, V Tombolini

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Oxidative Stress : CK(3855) : AC(1378)
Pharmacological Actions : Radioprotective : CK(756) : AC(262)
Anti Therapeutic Actions : Radiotherapy : CK(402) : AC(70)

Vitamin C, E and melatonin may protect against insecticide-induced oxidative stress.

Pubmed Data : Arch Toxicol. 2001 Apr;75(2):88-96. PMID: **11354911**

Article Published Date : Apr 01, 2001

Authors : F Gultekin, N Delibas, S Yasar, I Kilinc

Study Type : Animal Study
Additional Links
Substances : Melatonin : CK(967) : AC(312) , Vitamin C : CK(1956) : AC(403) , Vitamin D : CK(3176) : AC(449)
Diseases : Oxidative Stress : CK(3855) : AC(1378) , Pesticide Toxicity : CK(190) : AC(60)
Pharmacological Actions : Antioxidants : CK(7304) : AC(2677)

Vitamin D supplementation improved some cardiovascular disease risk factors in healthy volunteers.

Pubmed Data : Ther Adv Endocrinol Metab. 2016 Aug ;7(4):153-65. Epub 2016 Jun 20. PMID: **27540461**

Article Published Date : Jul 31, 2016

Authors : Emad A S Al-Dujaili, Nimrah Munir, Raquel Revuelta Iniesta

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiovascular Diseases : CK(7176) : AC(907) , Oxidative Stress : CK(3855) : AC(1378) , Vitamin D Deficiency : CK(1695) : AC(178)
Therapeutic Actions : Exercise : CK(1235) : AC(193)
Pharmacological Actions : Antioxidants : CK(7304) : AC(2677) , Enzyme Inhibitors : CK(463) : AC(250)

Vitamin D supplementation of patients with major depressive disorder for 8 week had beneficial effects.

Pubmed Data : J Nutr. 2015 Nov 25. Epub 2015 Nov 25. PMID: **26609167**

Article Published Date : Nov 24, 2015

Authors : Zahra Sepehrmanesh, Fariba Kolahdooz, Fatemeh Abedi, Navid Mazroii, Amin Assarian, Zatollah Asemi, Ahmad Esmaillzadeh

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Depression : CK(1884) : AC(270) , Insulin Resistance : CK(1683) : AC(346) , Oxidative Stress : CK(3855) : AC(1378)
Pharmacological Actions : Antidepressive Agents : CK(1004) : AC(162)

Vitamin D3 may have a protective effect on cognitive deficits and oxidative stress in toxic demyelination's model.

Pubmed Data : Iran J Basic Med Sci. 2016 Jan ;19(1):80-8. PMID: **27096068**

Article Published Date : Dec 31, 2015

Authors : Sepideh Tarbali, Shiva Khezri

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cognitive Decline/Dysfunction : CK(1140) : AC(213) , Lipid Peroxidation : CK(695) : AC(255), Multiple Sclerosis : CK(964) : AC(184) , Oxidative Stress : CK(3855) : AC(1378)
Pharmacological Actions : Catalase Up-Regulation : CK(118) : AC(42) , Neuroprotective Agents : CK(2268) : AC(1071)

Pain: Musculoskeletal (AC 1) (CK 10)

Persistent, nonspecific musculoskeletal pain caused by conditions like osteomalacia may be due in part to vitamin D deficiency.

Pubmed Data : Mayo Clin Proc. 2003 Dec;78(12):1463-70. PMID: **14661675**

Article Published Date : Dec 01, 2003

Authors : Gregory A Plotnikoff, Joanna M Quigley

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Non-Specific and Persistent : CK(10) : AC(1) , Osteomalacia : CK(37) : AC(5) , Pain: Musculoskeletal : CK(30) : AC(3)

Pain: Musculoskeletal, Non-Specific and Persistent (AC 1) (CK 10)

Vitamin D supplementation may reduce disability associated with aromatase inhibitors.

Pubmed Data : Breast Cancer Res Treat. 2009 Aug 5; PMID: 19655244

Article Published Date : Aug 05, 2009

Authors : Qamar J Khan, Pavan S Reddy, Bruce F Kimler, Priyanka Sharma, Susan E Baxa, Anne P O'Dea, Jennifer R Klemp, Carol J Fabian

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Drug-Induced Toxicity: Aromatase Inhibitors : CK(20) : AC(2) , Pain: Musculoskeletal, Non-Specific and Persistent : CK(10) : AC(1)

Pancreatic Cancer (AC 5) (CK 43)

A Western-style diet induced pancreatic epithelial cell hyperproliferation in mice, further suggesting that increased fat content and decreased calcium and vitamin D contribute to the development of pancreatic neoplasms.

Pubmed Data : J Natl Cancer Inst. 1996 Nov 6;88(21):1586-90. PMID: **8901857**

Article Published Date : Nov 06, 1996

Authors : L Xue, K Yang, H Newmark, D Leung, M Lipkin

Study Type : Animal Study
Additional Links
Substances : Calcium : CK(287) : AC(44) , Vitamin D : CK(3176) : AC(449)
Diseases : Pancreatic Cancer : CK(889) : AC(260)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685)
Anti Therapeutic Actions : Western Diet : CK(131) : AC(35)

A longer overall survival in patients with pancreatic cancer was found in those who had sufficient pre-diagnostic plasma levels of 25(OH)D.

Pubmed Data : J Clin Oncol. 2016 Jun 20. Epub 2016 Jun 20. PMID: **27325858**

Article Published Date : Jun 19, 2016

Authors : Chen Yuan, Zhi Rong Qian, Ana Babic, Vicente Morales-Oyarvide, Douglas A Rubinson, Peter Kraft, Kimmie Ng, Ying Bao, Edward L Giovannucci, Shuji Ogino, Meir J Stampfer, John Michael Gaziano, Howard D Sesso, Julie E Buring, Barbara B Cochrane, Rowan T Chlebowski, Linda G Snetselaar, JoAnn E Manson, Charles S Fuchs, Brian M Wolpin

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Pancreatic Cancer : CK(889) : AC(260) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Reduction : CK(6346) : AC(680)

Review: there is a consistently strong inverse correlations with solar UVB for 15 types of cancers.

Pubmed Data : Anticancer Res. 2012 Jan ;32(1):223-36. PMID: **22213311**

Article Published Date : Jan 01, 2012

Authors : William B Grant

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bladder Cancer : CK(349) : AC(100) , Breast Cancer : CK(3526) : AC(1059) , Cervical Cancer : CK(345) : AC(144), Colon Cancer : CK(749) : AC(430) , Colorectal Cancer : CK(1635) : AC(611) , Endometrial Cancer : CK(307) : AC(53) , Esophageal Cancer : CK(506) : AC(85) , Hodgkin Lymphoma : CK(53) : AC(7), Lung Cancer : CK(1033) : AC(393) , Non-Hodgkin Lymphoma : CK(363) : AC(79) , Ovarian Cancer : CK(360) : AC(128) , Pancreatic Cancer : CK(889) : AC(260) , Renal Cancer : CK(25) : AC(4), Vulvar Cancer : CK(52) : AC(4)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)
Pharmacological Actions : Chemopreventive : CK(2831) : AC(784)

Vitamin D may have significant value in the prevention and treatment of pancreatic cancer. - Article 1.

Pubmed Data : World J Gastroenterol. 2009 Jul 21;15(27):3349-54. PMID: **19610135**

Article Published Date : Jul 21, 2009

Authors : Kun-Chun Chiang, Tai C Chen

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Pancreatic Cancer : CK(889) : AC(260)
Pharmacological Actions : Chemopreventive : CK(2831) : AC(784) , Chemotherapeutic : CK(397) : AC(152)

Vitamin D may have significant value in the prevention and treatment of pancreatic cancer. - Article 2.

Pubmed Data : Cancer Epidemiol Biomarkers Prev. 2006 Sep;15(9):1688-95. PMID: **16985031**

Article Published Date : Sep 01, 2006

Authors : Halcyon G Skinner, Dominique S Michaud, Edward Giovannucci, Walter C Willett, Graham A Colditz, Charles S Fuchs

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Pancreatic Cancer : CK(889) : AC(260)

Parkinson's Disease (AC 1) (CK 10)

Vitamin D3 supplementation may stabilize PD for a short period in patients with FokI TT or CT genotypes without triggering hypercalcemia.

Pubmed Data : Am J Clin Nutr. 2013 May ;97(5):1004-13. Epub 2013 Mar 13. PMID: **23485413**

Article Published Date : Apr 30, 2013

Authors : Masahiko Suzuki, Masayuki Yoshioka, Masaya Hashimoto, Maiko Murakami, Miki Noya, Daisuke Takahashi, Mitsuyoshi Urashima

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)

Diseases : Parkinson's Disease : CK(538) : AC(166)

Pelvic Floor Dysfunction (PFD) (AC 1) (CK 20)

Higher vitamin D levels are associated with a decreased risk of pelvic floor disorders in women.

Pubmed Data : Obstet Gynecol. 2010 Apr;115(4):795-803. PMID: **20308841**

Article Published Date : Apr 01, 2010

Authors : Samuel S Badalian, Paula F Rosenbaum

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Pelvic Floor Dysfunction (PFD) : CK(50) : AC(4), Vitamin D Deficiency : CK(1695) : AC(178)

Periodontal Diseases (AC 1) (CK 1)

Vitamin D could modulate the inflammatory response in periodontal tissues.

Pubmed Data : Inflammation. 2015 Dec ;38(6):2252-8. PMID: **26156812**

Article Published Date : Nov 30, 2015

Authors : Yoshitaka Hosokawa, Ikuko Hosokawa, Satoru Shindo, Kazumi Ozaki, Takashi Matsuo

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Periodontal Diseases : CK(257) : AC(64)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interleukin-6 Downregulation : CK(1083) : AC(340), Interleukin-8 downregulation : CK(166) : AC(61) , NF-kappaB Inhibitor : CK(1113) : AC(693)

Periodontitis (AC 1) (CK 10)

Vitamin D and calcium supplementation may improve symptoms in chronic periodontitis.

Pubmed Data : J Periodontol. 2009 Sep;80(9):1433-9. PMID: 19722793

Article Published Date : Sep 01, 2009

Authors : D Douglas Miley, M Nathalia Garcia, Charles F Hildebolt, William D Shannon, Rex A Couture, Catherine L Anderson Spearie, Debra A Dixon, Eric M Langenwalter, Cheryl Mueller, Roberto Civitelli

Study Type : Human Study
Additional Links
Substances : Calcium : CK(287) : AC(44) , Vitamin D : CK(3209) : AC(455)
Diseases : Periodontitis : CK(171) : AC(39)

Peripheral Arterial Disease (AC 3) (CK 30)

Low serum 25(OH)D levels were significantly associated with a higher prevalence of PAD in type 2 diabetes patients 65 years of age.

Pubmed Data : Arch Med Res. 2016 Feb 5. Epub 2016 Feb 5. PMID: 26854799

Article Published Date : Feb 04, 2016

Authors : Dong-Mei Li, Ying Zhang, Qian Li, Xiao-Hua Xu, Bo Ding, Jian-Hua Ma

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Diabetes Mellitus: Type 2 : CK(3384) : AC(595) , Peripheral Arterial Disease : CK(282) : AC(29), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Vitamin D deficiency is associated with an increased amputation risk in veterans with peripheral artery disease.

Pubmed Data : J Am Med Dir Assoc. 2011 Jan;12(1):58-61. Epub 2010 Aug 12. PMID: **21194661**

Article Published Date : Jan 01, 2011

Authors : Vamsi C Gaddipati, Beth A Bailey, Reena Kuriacose, Rebecca J Copeland, Todd Manning, Alan N Peiris

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Amputations : CK(10) : AC(1) , Peripheral Arterial Disease : CK(282) : AC(29) , Vitamin D Deficiency : CK(1695) : AC(178)

Vitamin D status is associated the risk of peripheral arterial disease, especially in African-Americans.

Pubmed Data : Am J Clin Nutr. 2008 Dec;88(6):1469-77. PMID: **19064505**

Article Published Date : Dec 01, 2008

Authors : Jared P Reis, Erin D Michos, Denise von Mühlen, Edgar R Miller

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Peripheral Arterial Disease : CK(282) : AC(29), Peripheral Vascular Diseases : CK(221) : AC(23) , Smoking : CK(676) : AC(102)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Peripheral Neuropathies (AC 2) (CK 20)

A combination of quercetin, ascorbyl palmitate and vitamin D appears to safely offer relief of symptomatic diabetic neuropathy.

Pubmed Data : J Diabetes Complications. 2005 Sep-Oct;19(5):247-53. PMID: **16112498**

Article Published Date : Sep 01, 2005

Authors : Paul Valensi, Claude Le Devehat, Jean-Louis Richard, Cherifo Farez, Taraneh Khodabandehlou, Richard A Rosenbloom, Carolyn LeFante

Study Type : Human Study
Additional Links
Substances : Ascorbyl Palmitate : CK(10) : AC(1) , Quercetin : CK(564) : AC(250) , Vitamin C : CK(1956) : AC(403), Vitamin D : CK(3209) : AC(455)
Diseases : Diabetes Mellitus: Type 2 : CK(3384) : AC(595) , Diabetic Neuropathies : CK(233) : AC(36) , Peripheral Neuropathies : CK(214) : AC(35)
Pharmacological Actions : Enzyme Inhibitors : CK(463) : AC(250)

The severity of peripheral neuropathy is associated with lower vitamin D levels.

Pubmed Data : Support Care Cancer. 2016 Feb 23. Epub 2016 Feb 23. PMID: **26902977**

Article Published Date : Feb 22, 2016

Authors : James Wang, Kyle A Udd, Aleksandra Vidisheva, Regina A Swift, Tanya M Spektor, Eric Bravin, Emad Ibrahim, Jonathan Treisman, Mohammed Masri, James R Berenson

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Multiple Myeloma : CK(213) : AC(71) , Peripheral Neuropathies : CK(214) : AC(35) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18)

Peripheral Vascular Diseases (AC 1) (CK 10)

Vitamin D status is associated the risk of peripheral arterial disease, especially in African-Americans.

Pubmed Data : Am J Clin Nutr. 2008 Dec;88(6):1469-77. PMID: **19064505**

Article Published Date : Dec 01, 2008

Authors : Jared P Reis, Erin D Michos, Denise von Mühlen, Edgar R Miller

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Peripheral Arterial

Disease : CK(282) : AC(29), Peripheral Vascular Diseases : CK(221) : AC(23) , Smoking : CK(676) : AC(102)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Pesticide Toxicity (AC 1) (CK 2)

Vitamin C, E and melatonin may protect against insecticide-induced oxidative stress.

Pubmed Data : Arch Toxicol. 2001 Apr;75(2):88-96. PMID: **11354911**

Article Published Date : Apr 01, 2001

Authors : F Gultekin, N Delibas, S Yasar, I Kilinc

Study Type : Animal Study
Additional Links
Substances : Melatonin : CK(967) : AC(312) , Vitamin C : CK(1956) : AC(403) , Vitamin D : CK(3176) : AC(449)
Diseases : Oxidative Stress : CK(3855) : AC(1378) , Pesticide Toxicity : CK(190) : AC(60)
Pharmacological Actions : Antioxidants : CK(7304) : AC(2677)

Pesticide-Induced Toxicity: Organochlorines (AC 1) (CK 10)

Background exposure to some organochlorine pesticides appears to lead to vitamin D deficiency in human.

Pubmed Data : PLoS One. 2012 ;7(1):e30093. Epub 2012 Jan 25. PMID: **22295072**

Article Published Date : Jan 01, 2012

Authors : Jin-Hoon Yang, Yu-Mi Lee, Sang-Geun Bae, David R Jacobs, Duk-Hee Lee

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Pesticide-Induced Toxicity: Organochlorines : CK(32) : AC(4) , Vitamin D Deficiency : CK(1695) : AC(178)

Problem Substances : Organochlorine pesticides : CK(288) : AC(32)

Plantar Wart (AC 1) (CK 10)

Intralesional vitamin D3 may be an effective treatment option for warts.

Pubmed Data : J Cutan Med Surg. 2015 Aug 20. Epub 2015 Aug 20. PMID: 26294740

Article Published Date : Aug 19, 2015

Authors : Habibullah Aktaş, Can Ergin, Betül Demir, Özlem Ekiz

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Plantar Wart : CK(3) : AC(1)
Additional Keywords : Significant Treatment Outcome : CK(3038) : AC(366)

Pneumonia (AC 6) (CK 42)

High dose vitamin D3 prevents recurrence of pneumonia in children treated with antibiotics.

Pubmed Data : Trop Med Int Health. 2010 Oct;15(10):1148-55. Epub 2010 Aug 17. PMID: 20723187

Article Published Date : Oct 01, 2010

Authors : Semira Manaseki-Holland, Ghulam Qader, Mohammad Isaq Masher, Jane Bruce, M Zulf Mughal, Daniel Chandramohan, Gijs Walraven

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Childhood Infections : CK(275) : AC(29) , Pneumonia : CK(399) : AC(54) , Upper Respiratory Infections : CK(950) : AC(114)
Pharmacological Actions : Anti-Bacterial Agents : CK(1367) : AC(475)
Additional Keywords : Drug Synergy : CK(351) : AC(156)

Low vitamin D levels are frequently found in patients with AEP and are comparable with those in patients with PTB and CAP.

Pubmed Data : Tuberc Respir Dis (Seoul). 2015 Jul ;78(3):232-238. Epub 2015 Jun 30. PMID: 26175777

Article Published Date : Jun 30, 2015

Authors : Byung Woo Jhun, Se Jin Kim, Kang Kim, Ji Eun Lee, Duck Jin Hong

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Pneumonia : CK(399) : AC(54) , Pneumonia: Eosinophilic : CK(10) : AC(1), Tuberculosis : CK(312) : AC(54), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

The prevalence of vitamin D deficiency was ~80% in patients hospitalised with community-acquired pneumonia.

Pubmed Data : Int J Tuberc Lung Dis. 2015 Jun ;19(6):729-34. PMID: 25946368

Article Published Date : May 31, 2015

Authors : H J Kim, J G Jang, K S Hong, J-K Park, E-Y Choi

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Mortality: All-Cause : CK(713) : AC(63) , Pneumonia : CK(399) : AC(54) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332) , Risk Reduction : CK(6366) : AC(681)

There is a high frequency of nutritional rickets in children admitted with severe pneumonia.

Pubmed Data : J Pak Med Assoc. 2010 Sep;60(9):729-32. PMID: 21381578

Article Published Date : Sep 01, 2010

Authors : Nighat Haider, Abdul Ghaffar Nagi, Khalid Mehmood A Khan

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Childhood Chronic Lung Diseases : CK(40) : AC(4) , Childhood Infections : CK(275) : AC(29), Pneumonia : CK(409) : AC(55) , Rickets : CK(20) : AC(2) , Vitamin D Deficiency : CK(1695) : AC(178)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)

This review details the association between vitamin D deficiency and common infections.

Pubmed Data : Can J Physiol Pharmacol. 2015 May ;93(5):363-8. Epub 2015 Jan 26. PMID: 25741906

Article Published Date : Apr 30, 2015

Authors : Richard R Watkins, Tracy L Lemonovich, Robert A Salata

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hepatitis C : CK(474) : AC(87) , HIV Infections : CK(659) : AC(216) , Influenza : CK(789) : AC(123), Pneumonia : CK(399) : AC(54) , Sepsis : CK(197) : AC(54) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(244) : AC(92), Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Anti-Bacterial Agents : CK(1367) : AC(475)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Vitamin D may be acting as a panaceal antibiotic agent and thus may be useful as an adjuvant therapy in diverse infections.

Pubmed Data : Ann N Y Acad Sci. 2014 May ;1317:76-83. Epub 2014 Mar 4. PMID: 24593793

Article Published Date : Apr 30, 2014

Authors : Elisabetta Borella, Gideon Nesher, Eitan Israeli, Yehuda Shoenfeld

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bacterial Vaginosis : CK(46) : AC(6) , Clostridium Infections : CK(233) : AC(45) , Dengue Fever : CK(2) : AC(2), Hepatitis B : CK(241) : AC(46), Hepatitis C : CK(474) : AC(87) , HIV Infections : CK(659) : AC(216), Influenza : CK(789) : AC(123) , Otitis media : CK(305) : AC(41) , Pneumonia : CK(399) : AC(54), Sepsis : CK(197) : AC(54) , Upper Respiratory Infections : CK(950) : AC(114) , Urinary Tract Infections : CK(397) : AC(57)
Pharmacological Actions : Anti-Bacterial Agents : CK(1367) : AC(475) , Anti-Infective Agents : CK(43) : AC(18)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Pneumonia: Eosinophilic (AC 1) (CK 10)

Low vitamin D levels are frequently found in patients with AEP and are comparable with those in patients with PTB and CAP.

Pubmed Data : Tuberc Respir Dis (Seoul). 2015 Jul ;78(3):232-238. Epub 2015 Jun 30. PMID: 26175777

Article Published Date : Jun 30, 2015

Authors : Byung Woo Jhun, Se Jin Kim, Kang Kim, Ji Eun Lee, Duck Jin Hong

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Pneumonia : CK(399) : AC(54) , Pneumonia: Eosinophilic : CK(10) : AC(1), Tuberculosis : CK(312) : AC(54), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Polycystic Ovary Syndrome (AC 1) (CK 20)

Serum level of vitamin D was associated with the risk of polycystic ovary syndrome.

Pubmed Data : J Obstet Gynaecol Res. 2015 Sep 14. Epub 2015 Sep 14. PMID: 26370491

Article Published Date : Sep 13, 2015

Authors : Xin-Zhuan Jia, Yong-Mei Wang, Na Zhang, Li-Na Guo, Xiu-Li Zhen, Hui Li, Lan Wei

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Polycystic Ovary Syndrome : CK(346) : AC(43) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332) , Risk Reduction : CK(6366) : AC(681)

Porphyria: Erythropoietic (AC 1) (CK

10)

Vitamin D supplementation may be beneficial to patients with erythopoietic protoporphyria.

Pubmed Data : Br J Dermatol. 2008 Jul;159(1):211-3. Epub 2008 Jul 1. PMID: 18476956

Article Published Date : Jul 01, 2008

Authors : S A Holme, A V Anstey, M N Badminton, G H Elder

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Porphyria: Erythropoietic : CK(10) : AC(1) , Porphyrias : CK(45) : AC(8)

Porphyrias (AC 1) (CK 10)

Vitamin D supplementation may be beneficial to patients with erythopoietic protoporphyria.

Pubmed Data : Br J Dermatol. 2008 Jul;159(1):211-3. Epub 2008 Jul 1. PMID: 18476956

Article Published Date : Jul 01, 2008

Authors : S A Holme, A V Anstey, M N Badminton, G H Elder

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Porphyria: Erythropoietic : CK(10) : AC(1) , Porphyrias : CK(45) : AC(8)

Postcholecystectomy syndrome (AC 1) (CK 1)

Cholestectomy may result in malabsorption of vitamin D

and thereby contribute to osteoporosis and osteopenia.

Pubmed Data : Eksp Klin Gastroenterol. 2010(4):14-20. PMID: 20623948

Article Published Date : Jan 01, 2010

Authors : E S Koricheva, A A Il'chenko, E Ia Selezneva, V N Drozdov

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Cholecystectomy : CK(104) : AC(7) , Digestive System Surgical Procedures : CK(1) : AC(1) , Empyema: Gallbladder : CK(1) : AC(1) , Postcholecystectomy syndrome : CK(1) : AC(1)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Pre-Eclampsia (AC 3) (CK 21)

Maternal vitamin D deficiency increases the risk of preeclampsia.

Pubmed Data : J Clin Endocrinol Metab. 2007 Sep ;92(9):3517-22. Epub 2007 May 29. PMID: 17535985

Article Published Date : Sep 01, 2007

Authors : Lisa M Bodnar, Janet M Catov, Hyagriv N Simhan, Michael F Holick, Robert W Powers, James M Roberts

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Pre-Eclampsia : CK(299) : AC(33), Vitamin D Deficiency : CK(1695) : AC(178)

Vitamin D intake in infancy reduces the risk of pre-eclampsia much later in life.

Pubmed Data : Eur J Clin Nutr. 2007 Sep;61(9):1136-9. Epub 2007 Jan 31. PMID: 17268418

Article Published Date : Sep 01, 2007

Authors : E Hyppönen, A-L Hartikainen, U Sovio, M-R Järvelin, A Pouta

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Infant Nutrition : CK(90) : AC(14) , Pre-Eclampsia : CK(299) : AC(33)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Vitamin D supplementation may reduce the risk of preeclampsia in women who have never given birth to a child.

Pubmed Data : J Nutr. 2003 Jun;133(6):1826-9. PMID: **19451820**

Article Published Date : Jun 01, 2003

Authors : Margaretha Haugen, Anne Lise Brantsaeter, Lill Trogstad, Jan Alexander, Christine Roth, Per Magnus, Helle Margrete Meltzer

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Pre-Eclampsia : CK(299) : AC(33)

Prediabetes (AC 1) (CK 1)

The role of some natural Nrf2 activators and its effect in diabetes is discussed in this review.

Pubmed Data : Clin Chim Acta. 2015 Jul 9. Epub 2015 Jul 9. PMID: **26165427**

Article Published Date : Jul 08, 2015

Authors : Angélica Saraí Jiménez-Osorio, Susana González-Reyes, José Pedraza-Chaverri

Study Type : Review
Additional Links
Substances : Curcumin : CK(4135) : AC(2175) , Resveratrol : CK(1245) : AC(746) , Sulforaphane : CK(533) : AC(262), Vitamin D : CK(3176) : AC(449)
Diseases : Diabetes Mellitus: Type 1: Prevention : CK(255) : AC(50) , Diabetes Mellitus: Type 2 : CK(3384) : AC(595), Hyperglycemia : CK(539) : AC(130) , Prediabetes : CK(150) : AC(17)
Pharmacological Actions : Antioxidants : CK(7304) : AC(2677) , Nrf2 activation : CK(175) : AC(85)

Premenstrual syndrome (AC 1) (CK 10)

Supplemental therapy with vitamins D and E is an effective and affordable treatment for PMS.

Pubmed Data : Iran J Nurs Midwifery Res. 2016 Mar-Apr;21(2):159-64. PMID: 27095989

Article Published Date : Feb 29, 2016

Authors : Hajar Dadkhah, Elham Ebrahimi, Nahid Fathizadeh

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455) , Vitamin E : CK(1656) : AC(290)
Diseases : Premenstrual syndrome : CK(230) : AC(23)

Prenatal Nutrition (AC 4) (CK 22)

4,000 i.u of vitamin D supplementation during pregnancy is considered safe and effective in achieving sufficiency in all women and their neonates regardless of race

Pubmed Data : J Bone Miner Res. 2011 Oct ;26(10):2341-57. PMID: 21706518

Article Published Date : Oct 01, 2011

Authors : Bruce W Hollis, Donna Johnson, Thomas C Hulsey, Myla Ebeling, Carol L Wagner

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Prenatal Nutrition : CK(180) : AC(25), Prenatal Nutrition: Health of the Offspring : CK(246) : AC(35), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Vitamin D Dosage : CK(11) : AC(2)

Adequate vitamin D status is exceedingly important during pregnancy.

Pubmed Data : Placenta. 2010 Dec;31(12):1027-34. Epub 2010 Sep 22. PMID: 20863562

Article Published Date : Dec 01, 2010

Authors : J S Shin, M Y Choi, M S Longtine, D M Nelson

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Prenatal Nutrition : CK(180) : AC(25), Prenatal Nutrition: Health of the Offspring : CK(246) : AC(35), Prenatal Nutrition: Prevention of Problems : CK(367) : AC(42)

Maternal vitamin D intake from foods during pregnancy may be negatively associated with risk of asthma and allergic rhinitis in childhood.

Pubmed Data : Clin Exp Allergy. 2009 Jun;39(6):875-82. PMID: 19522996

Article Published Date : Jun 01, 2009

Authors : M Erkkola, M Kaila, B I Nwaru, C Kronberg-Kippilä, S Ahonen, J Nevalainen, R Veijola, J Pekkanen, J Ilonen, O Simell, M Knip, S M Virtanen

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Allergic Rhinitis: Prevention : CK(12) : AC(2) , Asthma: Prevention : CK(40) : AC(3) , Prenatal Nutrition : CK(180) : AC(25), Prenatal Nutrition: Health of the Offspring : CK(246) : AC(35) , Prenatal Nutrition: Prevention of Problems : CK(367) : AC(42)

Vitamin D deficiency during pregnancy has been linked with a number of maternal problems including infertility, preeclampsia, gestational diabetes and an increased rate of caesarean section.

Pubmed Data : Best Pract Res Clin Endocrinol Metab. 2010 Aug;24(4):527-39. PMID: 20832734

Article Published Date : Aug 01, 2010

Authors : Helen Barrett, Aidan McElduff

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Prenatal Nutrition : CK(180) : AC(25), Vitamin D Deficiency : CK(1695) : AC(178)

Prenatal Nutrition: Health of the Offspring (AC 7) (CK 53)

4,000 i.u of vitamin D supplementation during pregnancy is considered safe and effective in achieving sufficiency in

all women and their neonates regardless of race

Pubmed Data : J Bone Miner Res. 2011 Oct ;26(10):2341-57. PMID: 21706518

Article Published Date : Oct 01, 2011

Authors : Bruce W Hollis, Donna Johnson, Thomas C Hulsey, Myla Ebeling, Carol L Wagner

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Prenatal Nutrition : CK(180) : AC(25), Prenatal Nutrition: Health of the Offspring : CK(246) : AC(35), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Vitamin D Dosage : CK(11) : AC(2)

Adequate vitamin D status is exceedingly important during pregnancy.

Pubmed Data : Placenta. 2010 Dec;31(12):1027-34. Epub 2010 Sep 22. PMID: 20863562

Article Published Date : Dec 01, 2010

Authors : J S Shin, M Y Choi, M S Longtine, D M Nelson

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Prenatal Nutrition : CK(180) : AC(25), Prenatal Nutrition: Health of the Offspring : CK(246) : AC(35), Prenatal Nutrition: Prevention of Problems : CK(367) : AC(42)

Breastfed infants in winter who did not receive vitamin D supplementation were the most severely vitamin D deficient (78%).

Pubmed Data : Arch Pediatr Adolesc Med. 2008 Jun;162(6):513-9. PMID: 18524740

Article Published Date : Jun 01, 2008

Authors : Alisha J Rovner, Kimberly O O'Brien

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Breastfeeding: Nutritional Deficiencies : CK(47) : AC(6) , Infant Nutrition : CK(90) : AC(14) , Lactation Disorders : CK(142) : AC(18) , Prenatal Nutrition: Health of the Offspring : CK(246) : AC(35) , Vitamin D Deficiency : CK(1695) : AC(178)

Higher maternal milk and vitamin D intake during pregnancy may be associated with a lower risk of developing MS in offspring.

Pubmed Data : Ann Neurol. 2011 Jul ;70(1):30-40. PMID: **21786297**

Article Published Date : Jul 01, 2011

Authors : Fariba Mirzaei, Karin B Michels, Kassandra Munger, Eilis O'Reilly, Tanuja Chitnis, Michele R Forman, Edward Giovannucci, Bernard Rosner, Alberto Ascherio

Study Type : Meta Analysis
Additional Links
Substances : Cow Milk : CK(20) : AC(3) , Vitamin D : CK(3209) : AC(455)
Diseases : Multiple Sclerosis: Prevention : CK(21) : AC(1) , Prenatal Nutrition: Health of the Offspring : CK(246) : AC(35)
Therapeutic Actions : Breastfeeding : CK(803) : AC(85)

Maternal vitamin D intake from foods during pregnancy may be negatively associated with risk of asthma and allergic rhinitis in childhood.

Pubmed Data : Clin Exp Allergy. 2009 Jun;39(6):875-82. PMID: **19522996**

Article Published Date : Jun 01, 2009

Authors : M Erkkola, M Kaila, B I Nwaru, C Kronberg-Kippilä, S Ahonen, J Nevalainen, R Veijola, J Pekkanen, J Ilonen, O Simell, M Knip, S M Virtanen

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Allergic Rhinitis: Prevention : CK(12) : AC(2) , Asthma: Prevention : CK(40) : AC(3) , Prenatal Nutrition : CK(180) : AC(25), Prenatal Nutrition: Health of the Offspring : CK(246) : AC(35) , Prenatal Nutrition: Prevention of Problems : CK(367) : AC(42)

Prenatal vitamin D deficiency may predispose offspring to higher rates of schizophrenia.

Pubmed Data : Schizophr Bull. 2009 May;35(3):582-95. Epub 2009 Apr 8. PMID: **19357239**

Article Published Date : May 01, 2009

Authors : Dennis K Kinney, Pamela Teixeira, Diane Hsu, Siena C Napoleon, David J Crowley, Andrea Miller, William Hyman, Emerald Huang

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Prenatal Nutrition: Health of the Offspring : CK(246) : AC(35) , Schizophrenia : CK(445) : AC(70)

Vitamin D supplementation administered during pregnancy and childhood may prevent multiple sclerosis.

Pubmed Data : JAMA. 2002 Nov 27;288(20):2554-60. PMID: **15617877**

Article Published Date : Nov 27, 2002

Authors : Abhijit Chaudhuri

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Childhood Deficiencies : CK(41) : AC(4), Infant Nutrition : CK(90) : AC(14) , Multiple Sclerosis : CK(964) : AC(184), Prenatal Nutrition: Health of the Offspring : CK(246) : AC(35)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Prenatal Nutrition: Prevention of Problems (AC 7) (CK 61)

Adequate vitamin D status is exceedingly important during pregnancy.

Pubmed Data : Placenta. 2010 Dec;31(12):1027-34. Epub 2010 Sep 22. PMID: **20863562**

Article Published Date : Dec 01, 2010

Authors : J S Shin, M Y Choi, M S Longtine, D M Nelson

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Prenatal Nutrition : CK(180) : AC(25), Prenatal Nutrition: Health of the Offspring : CK(246) : AC(35), Prenatal Nutrition: Prevention of Problems : CK(367) : AC(42)

Cord-blood levels of 25(OH)D has an inverse associations with risk of respiratory infection and childhood wheezing.

Pubmed Data : Pediatrics. 2010 Dec 27. Epub 2010 Dec 27. PMID: **21187313**

Article Published Date : Dec 27, 2010

Authors : Carlos A Camargo, Tristram Ingham, Kristin Wickens, Ravi Thadhani, Karen M Silvers, Michael J Epton, G Ian Town, Philip K Pattemore, Janice A Espinola, Julian Crane,

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Infant Infections : CK(410) : AC(44) , Prenatal Nutrition: Prevention of Problems : CK(367) : AC(42), Respiratory Infections: Infants & Children : CK(90) : AC(9)

Maternal and infant vitamin D supplementation significantly decreases vitamin D deficiency in breastfed infants.

Pubmed Data : Matern Child Nutr. 2009 Jan;5(1):25-32. PMID: **19161542**

Article Published Date : Jan 01, 2009

Authors : Hussein F Saadi, Adekunle Dawodu, Bachar Afandi, Reem Zayed, Sheela Benedict, Nicolaas Nagelkerke, Bruce W Hollis

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Infant Nutrition : CK(90) : AC(14) , Prenatal Nutrition: Prevention of Problems : CK(367) : AC(42)

Maternal vitamin D deficiency in early pregnancy is significantly associated with an elevated risk for gestational diabetes mellitus.

Pubmed Data : PLoS One. 2008;3(11):e3753. Epub 2008 Nov 18. PMID: **19015731**

Article Published Date : Jan 01, 2008

Authors : Cuilin Zhang, Chunfang Qiu, Frank B Hu, Robert M David, Rob M van Dam, Alexander Bralley, Michelle A Williams

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Gestational Diabetes : CK(76) : AC(10), Prenatal Nutrition: Prevention of Problems : CK(367) : AC(42)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Maternal vitamin D deficiency is associated with bacterial vaginosis in the first trimester of pregnancy.

Pubmed Data : J Nutr. 2009 Jun;139(6):1157-61. Epub 2009 Apr 8. PMID: **19357214**

Article Published Date : Jun 01, 2009

Authors : Lisa M Bodnar, Marijane A Krohn, Hyagriv N Simhan

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Bacterial Vaginosis : CK(46) : AC(6) , Prenatal Nutrition: Prevention of Problems : CK(367) : AC(42)

Maternal vitamin D intake from foods during pregnancy may be negatively associated with risk of asthma and allergic rhinitis in childhood.

Pubmed Data : Clin Exp Allergy. 2009 Jun;39(6):875-82. PMID: **19522996**

Article Published Date : Jun 01, 2009

Authors : M Erkkola, M Kaila, B I Nwaru, C Kronberg-Kippilä, S Ahonen, J Nevalainen, R Veijola, J Pekkanen, J Ilonen, O Simell, M Knip, S M Virtanen

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Allergic Rhinitis: Prevention : CK(12) : AC(2) , Asthma: Prevention : CK(40) : AC(3) , Prenatal Nutrition : CK(180) : AC(25), Prenatal Nutrition: Health of the Offspring : CK(246) : AC(35) , Prenatal Nutrition: Prevention of Problems : CK(367) : AC(42)

Vitamin D supplementation during infancy, as well as intake of vitamin D during pregnancy has been associated with decreased risk of type 1 diabetes.

Pubmed Data : Pediatr Diabetes. 2007 Feb;8(1):11-4. PMID: **17341286**

Article Published Date : Feb 01, 2007

Authors : Hilde K Brekke, Johnny Ludvigsson

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Autoimmune Diseases : CK(6604) : AC(1119) , Diabetes Mellitus: Type 1 : CK(1086) : AC(290), Prenatal Nutrition: Prevention of Problems : CK(367) : AC(42)

Preneoplastic Conditions (AC 1) (CK 1)

Low calcemic vitamin D analogues or optimal level of vitamin D by proper supplementation, can enhance the anticancer efficacy of cisplatin.

Pubmed Data : Steroids. 2016 Apr 13. Epub 2016 Apr 13. PMID: **27083311**

Article Published Date : Apr 12, 2016

Authors : Anna Piotrowska, Justyna Wierzbicka, Tomasz Ślebioda, Michał Woźniak, Robert C Tuckey, Andrzej T Slominski, Michał A Żmijewski

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Preneoplastic Conditions : CK(2) : AC(1)
Additional Keywords : Chemotherapeutic Synergy: Cisplatin : CK(80) : AC(57)

Promyelocytic leukemia (AC 3) (CK 3)

Betulinic acid enhances vitamin D3-induced differentiation in human promyelocytic leukemia cells.

Pubmed Data : Anticancer Drugs. 2004 Jul;15(6):619-24. PMID: **15205607**

Article Published Date : Jul 01, 2004

Authors : Ka-Hung Poon, Jinxia Zhang, Cheng Wang, Anfernee Kai-Wing Tse, Chi-Keung Wan, Wang-Fun Fong

Study Type : In Vitro Study
Additional Links
Substances : Betulinic acid : CK(28) : AC(18) , Vitamin D : CK(3209) : AC(455)
Diseases : Promyelocytic leukemia : CK(98) : AC(83)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247)

Capsaicin potentiates the vitamin D3-induced and all-trans retinoic acid-induced differentiation of human promyelocytic leukemia cells.

Pubmed Data : Eur J Pharmacol. 2001 May 25;420(2-3):83-90. PMID: **11408028**

Article Published Date : May 25, 2001

Authors : S N Kang, S W Chung, T S Kim

Study Type : In Vitro Study
Additional Links
Substances : Capsaicin : CK(129) : AC(55) , Vitamin D : CK(3176) : AC(449)
Diseases : Promyelocytic leukemia : CK(98) : AC(83)
Pharmacological Actions : Chemosensitizer : CK(394) : AC(286) , Enzyme Inhibitors : CK(463) : AC(250)
Additional Keywords : Drug-Plant-Vitamin Synergies : CK(965) : AC(266) , Natural Substance Synergy : CK(537) : AC(247)

Curcumin enhances leukemia cell differentiation.

Pubmed Data : Oncol Res. 1997;9(1):31-9. PMID: **9112258**

Article Published Date : Jan 01, 1997

Authors : J A Sokoloski, K Shyam, A C Sartorelli

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4135) : AC(2175), Vitamin D : CK(3176) : AC(449)
Diseases : Promyelocytic leukemia : CK(98) : AC(83)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Cell Differentiation Inducer : CK(6) : AC(5), NF-kappaB Inhibitor : CK(1114) : AC(694)
Additional Keywords : Drug Synergy : CK(351) : AC(156)

Prostate Cancer (AC 4) (CK 4)

Calcitriol sensitizes prostate cancer cells to aPPD-mediated anticancer effects.

Pubmed Data : J Steroid Biochem Mol Biol. 2016 Apr ;158:207-19. Epub 2015 Dec 17. PMID: **26709138**

Article Published Date : Mar 31, 2016

Authors : Mohamed Ben-Eltriki, Subrata Deb, Hans Adomat, Emma S Tomlinson Guns

Study Type : In Vitro Study
Additional Links
Substances : Ginsenosides : CK(69) : AC(28), Vitamin D : CK(3176) : AC(449)
Diseases : Prostate Cancer : CK(1489) : AC(437)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075)
Additional Keywords : Natural Substance/Drug Synergy : CK(352) : AC(142)

Menthol, a key component of peppermint oil, enhances an antiproliferative activity of vitamin D in prostate cancer cells.

Pubmed Data : J Clin Biochem Nutr. 2009 Mar;44(2):125-30. Epub 2009 Feb 28. PMID: **19308266**

Article Published Date : Mar 01, 2009

Authors : Eun-Jung Park, Su-Hwa Kim, Byung-Joo Kim, Sung-Young Kim, Insuk So, Ju-Hong Jeon

Study Type : In Vitro Study
Additional Links

Substances : Menthol : CK(12) : AC(3), Peppermint : CK(333) : AC(53) , Vitamin D : CK(3176) : AC(449)
Diseases : Prostate Cancer : CK(1489) : AC(437)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685)

The present study supports the hypothesis that local production of 1α,25(OH)2D is important in inhibiting prostate cancer development and growth.

Pubmed Data : Anticancer Res. 2015 Jul ;35(7):3773-9. PMID: **26124321**

Article Published Date : Jun 30, 2015

Authors : Mara Banks, Michael F Holick

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Prostate Cancer : CK(1489) : AC(437)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18) , 25-hydroxyvitamin D : CK(137) : AC(18), 25-hydroxyvitamin D : CK(137) : AC(18)

Vitamin D has profound inhibitory and pro-apoptic effects on human prostate, breast cancer and osteosarcoma cells lines.

Pubmed Data : Cancer Lett. 1997 Nov 25;120(1):65-9. PMID: **9570387**

Article Published Date : Nov 25, 1997

Authors : R S Fife, G W Sledge, C Proctor

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059) , Osteosarcoma : CK(133) : AC(69) , Prostate Cancer : CK(1489) : AC(437)

Proteinuria (AC 1) (CK 2)

Vitamin D may revert proteinuria, counteracting glomerular injury.

Pubmed Data : Phytother Res. 2009 Mar;23(3):404-6. PMID: 16388728

Article Published Date : Mar 01, 2009

Authors : M Migliori, L Giovannini, V Panichi, C Filippi, D Taccola, N Origlia, C Mannari, G Camussi

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Membranoproliferative glomerulonephritis (MPGN) : CK(10) : AC(6) , Proteinuria : CK(103) : AC(20)

Psoriasis (AC 3) (CK 12)

Calcium, vitamin D, vitamin A may have a therapeutic role in diseases such as rosacea and psoriasis by influencing the innate antiobiotic and immomodulator cathelicidin.

Pubmed Data : J Invest Dermatol. 2010 Jan 21. Epub 2010 Jan 21. PMID: 20090765

Article Published Date : Jan 21, 2010

Authors : [No authors listed]

Study Type : Commentary
Additional Links
Substances : Calcium : CK(287) : AC(44) , Vitamin A : CK(498) : AC(77) , Vitamin D : CK(3176) : AC(449)
Diseases : Psoriasis : CK(352) : AC(65) , Rosacea : CK(175) : AC(21)

Vitamin D improves the condition of patients with psoriasis.

Pubmed Data : Br J Dermatol. 1986 Oct;115(4):421-9. PMID: 3022784

Article Published Date : Oct 01, 1986

Authors : S Morimoto, K Yoshikawa, T Kozuka, Y Kitano, S Imanaka, K Fukuo, E Koh, Y Kumahara

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Psoriasis : CK(352) : AC(65)

Vitamin D may have a therapeutic role in diseases such as psoriasis and rosacea by regulating cathelicin.

Pubmed Data : J Allergy Clin Immunol. 2009 Sep;124(3 Suppl 2):R13-8. PMID: **19720207**

Article Published Date : Sep 01, 2009

Authors : Jürgen Schauber, Richard L Gallo

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Psoriasis : CK(352) : AC(65), Rosacea : CK(175) : AC(21)

Psoriatic Arthritis (AC 1) (CK 10)

Vitamin D generates significant improvement in psoriatic arthritis.

Pubmed Data : Arthritis Rheum. 1990 Nov;33(11):1723-7. PMID: **2242069**

Article Published Date : Nov 01, 1990

Authors : D Huckins, D T Felson, M Holick

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Psoriatic Arthritis : CK(60) : AC(6)

Pulmonary Tubercolosis (AC 4) (CK 22)

Vitamin D and vitmain A (retinoic acid) may have a therapeutic role in the treatment of intracelleular infection, particular tubercolosis.

Pubmed Data : J Microbiol Immunol Infect. 2008 Feb;41(1):17-25. PMID: **18327422**

Article Published Date : Feb 01, 2008

Authors : Paras K Anand, Deepak Kaul, Meera Sharma

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)

Diseases : Bacterial Infections and Mycoses : CK(129) : AC(55) , Pulmonary Tubercolosis : CK(80) : AC(12), Tuberculosis : CK(312) : AC(54)

Vitamin D enhances immunity against mycobacteria associated with tubercolosis.

Pubmed Data : Am J Respir Crit Care Med. 2007 Jul 15;176(2):208-13. Epub 2007 Apr 26. PMID: 17463418

Article Published Date : Jul 15, 2007

Authors : Adrian R Martineau, Robert J Wilkinson, Katalin A Wilkinson, Sandra M Newton, Beate Kampmann, Bridget M Hall, Geoffrey E Packe, Robert N Davidson, Sandra M Eldridge, Zoë J Maunsell, Sandra J Rainbow, Jacqueline L Berry, Christopher J Griffiths

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Pulmonary Tubercolosis : CK(80) : AC(12) , Tubercolosis: Latent : CK(51) : AC(6)
Pharmacological Actions : Immunomodulatory : CK(1287) : AC(358)

Vitamin D may a therapeutic role in reducing inflammation in pulmonary tubercolulosis.

Pubmed Data : Cytokine. 2009 Feb;45(2):105-10. Epub 2008 Dec 16. PMID: 19091593

Article Published Date : Feb 01, 2009

Authors : S Prabhu Anand, P Selvaraj, P R Narayanan

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Pulmonary Tubercolosis : CK(80) : AC(12) , Tuberculosis : CK(312) : AC(54)
Pharmacological Actions : Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1803) : AC(655)

Vitamin D may have therapeutic value in the treatment of pulmonary tuberculosis.

Pubmed Data : Lancet. 2011 Jan 5. Epub 2011 Jan 5. PMID: 21215445

Article Published Date : Jan 05, 2011

Authors : Adrian R Martineau, Peter M Timms, Graham H Bothamley, Yasmeen Hanifa, Kamrul Islam, Alleyna P Claxton, Geoffrey E Packe, John C Moore-Gillon, Mathina Darmalingam, Robert N Davidson, Heather J Milburn, Lucy V Baker, Richard D Barker, Nicholas J Woodward, Timothy R Venton, Korina E Barnes, Christopher J Mullett, Anna K Coussens, Clare M Rutterford, Charles A Mein, Geraint R Davies, Robert J Wilkinson, Vladyslav Nikolayevskyy, Francis A Drobniewski, Sandra M Eldridge, Christopher J Griffiths

Study Type : Human Study
Additional Links

Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Pulmonary Tubercolosis : CK(80) : AC(12)

Quality of Life: Poor (AC 2) (CK 20)

Supplementation of vitamin D3 is effective in improving the quality of life in severe asthmatics.

Pubmed Data : J Pharmacol Pharmacother. 2015 Jul-Sep;6(3):142-6. PMID: 26311997

Article Published Date : Jun 30, 2015

Authors : Muhasaparur Ganesan Rajanandh, Arcot D Nageswari, Giridharan Prathiksha

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Asthma : CK(1146) : AC(188) , Quality of Life: Poor : CK(438) : AC(45)

Vitamin D deficiency is highly prevalent in RA patients and is associated with higher disease activity and worse QoL indices.

Pubmed Data : J Clin Rheumatol. 2015 Apr ;21(3):126-30. PMID: 25807091

Article Published Date : Mar 31, 2015

Authors : Anna Raczkiewicz, Bartłomiej Kisiel, Maciej Kulig, Witold Tłustochowicz

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Osteoarthritis : CK(770) : AC(115) , Quality of Life: Poor : CK(438) : AC(45) , Rheumatoid Arthritis : CK(706) : AC(117), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Renal Cancer (AC 1) (CK 20)

Review: there is a consistently strong inverse correlations with solar UVB for 15 types of cancers.

Pubmed Data : Anticancer Res. 2012 Jan ;32(1):223-36. PMID: 22213311

Article Published Date : Jan 01, 2012

Authors : William B Grant

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bladder Cancer : CK(349) : AC(100) , Breast Cancer : CK(3526) : AC(1059) , Cervical Cancer : CK(345) : AC(144), Colon Cancer : CK(749) : AC(430) , Colorectal Cancer : CK(1635) : AC(611) , Endometrial Cancer : CK(307) : AC(53) , Esophageal Cancer : CK(506) : AC(85) , Hodgkin Lymphoma : CK(53) : AC(7), Lung Cancer : CK(1033) : AC(393) , Non-Hodgkin Lymphoma : CK(363) : AC(79) , Ovarian Cancer : CK(360) : AC(128) , Pancreatic Cancer : CK(889) : AC(260) , Renal Cancer : CK(25) : AC(4), Vulvar Cancer : CK(52) : AC(4)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)
Pharmacological Actions : Chemopreventive : CK(2831) : AC(784)

Respiratory Diseases (AC 2) (CK 30)

Doubling global vitamin D levels could significantly reduce mortality.

Pubmed Data : Eur J Clin Nutr. 2011 Jul 6. Epub 2011 Jul 6. PMID: 21731036

Article Published Date : Jul 06, 2011

Authors : W B Grant

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Cardiac Mortality : CK(947) : AC(86), Cardiovascular Diseases : CK(7176) : AC(907) , Mortality: All-Cause : CK(713) : AC(63), Respiratory Diseases : CK(250) : AC(39) , Tuberculosis : CK(312) : AC(54) , Vitamin D Deficiency : CK(1695) : AC(178)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)

Vitamin D concentrations of 38 ng/ml or more in healthy adults are associated with a significant two-fold

reduction in the risk of developing acute viral respiratory tract infection.

Pubmed Data : PLoS One. 2010;5(6):e11088. Epub 2010 Jun 14. PMID: 20559424

Article Published Date : Jan 01, 2010

Authors : James R Sabetta, Paolo DePetrillo, Ralph J Cipriani, Joanne Smardin, Lillian A Burns, Marie L Landry

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Influenza : CK(789) : AC(123) , Respiratory Diseases : CK(250) : AC(39) , Respiratory Tract Infections : CK(153) : AC(16)
Pharmacological Actions : Antiviral Agents : CK(938) : AC(433)
Additional Keywords : Reduced Disease Severity : CK(10) : AC(1)

Respiratory Infections: Infants & Children (AC 2) (CK 20)

Cord-blood levels of 25(OH)D has an inverse associations with risk of respiratory infection and childhood wheezing.

Pubmed Data : Pediatrics. 2010 Dec 27. Epub 2010 Dec 27. PMID: 21187313

Article Published Date : Dec 27, 2010

Authors : Carlos A Camargo, Tristram Ingham, Kristin Wickens, Ravi Thadhani, Karen M Silvers, Michael J Epton, G Ian Town, Philip K Pattemore, Janice A Espinola, Julian Crane,

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Infant Infections : CK(410) : AC(44) , Prenatal Nutrition: Prevention of Problems : CK(367) : AC(42), Respiratory Infections: Infants & Children : CK(90) : AC(9)

Seventy-eight percent of Auckland children undergoing (adeno)tonsillectomy had a 25(OH) vitamin D level<75nmol/L, a level which is associated with an increased incidence of upper respiratory tract infection.

Pubmed Data : J Am Coll Nutr. 2003 Feb;22(1):36-42. PMID: 21131064

Article Published Date : Feb 01, 2003

Authors : David Reid, Randall Morton, Lesley Salkeld, Jim Bartley

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Adenotonsillectomy : CK(30) : AC(3) , Respiratory Infections: Infants & Children : CK(90) : AC(9), Tonsil Diseases : CK(10) : AC(1) , Upper Respiratory Infections : CK(950) : AC(114)

Respiratory Tract Infections (AC 4) (CK 40)

Monthly ambient sunlight and serum vitamin D levels are inversely associated with relapse rates and postively associated with upper respiratory tract infections in subjects with multiple sclerosis.

Pubmed Data : Neuroepidemiology. 2008;31(4):271-9. Epub 2008 Oct 30 PMID: **18971584**

Article Published Date : Jan 01, 2008

Authors : Helen Tremlett, Ingrid A F van der Mei, Fotini Pittas, Leigh Blizzard, Glenys Paley, Desiree Mesaros, Richard Woodbaker, Manuel Nunez, Terence Dwyer, Bruce V Taylor, Anne-Louise Ponsonby

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Multiple Sclerosis : CK(964) : AC(184) , Respiratory Tract Infections : CK(153) : AC(16)

Serum vitamin D levels are inversely associated with recent respiratory tract infections.

Pubmed Data : Arch Intern Med. 2009 Feb 23;169(4):384-90. PMID: **19237723**

Article Published Date : Feb 23, 2009

Authors : Adit A Ginde, Jonathan M Mansbach, Carlos A Camargo

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Respiratory Tract Infections : CK(153) : AC(16) , Respiratory Tract Infections: Prevention : CK(10) : AC(1)

Vitamin D concentrations of 38 ng/ml or more in healthy adults are associated with a significant two-fold reduction in the risk of developing acute viral respiratory tract infection.

Pubmed Data : PLoS One. 2010;5(6):e11088. Epub 2010 Jun 14. PMID: **20559424**

Article Published Date : Jan 01, 2010

Authors : James R Sabetta, Paolo DePetrillo, Ralph J Cipriani, Joanne Smardin, Lillian A Burns, Marie L Landry

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Influenza : CK(789) : AC(123) , Respiratory Diseases : CK(250) : AC(39) , Respiratory Tract Infections : CK(153) : AC(16)
Pharmacological Actions : Antiviral Agents : CK(938) : AC(433)
Additional Keywords : Reduced Disease Severity : CK(10) : AC(1)

Vitamin D supplementation was found to significantly increase the probability of staying infection free during the study period.

Pubmed Data : BMC Res Notes. 2015 ;8(1):391. Epub 2015 Aug 30. PMID: **26319134**

Article Published Date : Dec 31, 2014

Authors : Peter Bergman, Anna-Carin Norlin, Susanne Hansen, Linda Björkhem-Bergman

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Respiratory Tract Infections : CK(153) : AC(16) , Respiratory Tract Infections: Prevention : CK(10) : AC(1)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Respiratory Tract Infections: Prevention (AC 2) (CK 20)

Serum vitamin D levels are inversely associated with

recent respiratory tract infections.

Pubmed Data : Arch Intern Med. 2009 Feb 23;169(4):384-90. PMID: **19237723**

Article Published Date : Feb 23, 2009

Authors : Adit A Ginde, Jonathan M Mansbach, Carlos A Camargo

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Respiratory Tract Infections : CK(153) : AC(16) , Respiratory Tract Infections: Prevention : CK(10) : AC(1)

Vitamin D supplementation was found to significantly increase the probability of staying infection free during the study period.

Pubmed Data : BMC Res Notes. 2015 ;8(1):391. Epub 2015 Aug 30. PMID: **26319134**

Article Published Date : Dec 31, 2014

Authors : Peter Bergman, Anna-Carin Norlin, Susanne Hansen, Linda Björkhem-Bergman

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Respiratory Tract Infections : CK(153) : AC(16) , Respiratory Tract Infections: Prevention : CK(10) : AC(1)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Rheumatoid Arthritis (AC 3) (CK 30)

A decreased level of Vitamin D is a risk factor for the recurrence of rheumatoid arthritis.

Pubmed Data : Exp Ther Med. 2015 Nov ;10(5):1812-1816. Epub 2015 Sep 15. PMID: **26640554**

Article Published Date : Oct 31, 2015

Authors : Junxia Yang, Lin Liu, Qinglin Zhang, Meirong Li, Jingya Wang

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Rheumatoid Arthritis : CK(706) : AC(117) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Supplementation of vit D in rheumatoid arthritis patients and vit D deficiency contributed to significant improvement in disease activity within a short duration.

Pubmed Data : Int J Rheum Dis. 2015 Oct 20. Epub 2015 Oct 20. PMID: 26481198

Article Published Date : Oct 19, 2015

Authors : S Chandrashekara, Anand Patted

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Rheumatoid Arthritis : CK(706) : AC(117) , Vitamin D Deficiency : CK(1695) : AC(178)

Vitamin D deficiency is highly prevalent in RA patients and is associated with higher disease activity and worse QoL indices.

Pubmed Data : J Clin Rheumatol. 2015 Apr ;21(3):126-30. PMID: 25807091

Article Published Date : Mar 31, 2015

Authors : Anna Raczkiewicz, Bartłomiej Kisiel, Maciej Kulig, Witold Tłustochowicz

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Osteoarthritis : CK(770) : AC(115) , Quality of Life: Poor : CK(438) : AC(45) , Rheumatoid Arthritis : CK(706) : AC(117), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Rhinosinusitis: Acute (AC 1) (CK 10)

Low 25OHD levels were strongly associated with acute rhinosinusitis.

Pubmed Data : Medicine (Baltimore). 2015 Oct ;94(40):e1447. PMID: 26447998

Article Published Date : Sep 30, 2015

Authors : Ayesha N Khalid, Karim S Ladha, Amber U Luong, Sadeq A Quraishi

Study Type : Human Study
Additional Links

Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Rhinosinusitis: Acute : CK(10) : AC(1) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Rickets (AC 2) (CK 20)

Low sunlight exposure is associated with higher rates of rickets in Indian toddlers.

Pubmed Data : Indian J Pediatr. 2010 Jan;77(1):61-5. PMID: **19936652**

Article Published Date : Jan 01, 2010

Authors : V H Ekbote, A V Khadilkar, M Z Mughal, N Hanumante, N Sanwalka, V V Khadilkar, S A Chiplonkar, S Kant, R Ganacharya

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Rickets : CK(20) : AC(2)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)

There is a high frequency of nutritional rickets in children admitted with severe pneumonia.

Pubmed Data : J Pak Med Assoc. 2010 Sep;60(9):729-32. PMID: **21381578**

Article Published Date : Sep 01, 2010

Authors : Nighat Haider, Abdul Ghaffar Nagi, Khalid Mehmood A Khan

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Childhood Chronic Lung Diseases : CK(40) : AC(4) , Childhood Infections : CK(275) : AC(29), Pneumonia : CK(409) : AC(55) , Rickets : CK(20) : AC(2) , Vitamin D Deficiency : CK(1695) : AC(178)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)

Rosacea (AC 2) (CK 2)

Calcium, vitamin D, vitamin A may have a therapeutic role in diseases such as rosacea and psoriasis by influencing the innate antiobiotic and immomodulator cathelicidin.

Pubmed Data : J Invest Dermatol. 2010 Jan 21. Epub 2010 Jan 21. PMID: 20090765

Article Published Date : Jan 21, 2010

Authors : [No authors listed]

Study Type : Commentary

Additional Links

Substances : Calcium : CK(287) : AC(44) , Vitamin A : CK(498) : AC(77) , Vitamin D : CK(3176) : AC(449)

Diseases : Psoriasis : CK(352) : AC(65) , Rosacea : CK(175) : AC(21)

Vitamin D may have a therapeutic role in diseases such as psoriasis and rosacea by regulating cathelicin.

Pubmed Data : J Allergy Clin Immunol. 2009 Sep;124(3 Suppl 2):R13-8. PMID: 19720207

Article Published Date : Sep 01, 2009

Authors : Jürgen Schauber, Richard L Gallo

Study Type : Commentary

Additional Links

Substances : Vitamin D : CK(3176) : AC(449)

Diseases : Psoriasis : CK(352) : AC(65) , Rosacea : CK(175) : AC(21)

Salivary Gland Adenoid Cystic Carcinoma. (AC 1) (CK 1)

1,25-Dihydroxyvitamin D3 alleviates salivary adenoid cystic carcinoma progression.

Pubmed Data : Int J Oncol. 2016 Jan 15. Epub 2016 Jan 15. PMID: 26782341

Article Published Date : Jan 14, 2016

Authors : Zhiquan Huang, Yeqing Liu, Zixian Huang, Haifeng Li, Xiangfeng Gan, Zhuojian Shen

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Salivary Gland Adenoid Cystic Carcinoma. : CK(3) : AC(3)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), NF-kappaB Inhibitor : CK(1114) : AC(694)
Additional Keywords : Chemotherapy Resistance : CK(2) : AC(2)

Sarcopenia (AC 1) (CK 10)

Greater visceral fat and sarcopenia are associated with vitamin D deficiency.

Pubmed Data : J Am Geriatr Soc. 2012 Feb 8. Epub 2012 Feb 8. PMID: 22316299

Article Published Date : Feb 08, 2012

Authors : Ji A Seo, Hyunjoo Cho, Chai R Eun, Hye J Yoo, Sin G Kim, Kyung M Choi, Sei H Baik, Dong S Choi, Moon H Park, Changsu Han, Nan H Kim

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Abdominal Obesity (Midsection Fat) : CK(458) : AC(66) , Sarcopenia : CK(29) : AC(7) , Vitamin D Deficiency : CK(1695) : AC(178)

Schizophrenia (AC 1) (CK 1)

Prenatal vitamin D deficiency may predispose offspring to higher rates of schizophrenia.

Pubmed Data : Schizophr Bull. 2009 May;35(3):582-95. Epub 2009 Apr 8. PMID: 19357239

Article Published Date : May 01, 2009

Authors : Dennis K Kinney, Pamela Teixeira, Diane Hsu, Siena C Napoleon, David J Crowley, Andrea Miller, William Hyman, Emerald Huang

Study Type : Commentary

Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Prenatal Nutrition: Health of the Offspring : CK(246) : AC(35) , Schizophrenia : CK(445) : AC(70)

Sclerosis: Systemic (AC 1) (CK 10)

Rates of vitamin D insufficiency and deficiency are very high in subjects with systemic sclerosis.

Pubmed Data : J Rheumatol. 2009 Jul 31. PMID: 19648299

Article Published Date : Jul 31, 2009

Authors : Alessandra Vacca, Catherine Cormier, Martina Piras, Alessandro Mathieu, Andre Kahan, Yannick Allanore

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Sclerosis: Systemic : CK(82) : AC(9)

Sepsis (AC 3) (CK 12)

Optimal vitamin D status may be important for innate immunity, especially in the setting of sepsis.

Pubmed Data : J Transl Med. 2009 Apr 23;7:28. PMID: 19389235

Article Published Date : Apr 23, 2009

Authors : Leo Jeng, Alexandra V Yamshchikov, Suzanne E Judd, Henry M Blumberg, Gregory S Martin, Thomas R Ziegler, Vin Tangpricha

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Sepsis : CK(197) : AC(54)

This review details the association between vitamin D deficiency and common infections.

Pubmed Data : Can J Physiol Pharmacol. 2015 May ;93(5):363-8. Epub 2015 Jan 26. PMID: 25741906

Article Published Date : Apr 30, 2015

Authors : Richard R Watkins, Tracy L Lemonovich, Robert A Salata

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hepatitis C : CK(474) : AC(87) , HIV Infections : CK(659) : AC(216) , Influenza : CK(789) : AC(123), Pneumonia : CK(399) : AC(54) , Sepsis : CK(197) : AC(54) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(244) : AC(92), Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Anti-Bacterial Agents : CK(1367) : AC(475)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Vitamin D may be acting as a panaceal antibiotic agent and thus may be useful as an adjuvant therapy in diverse infections.

Pubmed Data : Ann N Y Acad Sci. 2014 May ;1317:76-83. Epub 2014 Mar 4. PMID: 24593793

Article Published Date : Apr 30, 2014

Authors : Elisabetta Borella, Gideon Nesher, Eitan Israeli, Yehuda Shoenfeld

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bacterial Vaginosis : CK(46) : AC(6) , Clostridium Infections : CK(233) : AC(45) , Dengue Fever : CK(2) : AC(2), Hepatitis B : CK(241) : AC(46), Hepatitis C : CK(474) : AC(87) , HIV Infections : CK(659) : AC(216), Influenza : CK(789) : AC(123) , Otitis media : CK(305) : AC(41) , Pneumonia : CK(399) : AC(54), Sepsis : CK(197) : AC(54) , Upper Respiratory Infections : CK(950) : AC(114) , Urinary Tract Infections : CK(397) : AC(57)
Pharmacological Actions : Anti-Bacterial Agents : CK(1367) : AC(475) , Anti-Infective Agents : CK(43) : AC(18)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Sickle Cell Anemia (AC 1) (CK 3)

High dose vitamin D may have a therapeutic role in

certain cases of chronic pain associated with sickle cell anemia.

Pubmed Data : J Pediatr Hematol Oncol. 2011 Oct ;33(7):549-51. PMID: 21941148

Article Published Date : Oct 01, 2011

Authors : Ifeyinwa Osunkwo

Study Type : Human: Case Report
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Osteoporosis : CK(1283) : AC(245) , Sickle Cell Anemia : CK(190) : AC(21) , Vitamin D Deficiency : CK(1695) : AC(178)

Skin Cancer: Squamous Cell (AC 1) (CK 1)

Vitamin A and D have an anti-tumor effect against head and neck squamous cell carcinoma.

Pubmed Data : Auris Nasus Larynx. 2003 Dec;30(4):403-12. PMID: 14656567

Article Published Date : Dec 01, 2003

Authors : Kenichi Satake, Emi Takagi, Akiko Ishii, Yasumasa Kato, Yukari Imagawa, Yuu Kimura, Mamoru Tsukuda

Study Type : In Vitro Study
Additional Links
Substances : Vitamin A : CK(498) : AC(77) , Vitamin D : CK(3176) : AC(449)
Diseases : Head and Neck Cancer : CK(162) : AC(42) , Skin Cancer: Squamous Cell : CK(56) : AC(20)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639) , Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612) , Chemosensitizer : CK(394) : AC(286)
Additional Keywords : Drug: 5-flourouracil : CK(108) : AC(29)

Skin Diseases: Inflammatory (AC 1)

(CK 1)

Vitamin D has the ability to suppress inflammatory cytokines, while it increases the generation of anti-inflammatory cytokines.

Pubmed Data : J Biol Regul Homeost Agents. 2015 Jul-Sep;29(3):563-7. PMID: **26403394**

Article Published Date : Jun 30, 2015

Authors : E Toniato, E Spinas, A Saggini, S K Kritas, A Caraffa, P Antinolfi, R Saggini, F Pandolfi, P Conti

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Skin Diseases: Inflammatory : CK(1) : AC(1)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interferon Gamma Reducer : CK(58) : AC(24), Interleukin-10 upregulation : CK(105) : AC(24) , Interleukin-1 alpha downregulation : CK(42) : AC(17), Interleukin-2 Downregulation : CK(4) : AC(3) , Interleukin-4 upregulation : CK(12) : AC(2), Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)

Skin Diseases: Photo-Aging (AC 1) (CK 1)

Vitamin D3 inhibits ultraviolet-B-indcued damage in human skin cells.

Pubmed Data : J Cell Biochem. 2003 Jul 1;89(4):663-73. PMID: **12858333**

Article Published Date : Jul 01, 2003

Authors : Petra De Haes, Marjan Garmyn, Hugo Degreef, Katleen Vantieghem, Roger Bouillon, Siegfried Segaert

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Aging Skin : CK(426) : AC(101) , Skin Diseases: Photo-Aging : CK(132) : AC(51)
Pharmacological Actions : Apoptotic : CK(2958) : AC(2075) , Interleukin-6 Downregulation : CK(1095) : AC(342), Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)

Sleep Apnea: Obstructive (AC 1) (CK 10)

This study provides evidence that serum 25-hydrpoxyvitamin D and obstructive sleep apnea syndrome are related.

Pubmed Data : Sleep. 2015 Aug 31. Epub 2015 Aug 31. PMID: 26414899

Article Published Date : Aug 30, 2015

Authors : Conor P Kerley, Katrina Hutchinson, Kenneth Bolger, Aisling McGowan, John Faul, Liam Cormican

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Sleep Apnea: Obstructive : CK(10) : AC(1), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Slipped Capital Femoral Epiphysis (SCFE) (AC 1) (CK 10)

Slipped capital femoral epiphysis may be associated with vitamin D deficiency.

Pubmed Data : J Pediatr Orthop. 1997 Mar-Apr;17(2):216-9. PMID: 9075099

Article Published Date : Mar 01, 1997

Authors : S Jingushi, T Hara, Y Sugioka

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Slipped Capital Femoral Epiphysis (SCFE) : CK(30) : AC(3)

Smoking (AC 2) (CK 20)

There is an increased risk of bladder cancer in smokers with lower serum vitamin D.

Pubmed Data : Biol Trace Elem Res. 2002 Nov;89(2):105-10. PMID: **20978193**

Article Published Date : Nov 01, 2002

Authors : Alison M Mondul, Stephanie J Weinstein, Satu Männistö, Kirk Snyder, Ronald L Horst, Jarmo Virtamo, Demetrius Albanes

Study Type : Human Study
Additional Links
Substances : beta-Carotene : CK(318) : AC(53) , Vitamin D : CK(3176) : AC(449)
Diseases : Bladder Cancer : CK(349) : AC(100) , Smoking : CK(676) : AC(102)
Therapeutic Actions : Fasting/Caloric Restriction : CK(297) : AC(63)

Vitamin D status is associated the risk of peripheral arterial disease, especially in African-Americans.

Pubmed Data : Am J Clin Nutr. 2008 Dec;88(6):1469-77. PMID: **19064505**

Article Published Date : Dec 01, 2008

Authors : Jared P Reis, Erin D Michos, Denise von Mühlen, Edgar R Miller

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Peripheral Arterial Disease : CK(282) : AC(29), Peripheral Vascular Diseases : CK(221) : AC(23) , Smoking : CK(676) : AC(102)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Squamous cell carcinoma (AC 1) (CK 1)

Combination of 5-fluorouracil, 13-cis retinoic acid and vitamin D3 has more inhibitory effect on cell proliferation and apoptotic effect than one of these drugs.

Pubmed Data : J Contemp Dent Pract. 2012 May-Jun;13(3):345-50. Epub 2012 May 1. PMID: 22918008

Article Published Date : Apr 30, 2012

Authors : Zohreh Dalirsani, Safar Farajnia, Yousef Javadzadeh, Masoumeh Mehdipour, Sepideh Koozegari

Study Type : In Vitro Study
Additional Links
Substances : Vitamin A : CK(498) : AC(77) , Vitamin D : CK(3209) : AC(455)
Diseases : Oral Cancer : CK(214) : AC(79) , Squamous cell carcinoma : CK(152) : AC(67)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075)
Additional Keywords : Chemothapeutic Synergy: 5-flourouracil : CK(39) : AC(23)

Staphylococcus aureus: Methicillin-resistant (MRSA) (AC 1) (CK 1)

This review details the association between vitamin D deficiency and common infections.

Pubmed Data : Can J Physiol Pharmacol. 2015 May ;93(5):363-8. Epub 2015 Jan 26. PMID: 25741906

Article Published Date : Apr 30, 2015

Authors : Richard R Watkins, Tracy L Lemonovich, Robert A Salata

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hepatitis C : CK(474) : AC(87) , HIV Infections : CK(659) : AC(216) , Influenza : CK(789) : AC(123), Pneumonia : CK(399) : AC(54) , Sepsis : CK(197) : AC(54) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(244) : AC(92), Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Anti-Bacterial Agents : CK(1367) : AC(475)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Statin-Induced Pathologies (AC 1) (CK 10)

Low serum vitamin D levels are associated with reversible myositis-myalgia in statin-treated patients.

Pubmed Data : Transl Res. 2009 Jan;153(1):11-6. Epub 2008 Dec 6. PMID: 19100953

Article Published Date : Jan 01, 2009

Authors : Waqas Ahmed, Naseer Khan, Charles J Glueck, Suman Pandey, Ping Wang, Naila Goldenberg, Muhammad Uppal, Suraj Khanal

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Drug-Induced Nutrient Depletion: Statin Drugs : CK(147) : AC(34) , Myalgias : CK(105) : AC(14), Myositis : CK(40) : AC(7), Statin-Induced Pathologies : CK(1638) : AC(327) , Vitamin D Deficiency : CK(1695) : AC(178)

Stroke (AC 1) (CK 10)

This research demonstrates a significant link between low vitamin D levels and carotid intraplaque hemorrhage.

Pubmed Data : AJNR Am J Neuroradiol. 2016 Jun 16. Epub 2016 Jun 16. PMID: 27313129

Article Published Date : Jun 15, 2016

Authors : J S McNally, T M Burton, B W Aldred, S-E Kim, M S McLaughlin, L B Eisenmenger, G J Stoddard, J J Majersik, D V Miller, G S Treiman, D L Parker

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Stroke : CK(1365) : AC(168) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332) , Risk Reduction : CK(6366) : AC(681)

Stroke: Attenuation/Recovery (AC 1) (CK 10)

Low vitamin D is associated with worse functional outcome in patients with acute ischemic stroke treated with intravenous thrombolysis.

Pubmed Data : J Stroke Cerebrovasc Dis. 2016 Jan 28. Epub 2016 Jan 28. PMID: **26830443**

Article Published Date : Jan 27, 2016

Authors : Anaïs Daumas, Benoit Daubail, Nicolas Legris, Agnès Jacquin-Piques, Bénédicte Sensenbrenner, Damien Denimal, Stéphanie Lemaire-Ewing, Laurence Duvillard, Maurice Giroud, Yannick Béjot

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Stroke: Attenuation/Recovery : CK(345) : AC(74), Stroke: Ischemic : CK(192) : AC(26) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Increased Risk : CK(1450) : AC(181)

Stroke: Ischemic (AC 1) (CK 10)

Low vitamin D is associated with worse functional outcome in patients with acute ischemic stroke treated with intravenous thrombolysis.

Pubmed Data : J Stroke Cerebrovasc Dis. 2016 Jan 28. Epub 2016 Jan 28. PMID: **26830443**

Article Published Date : Jan 27, 2016

Authors : Anaïs Daumas, Benoit Daubail, Nicolas Legris, Agnès Jacquin-Piques, Bénédicte Sensenbrenner, Damien Denimal, Stéphanie Lemaire-Ewing, Laurence Duvillard, Maurice Giroud, Yannick Béjot

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Stroke: Attenuation/Recovery : CK(345) : AC(74), Stroke: Ischemic : CK(192) : AC(26) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Increased Risk : CK(1450) : AC(181)

Stroke: Prevention (AC 2) (CK 11)

Low vitamin D levels may be associated with increased risk of stroke.

Pubmed Data : Curr Drug Targets. 2011 Jan 1;12(1):88-96. PMID: **20795935**

Article Published Date : Jan 01, 2011

Authors : Stefan Pilz, Andreas Tomaschitz, Christiane Drechsler, Armin Zittermann, Jacqueline M Dekker, Winfried März

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Stroke: Prevention : CK(163) : AC(21)

Vitamin D deficiency is associated with higher risk for fatal stroke.

Pubmed Data : Stroke. 2008 Sep;39(9):2611-3. Epub 2008 Jul 17. PMID: **18635847**

Article Published Date : Sep 01, 2008

Authors : Stefan Pilz, Harald Dobnig, Joachim E Fischer, Britta Wellnitz, Ursula Seelhorst, Bernhard O Boehm, Winfried März

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Stroke: Prevention : CK(163) : AC(21)

Sunburn (AC 1) (CK 1)

Vitamin D3 enhances cellular defences against UV-induced oxidative and other forms of DNA damage in skin.

Pubmed Data : Photochem Photobiol Sci. 2012 Oct 15. Epub 2012 Oct 15. PMID: **23069805**

Article Published Date : Oct 14, 2012

Authors : Clare Gordon-Thomson, Ritu Gupta, Wannit Tongkao-On, Anthony Ryan, Gary M Halliday, Rebecca S Mason

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Sunburn : CK(41) : AC(19)
Pharmacological Actions : Photoprotective : CK(74) : AC(27)

Systemic Lupus Erythematosus (AC 6) (CK 43)

Deficiency of 25(OH)D3, a potentially modifiable risk factor, independently predicted cognitive impairment in SLE patients.

Pubmed Data : PLoS One. 2015 ;10(12):e0144149. Epub 2015 Dec 4. PMID: 26636681

Article Published Date : Dec 31, 2014

Authors : Sen Hee Tay, Chung Shun Ho, Roger Chun-Man Ho, Anselm Mak

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Systemic Lupus Erythematosus : CK(463) : AC(66) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332) , Risk Reduction : CK(6366) : AC(681) , Supplementation : CK(413) : AC(60)

In patients with systemic lupus erythematosus low vitamin D was associated with a higher disease activity and an increase in serum vitamin D was associated with reduced disease activity over time.

Pubmed Data : Lupus Sci Med. 2015 ;2(1):e000064. Epub 2015 Apr 8. PMID: 25893106

Article Published Date : Dec 31, 2014

Authors : K S Yap, M Northcott, A B-Y Hoi, E F Morand, M Nikpour

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)

Diseases : Autoimmune Diseases : CK(6629) : AC(1128) , Systemic Lupus Erythematosus : CK(463) : AC(66), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303) , Significant Treatment Outcome : CK(3038) : AC(366)

Vitamin D can positively modulate endothelial function in patients with stable SLE.

Pubmed Data : Sci Rep. 2016 ;6:22341. Epub 2016 Mar 1. PMID: **26930567**

Article Published Date : Dec 31, 2015

Authors : John A Reynolds, Sahena Haque, Kate Williamson, David W Ray, M Yvonne Alexander, Ian N Bruce

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiovascular Disease: Prevention : CK(3187) : AC(425) , Systemic Lupus Erythematosus : CK(463) : AC(66)

Vitamin D exerts important regulatory functions on cells from the innate as well as from the adaptive immune response

Pubmed Data : Front Immunol. 2015 ;6:513. Epub 2015 Oct 12. PMID: **26528285**

Article Published Date : Dec 31, 2014

Authors : Mirentxu Iruretagoyena, Daniela Hirigoyen, Rodrigo Naves, Paula Isabel Burgos

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Systemic Lupus Erythematosus : CK(463) : AC(66) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Immunomodulatory : CK(1287) : AC(358)

Vitamin D supplementation may be beneficial to patients with systemic lupus erythematosus.

Pubmed Data : Am J Med Sci. 2008 Feb;335(2):99-104. PMID: **18277116**

Article Published Date : Feb 01, 2008

Authors : Amitha Thudi, Su Yin, Amy E Wandstrat, Quan-Zhen Li, Nancy J Olsen

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Lupus Erythematosus: Systemic : CK(463) : AC(66) , Systemic Lupus Erythematosus : CK(463) : AC(66)

Vitamin D3 supplementation diminished the inflammatory conditions in systemic lupus erythematosus.

Pubmed Data : Iran J Basic Med Sci. 2016 Apr ;19(4):374-80. PMID: **27279980**

Article Published Date : Mar 31, 2016

Authors : Fatemeh Faraji, Maryam Rastin, Fahimeh Lavi Arab, Mohammad Reza Kalantari, Shahrzad Zamani Taghizadeh Rabe, Nafise Tabasi, Mahmoud Mahmoudi

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Systemic Lupus Erythematosus : CK(463) : AC(66)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interleukin-17 downregulation : CK(39) : AC(13)

Thrombocytopenia (AC 1) (CK 10)

Vitamin K2 plus Vitamin D3 are therapeutic for the treatment of anemia and thyrombocytopenia associated wtih low/intermediate myelodysplastic syndrome.

Pubmed Data : Leuk Res. 2010 Sep;34(9):1151-7. Epub 2010 Jun 1. PMID: **20569983**

Article Published Date : Sep 01, 2010

Authors : Nobu Akiyama, Keisuke Miyazawa, Yoshinobu Kanda, Kaoru Tohyama, Mitsuhiro Omine, Kinuko Mitani, Kazuma Ohyashiki

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449) , Vitamin K : CK(645) : AC(85) , Vitamin K2 : CK(319) : AC(38)
Diseases : Anemia: Aplastic : CK(30) : AC(3) , Myelodysplastic Syndrome : CK(221) : AC(22) , Thrombocytopenia : CK(234) : AC(26)

Tonsil Diseases (AC 1) (CK 10)

Seventy-eight percent of Auckland children undergoing (adeno)tonsillectomy had a 25(OH) vitamin D level<75nmol/L, a level which is associated with an increased incidence of upper respiratory tract infection.

Pubmed Data : J Am Coll Nutr. 2003 Feb;22(1):36-42. PMID: 21131064

Article Published Date : Feb 01, 2003

Authors : David Reid, Randall Morton, Lesley Salkeld, Jim Bartley

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Adenotonsillectomy : CK(30) : AC(3) , Respiratory Infections: Infants & Children : CK(90) : AC(9), Tonsil Diseases : CK(10) : AC(1) , Upper Respiratory Infections : CK(950) : AC(114)

Tubercolosis: Latent (AC 1) (CK 10)

Vitamin D enhances immunity against mycobacteria associated with tubercolosis.

Pubmed Data : Am J Respir Crit Care Med. 2007 Jul 15;176(2):208-13. Epub 2007 Apr 26. PMID: 17463418

Article Published Date : Jul 15, 2007

Authors : Adrian R Martineau, Robert J Wilkinson, Katalin A Wilkinson, Sandra M Newton, Beate Kampmann, Bridget M Hall, Geoffrey E Packe, Robert N Davidson, Sandra M Eldridge, Zoë J Maunsell, Sandra J Rainbow, Jacqueline L Berry, Christopher J Griffiths

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Pulmonary Tubercolosis : CK(80) : AC(12) , Tubercolosis: Latent : CK(51) : AC(6)
Pharmacological Actions : Immunomodulatory : CK(1287) : AC(358)

Tuberculosis (AC 8) (CK 54)

Doubling global vitamin D levels could significantly reduce mortality.

Pubmed Data : Eur J Clin Nutr. 2011 Jul 6. Epub 2011 Jul 6. PMID: 21731036

Article Published Date : Jul 06, 2011

Authors : W B Grant

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Cardiac Mortality : CK(947) : AC(86), Cardiovascular Diseases : CK(7176) : AC(907) , Mortality: All-Cause : CK(713) : AC(63), Respiratory Diseases : CK(250) : AC(39) , Tuberculosis : CK(312) : AC(54) , Vitamin D Deficiency : CK(1695) : AC(178)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)

Low vitamin D levels are frequently found in patients with AEP and are comparable with those in patients with PTB and CAP.

Pubmed Data : Tuberc Respir Dis (Seoul). 2015 Jul ;78(3):232-238. Epub 2015 Jun 30. PMID: 26175777

Article Published Date : Jun 30, 2015

Authors : Byung Woo Jhun, Se Jin Kim, Kang Kim, Ji Eun Lee, Duck Jin Hong

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Pneumonia : CK(399) : AC(54) , Pneumonia: Eosinophilic : CK(10) : AC(1), Tuberculosis : CK(312) : AC(54), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Patients wtih active tuberculosis have lower serum vitamin D concentrations than contacts from similar ethnic and social backgrounds and with comparable dietary intake and sun exposure, and do not show the expected seasonal variation.

Pubmed Data : Thorax. 2007 Nov;62(11):1003-7. Epub 2007 May 25. PMID: 17526677

Article Published Date : Nov 01, 2007

Authors : A Sita-Lumsden, G Lapthorn, R Swaminathan, H J Milburn

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Tuberculosis : CK(312) : AC(54) , Vitamin D Deficiency : CK(1695) : AC(178)

Vitamin D and vitmain A (retinoic acid) may have a therapeutic role in the treatment of intracelleular infection, particular tubercolosis.

Pubmed Data : J Microbiol Immunol Infect. 2008 Feb;41(1):17-25. PMID: **18327422**

Article Published Date : Feb 01, 2008

Authors : Paras K Anand, Deepak Kaul, Meera Sharma

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Bacterial Infections and Mycoses : CK(129) : AC(55) , Pulmonary Tubercolosis : CK(80) : AC(12), Tuberculosis : CK(312) : AC(54)

Vitamin D enhances innate immunity against mycobacterial infection through the antimicrobial peptide, cathelicidin.

Pubmed Data : Lung. 2015 Aug 26. Epub 2015 Aug 26. PMID: **26307505**

Article Published Date : Aug 25, 2015

Authors : Abhimanyu, Vanessa Meyer, Tamsyn Jacki Jeffery, Liza Bornman

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Tuberculosis : CK(312) : AC(54) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18) , Risk Factors : CK(2597) : AC(334)

Vitamin D may a therapeutic role in reducing inflammation in pulmonary tubercolulosis.

Pubmed Data : Cytokine. 2009 Feb;45(2):105-10. Epub 2008 Dec 16. PMID: **19091593**

Article Published Date : Feb 01, 2009

Authors : S Prabhu Anand, P Selvaraj, P R Narayanan

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)

Diseases : Pulmonary Tubercolosis : CK(80) : AC(12) , Tuberculosis : CK(312) : AC(54)
Pharmacological Actions : Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1803) : AC(655)

Vitamin D may be beneficial to protect patients from inflammation and tissue damage during tuberculosis infection.

Pubmed Data : Int Immunopharmacol. 2016 Feb 26 ;34:86-91. Epub 2016 Feb 26. PMID: 26927615

Article Published Date : Feb 25, 2016

Authors : M Harishankar, S Anbalagan, P Selvaraj

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Tuberculosis : CK(312) : AC(54)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Immunomodulatory : CK(1286) : AC(357)

Vitamin D may be therapeutic in treating mycobacterium tubercolosis.

Pubmed Data : Clin Rev Allergy Immunol. 2009 Jun 20. PMID: 19543859

Article Published Date : Jun 20, 2009

Authors : Yinon Shapira, Nancy Agmon-Levin, Yehuda Shoenfeld

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Mycobacterium Infections : CK(48) : AC(26) , Tuberculosis : CK(312) : AC(54)

Ulcerative Colitis (AC 1) (CK 10)

Serum 25-hydroxyvitamin D concentration is inversely associated with mucosal inflammation in patients with ulcerative colitis.

Pubmed Data : Am J Clin Nutr. 2016 Jun 8. Epub 2016 Jun 8. PMID: 27281309

Article Published Date : Jun 07, 2016

Authors : Katherine Meckel, Yan Chun Li, John Lim, Masha Kocherginsky, Chris Weber, Anas Almoghrabi, Xindi Chen, Austin Kaboff, Farhana Sadiq, Stephen B Hanauer, Russell D Cohen, John Kwon, David T Rubin, Ira Hanan, Atsushi Sakuraba, Eugene Yen, Marc Bissonnette, Joel Pekow

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Inflammation : CK(2923) : AC(860) , Ulcerative Colitis : CK(295) : AC(59) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616)
Additional Keywords : Risk Factors : CK(2584) : AC(332) , Risk Reduction : CK(6346) : AC(680)

Upper Respiratory Infections (AC 3) (CK 21)

High dose vitamin D3 prevents recurrence of pneumonia in children treated with antibiotics.

Pubmed Data : Trop Med Int Health. 2010 Oct;15(10):1148-55. Epub 2010 Aug 17. PMID: 20723187

Article Published Date : Oct 01, 2010

Authors : Semira Manaseki-Holland, Ghulam Qader, Mohammad Isaq Masher, Jane Bruce, M Zulf Mughal, Daniel Chandramohan, Gijs Walraven

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Childhood Infections : CK(275) : AC(29) , Pneumonia : CK(399) : AC(54) , Upper Respiratory Infections : CK(950) : AC(114)
Pharmacological Actions : Anti-Bacterial Agents : CK(1367) : AC(475)
Additional Keywords : Drug Synergy : CK(351) : AC(156)

Seventy-eight percent of Auckland children undergoing (adeno)tonsillectomy had a 25(OH) vitamin D level<75nmol/L, a level which is associated with an increased incidence of upper respiratory tract infection.

Pubmed Data : J Am Coll Nutr. 2003 Feb;22(1):36-42. PMID: 21131064

Article Published Date : Feb 01, 2003

Authors : David Reid, Randall Morton, Lesley Salkeld, Jim Bartley

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Adenotonsillectomy : CK(30) : AC(3) , Respiratory Infections: Infants & Children : CK(90) : AC(9), Tonsil Diseases : CK(10) : AC(1) , Upper Respiratory Infections : CK(950) : AC(114)

Vitamin D may be acting as a panaceal antibiotic agent and thus may be useful as an adjuvant therapy in diverse infections.

Pubmed Data : Ann N Y Acad Sci. 2014 May ;1317:76-83. Epub 2014 Mar 4. PMID: 24593793

Article Published Date : Apr 30, 2014

Authors : Elisabetta Borella, Gideon Nesher, Eitan Israeli, Yehuda Shoenfeld

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bacterial Vaginosis : CK(46) : AC(6) , Clostridium Infections : CK(233) : AC(45) , Dengue Fever : CK(2) : AC(2), Hepatitis B : CK(241) : AC(46), Hepatitis C : CK(474) : AC(87) , HIV Infections : CK(659) : AC(216), Influenza : CK(789) : AC(123) , Otitis media : CK(305) : AC(41) , Pneumonia : CK(399) : AC(54), Sepsis : CK(197) : AC(54) , Upper Respiratory Infections : CK(950) : AC(114) , Urinary Tract Infections : CK(397) : AC(57)
Pharmacological Actions : Anti-Bacterial Agents : CK(1367) : AC(475) , Anti-Infective Agents : CK(43) : AC(18)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Urinary Tract Diseases (AC 1) (CK 1)

Vitamin D may be a crucial factor in treating urinary tract disorders.

Pubmed Data : J Am Soc Nephrol. 2007 Nov;18(11):2810-6. Epub 2007 Oct 17. PMID: 17942949

Article Published Date : Nov 01, 2007

Authors : Michael Zasloff

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Urinary Tract Diseases : CK(1) : AC(1)

Urinary Tract Infections (AC 3) (CK 12)

Supplementation with vitamin D might prevent urinary tract infections.

Pubmed Data : Infect Dis (Lond). 2016 Jun 30:1-6. Epub 2016 Jun 30. PMID: 27357103

Article Published Date : Jun 29, 2016

Authors : Rolf Jorde, Stina T Sollid, Johan Svartberg, Ragnar M Joakimsen, Guri Grimnes, Moira Y S Hutchinson

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Urinary Tract Infections : CK(397) : AC(57)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Vitamin D is capable of inducing the production of a human antimicrobial peptide in the urinary bladder.

Pubmed Data : PLoS One. 2010;5(12):e15580. Epub 2010 Dec 14. PMID: 21179490

Article Published Date : Jan 01, 2010

Authors : Olof Hertting, Åsa Holm, Petra Lüthje, Hanna Brauner, Robert Dyrdak, Aino Fianu Jonasson, Peter Wiklund, Milan Chromek, Annelie Brauner

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Urinary Tract Infections : CK(397) : AC(57)
Additional Keywords : Cathelicidin Induction : CK(1) : AC(1)

Vitamin D may be acting as a panaceal antibiotic agent and thus may be useful as an adjuvant therapy in diverse infections.

Pubmed Data : Ann N Y Acad Sci. 2014 May ;1317:76-83. Epub 2014 Mar 4. PMID: 24593793

Article Published Date : Apr 30, 2014

Authors : Elisabetta Borella, Gideon Nesher, Eitan Israeli, Yehuda Shoenfeld

Study Type : Review
Additional Links

Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bacterial Vaginosis : CK(46) : AC(6) , Clostridium Infections : CK(233) : AC(45) , Dengue Fever : CK(2) : AC(2), Hepatitis B : CK(241) : AC(46), Hepatitis C : CK(474) : AC(87) , HIV Infections : CK(659) : AC(216), Influenza : CK(789) : AC(123) , Otitis media : CK(305) : AC(41) , Pneumonia : CK(399) : AC(54), Sepsis : CK(197) : AC(54) , Upper Respiratory Infections : CK(950) : AC(114) , Urinary Tract Infections : CK(397) : AC(57)
Pharmacological Actions : Anti-Bacterial Agents : CK(1367) : AC(475) , Anti-Infective Agents : CK(43) : AC(18)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Urticaria (AC 1) (CK 10)

Vitamin D deficiency is higher among children with asthma, allergic rhinitis, atopic dermatitis, acute urticaria, and food allergy.

Pubmed Data : Eur Ann Allergy Clin Immunol. 2011 Jun ;43(3):81-8. PMID: **21789969**

Article Published Date : Jun 01, 2011

Authors : M S Ehlayel, A Bener, A Sabbah

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Allergic Rhinitis : CK(392) : AC(52) , Asthma : CK(1146) : AC(188) , Atopic Dermatitis : CK(1134) : AC(117), Atopic Disease : CK(101) : AC(10) , Food Allergies : CK(507) : AC(70) , Urticaria : CK(130) : AC(8), Vitamin D Deficiency : CK(1695) : AC(178)

Vaginitis: Desquamative Inflammatory (AC 1) (CK 1)

Correction of vitamin D deficiency may reverse desquamative inflammatory vaginitis.

Pubmed Data : Cutis. 2008 Jan;81(1):75-8. PMID: **18306853**

Article Published Date : Jan 01, 2008

Authors : Monica Peacocke, Erin Djurkinak, Susan Thys-Jacobs

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Vaginitis: Desquamative Inflammatory : CK(1) : AC(1)

Vitamin C Deficiency (AC 1) (CK 1)

Deficiency of vitamin D and vitamin C could alter the pathogenesis of bronchial asthma.

Pubmed Data : Bratisl Lek Listy. 2016 ;117(6):305-7. PMID: 27546360

Article Published Date : Dec 31, 2015

Authors : E Ginter, V Simko

Study Type : Review
Additional Links
Substances : Vitamin C : CK(1956) : AC(403) , Vitamin D : CK(3209) : AC(455)
Diseases : Bronchial Asthma : CK(1265) : AC(194) , Vitamin C Deficiency : CK(68) : AC(15) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Vitamin D Deficiency (AC 138) (CK 1306)

"Can a model predictive of vitamin D status be developed from common laboratory tests and demographic parameters?"

Pubmed Data : South Med J. 2011 Sep ;104(9):636-9. PMID: 21886082

Article Published Date : Sep 01, 2011

Authors : Alan N Peiris, Beth A Bailey, Bhuvana N Guha, Rebecca Copeland, Todd Manning

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Vitamin D Deficiency : CK(1695) : AC(178)

"Enhancement of Vitamin D Metabolites in the Eye Following Vitamin D3 Supplementation and UV-B Irradiation"

Pubmed Data : Curr Eye Res. 2012 May 25. Epub 2012 May 25. PMID: **22632164**

Article Published Date : May 25, 2012

Authors : Yanping Lin, John L Ubels, Mark P Schotanus, Zhaohong Yin, Victorina Pintea, Bruce D Hammock, Mitchell A Watsky

Study Type : Animal Study, In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Vitamin D Deficiency : CK(1695) : AC(178)
Therapeutic Actions : Sunlight Exposure: UVB Light : CK(10) : AC(1)
Additional Keywords : Vitamin D Synthesis : CK(2) : AC(1)

25(OH)D3 deficiency is associated with advanced liver disease and low 25(OH)D3 levels are an indicator for a poor outcome and are associated with infectious complications.

Pubmed Data : PLoS One. 2015 ;10(6):e0132119. Epub 2015 Jun 29. PMID: **26121590**

Article Published Date : Dec 31, 2014

Authors : Fabian Finkelmeier, Bernd Kronenberger, Stefan Zeuzem, Albrecht Piiper, Oliver Waidmann

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Liver Cirrhosis : CK(395) : AC(56), Liver Diseases : CK(12) : AC(3), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Mortality : CK(62) : AC(6), Risk Factors : CK(2584) : AC(332), Risk Reduction : CK(6366) : AC(681)

4,000 i.u of vitamin D supplementation during pregnancy is considered safe and effective in achieving sufficiency in all women and their neonates regardless of race

Pubmed Data : J Bone Miner Res. 2011 Oct ;26(10):2341-57. PMID: **21706518**

Article Published Date : Oct 01, 2011

Authors : Bruce W Hollis, Donna Johnson, Thomas C Hulsey, Myla Ebeling, Carol L Wagner

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Prenatal Nutrition : CK(180) : AC(25), Prenatal Nutrition: Health of the Offspring : CK(246) : AC(35), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Vitamin D Dosage : CK(11) : AC(2)

A buccal spray produced a significantly higher mean serum 25(OH)D concentration compared to capsule, in both healthy and patients with malabsorption syndrome.

Pubmed Data : Nutr J. 2015 ;14(1):114. Epub 2015 Oct 29. PMID: **26514332**

Article Published Date : Dec 31, 2014

Authors : M C Satia, A G Mukim, K D Tibrewala, M S Bhavsar

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Supplementation : CK(413) : AC(60)

A decreased level of Vitamin D is a risk factor for the recurrence of rheumatoid arthritis.

Pubmed Data : Exp Ther Med. 2015 Nov ;10(5):1812-1816. Epub 2015 Sep 15. PMID: **26640554**

Article Published Date : Oct 31, 2015

Authors : Junxia Yang, Lin Liu, Qinglin Zhang, Meirong Li, Jingya Wang

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Rheumatoid Arthritis : CK(706) : AC(117) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

A longer overall survival in patients with pancreatic cancer was found in those who had sufficient pre-diagnostic plasma levels of 25(OH)D.

Pubmed Data : J Clin Oncol. 2016 Jun 20. Epub 2016 Jun 20. PMID: **27325858**

Article Published Date : Jun 19, 2016

Authors : Chen Yuan, Zhi Rong Qian, Ana Babic, Vicente Morales-Oyarvide, Douglas A Rubinson, Peter Kraft, Kimmie Ng, Ying Bao, Edward L Giovannucci, Shuji Ogino, Meir J Stampfer, John

Michael Gaziano, Howard D Sesso, Julie E Buring, Barbara B Cochrane, Rowan T Chlebowski, Linda G Snetselaar, JoAnn E Manson, Charles S Fuchs, Brian M Wolpin

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Pancreatic Cancer : CK(889) : AC(260) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Reduction : CK(6346) : AC(680)

A low plasma vitamin D concentration was strongly associated with atrial fibrillation in patients with chronic heart failure.

Pubmed Data : Adv Clin Exp Med. 2016 Jul-Aug;25(1):51-7. PMID: **26935498**

Article Published Date : Jun 30, 2016

Authors : Erdal Belen, Ahmet C Aykan, Ezgi Kalaycioglu, Mustafa A Sungur, Aylin Sungur, Mustafa Cetin

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Atrial Fibrillation : CK(422) : AC(52) , Heart Failure : CK(918) : AC(124) , Vitamin D Deficiency : CK(1695) : AC(178)

A review of the potential use of vitamin D for protection and treatment of IBD and colon cancer.

Pubmed Data : World J Gastroenterol. 2016 Jan 21 ;22(3):933-48. PMID: **26811638**

Article Published Date : Jan 20, 2016

Authors : Stacey Meeker, Audrey Seamons, Lillian Maggio-Price, Jisun Paik

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Colon Cancer : CK(749) : AC(430) , Inflammation : CK(2918) : AC(856) , Inflammatory Bowel Diseases : CK(1003) : AC(189), Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Chemopreventive : CK(2831) : AC(784)

Alzheimer's disease cases have lower serum vitamin D concentrations than matched controls.

Pubmed Data : J Alzheimers Dis. 2012 Oct 5. Epub 2012 Oct 5. PMID: **23042216**

Article Published Date : Oct 04, 2012

Authors : Cedric Annweiler, David J Llewellyn, Olivier Beauchet

Study Type : Meta Analysis

Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Alzheimer's Disease : CK(1292) : AC(382) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Neurosteroid Hormone : CK(20) : AC(1)

Among patients with MS treated with interferon beta-1b, higher 25(OH)D levels were associated with lower rates of MS activity observed on MRI.

Pubmed Data : JAMA Neurol. 2015 Oct 12:1-8. Epub 2015 Oct 12. PMID: **26458124**

Article Published Date : Oct 11, 2015

Authors : Kathryn C Fitzgerald, Kassandra L Munger, Karl Köchert, Barry G W Arnason, Giancarlo Comi, Stuart Cook, Douglas S Goodin, Massimo Filippi, Hans-Peter Hartung, Douglas R Jeffery, Paul O'Connor, Gustavo Suarez, Rupert Sandbrink, Ludwig Kappos, Christoph Pohl, Alberto Ascherio

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Multiple Sclerosis: Relapsing-Remitting : CK(114) : AC(13), Vitamin D Deficiency : CK(1695) : AC(178)

Antibody titers against EBV in MS patients rise after the onset of the disease and indicate that vitamin D3 supplementation could limit augmentation of these titers in MS patients.

Pubmed Data : Cell Immunol. 2015 Mar ;294(1):9-12. Epub 2015 Jan 28. PMID: **25666504**

Article Published Date : Feb 28, 2015

Authors : Adeleh Najafipoor, Rasoul Roghanian, Sayyed Hamid Zarkesh-Esfahani, Majid Bouzari, Masoud Etemadifar

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Epstein-Barr Virus Infections : CK(132) : AC(47) , Multiple Sclerosis : CK(964) : AC(184) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Immunomodulatory : CK(1286) : AC(357)
Additional Keywords : Risk Factors : CK(2584) : AC(332) , Risk Reduction : CK(6366) : AC(681)

Antibody titers for all HPV strains were significantly higher among those with lower vitamin D levels and among younger participants.

Pubmed Data : Hum Vaccin Immunother. 2015 Jul 15:0. Epub 2015 Jul 15. PMID: **26176493**

Article Published Date : Jul 14, 2015

Authors : Richard K Zimmerman, Chyongchiou Jeng Lin, Jonathan M Raviotta, Mary Patricia Nowalk

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Human Papillomavirus (HPV) : CK(212) : AC(35) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Immunomodulatory : CK(1287) : AC(358)
Additional Keywords : Antibody Titers : CK(13) : AC(2) , Vaccine Efficacy : CK(10) : AC(1)
Anti Therapeutic Actions : Vaccination: HPV (Gardisil) : CK(142) : AC(19)

Athletes who had lower vitamin D status had reduced performance scores.

Pubmed Data : Int J Sport Nutr Exerc Metab. 2016 Apr 20. Epub 2016 Apr 20. PMID: **27097322**

Article Published Date : Apr 19, 2016

Authors : Rachel A Hildebrand, Bridget Miller, Aric Warren, Deana Hildebrand, Brenda J Smith

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Athletic Performance : CK(583) : AC(73) , Vitamin D Deficiency : CK(1695) : AC(178)

Available data indicates that lower vitamin D status may be associated with increased risk of developing AD and dementia.

Pubmed Data : Nutr J. 2015 ;14(1):76. Epub 2015 Aug 1. PMID: **26231781**

Article Published Date : Dec 31, 2014

Authors : Liang Shen, Hong-Fang Ji

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Alzheimer's Disease : CK(1292) : AC(382) , Dementia : CK(571) : AC(79) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332)

Background exposure to some organochlorine pesticides appears to lead to vitamin D deficiency in human.

Pubmed Data : PLoS One. 2012 ;7(1):e30093. Epub 2012 Jan 25. PMID: **22295072**

Article Published Date : Jan 01, 2012

Authors : Jin-Hoon Yang, Yu-Mi Lee, Sang-Geun Bae, David R Jacobs, Duk-Hee Lee

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Pesticide-Induced Toxicity: Organochlorines : CK(32) : AC(4) , Vitamin D Deficiency : CK(1695) : AC(178)
Problem Substances : Organochlorine pesticides : CK(288) : AC(32)

Being in the lowest quartile of vitamin D levels is associated with a 26% increased rate of all-cause mortality

Pubmed Data : Arch Intern Med. 2008 Aug 11;168(15):1629-37. PMID: **18695076**

Article Published Date : Aug 11, 2008

Authors : Michal L Melamed, Erin D Michos, Wendy Post, Brad Astor

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiac Mortality : CK(947) : AC(86), Mortality: All-Cause : CK(713) : AC(63) , Vitamin D Deficiency : CK(1695) : AC(178)

Breastfed infants in winter who did not receive vitamin D supplementation were the most severely vitamin D deficient (78%).

Pubmed Data : Arch Pediatr Adolesc Med. 2008 Jun;162(6):513-9. PMID: **18524740**

Article Published Date : Jun 01, 2008

Authors : Alisha J Rovner, Kimberly O O'Brien

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Breastfeeding: Nutritional Deficiencies : CK(47) : AC(6) , Infant Nutrition : CK(90) : AC(14) , Lactation Disorders : CK(142) : AC(18) , Prenatal Nutrition: Health of the Offspring : CK(246) : AC(35) , Vitamin D Deficiency : CK(1695) : AC(178)

Correction of vitamin D deficiency in type 2 diabetic patients decreases total cholesterol.

Pubmed Data : Ther Adv Endocrinol Metab. 2015 Dec ;6(6):245-248. PMID: **26623001**

Article Published Date : Nov 30, 2015

Authors : José Manuel Ramiro-Lozano, José María Calvo-Romero

Study Type : Human Study

Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Diabetes Mellitus: Type 2 : CK(3384) : AC(595) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Anticholesteremic Agents : CK(1244) : AC(230)

Correction of vitamin D deficiency leads to increased insulin sensitivity that was significantly able to maintain glucose in the normal range.

Pubmed Data : Diabetes Metab Syndr. 2016 Jan 14. Epub 2016 Jan 14. PMID: **27094871**

Article Published Date : Jan 13, 2016

Authors : Saeed Osati, Reza Homayounfar, Majid Hajifaraji

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Insulin Resistance : CK(1683) : AC(346) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Insulin Sensitizers : CK(350) : AC(70)

Data supports previous work suggesting that vitamin D deficiency is associated with higher risk of disability in MS.

Pubmed Data : Eur J Neurol. 2015 Mar ;22(3):564-9. Epub 2014 Dec 20. PMID: **25530281**

Article Published Date : Feb 28, 2015

Authors : E Thouvenot, M Orsini, J-P Daures, W Camu

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Multiple Sclerosis: Relapsing-Remitting : CK(114) : AC(13), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Increased Risk : CK(1450) : AC(181)

Deficiency of 25(OH)D3, a potentially modifiable risk factor, independently predicted cognitive impairment in SLE patients.

Pubmed Data : PLoS One. 2015 ;10(12):e0144149. Epub 2015 Dec 4. PMID: **26636681**

Article Published Date : Dec 31, 2014

Authors : Sen Hee Tay, Chung Shun Ho, Roger Chun-Man Ho, Anselm Mak

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)

Diseases : Systemic Lupus Erythematosus : CK(463) : AC(66) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332) , Risk Reduction : CK(6366) : AC(681) , Supplementation : CK(413) : AC(60)

Deficiency of vitamin D and vitamin C could alter the pathogenesis of bronchial asthma.

Pubmed Data : Bratisl Lek Listy. 2016 ;117(6):305-7. PMID: **27546360**

Article Published Date : Dec 31, 2015

Authors : E Ginter, V Simko

Study Type : Review
Additional Links
Substances : Vitamin C : CK(1956) : AC(403) , Vitamin D : CK(3209) : AC(455)
Diseases : Bronchial Asthma : CK(1265) : AC(194) , Vitamin C Deficiency : CK(68) : AC(15) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Doubling global vitamin D levels could significantly reduce mortality.

Pubmed Data : Eur J Clin Nutr. 2011 Jul 6. Epub 2011 Jul 6. PMID: **21731036**

Article Published Date : Jul 06, 2011

Authors : W B Grant

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Cardiac Mortality : CK(947) : AC(86), Cardiovascular Diseases : CK(7176) : AC(907) , Mortality: All-Cause : CK(713) : AC(63), Respiratory Diseases : CK(250) : AC(39) , Tuberculosis : CK(312) : AC(54) , Vitamin D Deficiency : CK(1695) : AC(178)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)

Dry eye and impaired tear function in patients with vitamin D deficiency may indicate a protective role of vitamin D in the development of dry eye.

Pubmed Data : Int J Rheum Dis. 2015 Aug 13. Epub 2015 Aug 13. PMID: **26269110**

Article Published Date : Aug 12, 2015

Authors : Pelin Yildirim, Yeşim Garip, Ayse Aslihan Karci, Tuba Guler

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)

Diseases : Dry Eye Syndromes : CK(200) : AC(31) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Estimated vitamin D production from natural sun exposure.

Pubmed Data : J Am Acad Dermatol. 2010 Jun;62(6):929.e1-9. Epub 2010 Apr 3. PMID: **20363523**

Article Published Date : Jun 01, 2010

Authors : Vitaly Terushkin, Anna Bender, Estee L Psaty, Ola Engelsen, Steven Q Wang, Allan C Halpern

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Mammalian Photosynthesis : CK(12) : AC(2)

Greater visceral fat and sarcopenia are associated with vitamin D deficiency.

Pubmed Data : J Am Geriatr Soc. 2012 Feb 8. Epub 2012 Feb 8. PMID: **22316299**

Article Published Date : Feb 08, 2012

Authors : Ji A Seo, Hyunjoo Cho, Chai R Eun, Hye J Yoo, Sin G Kim, Kyung M Choi, Sei H Baik, Dong S Choi, Moon H Park, Changsu Han, Nan H Kim

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Abdominal Obesity (Midsection Fat) : CK(458) : AC(66) , Sarcopenia : CK(29) : AC(7) , Vitamin D Deficiency : CK(1695) : AC(178)

High dose vitamin D may have a therapeutic role in certain cases of chronic pain associated with sickle cell anemia.

Pubmed Data : J Pediatr Hematol Oncol. 2011 Oct ;33(7):549-51. PMID: **21941148**

Article Published Date : Oct 01, 2011

Authors : Ifeyinwa Osunkwo

Study Type : Human: Case Report
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Osteoporosis : CK(1283) : AC(245) , Sickle Cell Anemia : CK(190) : AC(21) , Vitamin D Deficiency : CK(1695) : AC(178)

Higher levels of Vitamin D may be associated with lower levels of C-reactive protein.

Pubmed Data : PLoS One. 2015 ;10(7):e0131740. Epub 2015 Jul 6. PMID: **26147588**

Article Published Date : Dec 31, 2014

Authors : Marte C Liefaard, Symen Ligthart, Anna Vitezova, Albert Hofman, André G Uitterlinden, Jessica C Kiefte-de Jong, Oscar H Franco, M Carola Zillikens, Abbas Dehghan

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : C-Reactive Protein : CK(1630) : AC(172), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Higher levels of serum parathyroid hormone was detected in relation to lower concentrations of serum 25OHD.

Pubmed Data : Br J Nutr. 2016 Feb 4:1-7. Epub 2016 Feb 4. PMID: **26843386**

Article Published Date : Feb 03, 2016

Authors : Qiao Zhang, Lixin Shi, Nianchun Peng, Shujing Xu, Miao Zhang, Song Zhang, Hong Li, Huijun Zhuang, Mingxian Gong, Danrong Wu, Rui Wang

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Parathyroid Hormone : CK(52) : AC(5)

Higher vitamin D levels are associated with a decreased risk of pelvic floor disorders in women.

Pubmed Data : Obstet Gynecol. 2010 Apr;115(4):795-803. PMID: **20308841**

Article Published Date : Apr 01, 2010

Authors : Samuel S Badalian, Paula F Rosenbaum

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Pelvic Floor Dysfunction (PFD) : CK(50) : AC(4), Vitamin D Deficiency : CK(1695) : AC(178)

Improving children's vitamin D status may be an additional preventive consideration to lower the risk for

caries.

Pubmed Data : J Dent Res. 2015 Nov 9. Epub 2015 Nov 9. PMID: **26553883**

Article Published Date : Nov 08, 2015

Authors : R J Schroth, R Rabbani, G Loewen, M E Moffatt

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Dental Caries: Children : CK(152) : AC(16) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334) , Supplementation : CK(413) : AC(60)

In ALS patients, we report that a severe vitamin D deficiency accelerates the rate of decline and were associated with a marked shorter life expectancy.

Pubmed Data : Neurobiol Aging. 2014 May ;35(5):1198-205. Epub 2013 Nov 13. PMID: **24378089**

Article Published Date : Apr 30, 2014

Authors : William Camu, Boris Tremblier, Carine Plassot, Sébastien Alphandery, Céline Salsac, Nicolas Pageot, Raul Juntas-Morales, Frédérique Scamps, Jean-Pierre Daures, Cédric Raoul

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Amyotrophic lateral sclerosis (ALS) : CK(566) : AC(140) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Neuroprotective Agents : CK(2268) : AC(1071)

In patients with systemic lupus erythematosus low vitamin D was associated with a higher disease activity and an increase in serum vitamin D was associated with reduced disease activity over time.

Pubmed Data : Lupus Sci Med. 2015 ;2(1):e000064. Epub 2015 Apr 8. PMID: **25893106**

Article Published Date : Dec 31, 2014

Authors : K S Yap, M Northcott, A B-Y Hoi, E F Morand, M Nikpour

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Autoimmune Diseases : CK(6629) : AC(1128) , Systemic Lupus Erythematosus : CK(463) : AC(66), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303) , Significant Treatment Outcome : CK(3038) : AC(366)

In persons without MetS a relationship was detected between vitamin D concentration and exponents of metabolic syndrome.

Pubmed Data : Eur Rev Med Pharmacol Sci. 2015 Jun ;19(12):2180-7. PMID: **26166640**

Article Published Date : May 31, 2015

Authors : M Kramkowska, T Grzelak, M Walczak, P Bogdanski, D Pupek-Musialik, K Czyzewska

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Metabolic Diseases : CK(411) : AC(75) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

In this case controlled study, vitamin D deficiency was associated with acute MI after adjusting for conventional risk factors.

Pubmed Data : Indian Heart J. 2015 Jan-Feb;67(1):27-32. Epub 2015 Mar 11. PMID: **25820047**

Article Published Date : Dec 31, 2014

Authors : Ambuj Roy, Ramakrishnan Lakshmy, Mohamad Tarik, Nikhil Tandon, K Srinath Reddy, Dorairaj Prabhakaran

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Myocardial Infarction : CK(1085) : AC(158) , Myocardial Infarction: Prevention : CK(98) : AC(11), Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Cardioprotective : CK(1596) : AC(409)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18) , Risk Reduction : CK(6366) : AC(681)

In this cohort of middle-aged and older men low serum 25(OH)D3 concentration was associated with increased risk of death mainly in those with lower magnesium intake.

Pubmed Data : Eur J Epidemiol. 2015 Apr ;30(4):343-7. Epub 2015 Mar 12. PMID: **25762172**

Article Published Date : Mar 31, 2015

Authors : Jaakko Mursu, Tarja Nurmi, Sari Voutilainen, Tomi-Pekka Tuomainen, Jyrki K Virtanen

Study Type : Human Study
Additional Links
Substances : Magnesium : CK(1516) : AC(193), Vitamin D : CK(3176) : AC(449)
Diseases : All-Cause Mortality : CK(333) : AC(26) , Magnesium Deficiency : CK(401) : AC(48) , Vitamin

D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Invariably almost all patients with breast cancer tested were vitamin D deficient.

Pubmed Data : Indian J Endocrinol Metab. 2012 May ;16(3):409-13. PMID: **22629509**

Article Published Date : May 01, 2012

Authors : Saba Imtiaz, Neelam Siddiqui, Syed Abbas Raza, Asif Loya, Aasim Muhammad

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Breast Cancer: Prevention : CK(552) : AC(82) , Vitamin D Deficiency : CK(1695) : AC(178)

Low 25OHD levels were strongly associated with acute rhinosinusitis.

Pubmed Data : Medicine (Baltimore). 2015 Oct ;94(40):e1447. PMID: **26447998**

Article Published Date : Sep 30, 2015

Authors : Ayesha N Khalid, Karim S Ladha, Amber U Luong, Sadeq A Quraishi

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Rhinosinusitis: Acute : CK(10) : AC(1) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Low concentrations of serum 25-hydroxyvitamin D associated with increased risk for chronic bronchitis among US adults.

Pubmed Data : Br J Nutr. 2011 Sep 8:1-7. Epub 2011 Sep 8. PMID: **21899806**

Article Published Date : Sep 08, 2011

Authors : Guixiang Zhao, Earl S Ford, James Tsai, Chaoyang Li, Janet B Croft

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bronchitis : CK(73) : AC(7) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Low serum 25(OH)D levels were significantly associated with a higher prevalence of PAD in type 2 diabetes

patients 65 years of age.

Pubmed Data : Arch Med Res. 2016 Feb 5. Epub 2016 Feb 5. PMID: **26854799**

Article Published Date : Feb 04, 2016

Authors : Dong-Mei Li, Ying Zhang, Qian Li, Xiao-Hua Xu, Bo Ding, Jian-Hua Ma

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Diabetes Mellitus: Type 2 : CK(3384) : AC(595) , Peripheral Arterial Disease : CK(282) : AC(29), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Low serum 25(OH)D was associated with higher depressive symptom scores.

Pubmed Data : Eur J Nutr. 2015 Jul 4. Epub 2015 Jul 4. PMID: **26141257**

Article Published Date : Jul 03, 2015

Authors : E M Brouwer-Brolsma, R A M Dhonukshe-Rutten, J P van Wijngaarden, N L van der Zwaluw, E Sohl, P H In't Veld, S C van Dijk, K M A Swart, A W Enneman, A C Ham, N M van Schoor, N van der Velde, A G Uitterlinden, P Lips, E J M Feskens, L C P G M de Groot

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Depression : CK(1884) : AC(270) , Depressive Disorder : CK(416) : AC(59) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Antidepressive Agents : CK(1004) : AC(162)
Additional Keywords : Gene Expression : CK(93) : AC(46) , Risk Reduction : CK(6346) : AC(680)

Low serum vitamin D levels are associated with reversible myositis-myalgia in statin-treated patients.

Pubmed Data : Transl Res. 2009 Jan;153(1):11-6. Epub 2008 Dec 6. PMID: **19100953**

Article Published Date : Jan 01, 2009

Authors : Waqas Ahmed, Naseer Khan, Charles J Glueck, Suman Pandey, Ping Wang, Naila Goldenberg, Muhammad Uppal, Suraj Khanal

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Drug-Induced Nutrient Depletion: Statin Drugs : CK(147) : AC(34) , Myalgias : CK(105) : AC(14), Myositis : CK(40) : AC(7) , Statin-Induced Pathologies : CK(1638) : AC(327) , Vitamin D Deficiency : CK(1695) : AC(178)

Low vitamin D is associated with worse functional

outcome in patients with acute ischemic stroke treated with intravenous thrombolysis.

Pubmed Data : J Stroke Cerebrovasc Dis. 2016 Jan 28. Epub 2016 Jan 28. PMID: **26830443**

Article Published Date : Jan 27, 2016

Authors : Anaïs Daumas, Benoit Daubail, Nicolas Legris, Agnès Jacquin-Piques, Bénédicte Sensenbrenner, Damien Denimal, Stéphanie Lemaire-Ewing, Laurence Duvillard, Maurice Giroud, Yannick Béjot

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Stroke: Attenuation/Recovery : CK(345) : AC(74), Stroke: Ischemic : CK(192) : AC(26) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Increased Risk : CK(1450) : AC(181)

Low vitamin D level was associated with greater risk of cognitive impairment in older as well as younger adults.

Pubmed Data : Neuropsychiatr Dis Treat. 2015 ;11:2217-23. Epub 2015 Aug 25. PMID: **26346368**

Article Published Date : Dec 31, 2014

Authors : Hala Darwish, Pia Zeinoun, Husam Ghusn, Brigitte Khoury, Hani Tamim, Samia J Khoury

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cognitive Decline/Dysfunction : CK(1140) : AC(213) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Low vitamin D levels are frequently found in patients with AEP and are comparable with those in patients with PTB and CAP.

Pubmed Data : Tuberc Respir Dis (Seoul). 2015 Jul ;78(3):232-238. Epub 2015 Jun 30. PMID: **26175777**

Article Published Date : Jun 30, 2015

Authors : Byung Woo Jhun, Se Jin Kim, Kang Kim, Ji Eun Lee, Duck Jin Hong

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Pneumonia : CK(399) : AC(54) , Pneumonia: Eosinophilic : CK(10) : AC(1), Tuberculosis : CK(312) : AC(54), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Low vitamin D levels are independently associated with all-cause and cardiovascular mortality.

Pubmed Data : Arch Intern Med. 2008 Jun 23;168(12):1340-9. PMID: **18574092**

Article Published Date : Jun 23, 2008

Authors : Harald Dobnig, Stefan Pilz, Hubert Scharnagl, Wilfried Renner, Ursula Seelhorst, Britta Wellnitz, Jürgen Kinkeldei, Bernhard O Boehm, Gisela Weihrauch, Winfried Maerz

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiac Mortality : CK(947) : AC(86), Cardiovascular Diseases : CK(7176) : AC(907) , Mortality: All-Cause : CK(713) : AC(63) , Vitamin D Deficiency : CK(1695) : AC(178)

Low vitamin D might have an influence on new occurrence of chronic widespread pain.

Pubmed Data : BMC Musculoskelet Disord. 2016 ;17(1):32. Epub 2016 Jan 16. PMID: **26774507**

Article Published Date : Dec 31, 2015

Authors : Paul S McCabe, Stephen R Pye, John Mc Beth, David M Lee, Abdelouahid Tajar, Gyorgy Bartfai, Steven Boonen, Roger Bouillon, Felipe Casanueva, Joseph D Finn, Gianni Forti, Aleksander Giwercman, Ilpo T Huhtaniemi, Krzysztof Kula, Neil Pendleton, Margus Punab, Dirk Vanderschueren, Frederick C Wu, Terence W O'Neill,

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Chronic Pain : CK(183) : AC(29) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Lower vitamin D levels are associated with all-cause mortality and even more pronounced with cardiovascular mortality.

Pubmed Data : Clin Endocrinol (Oxf). 2009 Nov;71(5):666-72. Epub 2009 Feb 18. PMID: **19226272**

Article Published Date : Nov 01, 2009

Authors : Stefan Pilz, Harald Dobnig, Giel Nijpels, Robert J Heine, Coen D A Stehouwer, Marieke B Snijder, Rob M van Dam, Jacqueline M Dekker

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiac Mortality : CK(947) : AC(86), Cardiovascular Diseases : CK(7145) : AC(903) , Mortality: All-Cause : CK(713) : AC(63) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Increased Risk : CK(1450) : AC(181)

Maternal vitamin D deficiency increases the risk of preeclampsia.

Pubmed Data : J Clin Endocrinol Metab. 2007 Sep ;92(9):3517-22. Epub 2007 May 29. PMID: 17535985

Article Published Date : Sep 01, 2007

Authors : Lisa M Bodnar, Janet M Catov, Hyagriv N Simhan, Michael F Holick, Robert W Powers, James M Roberts

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Pre-Eclampsia : CK(299) : AC(33), Vitamin D Deficiency : CK(1695) : AC(178)

Mice consuming a high-fat diet treated with cholecalciferol had lower body weight and adipose tissue weight.

Pubmed Data : J Biomed Sci. 2016 ;23(1):56. Epub 2016 Jul 29. PMID: 27473111

Article Published Date : Dec 31, 2015

Authors : Yue Fan, Kumi Futawaka, Rie Koyama, Yuki Fukuda, Misa Hayashi, Miyuki Imamoto, Takashi Miyawaki, Masato Kasahara, Tetsuya Tagami, Kenji Moriyama

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : High Fat Diet : CK(190) : AC(92) , Obesity : CK(2206) : AC(465) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Anti-Obesity Agents : CK(486) : AC(107)

Obese Black Americans are at particularly high risk for vitamin D deficiency and secondary hyperparathyroidism.

Pubmed Data : Clin Endocrinol (Oxf). 2006 May;64(5):523-9. PMID: 16649971

Article Published Date : May 01, 2006

Authors : Lisa B Yanoff, Shamik J Parikh, Amanda Spitalnik, Blakeley Denkinger, Nancy G Sebring, Pamela Slaughter, Theresa McHugh, Alan T Remaley, Jack A Yanovski

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Hyperparathyroidism : CK(30) : AC(2) , Obesity : CK(2208) : AC(467) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Oral cholecalciferol administration increased 25-hydroxyvitamin D and mildly reduced PTH serum levels.

Pubmed Data : Int J Nephrol Renovasc Dis. 2015;8:151-157. Epub 2015 Nov 19. PMID: **26640388**

Article Published Date : Dec 31, 2014

Authors : Adamasco Cupisti, Valentina Vigo, Maria Enrica Baronti, Claudia D'Alessandro, Lorenzo Ghiadoni, Maria Francesca Egidi

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Chronic Kidney Disease (CKD) : CK(137) : AC(22) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Supplementation : CK(413) : AC(60)

Osteomalacia with bone marrow fibrosis due to severe vitamin D deficiency after a gastrointestinal bypass operation for severe obesity has been reported.

Pubmed Data : Endocr Pract. 2009 Sep-Oct;15(6):528-33. PMID: **19491072**

Article Published Date : Sep 01, 2009

Authors : Ahmad Al-Shoha, Shijing Qiu, Saroj Palnitkar, D Sudhaker Rao

Study Type : Human: Case Report
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Gastric Bypass Surgery : CK(33) : AC(4) , Myelofibrosis : CK(19) : AC(4), Osteomalacia : CK(37) : AC(5), Vitamin D Deficiency : CK(1695) : AC(178)

Patients with Gaucher disease living in England have a high frequency of vitamin D deficiency

Pubmed Data : Mol Genet Metab. 2009 Mar ;96(3):113-20. Epub 2009 Jan 14. PMID: **19147383**

Article Published Date : Mar 01, 2009

Authors : P Mikosch, M Reed, H Stettner, R Baker, A B Mehta, D A Hughes

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Gaucher Disease : CK(10) : AC(1) , Osteopenia : CK(229) : AC(41) , Osteoporosis : CK(1283) : AC(245), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Bone Density : CK(10) : AC(1) , Lysosomal Storage Disorder : CK(10) : AC(1)

Patients wtih active tuberculosis have lower serum

vitamin D concentrations than contacts from similar ethnic and social backgrounds and with comparable dietary intake and sun exposure, and do not show the expected seasonal variation.

Pubmed Data : Thorax. 2007 Nov;62(11):1003-7. Epub 2007 May 25. PMID: **17526677**

Article Published Date : Nov 01, 2007

Authors : A Sita-Lumsden, G Lapthorn, R Swaminathan, H J Milburn

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Tuberculosis : CK(312) : AC(54) , Vitamin D Deficiency : CK(1695) : AC(178)

Plasma 25(OH)D deficiency is significantly associated with a higher risk of NSCLC, specifically late stage NSCLC.

Pubmed Data : Cancer Biomark. 2015 Aug 31 ;15(5):663-8. PMID: **26406955**

Article Published Date : Aug 30, 2015

Authors : Xu Wang, Jiuwei Cui, Jingkai Gu, Hua He, Biao Li, Wei Li

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Carcinoma: Non-Small-Cell Lung : CK(134) : AC(71) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Increased Risk : CK(1450) : AC(181)

Plasma vitamin D might have a preventive role against recurrent depressive symptoms.

Pubmed Data : Eur J Nutr. 2016 Jul 27. Epub 2016 Jul 27. PMID: **27464883**

Article Published Date : Jul 26, 2016

Authors : Caroline Collin, Karen E Assmann, Mélanie Deschasaux, Valentina A Andreeva, Cédric Lemogne, Nathalie Charnaux, Angela Sutton, Serge Hercberg, Pilar Galan, Mathilde Touvier, Emmanuelle Kesse-Guyot

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Depression : CK(1884) : AC(270) , Depressive Disorder : CK(416) : AC(59) , Vitamin D Deficiency : CK(1695) : AC(178)

Results from this case-control study support the

protective effect of higher serum concentration of 25(OH)D against breast cancer.

Pubmed Data : J Am Coll Nutr. 2016 Jun 22:1-8. Epub 2016 Jun 22. PMID: **27331363**

Article Published Date : Jun 21, 2016

Authors : Yasaman Jamshidinaeini, Mohammad Esmaeil Akbari, Morteza Abdollahi, Marjan Ajami, Sayed Hossein Davoodi

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332)

Seasonal variation in the incidence rate of tuberculous meningitis is associated with sunshine hours.

Pubmed Data : Epidemiol Infect. 2013 Mar ;141(3):459-62. Epub 2012 May 31. PMID: **22647556**

Article Published Date : Feb 28, 2013

Authors : D H Visser, J F Schoeman, A M VAN Furth

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Mycobacterium tuberculosis : CK(3) : AC(2) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Seasonal vitamin D deficiency was prevalent and those affected had low bone mineral density.

Pubmed Data : J Clin Endocrinol Metab. 2016 May 26:jc20161559. Epub 2016 May 26. PMID: **27228370**

Article Published Date : May 25, 2016

Authors : Mark D Farrar, M Zulf Mughal, Judith E Adams, Jack Wilkinson, Jacqueline L Berry, Lisa Edwards, Richard Kift, Elizabeth Marjanovic, Andy Vail, Ann R Webb, Lesley E Rhodes

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Serum 25(OH)D has an independent inverse association with insulin resistance.

Pubmed Data : Diabetes Metab J. 2016 Jul 26. Epub 2016 Jul 26. PMID: **27535642**

Article Published Date : Jul 25, 2016

Authors : So Young Ock, Kyoung Hwa Ha, Bu Kyung Kim, Hyeon Chang Kim, Jee Seon Shim, Myung Ha Lee, Young Me Yoon, Dae Jung Kim

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Insulin Resistance : CK(1683) : AC(346), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Serum 25(OH)D level was inversely associated with liver fat content in middle-aged and elderly Chinese men.

Pubmed Data : PLoS One. 2016 ;11(6):e0157515. Epub 2016 Jun 10. PMID: **27284686**

Article Published Date : Dec 31, 2015

Authors : Dan Wang, Huandong Lin, Mingfeng Xia, Qiqige Aleteng, Xiaoming Li, Hui Ma, Baishen Pan, Jian Gao, Xin Gao

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Nonalcoholic fatty liver disease (NAFLD) : CK(392) : AC(88), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332), Risk Reduction : CK(6366) : AC(681)

Serum 25-hydroxyvitamin D concentration is inversely associated with mucosal inflammation in patients with ulcerative colitis.

Pubmed Data : Am J Clin Nutr. 2016 Jun 8. Epub 2016 Jun 8. PMID: **27281309**

Article Published Date : Jun 07, 2016

Authors : Katherine Meckel, Yan Chun Li, John Lim, Masha Kocherginsky, Chris Weber, Anas Almoghrabi, Xindi Chen, Austin Kaboff, Farhana Sadiq, Stephen B Hanauer, Russell D Cohen, John Kwon, David T Rubin, Ira Hanan, Atsushi Sakuraba, Eugene Yen, Marc Bissonnette, Joel Pekow

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Inflammation : CK(2923) : AC(860), Ulcerative Colitis : CK(295) : AC(59), Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616)
Additional Keywords : Risk Factors : CK(2584) : AC(332), Risk Reduction : CK(6346) : AC(680)

Serum level of vitamin D was associated with the risk of polycystic ovary syndrome.

Pubmed Data : J Obstet Gynaecol Res. 2015 Sep 14. Epub 2015 Sep 14. PMID: **26370491**

Article Published Date : Sep 13, 2015

Authors : Xin-Zhuan Jia, Yong-Mei Wang, Na Zhang, Li-Na Guo, Xiu-Li Zhen, Hui Li, Lan Wei

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Polycystic Ovary Syndrome : CK(346) : AC(43) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332) , Risk Reduction : CK(6366) : AC(681)

Serum levels of vitamin D in asthma patients were less than in healthy people, and also reduced lung function in these patients.

Pubmed Data : Allergol Immunopathol (Madr). 2016 Jul 28. Epub 2016 Jul 28. PMID: **27477034**

Article Published Date : Jul 27, 2016

Authors : Rasoul Nasiri Kalmarzi, A Zamani, A Fathallahpour, E Ghaderi, Ramesh Rahehagh, W Kooti

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Asthma : CK(1146) : AC(188) , Vitamin D Deficiency : CK(1695) : AC(178)

Serum vitamin D levels have an independent, inverse association with cardiovascular disease and all-cause mortality.

Pubmed Data : J Am Geriatr Soc. 2009 Sep;57(9):1595-603. Epub 2009 Jun 22. PMID: **19549021**

Article Published Date : Sep 01, 2009

Authors : Adit A Ginde, Robert Scragg, Robert S Schwartz, Carlos A Camargo

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiac Mortality : CK(947) : AC(86), Cardiovascular Diseases : CK(7176) : AC(907) , Mortality: All-Cause : CK(713) : AC(63) , Vitamin D Deficiency : CK(1695) : AC(178)

Serum vitamin D levels was negatively associated with carotid atherosclerosis.

Pubmed Data : Int J Food Sci Nutr. 2016 Aug 18:1-7. Epub 2016 Aug 18. PMID: **27537342**

Article Published Date : Aug 17, 2016

Authors : Yeon-Kyeong Choi, Sang-Wook Song, Bo-Ra Shin, Jeong-Ah Kim, Ha-Na Kim

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Atherosclerosis : CK(601) : AC(150) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Increased Risk : CK(1450) : AC(181)

Six months supplementation with 4000 IU of vitamin D3 safely restored the vitamin D level, improved basal pancreatic beta-cell function and ameliorated the metabolic state.

Pubmed Data : PLoS One. 2015 ;10(6):e0129017. Epub 2015 Jun 9. PMID: **26057782**

Article Published Date : Dec 31, 2014

Authors : Toh Peng Yeow, Shueh Lin Lim, Chee Peng Hor, Amir S Khir, Wan Nazaimoon Wan Mohamud, Giovanni Pacini

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Gestational Diabetes : CK(76) : AC(10) , Insulin Resistance : CK(1683) : AC(346) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Studies show that there may be a higher risk of food allergies for those with not enough exposure to vitamin D when young.

Pubmed Data : Curr Allergy Asthma Rep. 2012 Feb ;12(1):64-71. PMID: **22006065**

Article Published Date : Feb 01, 2012

Authors : Raymond James Mullins, Carlos A Camargo

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Diabetes Mellitus: Type 1: Prevention : CK(255) : AC(50) , Food Allergies : CK(507) : AC(70), Multiple Sclerosis: Prevention : CK(21) : AC(1) , Vitamin D Deficiency : CK(1695) : AC(178)

Suboptimal vitamin D levels are frequently found in ALS patients (81%).

Pubmed Data : J Clin Neurosci. 2013 Nov ;20(11):1550-3. Epub 2013 Jun 29. PMID: **23815870**

Article Published Date : Oct 31, 2013

Authors : Chafic Karam, Matthew J Barrett, Theresa Imperato, Daniel J L MacGowan, Stephen Scelsa

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Amyotrophic Lateral Sclerosis : CK(567) : AC(140) , Vitamin D Deficiency : CK(1695) : AC(178)

Sunlight exposure ameliorates osteoporosis and hypovitaminosis in Parkinson's disease.

Pubmed Data : Parkinsonism Relat Disord. 2011 Jan;17(1):22-6. Epub 2010 Nov 2. PMID: 21050796

Article Published Date : Jan 01, 2011

Authors : Yoshihiro Sato, Jun Iwamoto, Yoshiaki Honda

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Osteoporosis : CK(1283) : AC(245) , Vitamin D Deficiency : CK(1695) : AC(178)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)

Supplementation of vit D in rheumatoid arthritis patients and vit D deficiency contributed to significant improvement in disease activity within a short duration.

Pubmed Data : Int J Rheum Dis. 2015 Oct 20. Epub 2015 Oct 20. PMID: 26481198

Article Published Date : Oct 19, 2015

Authors : S Chandrashekara, Anand Patted

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Rheumatoid Arthritis : CK(706) : AC(117) , Vitamin D Deficiency : CK(1695) : AC(178)

Supplementation of vitamin D may improve wound healing and regeneration in patients with a vitamin D deficiency.

Pubmed Data : Burns. 2016 May 21. Epub 2016 May 21. PMID: 27222384

Article Published Date : May 20, 2016

Authors : Jie Ding, Peter Kwan, Zengshuan Ma, Takashi Iwashina, Jianfei Wang, Heather A Shankowsky, Edward E Tredget

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)

Diseases : Vitamin D Deficiency : CK(1695) : AC(178) , Wound Healing : CK(539) : AC(161)
Additional Keywords : Gene Expression : CK(93) : AC(46)

Supplementation of vitamin D3 may significantly improve the outcome of some children with ASD.

Pubmed Data : Nutr Neurosci. 2016 Jan 18. Epub 2016 Jan 18. PMID: **26783092**

Article Published Date : Jan 17, 2016

Authors : Junyan Feng, Ling Shan, Lin Du, Bing Wang, Honghua Li, Wei Wang, Tiantian Wang, Hanyu Dong, Xiaojing Yue, Zhida Xu, Wouter G Staal, Feiyong Jia

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Autism Spectrum Disorders : CK(1461) : AC(159) , Vitamin D Deficiency : CK(1695) : AC(178)

The association of vitamin D with liver cirrhosis shows great potential for clinical application.

Pubmed Data : Ann Gastroenterol. 2016 Jul-Sep;29(3):297-306. Epub 2016 Apr 25. PMID: **27366029**

Article Published Date : Jun 30, 2016

Authors : Christos Konstantakis, Paraskevi Tselekouni, Maria Kalafateli, Christos Triantos

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Liver Cirrhosis : CK(395) : AC(56) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Hepatoprotective : CK(1383) : AC(592)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

The prevalence of vitamin D deficiency was ~80% in patients hospitalised with community-acquired pneumonia.

Pubmed Data : Int J Tuberc Lung Dis. 2015 Jun ;19(6):729-34. PMID: **25946368**

Article Published Date : May 31, 2015

Authors : H J Kim, J G Jang, K S Hong, J-K Park, E-Y Choi

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Mortality: All-Cause : CK(713) : AC(63) , Pneumonia : CK(399) : AC(54) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332) , Risk Reduction : CK(6366) : AC(681)

The relationship between elevated serum uric acid and low-grade inflammation is mediated by the PTH:25(OH)D ratio in obese adolescents.

Pubmed Data : Metab Syndr Relat Disord. 2016 Jan 29. Epub 2016 Jan 29. PMID: **26824485**

Article Published Date : Jan 28, 2016

Authors : Ramin Alemzadeh, Jessica Kichler

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : C-Reactive Protein : CK(1630) : AC(172), Hyperuricemia : CK(217) : AC(48), Inflammation : CK(2923) : AC(860), Metabolic Syndrome X : CK(916) : AC(158), Obesity : CK(2206) : AC(465), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Parathyroid Hormone : CK(52) : AC(5)

The severity of peripheral neuropathy is associated with lower vitamin D levels.

Pubmed Data : Support Care Cancer. 2016 Feb 23. Epub 2016 Feb 23. PMID: **26902977**

Article Published Date : Feb 22, 2016

Authors : James Wang, Kyle A Udd, Aleksandra Vidisheva, Regina A Swift, Tanya M Spektor, Eric Bravin, Emad Ibrahim, Jonathan Treisman, Mohammed Masri, James R Berenson

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Multiple Myeloma : CK(213) : AC(71), Peripheral Neuropathies : CK(214) : AC(35), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18)

The vitamin D receptor (VDR) may function as a selective suppressor/de-repressor of gene expression in the absence of 1,25(OH)2D3.

Pubmed Data : J Steroid Biochem Mol Biol. 2015 Aug 28. Epub 2015 Aug 28. PMID: **26323657**

Article Published Date : Aug 27, 2015

Authors : Seong Min Lee, J Wesley Pike

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18), Gene Expression Regulation :

CK(427) : AC(212), Parathyroid Hormone : CK(52) : AC(5)

There is a consistent inverse relationship between serum 25-hydroxyvitamin D levels and colorectal cancer was found.

Pubmed Data : Int J Cancer. 2011 Mar 15 ;128(6):1414-24. PMID: **20473927**

Article Published Date : Mar 15, 2011

Authors : Sara Gandini, Mathieu Boniol, Jari Haukka, Graham Byrnes, Brian Cox, Mary Jane Sneyd, Patrick Mullie, Philippe Autier

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Colorectal Cancer: Prevention : CK(207) : AC(36), Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Chemopreventive : CK(2835) : AC(787)

There is a high frequency of nutritional rickets in children admitted with severe pneumonia.

Pubmed Data : J Pak Med Assoc. 2010 Sep;60(9):729-32. PMID: **21381578**

Article Published Date : Sep 01, 2010

Authors : Nighat Haider, Abdul Ghaffar Nagi, Khalid Mehmood A Khan

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Childhood Chronic Lung Diseases : CK(40) : AC(4) , Childhood Infections : CK(275) : AC(29), Pneumonia : CK(409) : AC(55) , Rickets : CK(20) : AC(2) , Vitamin D Deficiency : CK(1695) : AC(178)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)

There is a statistically significant association between low vitamin D levels and muscle mass and strength in adults under 65 years of age.

Pubmed Data : J Bone Miner Res. 2011 Sep 13. Epub 2011 Sep 13. PMID: **21915904**

Article Published Date : Sep 13, 2011

Authors : Isabel Marantes, Sara J Achenbach, Elizabeth J Atkinson, Sundeep Khosla, L Joseph Melton, Shreyasee Amin

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)

Diseases : Muscle Weakness : CK(20) : AC(2) , Vitamin D Deficiency : CK(1695) : AC(178)

There was an inverse correlation between 25(OH) vitamin D and C-reactive protein, and this was more pronounced in patients with inflammatory diseases.

Pubmed Data : Clin Biochem. 2016 Jan 8. Epub 2016 Jan 8. PMID: **26778547**

Article Published Date : Jan 07, 2016

Authors : Adrian Kruit, Pieter Zanen

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : C-Reactive Protein : CK(1630) : AC(172), Inflammation : CK(2923) : AC(860) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Supplementation : CK(413) : AC(60)

These findings suggest that both vitamin D and total cholesterol are important targets for the prevention and treatment of depression.

Pubmed Data : Public Health Nutr. 2016 Jul 4:1-8. Epub 2016 Jul 4. PMID: **27373847**

Article Published Date : Jul 03, 2016

Authors : Soo-Hyun Lee, Eunkyung Suh, Kyung-Chae Park, Ji-Hee Haam, KyongChol Kim, Hyung Suk Koo, Beom-Hee Choi, Bo Youn Won, Ki-Hyun Park, Kye-Seon Park, Moon-Jong Kim, Young-Sang Kim

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Depressive Disorder : CK(416) : AC(59) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

These results suggest women with high, compared with low, plasma 25(OH)D levels in the summer have a reduced breast cancer risk.

Pubmed Data : Cancer Res. 2016 Aug 16. Epub 2016 Aug 16. PMID: **27530324**

Article Published Date : Aug 15, 2016

Authors : A Heather Eliassen, Erica T Warner, Bernard Rosner, Laura C Collins, Andrew H Beck, Liza M Quintana, Rulla M Tamimi, Susan E Hankinson

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)

Diseases : Breast Cancer : CK(3526) : AC(1059) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332)

This research demonstrates a significant link between low vitamin D levels and carotid intraplaque hemorrhage.

Pubmed Data : AJNR Am J Neuroradiol. 2016 Jun 16. Epub 2016 Jun 16. PMID: **27313129**

Article Published Date : Jun 15, 2016

Authors : J S McNally, T M Burton, B W Aldred, S-E Kim, M S McLaughlin, L B Eisenmenger, G J Stoddard, J J Majersik, D V Miller, G S Treiman, D L Parker

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Stroke : CK(1365) : AC(168) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332) , Risk Reduction : CK(6366) : AC(681)

This review details the association between vitamin D deficiency and common infections.

Pubmed Data : Can J Physiol Pharmacol. 2015 May ;93(5):363-8. Epub 2015 Jan 26. PMID: **25741906**

Article Published Date : Apr 30, 2015

Authors : Richard R Watkins, Tracy L Lemonovich, Robert A Salata

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hepatitis C : CK(474) : AC(87) , HIV Infections : CK(659) : AC(216) , Influenza : CK(789) : AC(123), Pneumonia : CK(399) : AC(54) , Sepsis : CK(197) : AC(54) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(244) : AC(92), Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Anti-Bacterial Agents : CK(1367) : AC(475)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

This study provides evidence that serum 25-hydrpoxyvitamin D and obstructive sleep apnea syndrome are related.

Pubmed Data : Sleep. 2015 Aug 31. Epub 2015 Aug 31. PMID: **26414899**

Article Published Date : Aug 30, 2015

Authors : Conor P Kerley, Katrina Hutchinson, Kenneth Bolger, Aisling McGowan, John Faul, Liam Cormican

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)

Diseases : Sleep Apnea: Obstructive : CK(10) : AC(1) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

This study shows an association of vitamin D deficiency with diffuse subcortical brain damage in older adults living in a tropical region.

Pubmed Data : Int J Stroke. 2015 Aug 26. Epub 2015 Aug 26. PMID: **26310517**

Article Published Date : Aug 25, 2015

Authors : Oscar H Del Brutto, Robertino M Mera, Jorge Macias, Gabriela Morales, Mauricio Zambrano

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cerebrovascular Disorders : CK(10) : AC(1) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

This study shows that there could be an association between hyperparathyroidism and 25-OHD levels.

Pubmed Data : Ulster Med J. 2015 Jan ;84(1):26-9. PMID: **25964700**

Article Published Date : Dec 31, 2014

Authors : Mir Sadat-Ali, Abdullah S Al-Omran, Haifa A Al-Turki

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hyperparathyroidism : CK(30) : AC(2), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

This study suggests a potential link between vitamin D status and the occurrence of carpal tunnel syndrome in women younger than 50 years.

Pubmed Data : J Hand Surg Eur Vol. 2016 Jul ;41(6):643-7. Epub 2015 Dec 23. PMID: **26701973**

Article Published Date : Jun 30, 2016

Authors : S H Lee, H S Gong, D H Kim, H S Shin, K M Kim, J Kim, G H Baek

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Carpal Tunnel Syndrome : CK(150) : AC(15) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Up to 96% of morbidly obese patients before bariatric surgery have vitamin D deficiency and 44% have secondary hyperparathyroidism.

Pubmed Data : Obes Surg. 2011 Jan 14. Epub 2011 Jan 14. PMID: **21234699**

Article Published Date : Jan 14, 2011

Authors : Roxane Ducloux, Estelle Nobécourt, Jean-Marc Chevallier, Hervé Ducloux, Negib Elian, Jean-Jacques Altman

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hyperparathyroidism : CK(30) : AC(2) , Obesity : CK(2208) : AC(467) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Vitamin D acts as an effect modifier for the entire herpes zoster spectrum with regard to disease susceptibility, manifestation, efficacy of pharmacologic management.

Pubmed Data : Med Hypotheses. 2015 Jul 2. Epub 2015 Jul 2. PMID: **26163058**

Article Published Date : Jul 01, 2015

Authors : Chia-Ter Chao, Chih-Kang Chiang, Jenq-Wen Huang, Kuan-Yu Hung

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Herpes Zoster : CK(473) : AC(36) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Immunomodulatory : CK(1286) : AC(357)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18) , Risk Reduction : CK(6366) : AC(681)

Vitamin D could be a strong candidate for liver cancer prevention in the context of aberrant Smad3 signaling.

Pubmed Data : Sci Rep. 2016 ;6:30217. Epub 2016 Jul 26. PMID: **27456065**

Article Published Date : Dec 31, 2015

Authors : Jian Chen, Lior H Katz, Nina M Muñoz, Shoujun Gu, Ji-Hyun Shin, Wilma S Jogunoori, Mi-Hye Lee, Mitchell D Belkin, Sang-Bae Kim, Jon C White, Jaclyn Andricovich, Alexandros Tzatsos, Shulin Li, Sang Soo Kim, Kirti Shetty, Bibhuti Mishra, Asif Rashid, Ju-Seog Lee, Lopa Mishra

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Liver Cancer : CK(1235) : AC(462) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Anticarcinogenic Agents : CK(1097) : AC(518)
Additional Keywords : Risk Factors : CK(2584) : AC(332)

Vitamin D deficiency and insufficiency might increase the risk of childhood asthma.

Pubmed Data : Int J Clin Exp Med. 2015 ;8(4):5699-706. Epub 2015 Apr 15. PMID: **26131154**

Article Published Date : Dec 31, 2014

Authors : Lixin Man, Zhao Zhang, Meng Zhang, Yingying Zhang, Ju Li, Nan Zheng, Yanhua Cao, Ming Chi, Yujin Chao, Qiuer Huang, Chunmei Song, Bo Xu

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Asthma: Childhood : CK(101) : AC(10) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Vitamin D deficiency during pregnancy has been linked with a number of maternal problems including infertility, preeclampsia, gestational diabetes and an increased rate of caesarean section.

Pubmed Data : Best Pract Res Clin Endocrinol Metab. 2010 Aug;24(4):527-39. PMID: **20832734**

Article Published Date : Aug 01, 2010

Authors : Helen Barrett, Aidan McElduff

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Prenatal Nutrition : CK(180) : AC(25), Vitamin D Deficiency : CK(1695) : AC(178)

Vitamin D deficiency exacerbates disease pathophysiology in the G93A mouse model of ALS.

Pubmed Data : PLoS One. 2015 ;10(5):e0126355. Epub 2015 May 28. PMID: **26020962**

Article Published Date : Dec 31, 2014

Authors : Elnaz Moghimi, Jesse A Solomon, Alexandro Gianforcaro, Mazen J Hamadeh

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Amyotrophic lateral sclerosis (ALS) : CK(566) : AC(140) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Vitamin D deficiency impairs renal repair responses to

ischemia/reperfusion injury.

Pubmed Data : Physiol Rep. 2016 Jul ;4(13). PMID: **27369932**

Article Published Date : Jun 30, 2016

Authors : Ana C de Bragança, Rildo A Volpini, Purvi Mehrotra, Lúcia Andrade, David P Basile

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Ischemia : CK(71) : AC(35) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Vitamin D deficiency is associated with Hashimoto's thyroiditis in children and adolescents.

Pubmed Data : J Clin Res Pediatr Endocrinol. 2015 Jun 5 ;7(2):128-33. PMID: **26316435**

Article Published Date : Jun 04, 2015

Authors : Olcay Evliyaoğlu, Manolya Acar, Bahar Özcabı, Ethem Erginöz, Feride Bucak, Oya Ercan, Mine Kucur

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hashimoto's thyroiditis : CK(152) : AC(18) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303) , Risk Factors : CK(2597) : AC(334)

Vitamin D deficiency is associated with an increased amputation risk in veterans with peripheral artery disease.

Pubmed Data : J Am Med Dir Assoc. 2011 Jan;12(1):58-61. Epub 2010 Aug 12. PMID: **21194661**

Article Published Date : Jan 01, 2011

Authors : Vamsi C Gaddipati, Beth A Bailey, Reena Kuriacose, Rebecca J Copeland, Todd Manning, Alan N Peiris

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Amputations : CK(10) : AC(1) , Peripheral Arterial Disease : CK(282) : AC(29) , Vitamin D Deficiency : CK(1695) : AC(178)

Vitamin D deficiency is associated with gallbladder stasis and gallstones.

Pubmed Data : Dig Dis Sci. 2015 May 12. Epub 2015 May 12. PMID: **25963323**

Article Published Date : May 11, 2015

Authors : Rimpi Singla, Usha Dutta, Neelam Aggarwal, Sanjay Kumar Bhadada, Rakesh Kochhar, Lakhbir K Dhaliwal

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Gallstones : CK(173) : AC(33) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Increased Risk : CK(1450) : AC(181) , Risk Reduction : CK(6346) : AC(680)

Vitamin D deficiency is associated with incident cardiovascular disease.

Pubmed Data : Circulation. 2008 Jan 29;117(4):503-11. Epub 2008 Jan 7. PMID: **18180395**

Article Published Date : Jan 29, 2008

Authors : Thomas J Wang, Michael J Pencina, Sarah L Booth, Paul F Jacques, Erik Ingelsson, Katherine Lanier, Emelia J Benjamin, Ralph B D'Agostino, Myles Wolf, Ramachandran S Vasan

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiovascular Diseases : CK(7145) : AC(903) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Reduction : CK(6366) : AC(681)

Vitamin D deficiency is associated with increased risk of bladder carcinoma in the present study.

Pubmed Data : Cell Physiol Biochem. 2015 Nov 9 ;37(5):1686-1692. Epub 2015 Nov 9. PMID: **26545152**

Article Published Date : Nov 08, 2015

Authors : Hui Zhang, Hui Zhang, Xiuhua Wen, Yonggang Zhang, Xueli Wei, Taiyang Liu

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bladder Cancer : CK(349) : AC(100) , Bladder Cancer: Prevention : CK(89) : AC(9) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Anticarcinogenic Agents : CK(1097) : AC(518)
Additional Keywords : Risk Factors : CK(2584) : AC(332)

Vitamin D deficiency is common in patients after TBI and associated with impaired cognitive function and more severe depressive symptoms.

Pubmed Data : Clin Endocrinol (Oxf). 2016 Feb 27. Epub 2016 Feb 27. PMID: **26921561**

Article Published Date : Feb 26, 2016

Authors : Omer A Jamall, Claire Feeney, Joanna Zaw-Linn, Aysha Malik, Mari Ek Niemi, Carmen Tenorio-Jimenez, Timothy E Ham, Sagar R Jilka, Peter O Jenkins, Gregory Scott, Lucia M Li, Nikolaos Gorgoraptis, David Baxter, David J Sharp, Anthony P Goldstone

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Brain Injury: Traumatic : CK(99) : AC(30) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Vitamin D deficiency is higher among children with asthma, allergic rhinitis, atopic dermatitis, acute urticaria, and food allergy.

Pubmed Data : Eur Ann Allergy Clin Immunol. 2011 Jun ;43(3):81-8. PMID: **21789969**

Article Published Date : Jun 01, 2011

Authors : M S Ehlayel, A Bener, A Sabbah

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Allergic Rhinitis : CK(392) : AC(52) , Asthma : CK(1146) : AC(188) , Atopic Dermatitis : CK(1134) : AC(117), Atopic Disease : CK(101) : AC(10) , Food Allergies : CK(507) : AC(70) , Urticaria : CK(130) : AC(8), Vitamin D Deficiency : CK(1695) : AC(178)

Vitamin D deficiency is highly prevalent in Chilean women with breast cancer before endocrine therapy.

Pubmed Data : Breast. 2016 Jul 8 ;29:39-43. Epub 2016 Jul 8. PMID: **27400446**

Article Published Date : Jul 07, 2016

Authors : Francisco Acevedo, Victoria Pérez, Alejandra Pérez-Sepúlveda, Pablo Florenzano, Rocío Artigas, Lidia Medina, César Sánchez

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332)

Vitamin D deficiency is highly prevalent in RA patients and is associated with higher disease activity and worse QoL indices.

Pubmed Data : J Clin Rheumatol. 2015 Apr ;21(3):126-30. PMID: **25807091**

Article Published Date : Mar 31, 2015

Authors : Anna Raczkiewicz, Bartłomiej Kisiel, Maciej Kulig, Witold Tłustochowicz

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Osteoarthritis : CK(770) : AC(115) , Quality of Life: Poor : CK(438) : AC(45) , Rheumatoid Arthritis : CK(706) : AC(117), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Vitamin D deficiency is highly prevalent in patients with SLE.

Pubmed Data : Lupus. 2016 Feb 25. Epub 2016 Feb 25. PMID: **26921268**

Article Published Date : Feb 24, 2016

Authors : C-C Gao, S-Y Liu, Z-Z Wu, T-F Li, G-M Gao, Z-S Liu, Z-H Zheng

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Lupus Erythematosus: Systemic : CK(463) : AC(66) , Vitamin D Deficiency : CK(1695) : AC(178)

Vitamin D deficiency is nearly ubiquitious in those with sickle cell anemia.

Pubmed Data : J Natl Med Assoc. 2010 Apr ;102(4):332-5. PMID: **20437740**

Article Published Date : Apr 01, 2010

Authors : B Mitchell Goodman, Nicole Artz, Barbera Radford, Ian A Chen

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Malaria : CK(142) : AC(56) , Vitamin D Deficiency : CK(1695) : AC(178)

Vitamin D deficiency is prevalent in patients with diabetic nephropathy and increases in severity with diabetic nephropathy progression.

Pubmed Data : J Int Med Res. 2016 Mar 4. Epub 2016 Mar 4. PMID: **26944386**

Article Published Date : Mar 03, 2016

Authors : Xiaoyan Xiao, Yajuan Wang, Yanlian Hou, Feng Han, Jianmin Ren, Zhao Hu

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)

Diseases : Diabetic Nephropathy : CK(136) : AC(52) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Vitamin D deficiency may be a risk factor for late-life depression.

Pubmed Data : J Affect Disord. 2016 Mar 9 ;198:1-14. Epub 2016 Mar 9. PMID: **26998791**

Article Published Date : Mar 08, 2016

Authors : Olivia I Okereke, Ankura Singh

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Depression : CK(1884) : AC(270) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332)

Vitamin D deficiency may be related to the pathogenesis of Hashimoto's thyroiditis and supplementation could contribute to its treatment.

Pubmed Data : Hell J Nucl Med. 2015 Sep-Dec;18(3):222-7. PMID: **26637501**

Article Published Date : Aug 31, 2015

Authors : Elias E Mazokopakis, Maria G Papadomanolaki, Konstantinos C Tsekouras, Athanasios D Evangelopoulos, Dimitrios A Kotsiris, Anastasios A Tzortzinis

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hashimoto's thyroiditis : CK(152) : AC(18) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Vitamin D deficiency may impair the resistance of the brain against bacterial infections.

Pubmed Data : Infect Immun. 2014 Jun ;82(6):2585-94. Epub 2014 Mar 31. PMID: **24686054**

Article Published Date : May 31, 2014

Authors : Marija Djukic, Marie Luise Onken, Sandra Schütze, Sandra Redlich, Alexander Götz, Uwe-Karsten Hanisch, Thomas Bertsch, Sandra Ribes, Andrea Hanenberg, Simon Schneider, Cornelius Bollheimer, Cornel Sieber, Roland Nau

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Vitamin D deficiency might pose a greater risk for ApoEε4 non-carrier Alzheimer's disease patients.

Pubmed Data : Neurol Sci. 2016 Jun 29. Epub 2016 Jun 29. PMID: **27357856**

Article Published Date : Jun 28, 2016

Authors : Erdinç Dursun, Merve Alaylıoğlu, Başar Bilgiç, Haşmet Hanağası, Ebba Lohmann, Irem L Atasoy, Esin Candaş, Ömür Selin Araz, Burak Önal, Hakan Gürvit, Selma Yılmazer, Duygu Gezen-Ak

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Alzheimer's Disease : CK(1292) : AC(382) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332)

Vitamin D enhances innate immunity against mycobacterial infection through the antimicrobial peptide, cathelicidin.

Pubmed Data : Lung. 2015 Aug 26. Epub 2015 Aug 26. PMID: **26307505**

Article Published Date : Aug 25, 2015

Authors : Abhimanyu, Vanessa Meyer, Tamsyn Jacki Jeffery, Liza Bornman

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Tuberculosis : CK(312) : AC(54) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18) , Risk Factors : CK(2597) : AC(334)

Vitamin D exerts important regulatory functions on cells from the innate as well as from the adaptive immune response

Pubmed Data : Front Immunol. 2015 ;6:513. Epub 2015 Oct 12. PMID: **26528285**

Article Published Date : Dec 31, 2014

Authors : Mirentxu Iruretagoyena, Daniela Hirigoyen, Rodrigo Naves, Paula Isabel Burgos

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Systemic Lupus Erythematosus : CK(463) : AC(66) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Immunomodulatory : CK(1287) : AC(358)

Vitamin D insufficiency is associated with challenge-

proven food allergy in infants.

Pubmed Data : J Allergy Clin Immunol. 2013 Apr ;131(4):1109-16, 1116.e1-6. Epub 2013 Feb 27. PMID: **23453797**

Article Published Date : Mar 31, 2013

Authors : Katrina J Allen, Jennifer J Koplin, Anne-Louise Ponsonby, Lyle C Gurrin, Melissa Wake, Peter Vuillermin, Pamela Martin, Melanie Matheson, Adrian Lowe, Marnie Robinson, Dean Tey, Nicholas J Osborne, Thanh Dang, Hern-Tze Tina Tan, Leone Thiele, Deborah Anderson, Helen Czech, Jeeva Sanjeevan, Giovanni Zurzolo, Terence Dwyer, Mimi L K Tang, David Hill, Shyamali C Dharmage

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Atopic Dermatitis: Infant & Childhood : CK(191) : AC(17) , Food Allergies : CK(507) : AC(70), Food Allergies/Intolerances: Cereals/Grains : CK(11) : AC(2) , Vitamin D Deficiency : CK(1695) : AC(178)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)

Vitamin D insufficiency or deficiency is highly prevalent among HIV-infected adults and is associated with known risk factors.

Pubmed Data : Clin Infect Dis. 2011 Feb 1 ;52(3):396-405. PMID: **21217186**

Article Published Date : Feb 01, 2011

Authors : Christine N Dao, Pragna Patel, E Turner Overton, Frank Rhame, Sherri L Pals, Christopher Johnson, Timothy Bush, John T Brooks,

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : HIV Infections : CK(659) : AC(216) , Vitamin D Deficiency : CK(1695) : AC(178)

Vitamin D insufficiency was associated with autoimmune thyroid disease and Hashimoto's thyroiditis.

Pubmed Data : Hormones (Athens). 2016 Jul 11. Epub 2016 Jul 11. PMID: **27394703**

Article Published Date : Jul 10, 2016

Authors : Dohee Kim

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hashimoto's thyroiditis : CK(152) : AC(18) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Increased Risk : CK(1450) : AC(181)

Vitamin D is independently associated with depression and inflammation in overweight women both with and without PCOS.

Pubmed Data : Gynecol Endocrinol. 2014 Nov 4:1-4. Epub 2014 Nov 4. PMID: **25366261**

Article Published Date : Nov 03, 2014

Authors : L J Moran, H J Teede, A J Vincent

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Depression : CK(1844) : AC(267) , Inflammation : CK(2923) : AC(860) , Overweight : CK(3320) : AC(544), Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18) , Risk Factors : CK(2584) : AC(332)

Vitamin D levels are frequently low in those with multiple sclerosis.

Pubmed Data : Rev Neurol (Paris). 2011 Apr;167(4):317-23. Epub 2010 Dec 24. PMID: **21186037**

Article Published Date : Apr 01, 2011

Authors : J P Neau, M S Artaud-Uriot, V Lhomme, J Y Bounaud, F Lebras, L Boissonnot, N Moinot, J Ciron, D Larrieu, S Mathis, G Godeneche, P Ingrand

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Multiple Sclerosis : CK(964) : AC(184) , Vitamin D Deficiency : CK(1695) : AC(178)

Vitamin D levels are lower in Crohn's disease patients with severe disease activity and less sun exposure.

Pubmed Data : Indian J Med Res. 2009 Aug;130(2):133-7. PMID: **19797809**

Article Published Date : Aug 01, 2009

Authors : A J Joseph, Biju George, A B Pulimood, M S Seshadri, Ashok Chacko

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Crohn's Disease : CK(153) : AC(30) , Vitamin D Deficiency : CK(1695) : AC(178)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Vitamin D levels are lower in IBD patients, suggesting that vitamin D plays an important role in the pathogenesis of

IBD.

Pubmed Data : PLoS One. 2015;10(7):e0132036. Epub 2015 Jul 14. PMID: **26172950**

Article Published Date : Dec 31, 2014

Authors : Chao Lu, Jun Yang, Weilai Yu, Dejian Li, Zun Xiang, Yiming Lin, Chaohui Yu

Study Type : Meta Analysis, Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Inflammatory Bowel Diseases : CK(1003) : AC(189) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332) , Risk Reduction : CK(6366) : AC(681)

Vitamin D may improve lung function and response to steroids therapy, reduce airway remodeling and disease exacerbations.

Pubmed Data : Minerva Med. 2016 Jun 15. Epub 2016 Jun 15. PMID: **27308869**

Article Published Date : Jun 14, 2016

Authors : Paolo Solidoro, Michela Bellocchia, Fabrizio Facchini

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Asthma : CK(1146) : AC(188) , Chronic Obstructive Pulmonary Disease : CK(376) : AC(57) , Lung Diseases : CK(37) : AC(8) , Vitamin D Deficiency : CK(1695) : AC(178)

Vitamin D prevents articular cartilage erosion by regulating collagen II turnover through TGF-β1 in ovariectomized rats.

Pubmed Data : Osteoarthritis Cartilage. 2015 Sep 3. Epub 2015 Sep 3. PMID: **26343586**

Article Published Date : Sep 02, 2015

Authors : Siwei Li, Guodong Niu, Yuwei Wu, Guohong Du, Chen Huang, Xiaoxue Yin, Zhongjun Liu, Chunli Song, Huijie Leng

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Arthritis : CK(1964) : AC(312) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Dose Response : CK(1056) : AC(408) , Supplementation : CK(413) : AC(60)

Vitamin D repletion reduces the progression of premalignant lesions, proliferation, and inflammation.

Pubmed Data : Cancer Prev Res (Phila). 2015 Oct ;8(10):895-904. Epub 2015 Aug 14. PMID: 26276745

Article Published Date : Sep 30, 2015

Authors : Sarah A Mazzilli, Pamela A Hershberger, Mary E Reid, Paul N Bogner, Kristopher Atwood, Donald L Trump, Candace S Johnson

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Lung Cancer : CK(1033) : AC(393) , Lung Cancer: Prevention : CK(236) : AC(30) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616) , Antiproliferative : CK(2479) : AC(1685), Chemopreventive : CK(2831) : AC(784)

Vitamin D status is associated with specific causes of infertility and individual anthropometric characteristics.

Pubmed Data : Nutrients. 2015 ;7(12):9972-84. Epub 2015 Dec 2. PMID: 26633484

Article Published Date : Dec 31, 2014

Authors : Luca Pagliardini, Paola Vigano', Michela Molgora, Paola Persico, Andrea Salonia, Simona Helda Vailati, Alessio Paffoni, Edgardo Somigliana, Enrico Papaleo, Massimo Candiani

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Infertility: Female : CK(280) : AC(50) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Supplementation : CK(413) : AC(60)

Vitamin D status may influence the menstrual cycle and play a role in ovarian function.

Pubmed Data : Fertil Steril. 2016 Mar 17. Epub 2016 Mar 17. PMID: 26997249

Article Published Date : Mar 16, 2016

Authors : Anne Marie Z Jukic, Kristen Upson, Quaker E Harmon, Donna D Baird

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Vitamin D Deficiency : CK(1695) : AC(178)

Vitamin D status should be monitored in all cancer patients and treated by adequate vitamin D3 supplementation.

Pubmed Data : Med Monatsschr Pharm. 2015 Dec ;38(12):512-6. PMID: 26837159

Article Published Date : Nov 30, 2015

Authors : Uwe Gröber, Klaus Kisters, Irenäus A Adamietz

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059) , Cachexia: Cancer : CK(50) : AC(15) , Cancers: All : CK(14500) : AC(4586), Colon Cancer : CK(749) : AC(430) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2584) : AC(332)
Problem Substances : Aromatase Inhibitor Drugs : CK(362) : AC(23) , Bisphosphonates : CK(499) : AC(63)

Vitamin D supplementation improved some cardiovascular disease risk factors in healthy volunteers.

Pubmed Data : Ther Adv Endocrinol Metab. 2016 Aug ;7(4):153-65. Epub 2016 Jun 20. PMID: 27540461

Article Published Date : Jul 31, 2016

Authors : Emad A S Al-Dujaili, Nimrah Munir, Raquel Revuelta Iniesta

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiovascular Diseases : CK(7176) : AC(907) , Oxidative Stress : CK(3855) : AC(1378) , Vitamin D Deficiency : CK(1695) : AC(178)
Therapeutic Actions : Exercise : CK(1235) : AC(193)
Pharmacological Actions : Antioxidants : CK(7304) : AC(2677) , Enzyme Inhibitors : CK(463) : AC(250)

Vitamin D supplementation in obese hypertensive patients with low 25-hydroxyvitamin D reduces HbA1c.

Pubmed Data : Diabetes Obes Metab. 2016 Jun 23. Epub 2016 Jun 23. PMID: 27334070

Article Published Date : Jun 22, 2016

Authors : Martin R Grübler, Martin Gaksch, Katharina Kienreich, Nicolas Verheyen, Johannes Schmid, Bríain Ó Hartaigh, Georg Richtig, Hubert Scharnagl, Andreas Meinitzer, Astrid Fahrleitner-Pammer, Winfried März, Andreas Tomaschitz, Stefan Pilz

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hypertension : CK(2984) : AC(406) , Vitamin D Deficiency : CK(1695) : AC(178)

Vitamin D supplementation might protect against cardiac failure in older people but does not appear to protect against MI or stroke.

Pubmed Data : Am J Clin Nutr. 2014 Sep ;100(3):746-55. Epub 2014 Jul 23. PMID: **25057156**

Article Published Date : Aug 31, 2014

Authors : John A Ford, Graeme S MacLennan, Alison Avenell, Mark Bolland, Andrew Grey, Miles Witham,

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Heart Failure : CK(918) : AC(124) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Cardiovascular Agents : CK(160) : AC(24)
Additional Keywords : Risk Reduction : CK(6366) : AC(681) , Significant Treatment Outcome : CK(3038) : AC(366)

Vitamin D, cognition, and dementia: a systematic review and meta-analysis.

Pubmed Data : Neurology. 2012 Sep 25 ;79(13):1397-405. PMID: **23008220**

Article Published Date : Sep 24, 2012

Authors : Cynthia Balion, Lauren E Griffith, Lisa Strifler, Matthew Henderson, Christopher Patterson, George Heckman, David J Llewellyn, Parminder Raina

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Alzheimer's Disease : CK(1292) : AC(382) , Dementia : CK(571) : AC(79) , Dementia: Alzheimer Type : CK(23) : AC(3), Vitamin D Deficiency : CK(1695) : AC(178)

Weekly consumption of 7 vitamin D-enhanced eggs has an important impact on winter vitamin D status in adults.

Pubmed Data : Am J Clin Nutr. 2016 Aug 3. Epub 2016 Aug 3. PMID: **27488236**

Article Published Date : Aug 02, 2016

Authors : Aoife Hayes, Sarah Duffy, Michael O'Grady, Jette Jakobsen, Karen Galvin, Joanna Teahan-Dillon, Joseph Kerry, Alan Kelly, John O'Doherty, Siobhan Higgins, Kelly M Seamans, Kevin D Cashman

Study Type : Human Study
Additional Links
Substances : Egg : CK(122) : AC(12) , Vitamin D : CK(3209) : AC(455)
Diseases : Vitamin D Deficiency : CK(1695) : AC(178)

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low and decreased level of vitamin D might correlate with progression and metastasis of breast cancer.

Pubmed Data : Asian Pac J Cancer Prev. 2015 ;16(12):4881-3. PMID: **26163608**

Article Published Date : Dec 31, 2014

Authors : Somchai Thanasitthichai, Arkom Chaiwerawattana, Aree Prasitthipayong

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18) , Risk Factors : CK(2584) : AC(332) , Risk Reduction : CK(6346) : AC(680)

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vitamin D deficiency is highly prevalent in patients with IBS and these results seem to have therapeutic implications.

Pubmed Data : Oman Med J. 2015 Mar ;30(2):115-8. PMID: **25960837**

Article Published Date : Feb 28, 2015

Authors : Yasir Khayyat, Suzan Attar

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Irritable Bowel Syndrome : CK(710) : AC(92) , Vitamin D Deficiency : CK(1695) : AC(178)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

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vitamin D supplementation may be effective in optimizing vitamin D status and counteracting the progression of aortic stiffness in black youth.

Pubmed Data : J Clin Endocrinol Metab. 2010 Oct;95(10):4584-91. Epub 2010 Jul 21. PMID: **20660028**

Article Published Date : Oct 01, 2010

Authors : Yanbin Dong, Inger S Stallmann-Jorgensen, Norman K Pollock, Ryan A Harris, Daniel Keeton, Ying Huang, Ke Li, Reda Bassali, De-huang Guo, Jeffrey Thomas, Gary L Pierce, Jennifer White, Michael F Holick, Haidong Zhu

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Arterial Hardening: Elasticity : CK(186) : AC(21), Cardiovascular Diseases : CK(7176) : AC(907) , Vitamin D Deficiency : CK(1695) : AC(178)

Vitamin D Deficiency: Dosage Consideration (AC 2) (CK 11)

"Why the minimum desirable serum 25-hydroxyvitamin D level should be 75 nmol/L (30 ng/ml)."

Pubmed Data : Best Pract Res Clin Endocrinol Metab. 2011 Aug ;25(4):681-91. PMID: 21872808

Article Published Date : Aug 01, 2011

Authors : Reinhold Vieth

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Vitamin D Deficiency: Dosage Consideration : CK(1) : AC(1)

Individuals with serum 25(OH)D of approximately 52 ng/ml had 50% lower risk of breast cancer than those with serum<13 ng/ml.

Pubmed Data : J Steroid Biochem Mol Biol. 2007 Mar ;103(3-5):708-11. PMID: 17368188

Article Published Date : Mar 01, 2007

Authors : Cedric F Garland, Edward D Gorham, Sharif B Mohr, William B Grant, Edward L Giovannucci, Martin Lipkin, Harold Newmark, Michael F Holick, Frank C Garland

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer: Prevention : CK(552) : AC(82) , Vitamin D Deficiency: Dosage Consideration : CK(1) : AC(1)
Pharmacological Actions : Chemopreventive : CK(2835) : AC(787)

Vitiligo (AC 1) (CK 1)

Vitamin D may have a therapeutic role in vitiligo.

Pubmed Data : Med Res Rev. 2009 May;29(3):514-46. PMID: 19241402

Article Published Date : May 01, 2009

Authors : Stanca Ariana Birlea, Gertrude-Emilia Costin, David Albert Norris

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Vitiligo : CK(64) : AC(14)

Vulvar Cancer (AC 1) (CK 20)

Review: there is a consistently strong inverse correlations with solar UVB for 15 types of cancers.

Pubmed Data : Anticancer Res. 2012 Jan ;32(1):223-36. PMID: 22213311

Article Published Date : Jan 01, 2012

Authors : William B Grant

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bladder Cancer : CK(349) : AC(100), Breast Cancer : CK(3526) : AC(1059), Cervical Cancer : CK(345) : AC(144), Colon Cancer : CK(749) : AC(430), Colorectal Cancer : CK(1635) : AC(611), Endometrial Cancer : CK(307) : AC(53), Esophageal Cancer : CK(506) : AC(85), Hodgkin Lymphoma : CK(53) : AC(7), Lung Cancer : CK(1033) : AC(393), Non-Hodgkin Lymphoma : CK(363) : AC(79), Ovarian Cancer : CK(360) : AC(128), Pancreatic Cancer : CK(889) : AC(260), Renal Cancer : CK(25) : AC(4), Vulvar Cancer : CK(52) : AC(4)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)
Pharmacological Actions : Chemopreventive : CK(2831) : AC(784)

Western-Style Diet Induced Toxicity (AC 1) (CK 2)

Calcium and vitamin D may prevent Western-style diet-induced colonic tumors.

Pubmed Data : Carcinogenesis. 2009 Jan;30(1):88-92. Epub 2008 Nov 18. PMID: 19017685

Article Published Date : Jan 01, 2009

Authors : Harold L Newmark, Kan Yang, Naoto Kurihara, Kunhua Fan, Leonard H Augenlicht, Martin Lipkin

Study Type : Animal Study
Additional Links
Substances : Calcium : CK(287) : AC(44) , Vitamin D : CK(3176) : AC(449)
Diseases : Colon Cancer : CK(749) : AC(430) , Western-Style Diet Induced Toxicity : CK(6) : AC(3)
Anti Therapeutic Actions : Western Diet : CK(131) : AC(35)

Wound Healing (AC 1) (CK 1)

Supplementation of vitamin D may improve wound healing and regeneration in patients with a vitamin D deficiency.

Pubmed Data : Burns. 2016 May 21. Epub 2016 May 21. PMID: 27222384

Article Published Date : May 20, 2016

Authors : Jie Ding, Peter Kwan, Zengshuan Ma, Takashi Iwashina, Jianfei Wang, Heather A Shankowsky, Edward E Tredget

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Vitamin D Deficiency : CK(1695) : AC(178) , Wound Healing : CK(539) : AC(161)
Additional Keywords : Gene Expression : CK(93) : AC(46)

Wound Healing: Delayed (AC 1) (CK 10)

vitamin D supplementation had beneficial effects on improved glycemic control in patients with diabetic foot

ulcer.

Pubmed Data : J Diabetes Complications. 2016 Jun 23. Epub 2016 Jun 23. PMID: 27363929

Article Published Date : Jun 22, 2016

Authors : Reza Razzaghi, Hamideh Pourbagheri, Mansooreh Momen-Heravi, Fereshteh Bahmani, Jafar Shadi, Zahra Soleimani, Zatollah Asemi

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : C-Reactive Protein : CK(1630) : AC(172), Diabetic Ulcer : CK(155) : AC(25), Wound Healing: Delayed : CK(74) : AC(29)
Pharmacological Actions : Anticholesteremic Agents : CK(1244) : AC(230), Malondialdehyde Down-regulation : CK(554) : AC(152)

Category : Pharmacological Actions

Adiponectin upregulation (AC 1) (CK 10)

Vitamin D supplementation showed a positive effect on plasma adiponectin levels.

Pubmed Data : Int J Clin Pract. 2016 Apr 19. Epub 2016 Apr 19. PMID: 27091752

Article Published Date : Apr 18, 2016

Authors : N Alizadeh, H Khalili, M Mohammadi, A Abdollahi, S Ala

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Hyperglycemia : CK(539) : AC(130)
Pharmacological Actions : Adiponectin upregulation : CK(51) : AC(11)

Adjuvants; Immunologic (AC 1) (CK 2)

Vitamin D3 has drug sparing effect in cylcosporine treatment of multiple sclerosis in an animal model.

Pubmed Data : J Neuroimmunol. 1995 Sep;61(2):151-60. PMID: 7593550

Article Published Date : Sep 01, 1995

Authors : D D Branisteanu, M Waer, H Sobis, S Marcelis, M Vandeputte, R Bouillon

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Multiple Sclerosis : CK(964) : AC(184)
Pharmacological Actions : Adjuvants: Immunologic : CK(2) : AC(1)
Additional Keywords : Drug: Cyclosporine : CK(2) : AC(1) , Drug Sparing : CK(451) : AC(50)

Alpha-glucosidase inhibitor (AC 1) (CK 1)

Vitamin D3 combined with vitamin B1 or vitamin B2 exhibited significant synergistic effects on inhibition of α-glucosidase.

Pubmed Data : Food Funct. 2016 Jan 8. Epub 2016 Jan 8. PMID: 26744303

Article Published Date : Jan 07, 2016

Authors : Xi Peng, Guowen Zhang, Li Zeng

Study Type : In Vitro Study
Additional Links
Substances : Riboflavin (Vitamin B-2) : CK(120) : AC(19) , Thiamine (B-1) : CK(106) : AC(18), Vitamin D : CK(3209) : AC(455)
Diseases : Diabetes Mellitus: Type 2 : CK(3384) : AC(595)
Pharmacological Actions : Alpha-glucosidase inhibitor : CK(52) : AC(37)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247)

Angiogenesis Inhibitors (AC 1) (CK 1)

Dietary factors modify miRNA expression and their mRNA targets in various cancer processes.

Pubmed Data : Adv Nutr. 2011 Nov ;2(6):472-85. Epub 2011 Nov 3. PMID: 22332090

Article Published Date : Oct 31, 2011

Authors : Sharon A Ross, Cindy D Davis

Study Type : Review
Additional Links
Substances : Curcumin : CK(4135) : AC(2175) , EGCG (Epigallocatechin gallate) : CK(609) : AC(314) , Fiber : CK(808) : AC(103) , Folate : CK(169) : AC(25) , Genistein : CK(515) : AC(228) , Resveratrol : CK(1245) : AC(746), Selenium : CK(784) : AC(139) , Vitamin A : CK(498) : AC(77) , Vitamin D : CK(3176) : AC(449), Vitamin E : CK(1656) : AC(290)
Diseases : Cancers: All : CK(14500) : AC(4586) , Inflammation : CK(2918) : AC(856)
Pharmacological Actions : Angiogenesis Inhibitors : CK(114) : AC(62) , Anti-metastatic : CK(615) : AC(412), Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612), Chemopreventive : CK(2831) : AC(784) , MicroRNA modulator : CK(260) : AC(142)
Additional Keywords : Dietary Concentrations : CK(95) : AC(23) , Plant Extracts : CK(7483) : AC(2462)

Anti Inflammatory (AC 1) (CK 5)

Vitamin D upregulates the expression of GDF-15 in prostate cancers driven by inflammation.

Pubmed Data : Prostate. 2014 Oct 18. Epub 2014 Oct 18. PMID: 25327758

Article Published Date : Oct 17, 2014

Authors : James R Lambert, Ramon J Whitson, Kenneth A Iczkowski, Francisco G La Rosa, Maxwell L Smith, R Storey Wilson, Elizabeth E Smith, Kathleen C Torkko, Hamid H Gari, M Scott Lucia

Study Type : Animal Study, Human In Vitro
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cancer: Prostate : CK(1466) : AC(428) , Inflammation : CK(2923) : AC(860)
Pharmacological Actions : Anti Inflammatory : CK(68) : AC(12)

Anti-Adipogenic (AC 1) (CK 1)

The combination of vitamin D with genistein results in an enhanced inhibition of lipid accumulation and induction of programmed cell death in maturing preadipocytes (immature fat cells).

Pubmed Data : Life Sci. 2002 Oct 4;71(20):2383-90. PMID: 18239559

Article Published Date : Oct 04, 2002

Authors : Srujana Rayalam, Mary Anne Della-Fera, Suresh Ambati, Jeong-Yeh Yang, Hea Jin Park, Clifton A Baile

Study Type : In Vitro Study
Additional Links
Substances : Genistein : CK(515) : AC(228) , Vitamin D : CK(3176) : AC(449)
Diseases : Abdominal Obesity (Midsection Fat) : CK(458) : AC(66) , Obesity : CK(2208) : AC(467)
Pharmacological Actions : Anti-Adipogenic : CK(110) : AC(52), Apoptotic : CK(2958) : AC(2075)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247)

Anti-Apoptotic (AC 1) (CK 2)

Vitamin D seems to protect against hyperoxia-induced lung injury in newborn rats.

Pubmed Data : Pediatr Pulmonol. 2016 Jun 13. Epub 2016 Jun 13. PMID: 27291304

Article Published Date : Jun 12, 2016

Authors : Mehmet Kose, Osman Bastug, Mehmet Fatih Sonmez, Sedat Per, Ahmet Ozdemir, Emin Kaymak, Hande Yahşi, Mehmet Adnan Ozturk

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Hyperoxia : CK(14) : AC(3)
Pharmacological Actions : Anti-Apoptotic : CK(384) : AC(212)

Anti-Bacterial Agents (AC 3) (CK 12)

High dose vitamin D3 prevents recurrence of pneumonia in children treated with antibiotics.

Pubmed Data : Trop Med Int Health. 2010 Oct;15(10):1148-55. Epub 2010 Aug 17. PMID: 20723187

Article Published Date : Oct 01, 2010

Authors : Semira Manaseki-Holland, Ghulam Qader, Mohammad Isaq Masher, Jane Bruce, M Zulf Mughal, Daniel Chandramohan, Gijs Walraven

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Childhood Infections : CK(275) : AC(29) , Pneumonia : CK(399) : AC(54) , Upper Respiratory Infections : CK(950) : AC(114)
Pharmacological Actions : Anti-Bacterial Agents : CK(1367) : AC(475)
Additional Keywords : Drug Synergy : CK(351) : AC(156)

This review details the association between vitamin D deficiency and common infections.

Pubmed Data : Can J Physiol Pharmacol. 2015 May ;93(5):363-8. Epub 2015 Jan 26. PMID: 25741906

Article Published Date : Apr 30, 2015

Authors : Richard R Watkins, Tracy L Lemonovich, Robert A Salata

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hepatitis C : CK(474) : AC(87) , HIV Infections : CK(659) : AC(216) , Influenza : CK(789) : AC(123), Pneumonia : CK(399) : AC(54) , Sepsis : CK(197) : AC(54) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(244) : AC(92), Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Anti-Bacterial Agents : CK(1367) : AC(475)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Vitamin D may be acting as a panaceal antibiotic agent and thus may be useful as an adjuvant therapy in diverse infections.

Pubmed Data : Ann N Y Acad Sci. 2014 May ;1317:76-83. Epub 2014 Mar 4. PMID: 24593793

Article Published Date : Apr 30, 2014

Authors : Elisabetta Borella, Gideon Nesher, Eitan Israeli, Yehuda Shoenfeld

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bacterial Vaginosis : CK(46) : AC(6) , Clostridium Infections : CK(233) : AC(45) , Dengue Fever : CK(2) : AC(2), Hepatitis B : CK(241) : AC(46), Hepatitis C : CK(474) : AC(87) , HIV Infections : CK(659) : AC(216), Influenza : CK(789) : AC(123) , Otitis media : CK(305) : AC(41) , Pneumonia : CK(399) : AC(54), Sepsis : CK(197) : AC(54) , Upper Respiratory Infections : CK(950) : AC(114) , Urinary Tract Infections : CK(397) : AC(57)
Pharmacological Actions : Anti-Bacterial Agents : CK(1367) : AC(475) , Anti-Infective Agents : CK(43) : AC(18)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Anti-Glycation Agents (AC 1) (CK 1)

Vitamin D metabolites could reduce glycation modification

Pubmed Data : FEBS Lett. 2016 Jul 1. Epub 2016 Jul 1. PMID: 27364912

Article Published Date : Jun 30, 2016

Authors : Sarah Iqbal, Md Maroof Alam, Imrana Naseem

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Advanced Glycation End products (AGE) : CK(231) : AC(73)
Pharmacological Actions : Anti-Glycation Agents : CK(46) : AC(19)

Anti-Infective Agents (AC 1) (CK 1)

Vitamin D may be acting as a panaceal antibiotic agent and thus may be useful as an adjuvant therapy in diverse infections.

Pubmed Data : Ann N Y Acad Sci. 2014 May ;1317:76-83. Epub 2014 Mar 4. PMID: 24593793

Article Published Date : Apr 30, 2014

Authors : Elisabetta Borella, Gideon Nesher, Eitan Israeli, Yehuda Shoenfeld

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bacterial Vaginosis : CK(46) : AC(6) , Clostridium Infections : CK(233) : AC(45) , Dengue Fever : CK(2) : AC(2), Hepatitis B : CK(241) : AC(46), Hepatitis C : CK(474) : AC(87) , HIV Infections : CK(659) : AC(216), Influenza : CK(789) : AC(123) , Otitis media : CK(305) : AC(41) , Pneumonia : CK(399) : AC(54), Sepsis : CK(197) : AC(54) , Upper Respiratory Infections : CK(950) : AC(114) , Urinary Tract Infections : CK(397) : AC(57)
Pharmacological Actions : Anti-Bacterial Agents : CK(1367) : AC(475) , Anti-Infective Agents : CK(43) : AC(18)
Additional Keywords : Diseases that are Linked : CK(2325) : AC(303)

Anti-Inflammatory Agents (AC 19) (CK 88)

A nutraceutical formulation with spirulina may help protect the stem progenitor cells from insults.

Pubmed Data : Minerva Urol Nefrol. 1985 Jan-Mar;37(1):35-50. PMID: PMC2864748

Article Published Date : Dec 31, 1984

Authors : F Aragona, C Spinelli, G Parlato, B Maestrini, F D'Elia, U Simi, L Fiorentini

Study Type : In Vitro Study
Additional Links
Substances : Blueberry : CK(260) : AC(90) , Green Tea : CK(1971) : AC(562) , Spirulina : CK(266) : AC(73), Vitamin D : CK(3176) : AC(449)
Diseases : Brain: Oxidative Stress : CK(79) : AC(46) , Brain Inflammation : CK(259) : AC(143), Oxidative Stress : CK(3855) : AC(1378)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616) , Antioxidants : CK(7304) : AC(2677), Neuroprotective Agents : CK(2268) : AC(1071)
Additional Keywords : Neural Stem Cell : CK(6) : AC(5) , Plant Extracts : CK(7483) : AC(2462)

Co-treatment with silibinin plus 1,25D decreased proliferation and migration at doses where silibinin alone had no effect.

Pubmed Data : Cancer Lett. 2015 Jul 1 ;362(2):199-207. Epub 2015 Apr 3. PMID: 25846868

Article Published Date : Jun 30, 2015

Authors : Vandanajay Bhatia, Miriam Falzon

Study Type : In Vitro Study
Additional Links
Substances : Silibinin : CK(117) : AC(56) , Vitamin D : CK(3176) : AC(449)
Diseases : Colon Cancer : CK(749) : AC(430) , Inflammation : CK(2918) : AC(856)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616) , Anti-metastatic : CK(615) : AC(412), Antiproliferative : CK(2479) : AC(1685), Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)
Additional Keywords : Drug Synergy : CK(351) : AC(156)

Glutamine and arginine-fortified PF with curcumin might be a promising option to enhance the effectiveness and expand the scope of EEN therapy.

Pubmed Data : JPEN J Parenter Enteral Nutr. 2016 Jan 29. Epub 2016 Jan 29. PMID: **26826259**

Article Published Date : Jan 28, 2016

Authors : Moftah H Alhagamhmad, Andrew S Day, Daniel A Lemberg, Steven T Leach

Study Type : In Vitro Study
Additional Links
Substances : Arginine : CK(1012) : AC(176) , Curcumin : CK(4135) : AC(2175) , Glutamine : CK(123) : AC(24), Vitamin D : CK(3176) : AC(449)
Diseases : Crohn's Disease : CK(153) : AC(30) , Inflammatory Bowel Diseases : CK(1003) : AC(189)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616) , Interleukin-8 downregulation : CK(166) : AC(61)

High dose vitamin D3 improves the inflammation/immune status in patients with multiple sclerosis.

Pubmed Data : PLoS One. 2010;5(12):e15235. Epub 2010 Dec 13. PMID: **21179201**

Article Published Date : Jan 01, 2010

Authors : Joost Smolders, Evelyn Peelen, Mariëlle Thewissen, Jan Willem Cohen Tervaert, Paul Menheere, Raymond Hupperts, Jan Damoiseaux

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Multiple Sclerosis : CK(964) : AC(184)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Immunomodulatory: T-Cell down-regulation : CK(12) : AC(2)

High-dose vitamin D might be useful in promoting an anti-

inflammatory state in RRMS patients.

Pubmed Data : Neuroimmunomodulation. 2015 Sep 25. Epub 2015 Sep 25. PMID: **26401986**

Article Published Date : Sep 24, 2015

Authors : Fereshteh Ashtari, Nafiseh Toghianifar, Sayyed Hamid Zarkesh-Esfahani, Marjan Mansourian

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Multiple Sclerosis: Relapsing-Remitting : CK(114) : AC(13)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interleukin-10 upregulation : CK(105) : AC(24)

Serum 25-hydroxyvitamin D concentration is inversely associated with mucosal inflammation in patients with ulcerative colitis.

Pubmed Data : Am J Clin Nutr. 2016 Jun 8. Epub 2016 Jun 8. PMID: **27281309**

Article Published Date : Jun 07, 2016

Authors : Katherine Meckel, Yan Chun Li, John Lim, Masha Kocherginsky, Chris Weber, Anas Almoghrabi, Xindi Chen, Austin Kaboff, Farhana Sadiq, Stephen B Hanauer, Russell D Cohen, John Kwon, David T Rubin, Ira Hanan, Atsushi Sakuraba, Eugene Yen, Marc Bissonnette, Joel Pekow

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Inflammation : CK(2923) : AC(860) , Ulcerative Colitis : CK(295) : AC(59) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616)
Additional Keywords : Risk Factors : CK(2584) : AC(332) , Risk Reduction : CK(6346) : AC(680)

This review provides evidence that nutrition and natural compounds can help in prevention and treatment of this neuroinflammatory disease.

Pubmed Data : Pharmacol Ther. 2015 Apr ;148:85-113. Epub 2014 Nov 27. PMID: **25435020**

Article Published Date : Mar 31, 2015

Authors : Katja Schmitz, Julia Barthelmes, Leonie Stolz, Susanne Beyer, Olaf Diehl, Irmgard Tegeder

Study Type : Review
Additional Links
Substances : Broccoli : CK(962) : AC(298) , Curcumin : CK(4135) : AC(2175) , EGCG (Epigallocatechin gallate) : CK(609) : AC(314) , Polyunsaturated Fatty Acids (PUFAs) : CK(174) : AC(32) , Sulforaphane : CK(533) : AC(262) , Vitamin A : CK(498) : AC(77) , Vitamin D : CK(3176) : AC(449) , Vitamin E : CK(1656) : AC(290)

Diseases : Encephalomyelitis : CK(12) : AC(7) , Multiple Sclerosis : CK(964) : AC(184)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616) , Immunomodulatory : CK(1286) : AC(357)
Additional Keywords : Dietary Modification : CK(315) : AC(47) , Natural Substance Synergy : CK(537) : AC(247), Significant Treatment Outcome : CK(3038) : AC(366)

Virgin olive oil fortified with vitamin D3 is able to counteract the bone loss induced by estrogen deprivation.

Pubmed Data : PLoS One. 2014 ;9(12):e115817. Epub 2014 Dec 31. PMID: **25551374**

Article Published Date : Dec 31, 2013

Authors : Camille Tagliaferri, Marie-Jeanne Davicco, Patrice Lebecque, Stéphane Georgé, Marie-Jo Amiot, Sylvie Mercier, Amélie Dhaussy, Alain Huertas, Stéphane Walrand, Yohann Wittrant, Véronique Coxam

Study Type : Animal Study
Additional Links
Substances : Olive Oil : CK(245) : AC(50) , Polyphenols : CK(930) : AC(334) , Vitamin D : CK(3176) : AC(449)
Diseases : Oxidative Stress : CK(3855) : AC(1378)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Bone Density Conservation Agents : CK(6) : AC(3)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247)

Vitamin D consistently displayed anti-inflammatory effects in both human cell lines and PBMCs.

Pubmed Data : PLoS One. 2015 ;10(11):e0141770. Epub 2015 Nov 3. PMID: **26528817**

Article Published Date : Dec 31, 2014

Authors : Emily K Calton, Kevin N Keane, Philip Newsholme, Mario J Soares

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Inflammation : CK(2923) : AC(860)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616)

Vitamin D could modulate the inflammatory response in periodontal tissues.

Pubmed Data : Inflammation. 2015 Dec ;38(6):2252-8. PMID: **26156812**

Article Published Date : Nov 30, 2015

Authors : Yoshitaka Hosokawa, Ikuko Hosokawa, Satoru Shindo, Kazumi Ozaki, Takashi Matsuo

Study Type : In Vitro Study

Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Periodontal Diseases : CK(257) : AC(64)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interleukin-6 Downregulation : CK(1083) : AC(340), Interleukin-8 downregulation : CK(166) : AC(61) , NF-kappaB Inhibitor : CK(1113) : AC(693)

Vitamin D has the ability to suppress inflammatory cytokines, while it increases the generation of anti-inflammatory cytokines.

Pubmed Data : J Biol Regul Homeost Agents. 2015 Jul-Sep;29(3):563-7. PMID: **26403394**

Article Published Date : Jun 30, 2015

Authors : E Toniato, E Spinas, A Saggini, S K Kritas, A Caraffa, P Antinolfi, R Saggini, F Pandolfi, P Conti

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Skin Diseases: Inflammatory : CK(1) : AC(1)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interferon Gamma Reducer : CK(58) : AC(24), Interleukin-10 upregulation : CK(105) : AC(24) , Interleukin-1 alpha downregulation : CK(42) : AC(17), Interleukin-2 Downregulation : CK(4) : AC(3) , Interleukin-4 upregulation : CK(12) : AC(2), Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)

Vitamin D may be beneficial to protect patients from inflammation and tissue damage during tuberculosis infection.

Pubmed Data : Int Immunopharmacol. 2016 Feb 26 ;34:86-91. Epub 2016 Feb 26. PMID: **26927615**

Article Published Date : Feb 25, 2016

Authors : M Harishankar, S Anbalagan, P Selvaraj

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Tuberculosis : CK(312) : AC(54)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Immunomodulatory : CK(1286) : AC(357)

Vitamin D repletion reduces the progression of premalignant lesions, proliferation, and inflammation.

Pubmed Data : Cancer Prev Res (Phila). 2015 Oct ;8(10):895-904. Epub 2015 Aug 14. PMID:

26276745

Article Published Date : Sep 30, 2015

Authors : Sarah A Mazzilli, Pamela A Hershberger, Mary E Reid, Paul N Bogner, Kristopher Atwood, Donald L Trump, Candace S Johnson

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Lung Cancer : CK(1033) : AC(393) , Lung Cancer: Prevention : CK(236) : AC(30) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616) , Antiproliferative : CK(2479) : AC(1685), Chemopreventive : CK(2831) : AC(784)

Vitamin D supplementation may decrease serum levels of parathyroid hormone and inflammatory mediators in patients with chronic heart failure.

Pubmed Data : Clin Cardiol. 2015 Sep 28. Epub 2015 Sep 28. PMID: 26415519

Article Published Date : Sep 27, 2015

Authors : Wei-Long Jiang, Hai-Bo Gu, Yu-Feng Zhang, Qing-Qing Xia, Jia Qi, Jian-Chang Chen

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : C-Reactive Protein : CK(1630) : AC(172), Heart Failure : CK(918) : AC(124)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)
Additional Keywords : Parathyroid Hormone : CK(52) : AC(5)

Vitamin D(3) reduces the inflammatory milieu in congestive heart failure patients and might serve as a new antiinflammatory agent for the future treatment of the disease.

Pubmed Data : Am J Clin Nutr. 2006 Apr;83(4):754-9. PMID: 16600924

Article Published Date : Apr 01, 2006

Authors : Stefanie S Schleithoff, Armin Zittermann, Gero Tenderich, Heiner K Berthold, Peter Stehle, Reiner Koerfer

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Congestive Heart Failure : CK(276) : AC(34) , Heart Failure : CK(918) : AC(124)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interleukin-10 upregulation : CK(105) : AC(24)

Vitamin D-enriched Shiitake mushroom exerts a synergistic anti-inflammatory effect in an immune-mediated hepatitis model.

Pubmed Data : J Med Food. 2016 Mar 30. Epub 2016 Mar 30. PMID: **27027234**

Article Published Date : Mar 29, 2016

Authors : Ariel Drori, Yehudit Shabat, Ami Ben Ya'acov, Ofer Danay, Dan Levanon, Lidya Zolotarov, Yaron Ilan

Study Type : Animal Study
Additional Links
Substances : Shiitake Mushroom : CK(43) : AC(22), Vitamin D : CK(3176) : AC(449)
Diseases : Chemically-Induced Liver Damage : CK(634) : AC(255) , Hepatitis C : CK(474) : AC(87) , Liver Disease : CK(135) : AC(40)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Hepatoprotective : CK(1383) : AC(592)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247) , Plant Extracts : CK(7483) : AC(2462)
Problem Substances : Concanavalin A : CK(25) : AC(10)

Vitamin D2 has therapeutic potential against inflammation and Alzheimer's disease.

Pubmed Data : Life Sci. 2016 Jul 28. Epub 2016 Jul 28. PMID: **27477351**

Article Published Date : Jul 27, 2016

Authors : Suchismita Raha, Ho Jeong Lee, Silvia Yumnam, Gyeong Eun Hong, Venu Venkatarame Gowda Saralamma, Yeong Lae Ha, Jeong Ok Kim, Young Suk Kim, Jeong Doo Heo, Sang Joon Lee, Hee Kim Eun, Gon Sup Kim

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Alzheimer's Disease : CK(1287) : AC(379)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interleukin-1 beta downregulation : CK(462) : AC(204), Interleukin-6 Downregulation : CK(1083) : AC(340) , NF-kappaB Inhibitor : CK(1113) : AC(693), Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)

Vitamin D3 may be an effective compliment to other B cell suppression therapeutics to augment downregulation of nonspecific inflammation.

Pubmed Data : J Nutr Metab. 2016 ;2016:4280876. Epub 2016 May 30. PMID: **27313879**

Article Published Date : Dec 31, 2015

Authors : Omar K Danner, Leslie R Matthews, Sharon Francis, Veena N Rao, Cassie P Harvey, Richard P Tobin, Ken L Wilson, Ernest Alema-Mensah, M Karen Newell Rogers, Ed W Childs

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Autoimmune Diseases : CK(6604) : AC(1119)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622)

Vitamin D3 supplementation diminished the inflammatory conditions in systemic lupus erythematosus.

Pubmed Data : Iran J Basic Med Sci. 2016 Apr ;19(4):374-80. PMID: **27279980**

Article Published Date : Mar 31, 2016

Authors : Fatemeh Faraji, Maryam Rastin, Fahimeh Lavi Arab, Mohammad Reza Kalantari, Shahrzad Zamani Taghizadeh Rabe, Nafise Tabasi, Mahmoud Mahmoudi

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Systemic Lupus Erythematosus : CK(463) : AC(66)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interleukin-17 downregulation : CK(39) : AC(13)

Anti-Tumor (AC 1) (CK 2)

Vitamin D3 and rosemary have a cooperative antitumor effect in a mouse model of myeloid leukemia.

Pubmed Data : Int J Cancer. 2006 Jun 15;118(12):3012-21. PMID: **16395705**

Article Published Date : Jun 15, 2006

Authors : Hagar Sharabani, Eugene Izumchenko, Qing Wang, Rita Kreinin, Michael Steiner, Zeev Barvish, Michael Kafka, Yoav Sharoni, Joseph Levy, Milan Uskokovic, George P Studzinski, Michael Danilenko

Study Type : Animal Study
Additional Links
Substances : Rosemary : CK(218) : AC(78) , Vitamin D : CK(3176) : AC(449)
Diseases : Acute Myeloid Leukemia : CK(95) : AC(47) , Chronic Myeloid Leukemia : CK(31) : AC(16)
Pharmacological Actions : Anti-Tumor : CK(136) : AC(72), Anticarcinogenic Agents : CK(1097) : AC(518)
Additional Keywords : Antineoplastic Agents : CK(69) : AC(28) , Natural Substance Synergy : CK(537) : AC(247), Plant Extracts : CK(7483) : AC(2462)

Anti-metastatic (AC 6) (CK 6)

1,25(OH)2D inhibits breast cancer cell metastatic capability as well as inhibits EMT, an essential step in the metastatic process.

Pubmed Data : Nutr Cancer. 2016 Aug 23:1-8. Epub 2016 Aug 23. PMID: 27552186

Article Published Date : Aug 22, 2016

Authors : Tomasz Wilmanski, Alle Barnard, Mukti R Parikh, Julia Kirshner, Kimberly Buhman, John Burgess, Dorothy Teegarden

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Breast Cancer : CK(3526) : AC(1059) , Breast Cancer: Bone Metastasis : CK(20) : AC(9) , Breast Cancer: Triple Negative : CK(258) : AC(140)
Pharmacological Actions : Anti-metastatic : CK(615) : AC(412)

Co-treatment with silibinin plus 1,25D decreased proliferation and migration at doses where silibinin alone had no effect.

Pubmed Data : Cancer Lett. 2015 Jul 1 ;362(2):199-207. Epub 2015 Apr 3. PMID: 25846868

Article Published Date : Jun 30, 2015

Authors : Vandanajay Bhatia, Miriam Falzon

Study Type : In Vitro Study
Additional Links
Substances : Silibinin : CK(117) : AC(56) , Vitamin D : CK(3176) : AC(449)
Diseases : Colon Cancer : CK(749) : AC(430) , Inflammation : CK(2918) : AC(856)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616) , Anti-metastatic : CK(615) : AC(412), Antiproliferative : CK(2479) : AC(1685), Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)
Additional Keywords : Drug Synergy : CK(351) : AC(156)

Dietary factors modify miRNA expression and their mRNA targets in various cancer processes.

Pubmed Data : Adv Nutr. 2011 Nov ;2(6):472-85. Epub 2011 Nov 3. PMID: 22332090

Article Published Date : Oct 31, 2011

Authors : Sharon A Ross, Cindy D Davis

Study Type : Review

Additional Links

Substances : Curcumin : CK(4135) : AC(2175) , EGCG (Epigallocatechin gallate) : CK(609) : AC(314) , Fiber : CK(808) : AC(103) , Folate : CK(169) : AC(25) , Genistein : CK(515) : AC(228) , Resveratrol : CK(1245) : AC(746), Selenium : CK(784) : AC(139) , Vitamin A : CK(498) : AC(77) , Vitamin D : CK(3176) : AC(449), Vitamin E : CK(1656) : AC(290)

Diseases : Cancers: All : CK(14500) : AC(4586) , Inflammation : CK(2918) : AC(856)

Pharmacological Actions : Angiogenesis Inhibitors : CK(114) : AC(62) , Anti-metastatic : CK(615) : AC(412), Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612), Chemopreventive : CK(2831) : AC(784) , MicroRNA modulator : CK(260) : AC(142)

Additional Keywords : Dietary Concentrations : CK(95) : AC(23) , Plant Extracts : CK(7483) : AC(2462)

These results indicate that 1α,25(OH)$_2$D$_3$ suppresses the migration and invasion of ovarian cancer cells by inhibiting EMT.

Pubmed Data : Int J Mol Sci. 2016 ;17(8). Epub 2016 Aug 19. PMID: **27548154**

Article Published Date : Dec 31, 2015

Authors : Yong-Feng Hou, Si-Hai Gao, Ping Wang, He-Mei Zhang, Li-Zhi Liu, Meng-Xuan Ye, Guang-Ming Zhou, Zeng-Li Zhang, Bing-Yan Li

Study Type : In Vitro Study

Additional Links

Substances : Vitamin D : CK(3209) : AC(455)

Diseases : Ovarian Cancer : CK(360) : AC(128)

Pharmacological Actions : Anti-metastatic : CK(615) : AC(412)

Treatment of GCT cells with 25D augmented cell migration, as determined by live cell imaging.

Pubmed Data : J Steroid Biochem Mol Biol. 2013 Jul ;136:59-61. Epub 2012 Sep 16. PMID: **22989483**

Article Published Date : Jun 30, 2013

Authors : M Kogawa, D M Findlay, P H Anderson, G J Atkins

Study Type : In Vitro Study

Additional Links

Substances : Vitamin D : CK(3209) : AC(455)

Diseases : Osteoclastoma : CK(2) : AC(2)

Pharmacological Actions : Anti-metastatic : CK(615) : AC(412)

Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18)

Vitamin D3 stimulates embryonic stem cells but inhibits migration and growth of ovarian cancer and teratocarcinoma cell lines.

Pubmed Data : J Ovarian Res. 2016 ;9(1):26. Epub 2016 Apr 18. PMID: 27091127

Article Published Date : Dec 31, 2015

Authors : Ahmed Abdelbaset-Ismail, Daniel Pedziwiatr, Ewa Suszyńska, Sylwia Sluczanowska-Glabowska, Gabriela Schneider, Sham S Kakar, Mariusz Z Ratajczak

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Ovarian Cancer : CK(360) : AC(128)
Pharmacological Actions : Anti-metastatic : CK(615) : AC(412) , Antiproliferative : CK(2479) : AC(1685)
Additional Keywords : Embryonic Development : CK(3) : AC(2)

Anticarcinogenic Agents (AC 6) (CK 28)

A high vitamin D diet reduced proliferation, increased differentiation and apoptosis, and in parallel, upregulated mRNA expression of the calcium-sensing receptor in the colon of mice.

Pubmed Data : J Steroid Biochem Mol Biol. 2015 Mar 7. Epub 2015 Mar 7. PMID: 25758239

Article Published Date : Mar 06, 2015

Authors : Abhishek Aggarwal, Julia Höbaus, Samawansha Tennakoon, Maximilian Prinz-Wohlgenannt, João Graça, Sally A Price, Petra Heffeter, Walter Berger, Sabina Baumgartner-Parzer, Enikö Kállay

Study Type : Animal Study, In Vitro Study
Additional Links
Substances : Calcium : CK(287) : AC(44) , Vitamin D : CK(3176) : AC(449)
Diseases : Colon Cancer : CK(749) : AC(430) , Colon Cancer: Prevention : CK(176) : AC(56)
Pharmacological Actions : Anticarcinogenic Agents : CK(1097) : AC(518) , Antineoplastic Agents : CK(1158) : AC(639), Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075)

Growing evidence shows that vitamins, minerals, and

other dietary factors have profound and protective effects against cancer cells, whether they are grown in the lab, in animals, or studied in human populations.

Pubmed Data : Semin Cancer Biol. 2015 Apr 10. Epub 2015 Apr 10. PMID: **25869442**

Article Published Date : Apr 09, 2015

Authors : Lynnette R Ferguson, Helen Chen, Andrew R Collins, Marisa Connell, Giovanna Damia, Santanu Dasgupta, Meenakshi Malhotra, Alan K Meeker, Amedeo Amedei, Amr Amin, S Salman Ashraf, Katia Aquilano, Asfar S Azmi, Dipita Bhakta, Alan Bilsland, Chandra S Boosani, Sophie Chen, Maria Rosa Ciriolo, Hiromasa Fujii, Gunjan Guha, Dorota Halicka, William G Helferich, W Nicol Keith, Sulma I Mohammed, Elena Niccolai, Xujuan Yang, Kanya Honoki, Virginia R Parslow, Satya Prakash, Sarallah Rezazadeh, Rodney E Shackelford, David Sidransky, Phuoc T Tran, Eddy S Yang, Christopher A Maxwell

Study Type : Review
Additional Links
Substances : Carotenoids : CK(1630) : AC(307) , Isothiocyanates : CK(573) : AC(265) , Polyphenols : CK(930) : AC(334), Resveratrol : CK(1245) : AC(746) , Selenium : CK(784) : AC(139) , Vitamin D : CK(3176) : AC(449)
Diseases : Cancers: All : CK(14500) : AC(4586) , DNA damage : CK(993) : AC(382)
Pharmacological Actions : Anticarcinogenic Agents : CK(1097) : AC(518) , Chemopreventive : CK(2831) : AC(784)
Additional Keywords : Genomic Instability : CK(1) : AC(1) , Natural Substance Synergy : CK(537) : AC(247)

Vitamin D could be a strong candidate for liver cancer prevention in the context of aberrant Smad3 signaling.

Pubmed Data : Sci Rep. 2016 ;6:30217. Epub 2016 Jul 26. PMID: **27456065**

Article Published Date : Dec 31, 2015

Authors : Jian Chen, Lior H Katz, Nina M Muñoz, Shoujun Gu, Ji-Hyun Shin, Wilma S Jogunoori, Mi-Hye Lee, Mitchell D Belkin, Sang-Bae Kim, Jon C White, Jaclyn Andricovich, Alexandros Tzatsos, Shulin Li, Sang Soo Kim, Kirti Shetty, Bibhuti Mishra, Asif Rashid, Ju-Seog Lee, Lopa Mishra

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Liver Cancer : CK(1235) : AC(462), Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Anticarcinogenic Agents : CK(1097) : AC(518)
Additional Keywords : Risk Factors : CK(2584) : AC(332)

Vitamin D deficiency is associated with increased risk of bladder carcinoma in the present study.

Pubmed Data : Cell Physiol Biochem. 2015 Nov 9 ;37(5):1686-1692. Epub 2015 Nov 9. PMID: **26545152**

Article Published Date : Nov 08, 2015

Authors : Hui Zhang, Hui Zhang, Xiuhua Wen, Yonggang Zhang, Xueli Wei, Taiyang Liu

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bladder Cancer : CK(349) : AC(100) , Bladder Cancer: Prevention : CK(89) : AC(9) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Anticarcinogenic Agents : CK(1097) : AC(518)
Additional Keywords : Risk Factors : CK(2584) : AC(332)

Vitamin D status may be an important modulator of cancer progression in persons living with cancer.

Pubmed Data : Oncol Res. 2015 ;22(3):129-37. PMID: **26168131**

Article Published Date : Dec 31, 2014

Authors : Xiayu Wu, Tao Zhou, Neng Cao, Juan Ni, Xu Wang

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cancers: All : CK(14500) : AC(4586)
Pharmacological Actions : Anticarcinogenic Agents : CK(1097) : AC(518)
Additional Keywords : Risk Factors : CK(2584) : AC(332) , Vitamin D Receptor (VDR) : CK(1) : AC(1)

Vitamin D3 and rosemary have a cooperative antitumor effect in a mouse model of myeloid leukemia.

Pubmed Data : Int J Cancer. 2006 Jun 15;118(12):3012-21. PMID: **16395705**

Article Published Date : Jun 15, 2006

Authors : Hagar Sharabani, Eugene Izumchenko, Qing Wang, Rita Kreinin, Michael Steiner, Zeev Barvish, Michael Kafka, Yoav Sharoni, Joseph Levy, Milan Uskokovic, George P Studzinski, Michael Danilenko

Study Type : Animal Study
Additional Links
Substances : Rosemary : CK(218) : AC(78) , Vitamin D : CK(3176) : AC(449)
Diseases : Acute Myeloid Leukemia : CK(95) : AC(47) , Chronic Myeloid Leukemia : CK(31) : AC(16)
Pharmacological Actions : Anti-Tumor : CK(136) : AC(72) , Anticarcinogenic Agents : CK(1097) : AC(518)
Additional Keywords : Antineoplastic Agents : CK(69) : AC(28) , Natural Substance Synergy : CK(537) : AC(247) , Plant Extracts : CK(7483) : AC(2462)

Anticholesteremic Agents (AC 2) (CK 20)

Correction of vitamin D deficiency in type 2 diabetic patients decreases total cholesterol.

Pubmed Data : Ther Adv Endocrinol Metab. 2015 Dec ;6(6):245-248. PMID: 26623001

Article Published Date : Nov 30, 2015

Authors : José Manuel Ramiro-Lozano, José María Calvo-Romero

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Diabetes Mellitus: Type 2 : CK(3384) : AC(595) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Anticholesteremic Agents : CK(1244) : AC(230)

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vitamin D supplementation had beneficial effects on improved glycemic control in patients with diabetic foot ulcer.

Pubmed Data : J Diabetes Complications. 2016 Jun 23. Epub 2016 Jun 23. PMID: 27363929

Article Published Date : Jun 22, 2016

Authors : Reza Razzaghi, Hamideh Pourbagheri, Mansooreh Momen-Heravi, Fereshteh Bahmani, Jafar Shadi, Zahra Soleimani, Zatollah Asemi

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : C-Reactive Protein : CK(1630) : AC(172), Diabetic Ulcer : CK(155) : AC(25) , Wound Healing: Delayed : CK(74) : AC(29)
Pharmacological Actions : Anticholesteremic Agents : CK(1244) : AC(230) , Malondialdehyde Down-regulation : CK(554) : AC(152)

Antidepressive Agents (AC 5) (CK 60)

Consuming 2000 IU vitamin D3 daily during late pregnancy was effective in decreasing perinatal depression levels.

Pubmed Data : BMC Pregnancy Childbirth. 2016;16(1):239. Epub 2016 Aug 20. PMID: **27544544**

Article Published Date : Dec 31, 2015

Authors : Farideh Vaziri, Samira Nasiri, Zohreh Tavana, Mohammad Hossein Dabbaghmanesh, Farkhondeh Sharif, Peyman Jafari

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Depression : CK(1884) : AC(270)
Pharmacological Actions : Antidepressive Agents : CK(1004) : AC(162)
Additional Keywords : Risk Reduction : CK(6346) : AC(680)

Current evidence supports adjunctive use of SAMe, methylfolate, omega-3, and vitamin D with antidepressants to reduce depressive symptoms.

Pubmed Data : Am J Psychiatry. 2016 Apr 26:appiajp201615091228. Epub 2016 Apr 26. PMID: **27113121**

Article Published Date : Apr 25, 2016

Authors : Jerome Sarris, Jenifer Murphy, David Mischoulon, George I Papakostas, Maurizio Fava, Michael Berk, Chee H Ng

Study Type : Meta Analysis, Review
Additional Links
Substances : Omega-3 Fatty Acids : CK(3268) : AC(387) , SAMe (S-adenosylmethionine) : CK(113) : AC(20), Vitamin D : CK(3176) : AC(449)
Diseases : Depression : CK(1884) : AC(270)
Pharmacological Actions : Antidepressive Agents : CK(1004) : AC(162)

Low serum 25(OH)D was associated with higher depressive symptom scores.

Pubmed Data : Eur J Nutr. 2015 Jul 4. Epub 2015 Jul 4. PMID: **26141257**

Article Published Date : Jul 03, 2015

Authors : E M Brouwer-Brolsma, R A M Dhonukshe-Rutten, J P van Wijngaarden, N L van der Zwaluw, E Sohl, P H In't Veld, S C van Dijk, K M A Swart, A W Enneman, A C Ham, N M van Schoor, N van der Velde, A G Uitterlinden, P Lips, E J M Feskens, L C P G M de Groot

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)

Diseases : Depression : CK(1884) : AC(270) , Depressive Disorder : CK(416) : AC(59) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Antidepressive Agents : CK(1004) : AC(162)
Additional Keywords : Gene Expression : CK(93) : AC(46) , Risk Reduction : CK(6346) : AC(680)

These results support the hypothesis that higher serum 25(OH)D concentrations protect against depression.

Pubmed Data : Br J Nutr. 2015 May ;113(9):1418-26. PMID: **25989997**

Article Published Date : Apr 30, 2015

Authors : Tuija Jääskeläinen, Paul Knekt, Jaana Suvisaari, Satu Männistö, Timo Partonen, Katri Sääksjärvi, Niina E Kaartinen, Noora Kanerva, Olavi Lindfors

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Depression : CK(1884) : AC(270) , Depressive Disorder : CK(416) : AC(59)
Pharmacological Actions : Antidepressive Agents : CK(1004) : AC(162)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18) , Risk Reduction : CK(6346) : AC(680)

Vitamin D supplementation of patients with major depressive disorder for 8 week had beneficial effects.

Pubmed Data : J Nutr. 2015 Nov 25. Epub 2015 Nov 25. PMID: **26609167**

Article Published Date : Nov 24, 2015

Authors : Zahra Sepehrmanesh, Fariba Kolahdooz, Fatemeh Abedi, Navid Mazroii, Amin Assarian, Zatollah Asemi, Ahmad Esmaillzadeh

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Depression : CK(1884) : AC(270) , Insulin Resistance : CK(1683) : AC(346) , Oxidative Stress : CK(3855) : AC(1378)
Pharmacological Actions : Antidepressive Agents : CK(1004) : AC(162)

Antihypertensive Agents (AC 2) (CK 11)

This study found that inflammation was above the

current clinical reference range in all sleep duration categories, whereas oxidative stress was elevated among short and very short sleepers.

Pubmed Data : Sleep. 2015 Jul 24. Epub 2015 Jul 24. PMID: 26237775

Article Published Date : Jul 23, 2015

Authors : Thirumagal Kanagasabai, Chris I Ardern

Study Type : Human Study
Additional Links
Substances : Carotenoids : CK(1630) : AC(307) , Vitamin C : CK(1956) : AC(403) , Vitamin D : CK(3176) : AC(449)
Diseases : Inflammation : CK(2918) : AC(856) , Oxidative Stress : CK(3855) : AC(1378)
Pharmacological Actions : Antihypertensive Agents : CK(1167) : AC(162) , Antioxidants : CK(7304) : AC(2677)
Additional Keywords : Risk Factors : CK(2584) : AC(332) , Sleep Duration : CK(20) : AC(2)

Vitamin D deficiency may contribute to the development of arterial hypertension.

Pubmed Data : Nat Rev Cardiol. 2009 Oct;6(10):621-30. Epub 2009 Aug 18. PMID: 19687790

Article Published Date : Oct 01, 2009

Authors : Stefan Pilz, Andreas Tomaschitz, Eberhard Ritz, Thomas R Pieber

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hypertension : CK(2984) : AC(406)
Pharmacological Actions : Antihypertensive Agents : CK(1147) : AC(161)

Antimicrobial (AC 1) (CK 1)

Vitamin D and curcumin taken together may be useful in combating both normal and drug-resistant gonorrhea.

Pubmed Data : Med Hypotheses. 2013 Jul ;81(1):131-5. Epub 2013 Apr 30. PMID: 23642399

Article Published Date : Jun 30, 2013

Authors : Dima A Youssef, Alan N Peiris, Jim L Kelley, William B Grant

Study Type : In Vitro Study
Additional Links

Substances : Curcumin : CK(4135) : AC(2175) , Vitamin D : CK(3176) : AC(449)
Diseases : Gonorrhea : CK(3) : AC(2)
Pharmacological Actions : Antimicrobial : CK(293) : AC(128) , NF-kappaB Inhibitor : CK(1114) : AC(694), Transforming growth factor beta (TGF-β) inhibitor : CK(32) : AC(9)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247)

Antineoplastic Agents (AC 3) (CK 4)

A high vitamin D diet reduced proliferation, increased differentiation and apoptosis, and in parallel, upregulated mRNA expression of the calcium-sensing receptor in the colon of mice.

Pubmed Data : J Steroid Biochem Mol Biol. 2015 Mar 7. Epub 2015 Mar 7. PMID: 25758239

Article Published Date : Mar 06, 2015

Authors : Abhishek Aggarwal, Julia Höbaus, Samawansha Tennakoon, Maximilian Prinz-Wohlgenannt, João Graça, Sally A Price, Petra Heffeter, Walter Berger, Sabina Baumgartner-Parzer, Enikö Kállay

Study Type : Animal Study, In Vitro Study
Additional Links
Substances : Calcium : CK(287) : AC(44) , Vitamin D : CK(3176) : AC(449)
Diseases : Colon Cancer : CK(749) : AC(430) , Colon Cancer: Prevention : CK(176) : AC(56)
Pharmacological Actions : Anticarcinogenic Agents : CK(1097) : AC(518) , Antineoplastic Agents : CK(1158) : AC(639), Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075)

Vitamin A and D have an anti-tumor effect against head and neck squamous cell carcinoma.

Pubmed Data : Auris Nasus Larynx. 2003 Dec;30(4):403-12. PMID: 14656567

Article Published Date : Dec 01, 2003

Authors : Kenichi Satake, Emi Takagi, Akiko Ishii, Yasumasa Kato, Yukari Imagawa, Yuu Kimura, Mamoru Tsukuda

Study Type : In Vitro Study
Additional Links
Substances : Vitamin A : CK(498) : AC(77) , Vitamin D : CK(3176) : AC(449)
Diseases : Head and Neck Cancer : CK(162) : AC(42) , Skin Cancer: Squamous Cell : CK(56) : AC(20)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639) , Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612) , Chemosensitizer : CK(394) : AC(286)

Additional Keywords : Drug: 5-flourouracil : CK(108) : AC(29)

Vitamin D3 works synergistically with all-trans retinoic acid to inhibit the growth of human hepatoma cells.

Pubmed Data : Ai Zheng. 2006 Dec ;25(12):1470-6. PMID: 17166369

Article Published Date : Dec 01, 2006

Authors : Hang-Qing Lu, Jie Zheng

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Liver Cancer : CK(1235) : AC(462)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639) , Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612)
Additional Keywords : Drug Synergy : CK(351) : AC(156)

Antioxidants (AC 8) (CK 29)

A nutraceutical formulation with spirulina may help protect the stem progenitor cells from insults.

Pubmed Data : Minerva Urol Nefrol. 1985 Jan-Mar;37(1):35-50. PMID: PMC2864748

Article Published Date : Dec 31, 1984

Authors : F Aragona, C Spinelli, G Parlato, B Maestrini, F D'Elia, U Simi, L Fiorentini

Study Type : In Vitro Study
Additional Links
Substances : Blueberry : CK(260) : AC(90) , Green Tea : CK(1971) : AC(562) , Spirulina : CK(266) : AC(73), Vitamin D : CK(3176) : AC(449)
Diseases : Brain: Oxidative Stress : CK(79) : AC(46) , Brain Inflammation : CK(259) : AC(143), Oxidative Stress : CK(3855) : AC(1378)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616) , Antioxidants : CK(7304) : AC(2677), Neuroprotective Agents : CK(2268) : AC(1071)
Additional Keywords : Neural Stem Cell : CK(6) : AC(5) , Plant Extracts : CK(7483) : AC(2462)

The role of some natural Nrf2 activators and its effect in diabetes is discussed in this review.

Pubmed Data : Clin Chim Acta. 2015 Jul 9. Epub 2015 Jul 9. PMID: 26165427

Article Published Date : Jul 08, 2015

Authors : Angélica Saraí Jiménez-Osorio, Susana González-Reyes, José Pedraza-Chaverri

Study Type : Review

Additional Links

Substances : Curcumin : CK(4135) : AC(2175) , Resveratrol : CK(1245) : AC(746) , Sulforaphane : CK(533) : AC(262), Vitamin D : CK(3176) : AC(449)

Diseases : Diabetes Mellitus: Type 1: Prevention : CK(255) : AC(50) , Diabetes Mellitus: Type 2 : CK(3384) : AC(595), Hyperglycemia : CK(539) : AC(130) , Prediabetes : CK(150) : AC(17)

Pharmacological Actions : Antioxidants : CK(7304) : AC(2677) , Nrf2 activation : CK(175) : AC(85)

This study found that inflammation was above the current clinical reference range in all sleep duration categories, whereas oxidative stress was elevated among short and very short sleepers.

Pubmed Data : Sleep. 2015 Jul 24. Epub 2015 Jul 24. PMID: **26237775**

Article Published Date : Jul 23, 2015

Authors : Thirumagal Kanagasabai, Chris I Ardern

Study Type : Human Study

Additional Links

Substances : Carotenoids : CK(1630) : AC(307) , Vitamin C : CK(1956) : AC(403) , Vitamin D : CK(3176) : AC(449)

Diseases : Inflammation : CK(2918) : AC(856) , Oxidative Stress : CK(3855) : AC(1378)

Pharmacological Actions : Antihypertensive Agents : CK(1167) : AC(162) , Antioxidants : CK(7304) : AC(2677)

Additional Keywords : Risk Factors : CK(2584) : AC(332) , Sleep Duration : CK(20) : AC(2)

Ultraviolet light, ginkgo biloba and other antioxidants may provide a safe, powerful adjunctive preventive treatment for cancer.

Pubmed Data : Med Hypotheses. 2006;66(6):1152-6. Epub 2006 Feb 17. PMID: **16483725**

Article Published Date : Jan 01, 2006

Authors : Robert Eli, James A Fasciano

Study Type : Commentary

Additional Links

Substances : Antioxidant formulas : CK(492) : AC(76) , Ginkgo biloba : CK(798) : AC(162) , Vitamin D : CK(3176) : AC(449)

Diseases : Cancers: All : CK(14500) : AC(4586)

Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)

Pharmacological Actions : Antioxidants : CK(7304) : AC(2677) , Chemopreventive : CK(2831) : AC(784)

Additional Keywords : Antineoplastic Agents : CK(69) : AC(28) , Plant Extracts : CK(7483) : AC(2462)

Vitamin C, D, and E have an ameliorative effect on sodium-fluoride-induced hypoproteinemia and hypoglycemia in rats.

Pubmed Data : Food Chem Toxicol. 2002 Dec;40(12):1781-8. PMID: **12419692**

Article Published Date : Dec 01, 2002

Authors : R J Verma, D M Guna Sherlin

Study Type : Animal Study
Additional Links
Substances : Vitamin C : CK(1956) : AC(403) , Vitamin D : CK(3176) : AC(449) , Vitamin E : CK(1656) : AC(290)
Diseases : Fluoride Toxicity : CK(187) : AC(63)
Pharmacological Actions : Antioxidants : CK(7304) : AC(2677)

Vitamin C, E and melatonin may protect against insecticide-induced oxidative stress.

Pubmed Data : Arch Toxicol. 2001 Apr;75(2):88-96. PMID: **11354911**

Article Published Date : Apr 01, 2001

Authors : F Gultekin, N Delibas, S Yasar, I Kilinc

Study Type : Animal Study
Additional Links
Substances : Melatonin : CK(967) : AC(312) , Vitamin C : CK(1956) : AC(403) , Vitamin D : CK(3176) : AC(449)
Diseases : Oxidative Stress : CK(3855) : AC(1378) , Pesticide Toxicity : CK(190) : AC(60)
Pharmacological Actions : Antioxidants : CK(7304) : AC(2677)

Vitamin D and Ajuga iva have an inhibitory effect on oxidative stress, toxicity and hypo-fertility in diabetic rat testes.

Pubmed Data : J Physiol Biochem. 2008 Sep;64(3):231-9. PMID: **19244937**

Article Published Date : Sep 01, 2008

Authors : K Hamden, S Carreau, K Jamoussi, F Ayadi, F Garmazi, N Mezgenni, A Elfeki

Study Type : Animal Study
Additional Links
Substances : Ajuga : CK(3) : AC(2) , Vitamin D : CK(3176) : AC(449)
Diseases : Diabetes: Reproductive : CK(2) : AC(1) , Infertility : CK(728) : AC(152)
Pharmacological Actions : Antioxidants : CK(7331) : AC(2682)
Additional Keywords : Plant Extracts : CK(7483) : AC(2462)

Vitamin D supplementation improved some cardiovascular disease risk factors in healthy volunteers.

Pubmed Data : Ther Adv Endocrinol Metab. 2016 Aug ;7(4):153-65. Epub 2016 Jun 20. PMID: 27540461

Article Published Date : Jul 31, 2016

Authors : Emad A S Al-Dujaili, Nimrah Munir, Raquel Revuelta Iniesta

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiovascular Diseases : CK(7176) : AC(907) , Oxidative Stress : CK(3855) : AC(1378) , Vitamin D Deficiency : CK(1695) : AC(178)
Therapeutic Actions : Exercise : CK(1235) : AC(193)
Pharmacological Actions : Antioxidants : CK(7304) : AC(2677) , Enzyme Inhibitors : CK(463) : AC(250)

Antiproliferative (AC 24) (CK 31)

1,25-Dihydroxyvitamin D3 alleviates salivary adenoid cystic carcinoma progression.

Pubmed Data : Int J Oncol. 2016 Jan 15. Epub 2016 Jan 15. PMID: 26782341

Article Published Date : Jan 14, 2016

Authors : Zhiquan Huang, Yeqing Liu, Zixian Huang, Haifeng Li, Xiangfeng Gan, Zhuojian Shen

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Salivary Gland Adenoid Cystic Carcinoma. : CK(3) : AC(3)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), NF-kappaB Inhibitor : CK(1114) : AC(694)
Additional Keywords : Chemotherapy Resistance : CK(2) : AC(2)

1,25-dihydroxyvitamin D alters glutamine metabolism in MCF10A-ras cells by inhibiting glutamine uptake and utilization.

Pubmed Data : J Steroid Biochem Mol Biol. 2016 May 3. Epub 2016 May 3. PMID: 27154413

Article Published Date : May 02, 2016

Authors : Xuanzhu Zhou, Wei Zheng, G A Nagana Gowda, Daniel Raftery, Shawn S Donkin, Brian Bequette, Dorothy Teegarden

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075)
Additional Keywords : Harvey-ras Oncogene : CK(1) : AC(1)

25(OH)D is effective to repress human cholangiocarcinoma cell growth.

Pubmed Data : Int J Mol Sci. 2016;17(8). Epub 2016 Aug 12. PMID: **27529229**

Article Published Date : Dec 31, 2015

Authors : Kun-Chun Chiang, Chun-Nan Yeh, Cheng-Cheng Huang, Ta-Sen Yeh, Jong-Hwei S Pang, Jun-Te Hsu, Li-Wei Chen, Sheng-Fong Kuo, Atsushi Kittaka, Tai C Chen, Horng-Heng Juang

Study Type : Animal Study, In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Cholangiocarcinoma : CK(96) : AC(21)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685)

A Western-style diet induced pancreatic epithelial cell hyperproliferation in mice, further suggesting that increased fat content and decreased calcium and vitamin D contribute to the development of pancreatic neoplasms.

Pubmed Data : J Natl Cancer Inst. 1996 Nov 6;88(21):1586-90. PMID: **8901857**

Article Published Date : Nov 06, 1996

Authors : L Xue, K Yang, H Newmark, D Leung, M Lipkin

Study Type : Animal Study
Additional Links
Substances : Calcium : CK(287) : AC(44) , Vitamin D : CK(3176) : AC(449)
Diseases : Pancreatic Cancer : CK(889) : AC(260)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685)
Anti Therapeutic Actions : Western Diet : CK(131) : AC(35)

A Western-style diet produces hyperproliferation of epithelial cells in several organs and that the changes can be prevented by increasing dietary calcium and vitamin D

alone.

Pubmed Data : J Natl Cancer Inst. 1999 Jan 20;91(2):176-81. PMID: **9923860**

Article Published Date : Jan 20, 1999

Authors : L Xue, M Lipkin, H Newmark, J Wang

Study Type : Animal Study
Additional Links
Substances : Calcium : CK(287) : AC(44) , Vitamin D : CK(3176) : AC(449)
Diseases : Cancers: All : CK(14500) : AC(4586)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685)
Anti Therapeutic Actions : Western Diet : CK(131) : AC(35)

A combination of plant extracts could induce antiproliferative and apoptosis in acute myeloid leukemia cells.

Pubmed Data : Biomed Pharmacother. 2016 May 7 ;82:80-89. Epub 2016 May 7. PMID: **27470342**

Article Published Date : May 06, 2016

Authors : Gulzhan T Zhamanbayeva, Araylim N Aralbayeva, Maira K Murzakhmetova, Sultan T Tuleukhanov, Michael Danilenko

Study Type : In Vitro Study
Additional Links
Substances : Oregano : CK(78) : AC(38) , Rose : CK(167) : AC(46), Rose Hips : CK(39) : AC(11) , Sage : CK(126) : AC(30), Sea buckthorn : CK(61) : AC(17) , Vitamin D : CK(3176) : AC(449)
Diseases : Acute Myeloid Leukemia : CK(95) : AC(47)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247) , Plant Extracts : CK(7483) : AC(2462)

A high vitamin D diet reduced proliferation, increased differentiation and apoptosis, and in parallel, upregulated mRNA expression of the calcium-sensing receptor in the colon of mice.

Pubmed Data : J Steroid Biochem Mol Biol. 2015 Mar 7. Epub 2015 Mar 7. PMID: **25758239**

Article Published Date : Mar 06, 2015

Authors : Abhishek Aggarwal, Julia Höbaus, Samawansha Tennakoon, Maximilian Prinz-Wohlgenannt, João Graça, Sally A Price, Petra Heffeter, Walter Berger, Sabina Baumgartner-Parzer, Enikö Kállay

Study Type : Animal Study, In Vitro Study
Additional Links
Substances : Calcium : CK(287) : AC(44) , Vitamin D : CK(3176) : AC(449)

Diseases : Colon Cancer : CK(749) : AC(430) , Colon Cancer: Prevention : CK(176) : AC(56)
Pharmacological Actions : Anticarcinogenic Agents : CK(1097) : AC(518) , Antineoplastic Agents : CK(1158) : AC(639), Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075)

Calcitriol enhanced the efficacy of irinotecan in growth inhibition and apoptosis induction.

Pubmed Data : Mol Cancer Ther. 2016 Jul 25. Epub 2016 Jul 25. PMID: **27458137**

Article Published Date : Jul 24, 2016

Authors : Meiyan Sun, Qunshu Zhang, Xiaoyu Yang, Steven Y Qian, Bin Guo

Study Type : Animal Study, In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Colon Cancer : CK(749) : AC(430)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075)
Additional Keywords : Natural Substance/Drug Synergy : CK(352) : AC(142)

Calcitriol sensitizes prostate cancer cells to aPPD-mediated anticancer effects.

Pubmed Data : J Steroid Biochem Mol Biol. 2016 Apr ;158:207-19. Epub 2015 Dec 17. PMID: **26709138**

Article Published Date : Mar 31, 2016

Authors : Mohamed Ben-Eltriki, Subrata Deb, Hans Adomat, Emma S Tomlinson Guns

Study Type : In Vitro Study
Additional Links
Substances : Ginsenosides : CK(69) : AC(28) , Vitamin D : CK(3176) : AC(449)
Diseases : Prostate Cancer : CK(1489) : AC(437)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075)
Additional Keywords : Natural Substance/Drug Synergy : CK(352) : AC(142)

Co-treatment with silibinin plus 1,25D decreased proliferation and migration at doses where silibinin alone had no effect.

Pubmed Data : Cancer Lett. 2015 Jul 1 ;362(2):199-207. Epub 2015 Apr 3. PMID: **25846868**

Article Published Date : Jun 30, 2015

Authors : Vandanajay Bhatia, Miriam Falzon

Study Type : In Vitro Study
Additional Links
Substances : Silibinin : CK(117) : AC(56) , Vitamin D : CK(3176) : AC(449)
Diseases : Colon Cancer : CK(749) : AC(430) , Inflammation : CK(2918) : AC(856)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616) , Anti-metastatic :

CK(615) : AC(412), Antiproliferative : CK(2479) : AC(1685), Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)
Additional Keywords : Drug Synergy : CK(351) : AC(156)

Combination of 5-fluorouracil, 13-cis retinoic acid and vitamin D3 has more inhibitory effect on cell proliferation and apoptotic effect than one of these drugs.

Pubmed Data : J Contemp Dent Pract. 2012 May-Jun;13(3):345-50. Epub 2012 May 1. PMID: 22918008

Article Published Date : Apr 30, 2012

Authors : Zohreh Dalirsani, Safar Farajnia, Yousef Javadzadeh, Masoumeh Mehdipour, Sepideh Koozegari

Study Type : In Vitro Study
Additional Links
Substances : Vitamin A : CK(498) : AC(77) , Vitamin D : CK(3209) : AC(455)
Diseases : Oral Cancer : CK(214) : AC(79) , Squamous cell carcinoma : CK(152) : AC(67)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075)
Additional Keywords : Chemothapeutic Synergy: 5-flourouracil : CK(39) : AC(23)

Curcumin enhances leukemia cell differentiation.

Pubmed Data : Oncol Res. 1997;9(1):31-9. PMID: 9112258

Article Published Date : Jan 01, 1997

Authors : J A Sokoloski, K Shyam, A C Sartorelli

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4135) : AC(2175) , Vitamin D : CK(3176) : AC(449)
Diseases : Promyelocytic leukemia : CK(98) : AC(83)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Cell Differentiation Inducer : CK(6) : AC(5), NF-kappaB Inhibitor : CK(1114) : AC(694)
Additional Keywords : Drug Synergy : CK(351) : AC(156)

Dietary factors modify miRNA expression and their mRNA targets in various cancer processes.

Pubmed Data : Adv Nutr. 2011 Nov ;2(6):472-85. Epub 2011 Nov 3. PMID: 22332090

Article Published Date : Oct 31, 2011

Authors : Sharon A Ross, Cindy D Davis

Study Type : Review
Additional Links
Substances : Curcumin : CK(4135) : AC(2175) , EGCG (Epigallocatechin gallate) : CK(609) : AC(314) , Fiber : CK(808) : AC(103) , Folate : CK(169) : AC(25) , Genistein : CK(515) : AC(228) , Resveratrol :

CK(1245) : AC(746), Selenium : CK(784) : AC(139) , Vitamin A : CK(498) : AC(77) , Vitamin D : CK(3176) : AC(449), Vitamin E : CK(1656) : AC(290)
Diseases : Cancers: All : CK(14500) : AC(4586) , Inflammation : CK(2918) : AC(856)
Pharmacological Actions : Angiogenesis Inhibitors : CK(114) : AC(62) , Anti-metastatic : CK(615) : AC(412), Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612), Chemopreventive : CK(2831) : AC(784) , MicroRNA modulator : CK(260) : AC(142)
Additional Keywords : Dietary Concentrations : CK(95) : AC(23) , Plant Extracts : CK(7483) : AC(2462)

Fish oil enhances the antiproliferative effect of vitamin D3 on liver cancer cells.

Pubmed Data : Anticancer Res. 2009 Sep;29(9):3591-6. PMID: **19667153**

Article Published Date : Sep 01, 2009

Authors : Kun-Chun Chiang, Kelly S Persons, Nawfal W Istfan, Michael F Holick, Tai C Chen

Study Type : In Vitro Study
Additional Links
Substances : Fish Oil : CK(701) : AC(111) , Vitamin D : CK(3176) : AC(449)
Diseases : Liver Cancer : CK(1235) : AC(462)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247)

High levels of Pit-1 and reduced BRCA1 levels increase breast cancer cell susceptibility to 3-Epi+cisplatin therapy.

Pubmed Data : Oncotarget. 2015 Jun 10 ;6(16):14456-71. PMID: **25992773**

Article Published Date : Jun 09, 2015

Authors : Samuel Seoane, Efigenia Arias, Rita Sigueiro, Juan Sendon-Lago, Anxo Martinez-Ordoñez, Esteban Castelao, Noemí Eiró, Tomás Garcia-Caballero, Manuel Macia, Rafael Lopez-Lopez, Miguel Maestro, Francisco Vizoso, Antonio Mouriño, Roman Perez-Fernandez

Study Type : Animal Study, In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Chemosensitizer : CK(394) : AC(286)
Additional Keywords : Chemotherapeutic Synergy: Cisplatin : CK(80) : AC(57)

Menthol, a key component of peppermint oil, enhances an antiproliferative activity of vitamin D in prostate cancer cells.

Pubmed Data : J Clin Biochem Nutr. 2009 Mar;44(2):125-30. Epub 2009 Feb 28. PMID: **19308266**

Article Published Date : Mar 01, 2009

Authors : Eun-Jung Park, Su-Hwa Kim, Byung-Joo Kim, Sung-Young Kim, Insuk So, Ju-Hong Jeon

Study Type : In Vitro Study
Additional Links
Substances : Menthol : CK(12) : AC(3), Peppermint : CK(333) : AC(53) , Vitamin D : CK(3176) : AC(449)
Diseases : Prostate Cancer : CK(1489) : AC(437)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685)

The combined use of 1,25(OH)2D3 and cisplatin may be used as a strategy to overcome resistance to cisplatin and dose limitations, and to improve the anticancer effects of chemotherapy.

Pubmed Data : Int J Mol Med. 2014 May ;33(5):1177-84. Epub 2014 Feb 24. PMID: **24573222**

Article Published Date : Apr 30, 2014

Authors : Anyu Bao, Yan Li, Yongqing Tong, Hongyun Zheng, Wei Wu, Chuandong Wei

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Gastric Cancer : CK(621) : AC(198)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Caspase-3 Activation : CK(91) : AC(66) , Cell cycle arrest : CK(810) : AC(612)
Additional Keywords : Chemotherapeutic Synergy: Cisplatin : CK(80) : AC(57)

The present study supports the hypothesis that local production of 1α,25(OH)2D is important in inhibiting prostate cancer development and growth.

Pubmed Data : Anticancer Res. 2015 Jul ;35(7):3773-9. PMID: **26124321**

Article Published Date : Jun 30, 2015

Authors : Mara Banks, Michael F Holick

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Prostate Cancer : CK(1489) : AC(437)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18) , 25-hydroxyvitamin D : CK(137) : AC(18), 25-hydroxyvitamin D : CK(137) : AC(18)

Treatment with carnosic acid-rich rosemary extract and 1,25D3 analogs results in strong cooperative antileukemic

effects.

Pubmed Data : Int J Mol Sci. 2016 ;17(7). Epub 2016 Jul 5. PMID: **27399677**

Article Published Date : Dec 31, 2015

Authors : Matan Nachliely, Ehud Sharony, Narasimha Rao Bolla, Andrzej Kutner, Michael Danilenko

Study Type : In Vitro Study
Additional Links
Substances : Carnosic Acid : CK(29) : AC(21) , Vitamin D : CK(3176) : AC(449)
Diseases : Acute Myeloid Leukemia : CK(95) : AC(47)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Cell cycle arrest : CK(810) : AC(612)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247) , Natural Substance Synergy : CK(537) : AC(247)

Vitamin A and D have an anti-tumor effect against head and neck squamous cell carcinoma.

Pubmed Data : Auris Nasus Larynx. 2003 Dec;30(4):403-12. PMID: **14656567**

Article Published Date : Dec 01, 2003

Authors : Kenichi Satake, Emi Takagi, Akiko Ishii, Yasumasa Kato, Yukari Imagawa, Yuu Kimura, Mamoru Tsukuda

Study Type : In Vitro Study
Additional Links
Substances : Vitamin A : CK(498) : AC(77) , Vitamin D : CK(3176) : AC(449)
Diseases : Head and Neck Cancer : CK(162) : AC(42) , Skin Cancer: Squamous Cell : CK(56) : AC(20)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639) , Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612) , Chemosensitizer : CK(394) : AC(286)
Additional Keywords : Drug: 5-flourouracil : CK(108) : AC(29)

Vitamin D and beta-sitosterol may have beneficial effects in autoimmune diseases such as multiple sclerosis.

Pubmed Data : Int Immunopharmacol. 2010 Nov;10(11):1390-6. Epub 2010 Aug 20. PMID: **20728596**

Article Published Date : Nov 01, 2010

Authors : Lini Alappat, Michael Valerio, Atif B Awad

Study Type : In Vitro Study
Additional Links
Substances : Beta Sitosterol : CK(45) : AC(15) , Vitamin D : CK(3176) : AC(449)
Diseases : Autoimmune Diseases : CK(6604) : AC(1119) , Lipopolysaccharide-Induced Toxicity : CK(359) : AC(218), Multiple Sclerosis : CK(964) : AC(184)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), NF-kappaB Inhibitor : CK(1113) : AC(693)

Additional Keywords : Natural Substance Synergy : CK(537) : AC(247)

Vitamin D repletion reduces the progression of premalignant lesions, proliferation, and inflammation.

Pubmed Data : Cancer Prev Res (Phila). 2015 Oct ;8(10):895-904. Epub 2015 Aug 14. PMID: 26276745

Article Published Date : Sep 30, 2015

Authors : Sarah A Mazzilli, Pamela A Hershberger, Mary E Reid, Paul N Bogner, Kristopher Atwood, Donald L Trump, Candace S Johnson

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Lung Cancer : CK(1033) : AC(393) , Lung Cancer: Prevention : CK(236) : AC(30) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616) , Antiproliferative : CK(2479) : AC(1685), Chemopreventive : CK(2831) : AC(784)

Vitamin D3 stimulates embryonic stem cells but inhibits migration and growth of ovarian cancer and teratocarcinoma cell lines.

Pubmed Data : J Ovarian Res. 2016 ;9(1):26. Epub 2016 Apr 18. PMID: 27091127

Article Published Date : Dec 31, 2015

Authors : Ahmed Abdelbaset-Ismail, Daniel Pedziwiatr, Ewa Suszyńska, Sylwia Sluczanowska-Glabowska, Gabriela Schneider, Sham S Kakar, Mariusz Z Ratajczak

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Ovarian Cancer : CK(360) : AC(128)
Pharmacological Actions : Anti-metastatic : CK(615) : AC(412) , Antiproliferative : CK(2479) : AC(1685)
Additional Keywords : Embryonic Development : CK(3) : AC(2)

Vitamin D3 works synergistically with all-trans retinoic acid to inhibit the growth of human hepatoma cells.

Pubmed Data : Ai Zheng. 2006 Dec ;25(12):1470-6. PMID: 17166369

Article Published Date : Dec 01, 2006

Authors : Hang-Qing Lu, Jie Zheng

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)

Diseases : Liver Cancer : CK(1235) : AC(462)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639) , Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612)
Additional Keywords : Drug Synergy : CK(351) : AC(156)

Antiviral Agents (AC 4) (CK 14)

Calcitriol potentiates the anti-HCV effect of miR-130a in both Con1b replicon and J6/JFH1 culture systems.

Pubmed Data : Mediators Inflamm. 2015 ;2015:508989. Epub 2015 Apr 28. PMID: **26060358**

Article Published Date : Dec 31, 2014

Authors : Xiaoqiong Duan, Yujuan Guan, Yujia Li, Shan Chen, Shilin Li, Limin Chen

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hepatitis C : CK(474) : AC(87)
Pharmacological Actions : Antiviral Agents : CK(938) : AC(433) , MicroRNA modulator : CK(260) : AC(142)

Vitamin D concentrations of 38 ng/ml or more in healthy adults are associated with a significant two-fold reduction in the risk of developing acute viral respiratory tract infection.

Pubmed Data : PLoS One. 2010;5(6):e11088. Epub 2010 Jun 14. PMID: **20559424**

Article Published Date : Jan 01, 2010

Authors : James R Sabetta, Paolo DePetrillo, Ralph J Cipriani, Joanne Smardin, Lillian A Burns, Marie L Landry

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Influenza : CK(789) : AC(123) , Respiratory Diseases : CK(250) : AC(39) , Respiratory Tract Infections : CK(153) : AC(16)
Pharmacological Actions : Antiviral Agents : CK(938) : AC(433)
Additional Keywords : Reduced Disease Severity : CK(10) : AC(1)

Vitamin D metabolites all possess modest to strong anti-hepatitis C virus activity.

Pubmed Data : J Virol Antivir Res. 2014 Oct 6 ;3(3). PMID: 26594646

Article Published Date : Oct 05, 2014

Authors : Julio A Gutierrez, Krysten A Jones, Roxana Flores, Akul Singhania, Christopher H Woelk, Robert T Schooley, David L Wyles

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hepatitis C : CK(474) : AC(87)
Pharmacological Actions : Antiviral Agents : CK(938) : AC(433)
Additional Keywords : Gene Expression Regulation : CK(427) : AC(212) , Metabolites : CK(64) : AC(20)

Vitamin D3 may represent a potentially useful antiviral compound.

Pubmed Data : Antiviral Res. 2012 Apr ;94(1):57-61. Epub 2012 Feb 22. PMID: 22387385

Article Published Date : Apr 01, 2012

Authors : Henry Puerta-Guardo, Sergio Isaac De la Cruz Hernández, Victor H Rosales, Juan E Ludert, Rosa María del Angel

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Dengue Fever : CK(2) : AC(2)
Pharmacological Actions : Antiviral Agents : CK(938) : AC(433)

Apoptotic (AC 17) (CK 19)

1,25-dihydroxyvitamin D alters glutamine metabolism in MCF10A-ras cells by inhibiting glutamine uptake and utilization.

Pubmed Data : J Steroid Biochem Mol Biol. 2016 May 3. Epub 2016 May 3. PMID: 27154413

Article Published Date : May 02, 2016

Authors : Xuanzhu Zhou, Wei Zheng, G A Nagana Gowda, Daniel Raftery, Shawn S Donkin, Brian

Bequette, Dorothy Teegarden

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075)
Additional Keywords : Harvey-ras Oncogene : CK(1) : AC(1)

A combination of plant extracts could induce antiproliferative and apoptosis in acute myeloid leukemia cells.

Pubmed Data : Biomed Pharmacother. 2016 May 7 ;82:80-89. Epub 2016 May 7. PMID: **27470342**

Article Published Date : May 06, 2016

Authors : Gulzhan T Zhamanbayeva, Araylim N Aralbayeva, Maira K Murzakhmetova, Sultan T Tuleukhanov, Michael Danilenko

Study Type : In Vitro Study
Additional Links
Substances : Oregano : CK(78) : AC(38) , Rose : CK(167) : AC(46), Rose Hips : CK(39) : AC(11) , Sage : CK(126) : AC(30), Sea buckthorn : CK(61) : AC(17) , Vitamin D : CK(3176) : AC(449)
Diseases : Acute Myeloid Leukemia : CK(95) : AC(47)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247) , Plant Extracts : CK(7483) : AC(2462)

A high vitamin D diet reduced proliferation, increased differentiation and apoptosis, and in parallel, upregulated mRNA expression of the calcium-sensing receptor in the colon of mice.

Pubmed Data : J Steroid Biochem Mol Biol. 2015 Mar 7. Epub 2015 Mar 7. PMID: **25758239**

Article Published Date : Mar 06, 2015

Authors : Abhishek Aggarwal, Julia Höbaus, Samawansha Tennakoon, Maximilian Prinz-Wohlgenannt, João Graça, Sally A Price, Petra Heffeter, Walter Berger, Sabina Baumgartner-Parzer, Enikö Kállay

Study Type : Animal Study, In Vitro Study
Additional Links
Substances : Calcium : CK(287) : AC(44) , Vitamin D : CK(3176) : AC(449)
Diseases : Colon Cancer : CK(749) : AC(430) , Colon Cancer: Prevention : CK(176) : AC(56)
Pharmacological Actions : Anticarcinogenic Agents : CK(1097) : AC(518) , Antineoplastic Agents : CK(1158) : AC(639), Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075)

Calcitriol enhanced the efficacy of irinotecan in growth inhibition and apoptosis induction.

Pubmed Data : Mol Cancer Ther. 2016 Jul 25. Epub 2016 Jul 25. PMID: 27458137

Article Published Date : Jul 24, 2016

Authors : Meiyan Sun, Qunshu Zhang, Xiaoyu Yang, Steven Y Qian, Bin Guo

Study Type : Animal Study, In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Colon Cancer : CK(749) : AC(430)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075)
Additional Keywords : Natural Substance/Drug Synergy : CK(352) : AC(142)

Calcitriol sensitizes prostate cancer cells to aPPD-mediated anticancer effects.

Pubmed Data : J Steroid Biochem Mol Biol. 2016 Apr ;158:207-19. Epub 2015 Dec 17. PMID: 26709138

Article Published Date : Mar 31, 2016

Authors : Mohamed Ben-Eltriki, Subrata Deb, Hans Adomat, Emma S Tomlinson Guns

Study Type : In Vitro Study
Additional Links
Substances : Ginsenosides : CK(69) : AC(28) , Vitamin D : CK(3176) : AC(449)
Diseases : Prostate Cancer : CK(1489) : AC(437)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075)
Additional Keywords : Natural Substance/Drug Synergy : CK(352) : AC(142)

Combination of 5-fluorouracil, 13-cis retinoic acid and vitamin D3 has more inhibitory effect on cell proliferation and apoptotic effect than one of these drugs.

Pubmed Data : J Contemp Dent Pract. 2012 May-Jun;13(3):345-50. Epub 2012 May 1. PMID: 22918008

Article Published Date : Apr 30, 2012

Authors : Zohreh Dalirsani, Safar Farajnia, Yousef Javadzadeh, Masoumeh Mehdipour, Sepideh Koozegari

Study Type : In Vitro Study
Additional Links
Substances : Vitamin A : CK(498) : AC(77) , Vitamin D : CK(3209) : AC(455)
Diseases : Oral Cancer : CK(214) : AC(79) , Squamous cell carcinoma : CK(152) : AC(67)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075)
Additional Keywords : Chemothapeutic Synergy: 5-flourouracil : CK(39) : AC(23)

Dietary factors modify miRNA expression and their mRNA targets in various cancer processes.

Pubmed Data : Adv Nutr. 2011 Nov ;2(6):472-85. Epub 2011 Nov 3. PMID: **22332090**

Article Published Date : Oct 31, 2011

Authors : Sharon A Ross, Cindy D Davis

Study Type : Review
Additional Links
Substances : Curcumin : CK(4135) : AC(2175) , EGCG (Epigallocatechin gallate) : CK(609) : AC(314) , Fiber : CK(808) : AC(103) , Folate : CK(169) : AC(25) , Genistein : CK(515) : AC(228) , Resveratrol : CK(1245) : AC(746), Selenium : CK(784) : AC(139) , Vitamin A : CK(498) : AC(77) , Vitamin D : CK(3176) : AC(449), Vitamin E : CK(1656) : AC(290)
Diseases : Cancers: All : CK(14500) : AC(4586) , Inflammation : CK(2918) : AC(856)
Pharmacological Actions : Angiogenesis Inhibitors : CK(114) : AC(62) , Anti-metastatic : CK(615) : AC(412), Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612), Chemopreventive : CK(2831) : AC(784) , MicroRNA modulator : CK(260) : AC(142)
Additional Keywords : Dietary Concentrations : CK(95) : AC(23) , Plant Extracts : CK(7483) : AC(2462)

The combination of vitamin D with genistein results in an enhanced inhibition of lipid accumulation and induction of programmed cell death in maturing preadipocytes (immature fat cells).

Pubmed Data : Life Sci. 2002 Oct 4;71(20):2383-90. PMID: **18239559**

Article Published Date : Oct 04, 2002

Authors : Srujana Rayalam, Mary Anne Della-Fera, Suresh Ambati, Jeong-Yeh Yang, Hea Jin Park, Clifton A Baile

Study Type : In Vitro Study
Additional Links
Substances : Genistein : CK(515) : AC(228) , Vitamin D : CK(3176) : AC(449)
Diseases : Abdominal Obesity (Midsection Fat) : CK(458) : AC(66) , Obesity : CK(2208) : AC(467)
Pharmacological Actions : Anti-Adipogenic : CK(110) : AC(52), Apoptotic : CK(2958) : AC(2075)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247)

The combined use of 1,25(OH)2D3 and cisplatin may be used as a strategy to overcome resistance to cisplatin and dose limitations, and to improve the anticancer effects of chemotherapy.

Pubmed Data : Int J Mol Med. 2014 May ;33(5):1177-84. Epub 2014 Feb 24. PMID: **24573222**

Article Published Date : Apr 30, 2014

Authors : Anyu Bao, Yan Li, Yongqing Tong, Hongyun Zheng, Wei Wu, Chuandong Wei

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Gastric Cancer : CK(621) : AC(198)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075), Caspase-3 Activation : CK(91) : AC(66), Cell cycle arrest : CK(810) : AC(612)
Additional Keywords : Chemotherapeutic Synergy: Cisplatin : CK(80) : AC(57)

Vitamin A and D have an anti-tumor effect against head and neck squamous cell carcinoma.

Pubmed Data : Auris Nasus Larynx. 2003 Dec;30(4):403-12. PMID: **14656567**

Article Published Date : Dec 01, 2003

Authors : Kenichi Satake, Emi Takagi, Akiko Ishii, Yasumasa Kato, Yukari Imagawa, Yuu Kimura, Mamoru Tsukuda

Study Type : In Vitro Study
Additional Links
Substances : Vitamin A : CK(498) : AC(77), Vitamin D : CK(3176) : AC(449)
Diseases : Head and Neck Cancer : CK(162) : AC(42), Skin Cancer: Squamous Cell : CK(56) : AC(20)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639), Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075), Cell cycle arrest : CK(810) : AC(612), Chemosensitizer : CK(394) : AC(286)
Additional Keywords : Drug: 5-flourouracil : CK(108) : AC(29)

Vitamin D enhances caspase-dependent and -independent TNFalpha-induced breast cancer cell death.

Pubmed Data : Int J Cancer. 2003 Aug 20;106(2):178-86. PMID: **12800192**

Article Published Date : Aug 20, 2003

Authors : Gregory E Weitsman, Amiram Ravid, Uri A Liberman, Ruth Koren

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059)
Pharmacological Actions : Apoptotic : CK(2958) : AC(2075), Enzyme Inhibitors : CK(463) : AC(250), Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)
Additional Keywords : Antineoplastic Agents : CK(69) : AC(28)

Vitamin D induces programmed cell death in breast cancer cells.

Pubmed Data : Biochem Cell Biol. 1994 Nov-Dec;72(11-12):537-45. PMID: **7654327**

Article Published Date : Nov 01, 1994

Authors : J Welsh

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059)
Pharmacological Actions : Apoptotic : CK(2958) : AC(2075)

Vitamin D may induce programmed cell death in chronic myeloid leukemia cells by modulating apoptosis-related genes.

Pubmed Data : 1: Ann Hematol. 2009 May 28. PMID: **19475409**

Article Published Date : May 28, 2009

Authors : Sefa Kizildag, Halil Ates, Servet Kizildag

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Chronic Myeloid Leukemia : CK(31) : AC(16)
Pharmacological Actions : Apoptotic : CK(2958) : AC(2075)

Vitamin D sensitizes breast cancer cells to the action of hydrogen peroxide.

Pubmed Data : Free Radic Biol Med. 2005 Jul 15;39(2):266-78. Epub 2005 Apr 7. PMID: **15964518**

Article Published Date : Jul 15, 2005

Authors : Gregory E Weitsman, Ruth Koren, Efrat Zuck, Carmela Rotem, Uri A Liberman, Amiram Ravid

Study Type : In Vitro Study
Additional Links
Substances : Hydrogen Peroxide : CK(7) : AC(7) , Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059)
Pharmacological Actions : Apoptotic : CK(2958) : AC(2075)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247)

Vitamin D3 induces programmed cell death in a rat glioma cell line.

Pubmed Data : J Environ Pathol Toxicol Oncol. 2009;28(4):311-23. PMID: **8951666**

Article Published Date : Jan 01, 2009

Authors : C Baudet, G Chevalier, A Chassevent, C Canova, R Filmon, F Larra, P Brachet, D Wion

Study Type : In Vitro Study
Additional Links

Substances : Genistein : CK(515) : AC(228) , Isoflavones : CK(631) : AC(129) , Vitamin D : CK(3176) : AC(449)
Diseases : Glioma : CK(174) : AC(84)
Pharmacological Actions : Apoptotic : CK(2958) : AC(2075) , Vascular Endothelial Growth Factor Regulator : CK(31) : AC(14)

Vitamin D3 inhibits ultraviolet-B-indcued damage in human skin cells.

Pubmed Data : J Cell Biochem. 2003 Jul 1;89(4):663-73. PMID: **12858333**

Article Published Date : Jul 01, 2003

Authors : Petra De Haes, Marjan Garmyn, Hugo Degreef, Katleen Vantieghem, Roger Bouillon, Siegfried Segaert

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Aging Skin : CK(426) : AC(101) , Skin Diseases: Photo-Aging : CK(132) : AC(51)
Pharmacological Actions : Apoptotic : CK(2958) : AC(2075) , Interleukin-6 Downregulation : CK(1095) : AC(342), Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)

Vitamin D3 works synergistically with all-trans retinoic acid to inhibit the growth of human hepatoma cells.

Pubmed Data : Ai Zheng. 2006 Dec ;25(12):1470-6. PMID: **17166369**

Article Published Date : Dec 01, 2006

Authors : Hang-Qing Lu, Jie Zheng

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Liver Cancer : CK(1235) : AC(462)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639) , Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612)
Additional Keywords : Drug Synergy : CK(351) : AC(156)

Bone Density Conservation Agents (AC 1) (CK 2)

Virgin olive oil fortified with vitamin D3 is able to counteract the bone loss induced by estrogen deprivation.

Pubmed Data : PLoS One. 2014 ;9(12):e115817. Epub 2014 Dec 31. PMID: 25551374

Article Published Date : Dec 31, 2013

Authors : Camille Tagliaferri, Marie-Jeanne Davicco, Patrice Lebecque, Stéphane Georgé, Marie-Jo Amiot, Sylvie Mercier, Amélie Dhaussy, Alain Huertas, Stéphane Walrand, Yohann Wittrant, Véronique Coxam

Study Type : Animal Study
Additional Links
Substances : Olive Oil : CK(245) : AC(50) , Polyphenols : CK(930) : AC(334) , Vitamin D : CK(3176) : AC(449)
Diseases : Oxidative Stress : CK(3855) : AC(1378)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Bone Density Conservation Agents : CK(6) : AC(3)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247)

Cardioprotective (AC 2) (CK 12)

A combination of a non-hypotensive dose of 1,25 D and resveratrol can be a novel and effective strategy for protecting against ischemia.

Pubmed Data : Int J Vitam Nutr Res. 2015 Dec ;85(3-4):174-84. PMID: 26780396

Article Published Date : Nov 30, 2015

Authors : Fatemeh Safari, Farideh Zarei, Shahnaz Shekarforoush, Asefeh Fekri, Mohsen Sharifi Klishadi, Seyedhossein Hekmatimoghaddam

Study Type : Animal Study
Additional Links
Substances : Resveratrol : CK(1245) : AC(746) , Vitamin D : CK(3209) : AC(455)
Diseases : Ischemia : CK(71) : AC(35) , Ischemia: Myocardial : CK(50) : AC(21)
Pharmacological Actions : Cardioprotective : CK(1596) : AC(409)

In this case controlled study, vitamin D deficiency was associated with acute MI after adjusting for conventional

risk factors.

Pubmed Data : Indian Heart J. 2015 Jan-Feb;67(1):27-32. Epub 2015 Mar 11. PMID: 25820047

Article Published Date : Dec 31, 2014

Authors : Ambuj Roy, Ramakrishnan Lakshmy, Mohamad Tarik, Nikhil Tandon, K Srinath Reddy, Dorairaj Prabhakaran

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Myocardial Infarction : CK(1085) : AC(158) , Myocardial Infarction: Prevention : CK(98) : AC(11), Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Cardioprotective : CK(1596) : AC(409)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18) , Risk Reduction : CK(6366) : AC(681)

Cardiovascular Agents (AC 1) (CK 20)

Vitamin D supplementation might protect against cardiac failure in older people but does not appear to protect against MI or stroke.

Pubmed Data : Am J Clin Nutr. 2014 Sep ;100(3):746-55. Epub 2014 Jul 23. PMID: 25057156

Article Published Date : Aug 31, 2014

Authors : John A Ford, Graeme S MacLennan, Alison Avenell, Mark Bolland, Andrew Grey, Miles Witham,

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Heart Failure : CK(918) : AC(124) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Cardiovascular Agents : CK(160) : AC(24)
Additional Keywords : Risk Reduction : CK(6366) : AC(681) , Significant Treatment Outcome : CK(3038) : AC(366)

Caspase-3 Activation (AC 1) (CK 1)

The combined use of 1,25(OH)2D3 and cisplatin may be used as a strategy to overcome resistance to cisplatin and dose limitations, and to improve the anticancer effects of chemotherapy.

Pubmed Data : Int J Mol Med. 2014 May ;33(5):1177-84. Epub 2014 Feb 24. PMID: 24573222

Article Published Date : Apr 30, 2014

Authors : Anyu Bao, Yan Li, Yongqing Tong, Hongyun Zheng, Wei Wu, Chuandong Wei

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Gastric Cancer : CK(621) : AC(198)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075), Caspase-3 Activation : CK(91) : AC(66), Cell cycle arrest : CK(810) : AC(612)
Additional Keywords : Chemotherapeutic Synergy: Cisplatin : CK(80) : AC(57)

Catalase Up-Regulation (AC 1) (CK 2)

Vitamin D3 may have a protective effect on cognitive deficits and oxidative stress in toxic demyelination's model.

Pubmed Data : Iran J Basic Med Sci. 2016 Jan ;19(1):80-8. PMID: 27096068

Article Published Date : Dec 31, 2015

Authors : Sepideh Tarbali, Shiva Khezri

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cognitive Decline/Dysfunction : CK(1140) : AC(213), Lipid Peroxidation : CK(695) : AC(255), Multiple Sclerosis : CK(964) : AC(184), Oxidative Stress : CK(3855) : AC(1378)
Pharmacological Actions : Catalase Up-Regulation : CK(118) : AC(42), Neuroprotective Agents : CK(2268) : AC(1071)

Cell Differentiation Inducer (AC 1) (CK 1)

Curcumin enhances leukemia cell differentiation.

Pubmed Data : Oncol Res. 1997;9(1):31-9. PMID: **9112258**

Article Published Date : Jan 01, 1997

Authors : J A Sokoloski, K Shyam, A C Sartorelli

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4135) : AC(2175), Vitamin D : CK(3176) : AC(449)
Diseases : Promyelocytic leukemia : CK(98) : AC(83)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Cell Differentiation Inducer : CK(6) : AC(5), NF-kappaB Inhibitor : CK(1114) : AC(694)
Additional Keywords : Drug Synergy : CK(351) : AC(156)

Cell cycle arrest (AC 7) (CK 7)

A combination of plant extracts could induce antiproliferative and apoptosis in acute myeloid leukemia cells.

Pubmed Data : Biomed Pharmacother. 2016 May 7 ;82:80-89. Epub 2016 May 7. PMID: **27470342**

Article Published Date : May 06, 2016

Authors : Gulzhan T Zhamanbayeva, Araylim N Aralbayeva, Maira K Murzakhmetova, Sultan T Tuleukhanov, Michael Danilenko

Study Type : In Vitro Study
Additional Links
Substances : Oregano : CK(78) : AC(38), Rose : CK(167) : AC(46), Rose Hips : CK(39) : AC(11), Sage : CK(126) : AC(30), Sea buckthorn : CK(61) : AC(17), Vitamin D : CK(3176) : AC(449)
Diseases : Acute Myeloid Leukemia : CK(95) : AC(47)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075), Cell cycle arrest : CK(810) : AC(612)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247), Plant Extracts : CK(7483) : AC(2462)

Dietary factors modify miRNA expression and their mRNA targets in various cancer processes.

Pubmed Data : Adv Nutr. 2011 Nov ;2(6):472-85. Epub 2011 Nov 3. PMID: **22332090**

Article Published Date : Oct 31, 2011

Authors : Sharon A Ross, Cindy D Davis

Study Type : Review
Additional Links
Substances : Curcumin : CK(4135) : AC(2175) , EGCG (Epigallocatechin gallate) : CK(609) : AC(314) , Fiber : CK(808) : AC(103) , Folate : CK(169) : AC(25) , Genistein : CK(515) : AC(228) , Resveratrol : CK(1245) : AC(746), Selenium : CK(784) : AC(139) , Vitamin A : CK(498) : AC(77) , Vitamin D : CK(3176) : AC(449), Vitamin E : CK(1656) : AC(290)
Diseases : Cancers: All : CK(14500) : AC(4586) , Inflammation : CK(2918) : AC(856)
Pharmacological Actions : Angiogenesis Inhibitors : CK(114) : AC(62) , Anti-metastatic : CK(615) : AC(412), Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612), Chemopreventive : CK(2831) : AC(784) , MicroRNA modulator : CK(260) : AC(142)
Additional Keywords : Dietary Concentrations : CK(95) : AC(23) , Plant Extracts : CK(7483) : AC(2462)

Melatonin and vitamin D3 synergistically inhibit the growth of breast cancer cells.

Pubmed Data : J Pineal Res. 2011 Mar;50(2):150-8. Epub 2010 Nov 22. PMID: **21091766**

Article Published Date : Mar 01, 2011

Authors : Sara Proietti, Alessandra Cucina, Fabrizio D'Anselmi, Simona Dinicola, Alessia Pasqualato, Elisabetta Lisi, Mariano Bizzarri

Study Type : In Vitro Study
Additional Links
Substances : Melatonin : CK(965) : AC(310) , Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059)
Pharmacological Actions : Cell cycle arrest : CK(810) : AC(612) , Tumor Suppressor Protein p53 Upregulation : CK(293) : AC(202)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247)

The combined use of 1,25(OH)2D3 and cisplatin may be used as a strategy to overcome resistance to cisplatin and dose limitations, and to improve the anticancer effects of chemotherapy.

Pubmed Data : Int J Mol Med. 2014 May ;33(5):1177-84. Epub 2014 Feb 24. PMID: **24573222**

Article Published Date : Apr 30, 2014

Authors : Anyu Bao, Yan Li, Yongqing Tong, Hongyun Zheng, Wei Wu, Chuandong Wei

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Gastric Cancer : CK(621) : AC(198)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075), Caspase-3 Activation : CK(91) : AC(66), Cell cycle arrest : CK(810) : AC(612)
Additional Keywords : Chemotherapeutic Synergy: Cisplatin : CK(80) : AC(57)

Treatment with carnosic acid-rich rosemary extract and 1,25D3 analogs results in strong cooperative antileukemic effects.

Pubmed Data : Int J Mol Sci. 2016 ;17(7). Epub 2016 Jul 5. PMID: **27399677**

Article Published Date : Dec 31, 2015

Authors : Matan Nachliely, Ehud Sharony, Narasimha Rao Bolla, Andrzej Kutner, Michael Danilenko

Study Type : In Vitro Study
Additional Links
Substances : Carnosic Acid : CK(29) : AC(21), Vitamin D : CK(3176) : AC(449)
Diseases : Acute Myeloid Leukemia : CK(95) : AC(47)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Cell cycle arrest : CK(810) : AC(612)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247), Natural Substance Synergy : CK(537) : AC(247)

Vitamin A and D have an anti-tumor effect against head and neck squamous cell carcinoma.

Pubmed Data : Auris Nasus Larynx. 2003 Dec;30(4):403-12. PMID: **14656567**

Article Published Date : Dec 01, 2003

Authors : Kenichi Satake, Emi Takagi, Akiko Ishii, Yasumasa Kato, Yukari Imagawa, Yuu Kimura, Mamoru Tsukuda

Study Type : In Vitro Study
Additional Links
Substances : Vitamin A : CK(498) : AC(77), Vitamin D : CK(3176) : AC(449)
Diseases : Head and Neck Cancer : CK(162) : AC(42), Skin Cancer: Squamous Cell : CK(56) : AC(20)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639), Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075), Cell cycle arrest : CK(810) : AC(612), Chemosensitizer : CK(394) : AC(286)
Additional Keywords : Drug: 5-flourouracil : CK(108) : AC(29)

Vitamin D3 works synergistically with all-trans retinoic acid to inhibit the growth of human hepatoma cells.

Pubmed Data : Ai Zheng. 2006 Dec ;25(12):1470-6. PMID: **17166369**

Article Published Date : Dec 01, 2006

Authors : Hang-Qing Lu, Jie Zheng

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Liver Cancer : CK(1235) : AC(462)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639) , Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612)
Additional Keywords : Drug Synergy : CK(351) : AC(156)

Chemopreventive (AC 14) (CK 71)

A review of the potential use of vitamin D for protection and treatment of IBD and colon cancer.

Pubmed Data : World J Gastroenterol. 2016 Jan 21 ;22(3):933-48. PMID: **26811638**

Article Published Date : Jan 20, 2016

Authors : Stacey Meeker, Audrey Seamons, Lillian Maggio-Price, Jisun Paik

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Colon Cancer : CK(749) : AC(430) , Inflammation : CK(2918) : AC(856) , Inflammatory Bowel Diseases : CK(1003) : AC(189), Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Chemopreventive : CK(2831) : AC(784)

Dietary factors modify miRNA expression and their mRNA targets in various cancer processes.

Pubmed Data : Adv Nutr. 2011 Nov ;2(6):472-85. Epub 2011 Nov 3. PMID: **22332090**

Article Published Date : Oct 31, 2011

Authors : Sharon A Ross, Cindy D Davis

Study Type : Review
Additional Links
Substances : Curcumin : CK(4135) : AC(2175) , EGCG (Epigallocatechin gallate) : CK(609) : AC(314) , Fiber : CK(808) : AC(103) , Folate : CK(169) : AC(25) , Genistein : CK(515) : AC(228) , Resveratrol : CK(1245) : AC(746), Selenium : CK(784) : AC(139) , Vitamin A : CK(498) : AC(77) , Vitamin D : CK(3176) : AC(449), Vitamin E : CK(1656) : AC(290)
Diseases : Cancers: All : CK(14500) : AC(4586) , Inflammation : CK(2918) : AC(856)

Pharmacological Actions : Angiogenesis Inhibitors : CK(114) : AC(62) , Anti-metastatic : CK(615) : AC(412), Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612), Chemopreventive : CK(2831) : AC(784) , MicroRNA modulator : CK(260) : AC(142)
Additional Keywords : Dietary Concentrations : CK(95) : AC(23) , Plant Extracts : CK(7483) : AC(2462)

Genistein modulates vitamin D metabolism and receptor expression in a manner which may contribute to colon cancer prevention.

Pubmed Data : Recent Results Cancer Res.2003;164:379-91. PMID: **12899537**

Article Published Date : Jan 01, 2003

Authors : Daniel Lechner, Heide S Cross

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Colon Cancer : CK(749) : AC(430)
Pharmacological Actions : Chemopreventive : CK(2831) : AC(784)

Growing evidence shows that vitamins, minerals, and other dietary factors have profound and protective effects against cancer cells, whether they are grown in the lab, in animals, or studied in human populations.

Pubmed Data : Semin Cancer Biol. 2015 Apr 10. Epub 2015 Apr 10. PMID: **25869442**

Article Published Date : Apr 09, 2015

Authors : Lynnette R Ferguson, Helen Chen, Andrew R Collins, Marisa Connell, Giovanna Damia, Santanu Dasgupta, Meenakshi Malhotra, Alan K Meeker, Amedeo Amedei, Amr Amin, S Salman Ashraf, Katia Aquilano, Asfar S Azmi, Dipita Bhakta, Alan Bilsland, Chandra S Boosani, Sophie Chen, Maria Rosa Ciriolo, Hiromasa Fujii, Gunjan Guha, Dorota Halicka, William G Helferich, W Nicol Keith, Sulma I Mohammed, Elena Niccolai, Xujuan Yang, Kanya Honoki, Virginia R Parslow, Satya Prakash, Sarallah Rezazadeh, Rodney E Shackelford, David Sidransky, Phuoc T Tran, Eddy S Yang, Christopher A Maxwell

Study Type : Review
Additional Links
Substances : Carotenoids : CK(1630) : AC(307) , Isothiocyanates : CK(573) : AC(265) , Polyphenols : CK(930) : AC(334), Resveratrol : CK(1245) : AC(746) , Selenium : CK(784) : AC(139) , Vitamin D : CK(3176) : AC(449)
Diseases : Cancers: All : CK(14500) : AC(4586) , DNA damage : CK(993) : AC(382)
Pharmacological Actions : Anticarcinogenic Agents : CK(1097) : AC(518) , Chemopreventive : CK(2831) : AC(784)
Additional Keywords : Genomic Instability : CK(1) : AC(1) , Natural Substance Synergy : CK(537) : AC(247)

Individuals with serum 25(OH)D of approximately 52 ng/ml had 50% lower risk of breast cancer than those with serum<13 ng/ml.

Pubmed Data : J Steroid Biochem Mol Biol. 2007 Mar ;103(3-5):708-11. PMID: **17368188**

Article Published Date : Mar 01, 2007

Authors : Cedric F Garland, Edward D Gorham, Sharif B Mohr, William B Grant, Edward L Giovannucci, Martin Lipkin, Harold Newmark, Michael F Holick, Frank C Garland

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer: Prevention : CK(552) : AC(82) , Vitamin D Deficiency: Dosage Consideration : CK(1) : AC(1)
Pharmacological Actions : Chemopreventive : CK(2835) : AC(787)

Review: there is a consistently strong inverse correlations with solar UVB for 15 types of cancers.

Pubmed Data : Anticancer Res. 2012 Jan ;32(1):223-36. PMID: **22213311**

Article Published Date : Jan 01, 2012

Authors : William B Grant

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Bladder Cancer : CK(349) : AC(100) , Breast Cancer : CK(3526) : AC(1059) , Cervical Cancer : CK(345) : AC(144), Colon Cancer : CK(749) : AC(430) , Colorectal Cancer : CK(1635) : AC(611) , Endometrial Cancer : CK(307) : AC(53) , Esophageal Cancer : CK(506) : AC(85) , Hodgkin Lymphoma : CK(53) : AC(7), Lung Cancer : CK(1033) : AC(393) , Non-Hodgkin Lymphoma : CK(363) : AC(79) , Ovarian Cancer : CK(360) : AC(128) , Pancreatic Cancer : CK(889) : AC(260) , Renal Cancer : CK(25) : AC(4), Vulvar Cancer : CK(52) : AC(4)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)
Pharmacological Actions : Chemopreventive : CK(2831) : AC(784)

The current findings support the application of 1,25D3 in cancer prevention and treatment.

Pubmed Data : Vitam Horm. 2016 ;100:395-431. Epub 2016 Jan 13. PMID: **26827961**

Article Published Date : Dec 31, 2015

Authors : Yingyu Ma, Candace S Johnson, Donald L Trump

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cancers: All : CK(14500) : AC(4586)

Pharmacological Actions : Chemopreventive : CK(2831) : AC(784)

The present review illustrates the effect of vitamin D and ascorbic acid intake on preventing cancer.

Pubmed Data : Crit Rev Food Sci Nutr. 2015 Oct 19:0. Epub 2015 Oct 19. PMID: **26479551**

Article Published Date : Oct 18, 2015

Authors : B V Sunil Kumar, Satparkash Singh, Ramneek Verma

Study Type : Review
Additional Links
Substances : Vitamin C : CK(1956) : AC(403) , Vitamin D : CK(3176) : AC(449)
Diseases : Cancers: All : CK(14500) : AC(4586)
Pharmacological Actions : Chemopreventive : CK(2831) : AC(784)

There is a consistent inverse relationship between serum 25-hydroxyvitamin D levels and colorectal cancer was found.

Pubmed Data : Int J Cancer. 2011 Mar 15 ;128(6):1414-24. PMID: **20473927**

Article Published Date : Mar 15, 2011

Authors : Sara Gandini, Mathieu Boniol, Jari Haukka, Graham Byrnes, Brian Cox, Mary Jane Sneyd, Patrick Mullie, Philippe Autier

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Colorectal Cancer: Prevention : CK(207) : AC(36), Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Chemopreventive : CK(2835) : AC(787)

Ultraviolet light, ginkgo biloba and other antioxidants may provide a safe, powerful adjunctive preventive treatment for cancer.

Pubmed Data : Med Hypotheses. 2006;66(6):1152-6. Epub 2006 Feb 17. PMID: **16483725**

Article Published Date : Jan 01, 2006

Authors : Robert Eli, James A Fasciano

Study Type : Commentary
Additional Links
Substances : Antioxidant formulas : CK(492) : AC(76) , Ginkgo biloba : CK(798) : AC(162) , Vitamin D : CK(3176) : AC(449)
Diseases : Cancers: All : CK(14500) : AC(4586)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)

Pharmacological Actions : Antioxidants : CK(7304) : AC(2677) , Chemopreventive : CK(2831) : AC(784)
Additional Keywords : Antineoplastic Agents : CK(69) : AC(28) , Plant Extracts : CK(7483) : AC(2462)

Vitamin D appears to reduce the risk of colorectal cancer.

Pubmed Data : Cancer Prev Res (Phila Pa). 2009 Mar;2(3):213-23. Epub 2009 Mar 3. PMID: 19258546

Article Published Date : Mar 01, 2009

Authors : Veronika Fedirko, Roberd M Bostick, W Dana Flanders, Qi Long, Aasma Shaukat, Robin E Rutherford, Carrie R Daniel, Vaunita Cohen, Chiranjeev Dash

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Colorectal Cancer : CK(1635) : AC(611)
Pharmacological Actions : Chemopreventive : CK(2835) : AC(787)

Vitamin D may have significant value in the prevention and treatment of pancreatic cancer. - Article 1.

Pubmed Data : World J Gastroenterol. 2009 Jul 21;15(27):3349-54. PMID: 19610135

Article Published Date : Jul 21, 2009

Authors : Kun-Chun Chiang, Tai C Chen

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Pancreatic Cancer : CK(889) : AC(260)
Pharmacological Actions : Chemopreventive : CK(2831) : AC(784) , Chemotherapeutic : CK(397) : AC(152)

Vitamin D metabolite regulates the expression of several genes and protects against colon cancer.

Pubmed Data : Endocr Relat Cancer. 2012 Mar 1. Epub 2012 Mar 1. PMID: 22383428

Article Published Date : Mar 01, 2012

Authors : Fábio Pereira, María Jesús Larriba, Alberto Muñoz

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Colon Cancer: Prevention : CK(176) : AC(56)
Pharmacological Actions : Chemopreventive : CK(2835) : AC(787)

Vitamin D repletion reduces the progression of premalignant lesions, proliferation, and inflammation.

Pubmed Data : Cancer Prev Res (Phila). 2015 Oct ;8(10):895-904. Epub 2015 Aug 14. PMID: 26276745

Article Published Date : Sep 30, 2015

Authors : Sarah A Mazzilli, Pamela A Hershberger, Mary E Reid, Paul N Bogner, Kristopher Atwood, Donald L Trump, Candace S Johnson

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Lung Cancer : CK(1033) : AC(393) , Lung Cancer: Prevention : CK(236) : AC(30) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616) , Antiproliferative : CK(2479) : AC(1685), Chemopreventive : CK(2831) : AC(784)

Chemoprotective Agents (AC 1) (CK 2)

Vitamin D has anti- apoptotic and antioxidant effects on kidney tissue after doxorubicin induced injury.

Pubmed Data : Int J Clin Exp Med. 2015 ;8(8):13548-55. Epub 2015 Aug 15. PMID: 26550293

Article Published Date : Dec 31, 2014

Authors : Ali Gurel, Hasan Atli, Nalan Kaya, Ebru Onalan, Tuncay Kuloglu, Bilge Aygen

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Chemotherapy-Induced Toxicity: Doxorubicin : CK(132) : AC(56)
Pharmacological Actions : Chemoprotective Agents : CK(356) : AC(146) , Renoprotective : CK(556) : AC(246)

Chemosensitizer (AC 4) (CK 5)

Capsaicin potentiates the vitamin D3-induced and all-trans retinoic acid-induced differentiation of human promyelocytic leukemia cells.

Pubmed Data : Eur J Pharmacol. 2001 May 25;420(2-3):83-90. PMID: **11408028**

Article Published Date : May 25, 2001

Authors : S N Kang, S W Chung, T S Kim

Study Type : In Vitro Study
Additional Links
Substances : Capsaicin : CK(129) : AC(55) , Vitamin D : CK(3176) : AC(449)
Diseases : Promyelocytic leukemia : CK(98) : AC(83)
Pharmacological Actions : Chemosensitizer : CK(394) : AC(286) , Enzyme Inhibitors : CK(463) : AC(250)
Additional Keywords : Drug-Plant-Vitamin Synergies : CK(965) : AC(266) , Natural Substance Synergy : CK(537) : AC(247)

High levels of Pit-1 and reduced BRCA1 levels increase breast cancer cell susceptibility to 3-Epi+cisplatin therapy.

Pubmed Data : Oncotarget. 2015 Jun 10 ;6(16):14456-71. PMID: **25992773**

Article Published Date : Jun 09, 2015

Authors : Samuel Seoane, Efigenia Arias, Rita Sigueiro, Juan Sendon-Lago, Anxo Martinez-Ordoñez, Esteban Castelao, Noemí Eiró, Tomás Garcia-Caballero, Manuel Macia, Rafael Lopez-Lopez, Miguel Maestro, Francisco Vizoso, Antonio Mouriño, Roman Perez-Fernandez

Study Type : Animal Study, In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Chemosensitizer : CK(394) : AC(286)
Additional Keywords : Chemotherapeutic Synergy: Cisplatin : CK(80) : AC(57)

Vitamin A and D have an anti-tumor effect against head and neck squamous cell carcinoma.

Pubmed Data : Auris Nasus Larynx. 2003 Dec;30(4):403-12. PMID: **14656567**

Article Published Date : Dec 01, 2003

Authors : Kenichi Satake, Emi Takagi, Akiko Ishii, Yasumasa Kato, Yukari Imagawa, Yuu Kimura, Mamoru Tsukuda

Study Type : In Vitro Study
Additional Links
Substances : Vitamin A : CK(498) : AC(77) , Vitamin D : CK(3176) : AC(449)
Diseases : Head and Neck Cancer : CK(162) : AC(42) , Skin Cancer: Squamous Cell : CK(56) : AC(20)

Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639) , Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612) , Chemosensitizer : CK(394) : AC(286)
Additional Keywords : Drug: 5-flourouracil : CK(108) : AC(29)

Vitamin D3 sensitizes breast cancer cells to chemotherapy-induced death.

Pubmed Data : Immunopharmacol Immunotoxicol. 2010 Mar 17. Epub 2010 Mar 17. PMID: 10766196

Article Published Date : Mar 17, 2010

Authors : Q Wang, W Yang, M S Uytingco, S Christakos, R Wieder

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059) , Cancers: Drug Resistant : CK(351) : AC(222)
Pharmacological Actions : Chemosensitizer : CK(394) : AC(286)
Additional Keywords : Antineoplastic Agents : CK(69) : AC(28)

Chemotherapeutic (AC 1) (CK 1)

Vitamin D may have significant value in the prevention and treatment of pancreatic cancer. - Article 1.

Pubmed Data : World J Gastroenterol. 2009 Jul 21;15(27):3349-54. PMID: 19610135

Article Published Date : Jul 21, 2009

Authors : Kun-Chun Chiang, Tai C Chen

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Pancreatic Cancer : CK(889) : AC(260)
Pharmacological Actions : Chemopreventive : CK(2831) : AC(784) , Chemotherapeutic : CK(397) : AC(152)

Dermatologic Agents (AC 1) (CK 1)

Epidemiological and clinical evidences indicate a beneficial role for vitamin D in atopic dermatitis.

Pubmed Data : J Immunol Res. 2015;2015:257879. Epub 2015 Apr 20. PMID: 25973433

Article Published Date : Dec 31, 2014

Authors : Michelangelo Vestita, Angela Filoni, Maurizio Congedo, Caterina Foti, Domenico Bonamonte

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Atopic Dermatitis : CK(1134) : AC(117) , Atopic Dermatitis: Infant & Childhood : CK(191) : AC(17)
Pharmacological Actions : Dermatologic Agents : CK(240) : AC(28)

Enzyme Inhibitors (AC 4) (CK 22)

A combination of quercetin, ascorbyl palmitate and vitamin D appears to safely offer relief of symptomatic diabetic neuropathy.

Pubmed Data : J Diabetes Complications. 2005 Sep-Oct;19(5):247-53. PMID: 16112498

Article Published Date : Sep 01, 2005

Authors : Paul Valensi, Claude Le Devehat, Jean-Louis Richard, Cherifo Farez, Taraneh Khodabandehlou, Richard A Rosenbloom, Carolyn LeFante

Study Type : Human Study
Additional Links
Substances : Ascorbyl Palmitate : CK(10) : AC(1) , Quercetin : CK(564) : AC(250) , Vitamin C : CK(1956) : AC(403), Vitamin D : CK(3209) : AC(455)
Diseases : Diabetes Mellitus: Type 2 : CK(3384) : AC(595) , Diabetic Neuropathies : CK(233) : AC(36) , Peripheral Neuropathies : CK(214) : AC(35)
Pharmacological Actions : Enzyme Inhibitors : CK(463) : AC(250)

Capsaicin potentiates the vitamin D3-induced and all-trans retinoic acid-induced differentiation of human promyelocytic leukemia cells.

Pubmed Data : Eur J Pharmacol. 2001 May 25;420(2-3):83-90. PMID: **11408028**

Article Published Date : May 25, 2001

Authors : S N Kang, S W Chung, T S Kim

Study Type : In Vitro Study
Additional Links
Substances : Capsaicin : CK(129) : AC(55) , Vitamin D : CK(3176) : AC(449)
Diseases : Promyelocytic leukemia : CK(98) : AC(83)
Pharmacological Actions : Chemosensitizer : CK(394) : AC(286) , Enzyme Inhibitors : CK(463) : AC(250)
Additional Keywords : Drug-Plant-Vitamin Synergies : CK(965) : AC(266) , Natural Substance Synergy : CK(537) : AC(247)

Vitamin D enhances caspase-dependent and -independent TNFalpha-induced breast cancer cell death.

Pubmed Data : Int J Cancer. 2003 Aug 20;106(2):178-86. PMID: **12800192**

Article Published Date : Aug 20, 2003

Authors : Gregory E Weitsman, Amiram Ravid, Uri A Liberman, Ruth Koren

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059)
Pharmacological Actions : Apoptotic : CK(2958) : AC(2075) , Enzyme Inhibitors : CK(463) : AC(250) , Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)
Additional Keywords : Antineoplastic Agents : CK(69) : AC(28)

Vitamin D supplementation improved some cardiovascular disease risk factors in healthy volunteers.

Pubmed Data : Ther Adv Endocrinol Metab. 2016 Aug ;7(4):153-65. Epub 2016 Jun 20. PMID: **27540461**

Article Published Date : Jul 31, 2016

Authors : Emad A S Al-Dujaili, Nimrah Munir, Raquel Revuelta Iniesta

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cardiovascular Diseases : CK(7176) : AC(907) , Oxidative Stress : CK(3855) : AC(1378) , Vitamin D Deficiency : CK(1695) : AC(178)
Therapeutic Actions : Exercise : CK(1235) : AC(193)

Pharmacological Actions : Antioxidants : CK(7304) : AC(2677) , Enzyme Inhibitors : CK(463) : AC(250)

Estrogen Antagonists (AC 1) (CK 1)

Vitamin D3 down-regulates estrogen receptor abundance and suppresses estrogen actions in MCF-7 human breast cancer cells.

Pubmed Data : Clin Cancer Res. 2000 Aug;6(8):3371-9. PMID: **10955825**

Article Published Date : Aug 01, 2000

Authors : S Swami, A V Krishnan, D Feldman

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059) , Estrogen Dominance : CK(107) : AC(38)
Pharmacological Actions : Estrogen Antagonists : CK(3) : AC(1)
Additional Keywords : Estrogen Receptor Positive Breast Cancer : CK(3) : AC(3)

Gastrointestinal Agents (AC 1) (CK 1)

A remarkable preventive role of many vitamins like B6, B9, B12 and D on the risk of developing CRC was suggested by a large number of observational studies.

Pubmed Data : World J Gastroenterol. 2015 May 7 ;21(17):5191-5209. PMID: **25954093**

Article Published Date : May 06, 2015

Authors : Omar A Masri, Jean M Chalhoub, Ala I Sharara

Study Type : Review
Additional Links
Substances : Folate : CK(169) : AC(25) , Vitamin B-12 : CK(780) : AC(104) , Vitamin B-6 : CK(435) : AC(54), Vitamin C : CK(1956) : AC(403) , Vitamin D : CK(3176) : AC(449) , Vitamin E : CK(1656) : AC(290)
Diseases : Celiac Disease : CK(1612) : AC(232) , Colorectal Cancer : CK(1635) : AC(611) , Colorectal

Cancer: Prevention : CK(207) : AC(36), Gastrointestinal Diseases : CK(73) : AC(22)
Pharmacological Actions : Gastrointestinal Agents : CK(268) : AC(41)

Gene Protective (AC 1) (CK 10)

Plasma levels of vitamin D is associated with clinically important differences in survival outcome.

Pubmed Data : J Clin Oncol. 2014 Jul 7. Epub 2014 Jul 7. PMID: **25002714**

Article Published Date : Jul 06, 2014

Authors : Lina Zgaga, Evropi Theodoratou, Susan M Farrington, Farhat V N Din, Li Yin Ooi, Dominik Glodzik, Susan Johnston, Albert Tenesa, Harry Campbell, Malcolm G Dunlop

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Colorectal Cancer : CK(1635) : AC(611)
Pharmacological Actions : Gene Protective : CK(2) : AC(1)
Additional Keywords : Gene Environment : CK(12) : AC(3)

Genoprotective (AC 1) (CK 1)

This reviews the existing knowledge about the link between telomere biology and cellular aging with a focus on the role of vitamin D.

Pubmed Data : Clin Chem Lab Med. 2015 Mar 21. Epub 2015 Mar 21. PMID: **25803084**

Article Published Date : Mar 20, 2015

Authors : Irene Pusceddu, Christopher-John L Farrell, Angela Maria Di Pierro, Erika Jani, Wolfgang Herrmann, Markus Herrmann

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Aging : CK(1633) : AC(434), Cardiovascular Diseases : CK(7176) : AC(907),

Neurodegenerative Diseases : CK(3376) : AC(850)
Pharmacological Actions : Genoprotective : CK(270) : AC(97)
Additional Keywords : Telomere Length : CK(18) : AC(5)

Hepatoprotective (AC 2) (CK 3)

The association of vitamin D with liver cirrhosis shows great potential for clinical application.

Pubmed Data : Ann Gastroenterol. 2016 Jul-Sep;29(3):297-306. Epub 2016 Apr 25. PMID: 27366029

Article Published Date : Jun 30, 2016

Authors : Christos Konstantakis, Paraskevi Tselekouni, Maria Kalafateli, Christos Triantos

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Liver Cirrhosis : CK(395) : AC(56) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Hepatoprotective : CK(1383) : AC(592)
Additional Keywords : Risk Factors : CK(2597) : AC(334)

Vitamin D-enriched Shiitake mushroom exerts a synergistic anti-inflammatory effect in an immune-mediated hepatitis model.

Pubmed Data : J Med Food. 2016 Mar 30. Epub 2016 Mar 30. PMID: 27027234

Article Published Date : Mar 29, 2016

Authors : Ariel Drori, Yehudit Shabat, Ami Ben Ya'acov, Ofer Danay, Dan Levanon, Lidya Zolotarov, Yaron Ilan

Study Type : Animal Study
Additional Links
Substances : Shiitake Mushroom : CK(43) : AC(22), Vitamin D : CK(3176) : AC(449)
Diseases : Chemically-Induced Liver Damage : CK(634) : AC(255) , Hepatitis C : CK(474) : AC(87) , Liver Disease : CK(135) : AC(40)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Hepatoprotective : CK(1383) : AC(592)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247) , Plant Extracts : CK(7483) : AC(2462)
Problem Substances : Concanavalin A : CK(25) : AC(10)

Hypolipidemic (AC 2) (CK 30)

A D3-supplemented yogurt drink improves insulin resistance and lipid profiles in women with gestational diabetes mellitus.

Pubmed Data : Ann Nutr Metab. 2016 Jun 24 ;68(4):285-290. Epub 2016 Jun 24. PMID: 27336154

Article Published Date : Jun 23, 2016

Authors : Qin Li, Baoheng Xing

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449) , Yoghurt : CK(154) : AC(23)
Diseases : Gestational Diabetes : CK(76) : AC(10) , Insulin Resistance : CK(1683) : AC(346)
Pharmacological Actions : Hypolipidemic : CK(1229) : AC(256)

Vitamin D improved serum levels of TC, TG, and LDL in patients with type 2 diabetes.

Pubmed Data : Clin Nutr. 2016 Mar 15. Epub 2016 Mar 15. PMID: 27020528

Article Published Date : Mar 14, 2016

Authors : Tina Jafari, Aziz A Fallah, Afshin Barani

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Diabetes Mellitus: Type 2 : CK(3384) : AC(595)
Pharmacological Actions : Hypolipidemic : CK(1229) : AC(256)

Immunomodulatory (AC 12) (CK 67)

Antibody titers against EBV in MS patients rise after the onset of the disease and indicate that vitamin D3

supplementation could limit augmentation of these titers in MS patients.

Pubmed Data : Cell Immunol. 2015 Mar ;294(1):9-12. Epub 2015 Jan 28. PMID: **25666504**

Article Published Date : Feb 28, 2015

Authors : Adeleh Najafipoor, Rasoul Roghanian, Sayyed Hamid Zarkesh-Esfahani, Majid Bouzari, Masoud Etemadifar

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Epstein-Barr Virus Infections : CK(132) : AC(47) , Multiple Sclerosis : CK(964) : AC(184) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Immunomodulatory : CK(1286) : AC(357)
Additional Keywords : Risk Factors : CK(2584) : AC(332) , Risk Reduction : CK(6366) : AC(681)

Antibody titers for all HPV strains were significantly higher among those with lower vitamin D levels and among younger participants.

Pubmed Data : Hum Vaccin Immunother. 2015 Jul 15:0. Epub 2015 Jul 15. PMID: **26176493**

Article Published Date : Jul 14, 2015

Authors : Richard K Zimmerman, Chyongchiou Jeng Lin, Jonathan M Raviotta, Mary Patricia Nowalk

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Human Papillomavirus (HPV) : CK(212) : AC(35) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Immunomodulatory : CK(1287) : AC(358)
Additional Keywords : Antibody Titers : CK(13) : AC(2) , Vaccine Efficacy : CK(10) : AC(1)
Anti Therapeutic Actions : Vaccination: HPV (Gardisil) : CK(142) : AC(19)

High-dose oral vitamin D3 supplementation can affect humoral immune responses against the latent EBV antigen EBNA1.

Pubmed Data : Mult Scler. 2016 Jun 20. Epub 2016 Jun 20. PMID: **27325604**

Article Published Date : Jun 19, 2016

Authors : Egil Røsjø, Andreas Lossius, Nada Abdelmagid, Jonas C Lindstrøm, Margitta T Kampman, Lone Jørgensen, Peter Sundström, Tomas Olsson, Linn H Steffensen, Øivind Torkildsen, Trygve Holmøy

Study Type : Human Study
Additional Links

Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Epstein-Barr Virus Infections : CK(132) : AC(47) , Multiple Sclerosis: Relapsing-Remitting : CK(114) : AC(13)
Pharmacological Actions : Immunomodulatory : CK(1287) : AC(358)

These results demonstrated the immunologic effect of probiotic and vitamin D supplementation on sublingual immunotherapy.

Pubmed Data : Allergy Asthma Proc. 2016 Jul ;37(4):324-34. PMID: **27401319**

Article Published Date : Jun 30, 2016

Authors : Joanna Jerzynska, Wlodzimierz Stelmach, Joanna Balcerak, Katarzyna Woicka-Kolejwa, Blazej Rychlik, Andrzej Blauz, Marcin Wachulec, Piotr Stelmach, Pawel Majak, Iwona Stelmach

Study Type : Human Study
Additional Links
Substances : Lactobacillus rhamnosus GG : CK(212) : AC(29) , Vitamin D : CK(3176) : AC(449)
Diseases : Allergic Rhinitis : CK(392) : AC(52)
Pharmacological Actions : Immunomodulatory : CK(1287) : AC(358)

This review provides evidence that nutrition and natural compounds can help in prevention and treatment of this neuroinflammatory disease.

Pubmed Data : Pharmacol Ther. 2015 Apr ;148:85-113. Epub 2014 Nov 27. PMID: **25435020**

Article Published Date : Mar 31, 2015

Authors : Katja Schmitz, Julia Barthelmes, Leonie Stolz, Susanne Beyer, Olaf Diehl, Irmgard Tegeder

Study Type : Review
Additional Links
Substances : Broccoli : CK(962) : AC(298) , Curcumin : CK(4135) : AC(2175) , EGCG (Epigallocatechin gallate) : CK(609) : AC(314), Polyunsaturated Fatty Acids (PUFAs) : CK(174) : AC(32) , Sulforaphane : CK(533) : AC(262), Vitamin A : CK(498) : AC(77) , Vitamin D : CK(3176) : AC(449) , Vitamin E : CK(1656) : AC(290)
Diseases : Encephalomyelitis : CK(12) : AC(7) , Multiple Sclerosis : CK(964) : AC(184)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616) , Immunomodulatory : CK(1286) : AC(357)
Additional Keywords : Dietary Modification : CK(315) : AC(47) , Natural Substance Synergy : CK(537) : AC(247), Significant Treatment Outcome : CK(3038) : AC(366)

Vitamin D acts as an effect modifier for the entire herpes zoster spectrum with regard to disease susceptibility, manifestation, efficacy of pharmacologic management.

Pubmed Data : Med Hypotheses. 2015 Jul 2. Epub 2015 Jul 2. PMID: **26163058**

Article Published Date : Jul 01, 2015

Authors : Chia-Ter Chao, Chih-Kang Chiang, Jenq-Wen Huang, Kuan-Yu Hung

Study Type : Commentary
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Herpes Zoster : CK(473) : AC(36) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Immunomodulatory : CK(1286) : AC(357)
Additional Keywords : 25-hydroxyvitamin D : CK(137) : AC(18) , Risk Reduction : CK(6366) : AC(681)

Vitamin D enhances immunity against mycobacteria associated with tubercolosis.

Pubmed Data : Am J Respir Crit Care Med. 2007 Jul 15;176(2):208-13. Epub 2007 Apr 26. PMID: **17463418**

Article Published Date : Jul 15, 2007

Authors : Adrian R Martineau, Robert J Wilkinson, Katalin A Wilkinson, Sandra M Newton, Beate Kampmann, Bridget M Hall, Geoffrey E Packe, Robert N Davidson, Sandra M Eldridge, Zoë J Maunsell, Sandra J Rainbow, Jacqueline L Berry, Christopher J Griffiths

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Pulmonary Tubercolosis : CK(80) : AC(12) , Tubercolosis: Latent : CK(51) : AC(6)
Pharmacological Actions : Immunomodulatory : CK(1287) : AC(358)

Vitamin D exerts important regulatory functions on cells from the innate as well as from the adaptive immune response

Pubmed Data : Front Immunol. 2015 ;6:513. Epub 2015 Oct 12. PMID: **26528285**

Article Published Date : Dec 31, 2014

Authors : Mirentxu Iruretagoyena, Daniela Hirigoyen, Rodrigo Naves, Paula Isabel Burgos

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Systemic Lupus Erythematosus : CK(463) : AC(66) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Immunomodulatory : CK(1287) : AC(358)

Vitamin D has potential immunomodulatory properties in regulating airway smooth muscle function and airway inflammation in bronchial asthma.

Pubmed Data : Expert Rev Respir Med. 2015 Dec 4. Epub 2015 Dec 4. PMID: 26634624

Article Published Date : Dec 03, 2015

Authors : Sannette C Hall, Kimberly D Fischer, Devendra K Agrawal

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Asthma: Bronchial : CK(280) : AC(36)
Pharmacological Actions : Immunomodulatory : CK(1287) : AC(358)

Vitamin D may be beneficial to protect patients from inflammation and tissue damage during tuberculosis infection.

Pubmed Data : Int Immunopharmacol. 2016 Feb 26 ;34:86-91. Epub 2016 Feb 26. PMID: 26927615

Article Published Date : Feb 25, 2016

Authors : M Harishankar, S Anbalagan, P Selvaraj

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Tuberculosis : CK(312) : AC(54)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622), Immunomodulatory : CK(1286) : AC(357)

Vitamin D supplements may boost clinical responses to infections.

Pubmed Data : Biomed Res Int. 2016 ;2016:1375858. Epub 2016 Jun 15. PMID: 27403416

Article Published Date : Dec 31, 2015

Authors : Rui Lin

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Pharmacological Actions : Immunomodulatory : CK(1287) : AC(358)

Vitamin D3 prevents the induction of multiple sclerosis in the animal model.

Pubmed Data : J Clin Invest. 1991 Mar;87(3):1103-7. PMID: 1705564

Article Published Date : Mar 01, 1991

Authors : J M Lemire, D C Archer

Study Type : Animal Study

Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Multiple Sclerosis : CK(964) : AC(184)
Pharmacological Actions : Immunomodulatory : CK(1286) : AC(357) , Neuroprotective Agents : CK(2268) : AC(1071)

Immunomodulatory: T-Cell down-regulation (AC 1) (CK 10)

High dose vitamin D3 improves the inflammation/immune status in patients with multiple sclerosis.

Pubmed Data : PLoS One. 2010;5(12):e15235. Epub 2010 Dec 13. PMID: **21179201**

Article Published Date : Jan 01, 2010

Authors : Joost Smolders, Evelyn Peelen, Mariëlle Thewissen, Jan Willem Cohen Tervaert, Paul Menheere, Raymond Hupperts, Jan Damoiseaux

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Multiple Sclerosis : CK(964) : AC(184)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Immunomodulatory: T-Cell down-regulation : CK(12) : AC(2)

Insulin Sensitizers (AC 2) (CK 20)

Correction of vitamin D deficiency leads to increased insulin sensitivity that was significantly able to maintain glucose in the normal range.

Pubmed Data : Diabetes Metab Syndr. 2016 Jan 14. Epub 2016 Jan 14. PMID: **27094871**

Article Published Date : Jan 13, 2016

Authors : Saeed Osati, Reza Homayounfar, Majid Hajifaraji

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Insulin Resistance : CK(1683) : AC(346) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Insulin Sensitizers : CK(350) : AC(70)

Vitamin D3 supplementation improves insulin sensitivity in subjects with impaired fasting glucose.

Pubmed Data : Transl Res. 2011 Nov ;158(5):276-81. Epub 2011 Jun 7. PMID: **22005267**

Article Published Date : Nov 01, 2011

Authors : Shaban Nazarian, John V St Peter, Raymond C Boston, Sidney A Jones, Cary N Mariash

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Insulin Resistance : CK(1683) : AC(346)
Pharmacological Actions : Insulin Sensitizers : CK(350) : AC(70)

Interferon Gamma Reducer (AC 1) (CK 1)

Vitamin D has the ability to suppress inflammatory cytokines, while it increases the generation of anti-inflammatory cytokines.

Pubmed Data : J Biol Regul Homeost Agents. 2015 Jul-Sep;29(3):563-7. PMID: **26403394**

Article Published Date : Jun 30, 2015

Authors : E Toniato, E Spinas, A Saggini, S K Kritas, A Caraffa, P Antinolfi, R Saggini, F Pandolfi, P Conti

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Skin Diseases: Inflammatory : CK(1) : AC(1)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interferon Gamma Reducer : CK(58) : AC(24), Interleukin-10 upregulation : CK(105) : AC(24) , Interleukin-1 alpha downregulation : CK(42) : AC(17), Interleukin-2 Downregulation : CK(4) : AC(3) , Interleukin-4 upregulation : CK(12) : AC(2), Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)

Interleukin-1 alpha downregulation (AC 1) (CK 1)

Vitamin D has the ability to suppress inflammatory cytokines, while it increases the generation of anti-inflammatory cytokines.

Pubmed Data : J Biol Regul Homeost Agents. 2015 Jul-Sep;29(3):563-7. PMID: **26403394**

Article Published Date : Jun 30, 2015

Authors : E Toniato, E Spinas, A Saggini, S K Kritas, A Caraffa, P Antinolfi, R Saggini, F Pandolfi, P Conti

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Skin Diseases: Inflammatory : CK(1) : AC(1)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interferon Gamma Reducer : CK(58) : AC(24), Interleukin-10 upregulation : CK(105) : AC(24) , Interleukin-1 alpha downregulation : CK(42) : AC(17), Interleukin-2 Downregulation : CK(4) : AC(3) , Interleukin-4 upregulation : CK(12) : AC(2), Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)

Interleukin-1 beta downregulation (AC 1) (CK 1)

Vitamin D2 has therapeutic potential against inflammation and Alzheimer's disease.

Pubmed Data : Life Sci. 2016 Jul 28. Epub 2016 Jul 28. PMID: **27477351**

Article Published Date : Jul 27, 2016

Authors : Suchismita Raha, Ho Jeong Lee, Silvia Yumnam, Gyeong Eun Hong, Venu Venkatarame Gowda Saralamma, Yeong Lae Ha, Jeong Ok Kim, Young Suk Kim, Jeong Doo Heo, Sang Joon Lee,

Hee Kim Eun, Gon Sup Kim

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Alzheimer's Disease : CK(1287) : AC(379)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interleukin-1 beta downregulation : CK(462) : AC(204), Interleukin-6 Downregulation : CK(1083) : AC(340) , NF-kappaB Inhibitor : CK(1113) : AC(693), Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)

Interleukin-10 upregulation (AC 3) (CK 21)

High-dose vitamin D might be useful in promoting an anti-inflammatory state in RRMS patients.

Pubmed Data : Neuroimmunomodulation. 2015 Sep 25. Epub 2015 Sep 25. PMID: **26401986**

Article Published Date : Sep 24, 2015

Authors : Fereshteh Ashtari, Nafiseh Toghianifar, Sayyed Hamid Zarkesh-Esfahani, Marjan Mansourian

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Multiple Sclerosis: Relapsing-Remitting : CK(114) : AC(13)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interleukin-10 upregulation : CK(105) : AC(24)

Vitamin D has the ability to suppress inflammatory cytokines, while it increases the generation of anti-inflammatory cytokines.

Pubmed Data : J Biol Regul Homeost Agents. 2015 Jul-Sep;29(3):563-7. PMID: **26403394**

Article Published Date : Jun 30, 2015

Authors : E Toniato, E Spinas, A Saggini, S K Kritas, A Caraffa, P Antinolfi, R Saggini, F Pandolfi, P Conti

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Skin Diseases: Inflammatory : CK(1) : AC(1)

Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interferon Gamma Reducer : CK(58) : AC(24), Interleukin-10 upregulation : CK(105) : AC(24) , Interleukin-1 alpha downregulation : CK(42) : AC(17), Interleukin-2 Downregulation : CK(4) : AC(3) , Interleukin-4 upregulation : CK(12) : AC(2), Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)

Vitamin D(3) reduces the inflammatory milieu in congestive heart failure patients and might serve as a new antiinflammatory agent for the future treatment of the disease.

Pubmed Data : Am J Clin Nutr. 2006 Apr;83(4):754-9. PMID: **16600924**

Article Published Date : Apr 01, 2006

Authors : Stefanie S Schleithoff, Armin Zittermann, Gero Tenderich, Heiner K Berthold, Peter Stehle, Reiner Koerfer

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Congestive Heart Failure : CK(276) : AC(34) , Heart Failure : CK(918) : AC(124)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interleukin-10 upregulation : CK(105) : AC(24)

Interleukin-17 downregulation (AC 1) (CK 2)

Vitamin D3 supplementation diminished the inflammatory conditions in systemic lupus erythematosus.

Pubmed Data : Iran J Basic Med Sci. 2016 Apr ;19(4):374-80. PMID: **27279980**

Article Published Date : Mar 31, 2016

Authors : Fatemeh Faraji, Maryam Rastin, Fahimeh Lavi Arab, Mohammad Reza Kalantari, Shahrzad Zamani Taghizadeh Rabe, Nafise Tabasi, Mahmoud Mahmoudi

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Systemic Lupus Erythematosus : CK(463) : AC(66)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interleukin-17

downregulation : CK(39) : AC(13)

Interleukin-17 upregulation (AC 1) (CK 10)

IL-17 levels showed significant change in RRMS patients after receiving high dose vitamin D3 for 12weeks.

Pubmed Data : J Neuroimmunol. 2015 Aug 15 ;285:125-8. Epub 2015 Jun 12. PMID: 26198928

Article Published Date : Aug 14, 2015

Authors : Nafiseh Toghianifar, Fereshteh Ashtari, Sayyed Hamid Zarkesh-Esfahani, Marjan Mansourian

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Multiple Sclerosis: Relapsing-Remitting : CK(114) : AC(13)
Pharmacological Actions : Interleukin-17 upregulation : CK(4) : AC(2)

Interleukin-2 Downregulation (AC 1) (CK 1)

Vitamin D has the ability to suppress inflammatory cytokines, while it increases the generation of anti-inflammatory cytokines.

Pubmed Data : J Biol Regul Homeost Agents. 2015 Jul-Sep;29(3):563-7. PMID: 26403394

Article Published Date : Jun 30, 2015

Authors : E Toniato, E Spinas, A Saggini, S K Kritas, A Caraffa, P Antinolfi, R Saggini, F Pandolfi, P Conti

Study Type : Review
Additional Links

Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Skin Diseases: Inflammatory : CK(1) : AC(1)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interferon Gamma Reducer : CK(58) : AC(24), Interleukin-10 upregulation : CK(105) : AC(24) , Interleukin-1 alpha downregulation : CK(42) : AC(17), Interleukin-2 Downregulation : CK(4) : AC(3) , Interleukin-4 upregulation : CK(12) : AC(2), Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)

Interleukin-4 upregulation (AC 1) (CK 1)

Vitamin D has the ability to suppress inflammatory cytokines, while it increases the generation of anti-inflammatory cytokines.

Pubmed Data : J Biol Regul Homeost Agents. 2015 Jul-Sep;29(3):563-7. PMID: **26403394**

Article Published Date : Jun 30, 2015

Authors : E Toniato, E Spinas, A Saggini, S K Kritas, A Caraffa, P Antinolfi, R Saggini, F Pandolfi, P Conti

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Skin Diseases: Inflammatory : CK(1) : AC(1)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interferon Gamma Reducer : CK(58) : AC(24), Interleukin-10 upregulation : CK(105) : AC(24) , Interleukin-1 alpha downregulation : CK(42) : AC(17), Interleukin-2 Downregulation : CK(4) : AC(3) , Interleukin-4 upregulation : CK(12) : AC(2), Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)

Interleukin-6 Downregulation (AC 3) (CK 3)

Vitamin D could modulate the inflammatory response in

periodontal tissues.

Pubmed Data : Inflammation. 2015 Dec ;38(6):2252-8. PMID: **26156812**

Article Published Date : Nov 30, 2015

Authors : Yoshitaka Hosokawa, Ikuko Hosokawa, Satoru Shindo, Kazumi Ozaki, Takashi Matsuo

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Periodontal Diseases : CK(257) : AC(64)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interleukin-6 Downregulation : CK(1083) : AC(340), Interleukin-8 downregulation : CK(166) : AC(61) , NF-kappaB Inhibitor : CK(1113) : AC(693)

Vitamin D2 has therapeutic potential against inflammation and Alzheimer's disease.

Pubmed Data : Life Sci. 2016 Jul 28. Epub 2016 Jul 28. PMID: **27477351**

Article Published Date : Jul 27, 2016

Authors : Suchismita Raha, Ho Jeong Lee, Silvia Yumnam, Gyeong Eun Hong, Venu Venkatarame Gowda Saralamma, Yeong Lae Ha, Jeong Ok Kim, Young Suk Kim, Jeong Doo Heo, Sang Joon Lee, Hee Kim Eun, Gon Sup Kim

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Alzheimer's Disease : CK(1287) : AC(379)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interleukin-1 beta downregulation : CK(462) : AC(204), Interleukin-6 Downregulation : CK(1083) : AC(340) , NF-kappaB Inhibitor : CK(1113) : AC(693), Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)

Vitamin D3 inhibits ultraviolet-B-indcued damage in human skin cells.

Pubmed Data : J Cell Biochem. 2003 Jul 1;89(4):663-73. PMID: **12858333**

Article Published Date : Jul 01, 2003

Authors : Petra De Haes, Marjan Garmyn, Hugo Degreef, Katleen Vantieghem, Roger Bouillon, Siegfried Segaert

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Aging Skin : CK(426) : AC(101) , Skin Diseases: Photo-Aging : CK(132) : AC(51)
Pharmacological Actions : Apoptotic : CK(2958) : AC(2075) , Interleukin-6 Downregulation : CK(1095) : AC(342), Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)

Interleukin-8 downregulation (AC 2) (CK 2)

Glutamine and arginine-fortified PF with curcumin might be a promising option to enhance the effectiveness and expand the scope of EEN therapy.

Pubmed Data : JPEN J Parenter Enteral Nutr. 2016 Jan 29. Epub 2016 Jan 29. PMID: 26826259

Article Published Date : Jan 28, 2016

Authors : Moftah H Alhagamhmad, Andrew S Day, Daniel A Lemberg, Steven T Leach

Study Type : In Vitro Study

Additional Links

Substances : Arginine : CK(1012) : AC(176) , Curcumin : CK(4135) : AC(2175) , Glutamine : CK(123) : AC(24), Vitamin D : CK(3176) : AC(449)

Diseases : Crohn's Disease : CK(153) : AC(30) , Inflammatory Bowel Diseases : CK(1003) : AC(189)

Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616) , Interleukin-8 downregulation : CK(166) : AC(61)

Vitamin D could modulate the inflammatory response in periodontal tissues.

Pubmed Data : Inflammation. 2015 Dec ;38(6):2252-8. PMID: 26156812

Article Published Date : Nov 30, 2015

Authors : Yoshitaka Hosokawa, Ikuko Hosokawa, Satoru Shindo, Kazumi Ozaki, Takashi Matsuo

Study Type : In Vitro Study

Additional Links

Substances : Vitamin D : CK(3176) : AC(449)

Diseases : Periodontal Diseases : CK(257) : AC(64)

Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interleukin-6 Downregulation : CK(1083) : AC(340), Interleukin-8 downregulation : CK(166) : AC(61) , NF-kappaB Inhibitor : CK(1113) : AC(693)

Malondialdehyde Down-regulation

(AC 1) (CK 10)

vitamin D supplementation had beneficial effects on improved glycemic control in patients with diabetic foot ulcer.

Pubmed Data : J Diabetes Complications. 2016 Jun 23. Epub 2016 Jun 23. PMID: 27363929

Article Published Date : Jun 22, 2016

Authors : Reza Razzaghi, Hamideh Pourbagheri, Mansooreh Momen-Heravi, Fereshteh Bahmani, Jafar Shadi, Zahra Soleimani, Zatollah Asemi

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : C-Reactive Protein : CK(1630) : AC(172) , Diabetic Ulcer : CK(155) : AC(25) , Wound Healing: Delayed : CK(74) : AC(29)
Pharmacological Actions : Anticholesteremic Agents : CK(1244) : AC(230) , Malondialdehyde Down-regulation : CK(554) : AC(152)

MicroRNA modulator (AC 3) (CK 3)

Calcitriol potentiates the anti-HCV effect of miR-130a in both Con1b replicon and J6/JFH1 culture systems.

Pubmed Data : Mediators Inflamm. 2015 ;2015:508989. Epub 2015 Apr 28. PMID: 26060358

Article Published Date : Dec 31, 2014

Authors : Xiaoqiong Duan, Yujuan Guan, Yujia Li, Shan Chen, Shilin Li, Limin Chen

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Hepatitis C : CK(474) : AC(87)
Pharmacological Actions : Antiviral Agents : CK(938) : AC(433) , MicroRNA modulator : CK(260) : AC(142)

Dietary factors modify miRNA expression and their mRNA targets in various cancer processes.

Pubmed Data : Adv Nutr. 2011 Nov ;2(6):472-85. Epub 2011 Nov 3. PMID: 22332090

Article Published Date : Oct 31, 2011

Authors : Sharon A Ross, Cindy D Davis

Study Type : Review
Additional Links
Substances : Curcumin : CK(4135) : AC(2175) , EGCG (Epigallocatechin gallate) : CK(609) : AC(314) , Fiber : CK(808) : AC(103) , Folate : CK(169) : AC(25) , Genistein : CK(515) : AC(228) , Resveratrol : CK(1245) : AC(746), Selenium : CK(784) : AC(139) , Vitamin A : CK(498) : AC(77) , Vitamin D : CK(3176) : AC(449), Vitamin E : CK(1656) : AC(290)
Diseases : Cancers: All : CK(14500) : AC(4586) , Inflammation : CK(2918) : AC(856)
Pharmacological Actions : Angiogenesis Inhibitors : CK(114) : AC(62) , Anti-metastatic : CK(615) : AC(412), Antiproliferative : CK(2479) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612), Chemopreventive : CK(2831) : AC(784) , MicroRNA modulator : CK(260) : AC(142)
Additional Keywords : Dietary Concentrations : CK(95) : AC(23) , Plant Extracts : CK(7483) : AC(2462)

Vitamin D3 inhibits TNFα-induced latent HIV reactivation in J-LAT cells.

Pubmed Data : Mol Cell Biochem. 2016 Jun 13. Epub 2016 Jun 13. PMID: **27295094**

Article Published Date : Jun 12, 2016

Authors : G Nunnari, P Fagone, F Lazzara, A Longo, D Cambria, G Di Stefano, M Palumbo, L Malaguarnera, Michelino Di Rosa

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : HIV Infections : CK(659) : AC(216)
Pharmacological Actions : MicroRNA modulator : CK(262) : AC(144)

NF-kappaB Inhibitor (AC 6) (CK 6)

1,25-Dihydroxyvitamin D3 alleviates salivary adenoid cystic carcinoma progression.

Pubmed Data : Int J Oncol. 2016 Jan 15. Epub 2016 Jan 15. PMID: **26782341**

Article Published Date : Jan 14, 2016

Authors : Zhiquan Huang, Yeqing Liu, Zixian Huang, Haifeng Li, Xiangfeng Gan, Zhuojian Shen

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)

Diseases : Salivary Gland Adenoid Cystic Carcinoma. : CK(3) : AC(3)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), NF-kappaB Inhibitor : CK(1114) : AC(694)
Additional Keywords : Chemotherapy Resistance : CK(2) : AC(2)

Curcumin enhances leukemia cell differentiation.

Pubmed Data : Oncol Res. 1997;9(1):31-9. PMID: **9112258**

Article Published Date : Jan 01, 1997

Authors : J A Sokoloski, K Shyam, A C Sartorelli

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4135) : AC(2175), Vitamin D : CK(3176) : AC(449)
Diseases : Promyelocytic leukemia : CK(98) : AC(83)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), Cell Differentiation Inducer : CK(6) : AC(5), NF-kappaB Inhibitor : CK(1114) : AC(694)
Additional Keywords : Drug Synergy : CK(351) : AC(156)

Vitamin D and beta-sitosterol may have beneficial effects in autoimmune diseases such as multiple sclerosis.

Pubmed Data : Int Immunopharmacol. 2010 Nov;10(11):1390-6. Epub 2010 Aug 20. PMID: **20728596**

Article Published Date : Nov 01, 2010

Authors : Lini Alappat, Michael Valerio, Atif B Awad

Study Type : In Vitro Study
Additional Links
Substances : Beta Sitosterol : CK(45) : AC(15), Vitamin D : CK(3176) : AC(449)
Diseases : Autoimmune Diseases : CK(6604) : AC(1119), Lipopolysaccharide-Induced Toxicity : CK(359) : AC(218), Multiple Sclerosis : CK(964) : AC(184)
Pharmacological Actions : Antiproliferative : CK(2479) : AC(1685), NF-kappaB Inhibitor : CK(1113) : AC(693)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247)

Vitamin D and curcumin taken together may be useful in combating both normal and drug-resistant gonorrhea.

Pubmed Data : Med Hypotheses. 2013 Jul ;81(1):131-5. Epub 2013 Apr 30. PMID: **23642399**

Article Published Date : Jun 30, 2013

Authors : Dima A Youssef, Alan N Peiris, Jim L Kelley, William B Grant

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4135) : AC(2175), Vitamin D : CK(3176) : AC(449)
Diseases : Gonorrhea : CK(3) : AC(2)

Pharmacological Actions : Antimicrobial : CK(293) : AC(128) , NF-kappaB Inhibitor : CK(1114) : AC(694), Transforming growth factor beta (TGF-β) inhibitor : CK(32) : AC(9)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247)

Vitamin D could modulate the inflammatory response in periodontal tissues.

Pubmed Data : Inflammation. 2015 Dec ;38(6):2252-8. PMID: **26156812**

Article Published Date : Nov 30, 2015

Authors : Yoshitaka Hosokawa, Ikuko Hosokawa, Satoru Shindo, Kazumi Ozaki, Takashi Matsuo

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Periodontal Diseases : CK(257) : AC(64)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interleukin-6 Downregulation : CK(1083) : AC(340), Interleukin-8 downregulation : CK(166) : AC(61) , NF-kappaB Inhibitor : CK(1113) : AC(693)

Vitamin D2 has therapeutic potential against inflammation and Alzheimer's disease.

Pubmed Data : Life Sci. 2016 Jul 28. Epub 2016 Jul 28. PMID: **27477351**

Article Published Date : Jul 27, 2016

Authors : Suchismita Raha, Ho Jeong Lee, Silvia Yumnam, Gyeong Eun Hong, Venu Venkatarame Gowda Saralamma, Yeong Lae Ha, Jeong Ok Kim, Young Suk Kim, Jeong Doo Heo, Sang Joon Lee, Hee Kim Eun, Gon Sup Kim

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Alzheimer's Disease : CK(1287) : AC(379)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interleukin-1 beta downregulation : CK(462) : AC(204), Interleukin-6 Downregulation : CK(1083) : AC(340) , NF-kappaB Inhibitor : CK(1113) : AC(693), Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)

Neuroprotective Agents (AC 4) (CK 15)

A nutraceutical formulation with spirulina may help protect the stem progenitor cells from insults.

Pubmed Data : Minerva Urol Nefrol. 1985 Jan-Mar;37(1):35-50. PMID: **PMC2864748**

Article Published Date : Dec 31, 1984

Authors : F Aragona, C Spinelli, G Parlato, B Maestrini, F D'Elia, U Simi, L Fiorentini

Study Type : In Vitro Study
Additional Links
Substances : Blueberry : CK(260) : AC(90) , Green Tea : CK(1971) : AC(562) , Spirulina : CK(266) : AC(73), Vitamin D : CK(3176) : AC(449)
Diseases : Brain: Oxidative Stress : CK(79) : AC(46) , Brain Inflammation : CK(259) : AC(143), Oxidative Stress : CK(3855) : AC(1378)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616) , Antioxidants : CK(7304) : AC(2677), Neuroprotective Agents : CK(2268) : AC(1071)
Additional Keywords : Neural Stem Cell : CK(6) : AC(5) , Plant Extracts : CK(7483) : AC(2462)

In ALS patients, we report that a severe vitamin D deficiency accelerates the rate of decline and were associated with a marked shorter life expectancy.

Pubmed Data : Neurobiol Aging. 2014 May ;35(5):1198-205. Epub 2013 Nov 13. PMID: **24378089**

Article Published Date : Apr 30, 2014

Authors : William Camu, Boris Tremblier, Carine Plassot, Sébastien Alphandery, Céline Salsac, Nicolas Pageot, Raul Juntas-Morales, Frédérique Scamps, Jean-Pierre Daures, Cédric Raoul

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Amyotrophic lateral sclerosis (ALS) : CK(566) : AC(140) , Vitamin D Deficiency : CK(1695) : AC(178)
Pharmacological Actions : Neuroprotective Agents : CK(2268) : AC(1071)

Vitamin D3 may have a protective effect on cognitive deficits and oxidative stress in toxic demyelination's model.

Pubmed Data : Iran J Basic Med Sci. 2016 Jan ;19(1):80-8. PMID: **27096068**

Article Published Date : Dec 31, 2015

Authors : Sepideh Tarbali, Shiva Khezri

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Cognitive Decline/Dysfunction : CK(1140) : AC(213) , Lipid Peroxidation : CK(695) : AC(255), Multiple Sclerosis : CK(964) : AC(184) , Oxidative Stress : CK(3855) : AC(1378)
Pharmacological Actions : Catalase Up-Regulation : CK(118) : AC(42) , Neuroprotective Agents : CK(2268) : AC(1071)

Vitamin D3 prevents the induction of multiple sclerosis in the animal model.

Pubmed Data : J Clin Invest. 1991 Mar;87(3):1103-7. PMID: **1705564**

Article Published Date : Mar 01, 1991

Authors : J M Lemire, D C Archer

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Multiple Sclerosis : CK(964) : AC(184)
Pharmacological Actions : Immunomodulatory : CK(1286) : AC(357) , Neuroprotective Agents : CK(2268) : AC(1071)

Nrf2 activation (AC 1) (CK 1)

The role of some natural Nrf2 activators and its effect in diabetes is discussed in this review.

Pubmed Data : Clin Chim Acta. 2015 Jul 9. Epub 2015 Jul 9. PMID: **26165427**

Article Published Date : Jul 08, 2015

Authors : Angélica Saraí Jiménez-Osorio, Susana González-Reyes, José Pedraza-Chaverri

Study Type : Review
Additional Links
Substances : Curcumin : CK(4135) : AC(2175) , Resveratrol : CK(1245) : AC(746) , Sulforaphane : CK(533) : AC(262), Vitamin D : CK(3176) : AC(449)
Diseases : Diabetes Mellitus: Type 1: Prevention : CK(255) : AC(50) , Diabetes Mellitus: Type 2 : CK(3384) : AC(595), Hyperglycemia : CK(539) : AC(130) , Prediabetes : CK(150) : AC(17)
Pharmacological Actions : Antioxidants : CK(7304) : AC(2677) , Nrf2 activation : CK(175) : AC(85)

Photoprotective (AC 1) (CK 1)

Vitamin D3 enhances cellular defences against UV-

induced oxidative and other forms of DNA damage in skin.

Pubmed Data : Photochem Photobiol Sci. 2012 Oct 15. Epub 2012 Oct 15. PMID: 23069805

Article Published Date : Oct 14, 2012

Authors : Clare Gordon-Thomson, Ritu Gupta, Wannit Tongkao-On, Anthony Ryan, Gary M Halliday, Rebecca S Mason

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Sunburn : CK(41) : AC(19)
Pharmacological Actions : Photoprotective : CK(74) : AC(27)

Radioprotective (AC 1) (CK 1)

Vit.D protects human endothelial cells from IR induced/oxidative stress by positively regulating the MAPKs/SirT1 axis.

Pubmed Data : J Endocrinol Invest. 2015 Sep 3. Epub 2015 Sep 3. PMID: 26335302

Article Published Date : Sep 02, 2015

Authors : F Marampon, G L Gravina, C Festuccia, V M Popov, E A Colapietro, P Sanità, D Musio, F De Felice, A Lenzi, E A Jannini, E Di Cesare, V Tombolini

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Oxidative Stress : CK(3855) : AC(1378)
Pharmacological Actions : Radioprotective : CK(756) : AC(262)
Anti Therapeutic Actions : Radiotherapy : CK(402) : AC(70)

Remyelination (AC 1) (CK 2)

Cholecalciferol significantly increases functional recovery

and myelination, after 12 weeks of treatment.

Pubmed Data : Eur Arch Otorhinolaryngol. 2014 Sep 27. Epub 2014 Sep 27. PMID: 25261104

Article Published Date : Sep 26, 2014

Authors : Marion Montava, Stéphane Garcia, Julien Mancini, Yves Jammes, Joël Courageot, Jean-Pierre Lavieille, François Feron

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3209) : AC(455)
Diseases : Facial Nerve Diseases : CK(4) : AC(2) , Facial Paralysis : CK(4) : AC(2)
Pharmacological Actions : Remyelination : CK(2) : AC(1)
Additional Keywords : Significant Treatment Outcome : CK(3038) : AC(366)

Renoprotective (AC 1) (CK 2)

Vitamin D has anti- apoptotic and antioxidant effects on kidney tissue after doxorubicin induced injury.

Pubmed Data : Int J Clin Exp Med. 2015 ;8(8):13548-55. Epub 2015 Aug 15. PMID: 26550293

Article Published Date : Dec 31, 2014

Authors : Ali Gurel, Hasan Atli, Nalan Kaya, Ebru Onalan, Tuncay Kuloglu, Bilge Aygen

Study Type : Animal Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Chemotherapy-Induced Toxicity: Doxorubicin : CK(132) : AC(56)
Pharmacological Actions : Chemoprotective Agents : CK(356) : AC(146) , Renoprotective : CK(556) : AC(246)

SIRT1 Activator (AC 1) (CK 1)

The results of this study elucidate a possible pathway for crosstalk between two nutritionally derived lipids, vitamin D and resveratrol, both of which converge on VDR

signaling.

Pubmed Data : J Cell Biochem. 2015 Jun ;116(6):1130-43. PMID: 25536521

Article Published Date : May 31, 2015

Authors : Angelika Dampf Stone, Shane F Batie, Marya S Sabir, Elizabeth T Jacobs, Jamie H Lee, G Kerr Whitfield, Mark R Haussler, Peter W Jurutka

Study Type : In Vitro Study
Additional Links
Substances : Resveratrol : CK(1245) : AC(746) , Vitamin D : CK(3209) : AC(455)
Pharmacological Actions : SIRT1 Activator : CK(39) : AC(23)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247) , Vitamin D Receptor (VDR) : CK(1) : AC(1)

Telomerase Upregulation (AC 1) (CK 5)

"Vitamin D may improve telomere maintenance and prevent cell senescence and counteract obesity-induced acceleration of cellular aging."

Pubmed Data : Int J Obes (Lond). 2012 Jun ;36(6):805-9. Epub 2011 Oct 11. PMID: 21986705

Article Published Date : Jun 01, 2012

Authors : H Zhu, D Guo, K Li, J Pedersen-White, I S Stallmann-Jorgensen, Y Huang, S Parikh, K Liu, Y Dong

Study Type : Human In Vitro
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : African-American Specific Deficiencies/Diseases : CK(205) : AC(20) , Aging : CK(1633) : AC(434), Obesity : CK(2208) : AC(467)
Pharmacological Actions : Telomerase Upregulation : CK(102) : AC(28)

Thermogenic (AC 1) (CK 10)

Vitamin D deficiency may contribute to common obesity,

metabolic syndrome and a reduction in thermogenic activity.

Pubmed Data : Med Hypotheses. 2009 Mar;72(3):314-21. Epub 2008 Dec 2. PMID: 19054627

Article Published Date : Mar 01, 2009

Authors : Y J Foss

Study Type : Human Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Metabolic Diseases : CK(411) : AC(75) , Obesity : CK(2208) : AC(467)
Pharmacological Actions : Thermogenic : CK(57) : AC(9)

Transforming growth factor beta (TGF-β) inhibitor (AC 1) (CK 1)

Vitamin D and curcumin taken together may be useful in combating both normal and drug-resistant gonorrhea.

Pubmed Data : Med Hypotheses. 2013 Jul ;81(1):131-5. Epub 2013 Apr 30. PMID: 23642399

Article Published Date : Jun 30, 2013

Authors : Dima A Youssef, Alan N Peiris, Jim L Kelley, William B Grant

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4135) : AC(2175) , Vitamin D : CK(3176) : AC(449)
Diseases : Gonorrhea : CK(3) : AC(2)
Pharmacological Actions : Antimicrobial : CK(293) : AC(128) , NF-kappaB Inhibitor : CK(1114) : AC(694), Transforming growth factor beta (TGF-β) inhibitor : CK(32) : AC(9)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247)

Tumor Necrosis Factor (TNF) Alpha Inhibitor (AC 7) (CK 26)

Co-treatment with silibinin plus 1,25D decreased proliferation and migration at doses where silibinin alone had no effect.

Pubmed Data : Cancer Lett. 2015 Jul 1 ;362(2):199-207. Epub 2015 Apr 3. PMID: **25846868**

Article Published Date : Jun 30, 2015

Authors : Vandanajay Bhatia, Miriam Falzon

Study Type : In Vitro Study
Additional Links
Substances : Silibinin : CK(117) : AC(56) , Vitamin D : CK(3176) : AC(449)
Diseases : Colon Cancer : CK(749) : AC(430) , Inflammation : CK(2918) : AC(856)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4621) : AC(1616) , Anti-metastatic : CK(615) : AC(412), Antiproliferative : CK(2479) : AC(1685), Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)
Additional Keywords : Drug Synergy : CK(351) : AC(156)

Vitamin D enhances caspase-dependent and -independent TNFalpha-induced breast cancer cell death.

Pubmed Data : Int J Cancer. 2003 Aug 20;106(2):178-86. PMID: **12800192**

Article Published Date : Aug 20, 2003

Authors : Gregory E Weitsman, Amiram Ravid, Uri A Liberman, Ruth Koren

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059)
Pharmacological Actions : Apoptotic : CK(2958) : AC(2075) , Enzyme Inhibitors : CK(463) : AC(250) , Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)
Additional Keywords : Antineoplastic Agents : CK(69) : AC(28)

Vitamin D has the ability to suppress inflammatory cytokines, while it increases the generation of anti-inflammatory cytokines.

Pubmed Data : J Biol Regul Homeost Agents. 2015 Jul-Sep;29(3):563-7. PMID: **26403394**

Article Published Date : Jun 30, 2015

Authors : E Toniato, E Spinas, A Saggini, S K Kritas, A Caraffa, P Antinolfi, R Saggini, F Pandolfi, P Conti

Study Type : Review
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Skin Diseases: Inflammatory : CK(1) : AC(1)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interferon Gamma

Reducer : CK(58) : AC(24), Interleukin-10 upregulation : CK(105) : AC(24) , Interleukin-1 alpha downregulation : CK(42) : AC(17), Interleukin-2 Downregulation : CK(4) : AC(3) , Interleukin-4 upregulation : CK(12) : AC(2), Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)

Vitamin D may a therapeutic role in reducing inflammation in pulmonary tubercolulosis.

Pubmed Data : Cytokine. 2009 Feb;45(2):105-10. Epub 2008 Dec 16. PMID: **19091593**

Article Published Date : Feb 01, 2009

Authors : S Prabhu Anand, P Selvaraj, P R Narayanan

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Pulmonary Tubercolosis : CK(80) : AC(12) , Tuberculosis : CK(312) : AC(54)
Pharmacological Actions : Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1803) : AC(655)

Vitamin D supplementation may decrease serum levels of parathyroid hormone and inflammatory mediators in patients with chronic heart failure.

Pubmed Data : Clin Cardiol. 2015 Sep 28. Epub 2015 Sep 28. PMID: **26415519**

Article Published Date : Sep 27, 2015

Authors : Wei-Long Jiang, Hai-Bo Gu, Yu-Feng Zhang, Qing-Qing Xia, Jia Qi, Jian-Chang Chen

Study Type : Meta Analysis
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : C-Reactive Protein : CK(1630) : AC(172), Heart Failure : CK(918) : AC(124)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)
Additional Keywords : Parathyroid Hormone : CK(52) : AC(5)

Vitamin D2 has therapeutic potential against inflammation and Alzheimer's disease.

Pubmed Data : Life Sci. 2016 Jul 28. Epub 2016 Jul 28. PMID: **27477351**

Article Published Date : Jul 27, 2016

Authors : Suchismita Raha, Ho Jeong Lee, Silvia Yumnam, Gyeong Eun Hong, Venu Venkatarame Gowda Saralamma, Yeong Lae Ha, Jeong Ok Kim, Young Suk Kim, Jeong Doo Heo, Sang Joon Lee, Hee Kim Eun, Gon Sup Kim

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Alzheimer's Disease : CK(1287) : AC(379)

Pharmacological Actions : Anti-Inflammatory Agents : CK(4630) : AC(1622) , Interleukin-1 beta downregulation : CK(462) : AC(204), Interleukin-6 Downregulation : CK(1083) : AC(340) , NF-kappaB Inhibitor : CK(1113) : AC(693), Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)

Vitamin D3 inhibits ultraviolet-B-indcued damage in human skin cells.

Pubmed Data : J Cell Biochem. 2003 Jul 1;89(4):663-73. PMID: **12858333**

Article Published Date : Jul 01, 2003

Authors : Petra De Haes, Marjan Garmyn, Hugo Degreef, Katleen Vantieghem, Roger Bouillon, Siegfried Segaert

Study Type : In Vitro Study
Additional Links
Substances : Vitamin D : CK(3176) : AC(449)
Diseases : Aging Skin : CK(426) : AC(101) , Skin Diseases: Photo-Aging : CK(132) : AC(51)
Pharmacological Actions : Apoptotic : CK(2958) : AC(2075) , Interleukin-6 Downregulation : CK(1095) : AC(342), Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1768) : AC(650)

Tumor Suppressor Protein p53 Upregulation (AC 1) (CK 1)

Melatonin and vitamin D3 synergistically inhibit the growth of breast cancer cells.

Pubmed Data : J Pineal Res. 2011 Mar;50(2):150-8. Epub 2010 Nov 22. PMID: **21091766**

Article Published Date : Mar 01, 2011

Authors : Sara Proietti, Alessandra Cucina, Fabrizio D'Anselmi, Simona Dinicola, Alessia Pasqualato, Elisabetta Lisi, Mariano Bizzarri

Study Type : In Vitro Study
Additional Links
Substances : Melatonin : CK(965) : AC(310) , Vitamin D : CK(3176) : AC(449)
Diseases : Breast Cancer : CK(3526) : AC(1059)
Pharmacological Actions : Cell cycle arrest : CK(810) : AC(612) , Tumor Suppressor Protein p53 Upregulation : CK(293) : AC(202)
Additional Keywords : Natural Substance Synergy : CK(537) : AC(247)

Vascular Endothelial Growth Factor Regulator (AC 1) (CK 1)

Vitamin D3 induces programmed cell death in a rat glioma cell line.

Pubmed Data : J Environ Pathol Toxicol Oncol. 2009;28(4):311-23. PMID: 8951666

Article Published Date : Jan 01, 2009

Authors : C Baudet, G Chevalier, A Chassevent, C Canova, R Filmon, F Larra, P Brachet, D Wion

Study Type : In Vitro Study

Additional Links

Substances : Genistein : CK(515) : AC(228) , Isoflavones : CK(631) : AC(129) , Vitamin D : CK(3176) : AC(449)

Diseases : Glioma : CK(174) : AC(84)

Pharmacological Actions : Apoptotic : CK(2958) : AC(2075) , Vascular Endothelial Growth Factor Regulator : CK(31) : AC(14)

Vitamin D Receptor (VDR) Modulator (AC 1) (CK 1)

Many of the healthspan advantages conferred by 1,25-Dihydroxyvitamin D3 are promulgated by its induction of klotho.

Pubmed Data : Vitam Horm. 2016 ;100:165-230. Epub 2016 Jan 13. PMID: 26827953

Article Published Date : Dec 31, 2015

Authors : Mark R Haussler, G Kerr Whitfield, Carol A Haussler, Marya S Sabir, Zainab Khan, Ruby Sandoval, Peter W Jurutka

Study Type : Review

Additional Links

Substances : Anthocyanins : CK(342) : AC(115) , Curcumin : CK(4135) : AC(2175) , Polyunsaturated Fatty Acids (PUFAs) : CK(194) : AC(33), Resveratrol : CK(1245) : AC(746) , Vitamin D : CK(3176) : AC(449)

Pharmacological Actions : Vitamin D Receptor (VDR) Modulator : CK(1) : AC(1)

Additional Keywords : Gene Expression Regulation : CK(427) : AC(212)