# **Health & Science**

About VOA | Contact VOA News

Search

22 July 2009

Today from VOA:

Live Streams:	Latest Newscast   Africa Live   Global	Live News in 45 Langua	ages Select Language
News		eficiency Common Aroun	d Hegg report Download (MP3)
U.S.A.	World		
Africa	By Meredith Hegg Washington, D.C. 20 July 2009		Hegg report Listen (MP3)
Americas			E-mail This Article
Asia	leads to bone diseases like rick	r decades that vitamin D deficiency kets, more recently they have found	d
Europe	illnesses, including cancer, aut	nin D levels and a wide range of oth oimmune disorders and	Add a Comment  Top Story
	caradiovascular disorders.		<ul> <li>US Defense Secretar</li> </ul>
Middle East		nin D through exposure to sunlight, parts of the world have the highest	Makes Unannounced Visit to Iraq
Features		Several factors have contributed to	Related Links
Health & Science	East, Africa and Asia.	od levels among people in the Midd	Vitamin D facts (National Institutes of
	Vitamin D necessary for bo	ne strength	Health) Indian Society for
Econ & Business	-	_	Bone & Mineral
Entertainment	Healthy bones depend on vitar Indian Society for Bone and M	nin D, says Ambrish Mithal of the ineral Research.	Research International Osteoporosis
American Life	"Vitamin D is what absorbs cal	cium into our body and helps it rea	Foundation  ch World Health
News Analysis		, therefore, results in weak bones a	
Special Reports	Getting enough vitamin D sho	uld be relatively simple.	
Pronunciation Guide		O is sunshine," Mithal says. "We ma of UV rays that we get in the sunlig	
Interactive	Vitamin D deficiency comm	on, even in sunny places	
T2A Chat	_		£
My VOA Community	vitamin D deficiency. That's th International Osteoporosis Fou	est regions have the highest rates o e finding of a recent report from the indation, which reviewed research des. Mithal is a coauthor of that	
YouTube	report.		
Facebook	Mark Control	"Vitamin D deficiency is a global phenomenon. But certain parts of	
Twitter		the world, they're prone to severe vitamin D deficiency - for example South Asia, like India, or Middle	
Shows		East, like Lebanon. There have be studies from these areas which ha	
Shows by Name		shown that almost 80 percent, or	v
In Focus		maybe even more, of the urban population is significantly vitamin deficient."	D
Music Mix	Even in sunny regions of the	He points to several factors to	

explain why people who live in

sunny areas still may not get

Even in sunny regions of the

world, people can be severely

Editorials
Web Services
Podcasts
RSS News Feeds
Mobile
Webcasts

Subscribe E-

mail Newsletter

deficient in vitamin D, contributing to serious health sufficient vitamin D.

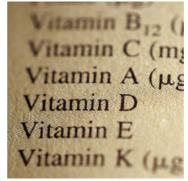
"Those who live closer to the equator are actually less prone to vitamin D deficiency, but at times this, can be overshadowed by other factors like skin pigmentation, less outdoor activity and more skin cover with clothes," Mithal says.

Vitamin D expert Michael Holick, of the Boston University Medical Center, explains why people with darker skin generally have lower levels of the nutrient than lighter-skinned people, even in the same country.

"The major reason is that their melanin, which protects their skin from excessive exposure to sunlight, also prevents them from making vitamin D," he says. "We showed that African-Americans need to be exposed three to five times longer to sunlight to be able to make the same amount as a white person."

Another coauthor of the vitamin D review, Ghada El-Hajj Fuleihan, describes how people in the Middle East can spend time outdoors without absorbing enough vitamin D.

"In these, the Middle Eastern countries, people tend to follow a very much more conservative clothing style, in a large proportion of subjects. And the other thing is that with modernization, women who do not follow the conservative clothing style use sunblock. Sunblock with sun protection factor as low as six and eight can completely block the ability of the skin to make vitamin D."



Vitamin D helps the body absorb calcium and keep bones healthy

El-Hajj Fuleihan, of the American University of Beirut Medical Center, says this may explain why women in general have lower vitamin D

## **Deficiency could be dangerous**

levels.

There is new concern about vitamin D deficiency because, as Michael Holick explains, recent medical discoveries show it may be much more dangerous than previously thought.

"What we haven't appreciated until about the past decade is that vitamin D seems to be important for reducing risk of many chronic illnesses that span anywhere from autoimmune diseases like type 1 diabetes, multiple sclerosis, rheumatoid arthritis, to infectious diseases like tuberculosis and influenza, reduces risk of heart attack, stroke and most importantly, reduces risk of deadly cancers."

## Ways to get more vitamin D

People can get more of the nutrient in their diet. In the United States and other countries, some foods are fortified with vitamin D. But Holick says that's generally not enough.

> "Children probably need a thousand units of vitamin D a day. Teenagers and adults need two thousand units of vitamin D a day to satisfy their requirement... You cannot get an adequate amount of vitamin D to satisfy your body's



spending a little more time in the sun to get an adequate supply of

requirement from your diet."

So, he and other experts like Ghada El-Hajj Fuleihan, now recommend spending a little more time in the sun.

"We are fully aware of the risk of skin cancer with sun exposure but suggest that there may be a happy compromise and that maybe the first 10 minutes or so three times a week... let the skin get some ability to make vitamin D, and then put the sunblock on."

In addition, she says, those who spend their days indoors should take a vitamin D supplement.

Although the World Health Organization has said that most people get enough vitamin D through sun exposure and diet, in light of the new research, it has commissioned its own report and may issue new recommendations.



#### Comments:

### 1. Thank you

Dear Recently, I have got my baby. Fortunately, I have read this article and I take my baby to bath sunlight everyday. In my country, the newborn have to be in dark rooms until they are 3 months and taking a newborn go to bath sunlight is a crazy action. I would like to change this situation in my country. Thank you for your article.

Submitted by: Hung (Vietnam) 07-21-2009 - 12:07:53

## 2. 25(OH)D testing.

Grassrootshealth D Action are a charity run by vitamin d scientists trying to promote awareness of the link between lower vitamin d status and chronic disease incidence. As part of a trial they are conducting you can have your 25(OH)D level checked at cost price with a simple postal test with the results being available by email in just a few days. Staying within the range 50~60ng not only allows human breast milk to flow replete with D3 but also is associated with peak muscle performance and least MS, Heart disease, Cancer Diabetes obesity incidence. We know from studies like Demonstration of UVB-induced synthesis of 1a,25-dihydroxyvitamin D3 (calcitriol) in human skin That human skin is an organ able to make the active seco steroid Calcitriol completely from the UVB action turning cholesterol to pre vitamin d through to the final active hormone. It seems to me somewhat presumptuous to suggest you know better how human evolution should have progressed and that the naturally Submitted by: Ted Hutchinson (UK) 07-21-2009 - 09:19:54

#### 3. bad life stlye contribute to vitamin D deficiency

In some countries like Saudi arabia, inspite of abundant sunshine, I think vitamin D deficiency is prevalent especially among women. May be the social factors mentioned above is the main reason, women follow conservative style but the bad life style concerning sleeping may contribute alot. Most women sleep at morning and afternoon. When they get up and feel ready to go outdoors almost evening begins. I think people here need to change their habits

inorder to be healthy. Submitted by: Umayma Bakri (Sudan-resident at Saudi arabia) 07-21-2009 - 06:27:14

er Name *
ur E-mail Address *
ur Country
ıbject
1.5555
ur Comment *
ur comment "



VOANews: News | Programs | Learning English | About VOA

Web Services: Podcasts | News Feeds | Mobile | Webcasts | Subscribe E-Newsletter

About VOANews.com: Terms of Use & Privacy Notice | Broadcasting Board of Governors | Link to Us | Site Map | FAQs |

Contact VOANews | Job Opportunities