



[Headlines](#) [On your radar](#) [All news](#) [Product news](#) [Health conditions](#) [Product innovations](#) [Jobs](#) [Events](#) [Search](#)

HEADLINES

[Research](#)
[Industry](#)
[Regulation](#)
[Consumer Trends](#)

ON YOUR RADAR

[NDI draft guidance](#)
[Vitamin D](#)
[Manufacturer insights](#)
[Omega-3](#)
[Quality control](#)
[Probiotics](#)
[Health claims](#)

HEADLINES > RESEARCH

17 12 0 3
 Like Share

Text size Print Email

Low vitamin D Levels linked to spinal cord inflammatory disease

By Stephen Daniells, 15-Nov-2011

Related topics: [Vitamin D](#), [Research](#), [Vitamins & premixes](#), [Immune system](#)

The immune system and anti-inflammatory effects of vitamin D may also extend to spinal conditions such as transverse myelitis, suggests a new study from Johns Hopkins University.

People who developed recurrent spinal cord disease were significantly more likely to have insufficient and deficient levels of the sunshine vitamin, according to findings published in the *Archives of Neurology*.

Whether vitamin D supplements can reduce the frequency of relapses in the people with this recurrent inflammatory spinal cord disease remains to be tested, said the Baltimore-based scientists.



D and the CNS

This is not the first time that vitamin D has been linked to autoimmune conditions such as multiple sclerosis (MS). It is unknown, however, if the vitamin is linked to other diseases of the spinal cord, such as transverse myelitis and neuromyelitis optica.

Transverse myelitis is a disease of the spinal cord that involves the myelin sheath that protects nerve fibers, while neuromyelitis optica is a disease of the central nervous system (CNS) that affects the optic nerves and spinal cord.

"Given that vitamin D deficiency may play a role in the development of MS and risk of relapses in those with known MS, this study adds to a growing body of evidence that inadequate vitamin D levels may affect the development and recurrence of other immune-mediated CNS disorders like recurrent transverse myelitis and neuromyelitis optica," wrote Maureen Mealy and her co-workers.

However, it is not known if low vitamin D levels can influence the spinal disorders or if the disorder influences vitamin D status, if indeed there is a direct relationship, said the researchers.

WHITE PAPER

Immune1™ - New Immunity Ingredient from WILD

Immune1™ is a proprietary blend of milk peptides that support and balance total immunity. Clinical studies have shown Immune1™ to rapidly increase phagocytosis, the number and vigor of immune cells that respond to microbial and bacterial invaders. Immune1™ is offered in a water-soluble dry powder for use in a variety of food and beverage applications... [Click here](#)

Study details

Mealy and her colleagues analyzed if vitamin D levels were associated with recurrent spinal cord disease in 77 patients with transverse myelitis and neuromyelitis optica.

"To our knowledge, this is the first study demonstrating that lower vitamin D levels correlate with recurrent spinal cord diseases such as neuromyelitis optica and neuromyelitis optica spectrum disorders as compared with monophasic spinal cord diseases like idiopathic transverse myelitis [a monophasic or single stage disease]."

The results of the study showed that vitamin D levels were significantly lower in patients who developed recurrent spinal cord disease.

"Our findings suggest that there may be an association between lower total 25-hydroxyvitamin D levels in patients with recurrent transverse myelitis/

100% of Women Taking Satiereal Report Decreased Hunger

Satiereal[®]

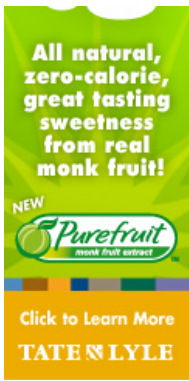
Promotes Satiety
 Decreases Sugar Cravings & Snacking

pit
 p.l. thomas

MOST POPULAR NEWS

1. [Squid gains traction in omega-3 market](#)
2. [Herbalife boss: We are the original social network...](#)
3. [First clinical trial of resveratrol indicates important metabolic shifts](#)
4. [Vitamin D metabolite effective for blood pressure, immune health benefits](#)
5. [Pfizer 'respectfully requests' the FDA to reconsider phytosterol rule change](#)





neuromyelitis optica / neuromyelitis optica spectrum disorders as compared with their counterparts with monophasic disease," wrote the researchers.

Mealy and her colleagues said that additional studies are required to further assess this association and whether supplements may provide benefits.

Source: Archives of Neurology
Published online ahead of print, doi:10.1001/archneurol.2011.1974
"Low Serum Vitamin D Levels and Recurrent Inflammatory Spinal Cord Disease"
Authors: M.A. Mealy, S. Newsome, B.M. Greenberg, D. Wingerchuk, P. Calabresi, M. Levy

Keywords: spinal cord, vitamin D, MS
17 12 0 3 Contact the editor
Like Share

Copyright - Unless otherwise stated all contents of this web site are © 2011 - William Reed Business Media SAS - All Rights Reserved - Full details for the use of materials on this site can be found in the Terms & Conditions

Get more articles like this in your mailbox: Your email

MORE NEWS ARTICLES ON THIS TOPIC

Vitamin D benefits may be independent of sun exposure: MS Study

LATEST NEWS IN RESEARCH

- Goji berry juice may help trim and slim waistlines: Pilot study
Nano-resveratrol may boost gut absorption: Study
Low vitamin D Levels linked to spinal cord inflammatory disease
Low vit C levels may increase risk for heart failure patients
Multivitamins may boost memory: RCT data

RELATED PRODUCTS & SUPPLIERS

SUPPLIER WEBINARS

Closing the Window on Stress-Related Immune Suppression

TECHNICAL PAPERS

- Beta-Carotene: Versatile Antioxidant and Vitamin A Source
The Role of Anti Inflammatory Nutrients
Introducing Imukan™ with Betox-93™, 93% pure Beta 1,3 / 1,6 Glucan
NEC's ZIPEX2 Enzyme, Herbal & Vitamin Energy
WILD Flavors, Inc. H.I.T.S.® Introduces Immune1™
Wellmune WGP® Reduces Exercised-Induced Immune Suppression
Explore Natural Actives That Help To Boost Your Resilience
Tegricel™ - Natural Digestive Defense from WILD

SUPPLIERS

- AIBMR Life Sciences
AIDP, Inc
Ajinomoto OmniChem NaturalSpecialities
Biocell Technology, LLC - Novel Dietary Ingredients
Bioenergy Life Science, Inc.
Blue California
Cognis®: The Perfect Balance With Your Products
Danisco
Diana Naturals Inc
FT Technologies
Farbest Brands
Fortitech, Inc
Hilmar Ingredients
Kangcare Bioindustry Co. Ltd
Maypro Industries
To bring digestive and therapeutic enzymes to the world
Natural Health Science Inc.
P.L. Thomas (PLT)
Pharmachem Laboratories, Inc.
UAS Laboratories

BioExx SPECIALTY PROTEINS LTD WWW.BIOEXX.COM
High Solubility, Nutritionally Complete, High Functionality, CANOLA PROTEIN
FOLLOW US ON @NutraUSA · 1,586 followers
AUDIO & VIDEO NEWS
World's first commercial
October 2011 in pictures: SSW, CRN, and FDA
NutraJobs: People on the move Oct 2011
Front-of-pack labeling in pictures: Healthier choices at a glance or more nutritional wallpaper?

LATEST NEWS

- Neptune secures US patent for krill cardio health benefits
CRN: Ethical conduct rule change would discriminate vs trade associations
Congress asks GAO for clarity on adverse event reporting
Vitamin health halo set for brighter global glow as claim power grows
BioExx seeks partner as new boss signals change in strategy
Goji berry juice may help trim and slim waistlines: Pilot study

Free e-mail alerts

Please indicate your area of interest and receive free alerts directly to your inbox

Product Categories

- Antioxidants, carotenoids
Cosmeceuticals
Dairy-based ingredients
Dosage forms
Fibers and carbohydrates
Minerals
Nutritional lipids and oils
Phytochemicals, plant extracts
Probiotics and prebiotics
Proteins, peptides, amino acids
Soy-based ingredients
Vitamins & premixes

Health Conditions

- Bone & joint health
Cancer risk reduction
Cardiovascular health
Cognitive and mental function
Diabetes
Energy & endurance
Eye health
Gut health
Immune system
Maternal & infant health
Respiratory health
Skin health
Weight management
Women's health

Your email

Weekly / Daily Free Newsletter

- FoodNavigator.com**
Food & Beverage Development - Europe
- FoodNavigator-USA.com**
Food & Beverage Development - North America
- FoodNavigator-Asia.com**
Food, Beverage & Supplement Development - Asia Pacific
- NutraIngredients.com**
Supplements & Nutrition - Europe
- NutraIngredients-USA.com**
Supplements & Nutrition - North America
- FoodProductionDaily.com**
Food Processing & Packaging
- FoodQualityNews.com**
Food Safety & Quality Control

- DairyReporter.com**
Dairy Processing & Markets
- BeverageDaily.com**
Beverage Technology & Markets
- ConfectioneryNews.com**
Confectionery & Biscuit Processing
- BakeryAndSnacks.com**
Industrial Baking & Snacks
- MeatProcess.com**
Prepared Food and Meat Processing
- FoodManufacture.co.uk**
The Information Resource for Food and Drink Processing

Other Newsletters

- Science & Nutrition Research
- Food legislation
- Food Finance
- Innovations in Food Ingredients
- Innovations in Food Processing and Packaging
- Innovations in Food Safety & Instrumentation
- Food Industry & Consumer Trends
- Food Marketing and Retailing

Free subscription now!

RELATED SITES

ALL WILLIAM REED BUSINESS MEDIA SAS SITES

Food & Beverage: Food & Beverage Development - Europe | Food & Beverage Development - North America | Food, Beverage & Supplement Development - Asia Pacific | Food Marketing and Retailing | Food and Beverage Processing and Packaging | Food Safety & Quality Control | Industrial Baking & Snacks | Beverage Technology & Markets | Confectionery & Biscuit Processing | Dairy Processing & Markets | Prepared Food and Meat Processing **Nutrition:** Supplements & Nutrition - Europe | Supplements & Nutrition - North America **Pharmaceutical:** Pharmaceutical Technology | Contract Research, Manufacturing & Clinical Trials **Cosmetics:** Cosmetics Formulation & Packaging in North America | Cosmetics Formulation & Packaging in Europe

[About us](#) | [Site map](#) | [All sites](#) | [Recommend this Site](#) | [Advertise](#) | [Contact the Editor](#) | [Terms & Conditions](#) | [Privacy Policy](#)