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toxicities typically associated with hypercalcemia, but these tend to arise in people with levels higher than 100 ng/mL, and many people believe the level must be well over 150 ng/mL. "The only way I know of that people can get vitamin D that high is by overdosing on prescription vitamin D, which is supposed to be taken once a week. If someone were to make a mistake and take it once per day, they might get vitamin-D toxicity."

The findings from both studies have convinced Muhlestein that vitamin-D deficiency is worth treating, but he urges physicians to make sure they check to see what a patient's vitamin-D levels are to begin with and to adjust the dose accordingly. Individualization is essential, he noted, which is one reason he's worried about the blanket 2000-IU approach being used in VITAL.

"Effective dose varies from patient to patient, which is one of the problems with the NIH trial. No one is going to become toxic on 2000 IU per day, but there will be lots who are at the highest risk who are not going to become normalized."

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## Related links

- D is for discord: Not all studies support vitamin-D-CVD link [Prevention > Prevention; Mar 02, 2010]
- Genetic link found between vitamin D and congestive heart failure [Site Structure > Homepage; Dec 07, 2009]
- Vitamin D: A potential role in cardiovascular disease prevention
  [Lipid/Metabolic > Lipid/Metabolic; Nov 24, 2009]
- Massive vitamin-D/omega-3 trial for CVD, cancer prevention [Prevention > Prevention; Jun 29, 2009]
- Low vitamin-D levels in adolescents predict CVD risk factors [Prevention > Prevention; Mar 18, 2009]
- More evidence that vitamin-D deficiency ups mortality [*Prevention > Prevention*; Aug 11, 2008]
- Vitamin-D deficiency now associated with increased mortality [Clinical cardiology > Clinical cardiology; Jun 23, 2008]
- Further evidence supports vitamin-D-deficiency link to CHD [*Prevention > Prevention*; Jun 09, 2008]

## Your comments

Death, CVD risk de	eclines in people who "normalize" vitamin-D levels	1
# 1 of 5	March 19, 2010 12:40 (EDT)	
CJ McConnell	Vit-D, the next "niacin', ?? I am very interested in following the progress in the literature, Also a great way to nearly eliminate most statin-myalgias as well,	
# 2 of 5	March 19, 2010 01:38 (EDT)	
Wiliam Blanchet	Nice study Also, I agree with the criticism of the upcoming NIH study. If the NIH is spending tax dollars on a major study, at least they should design the study so that the outcomes can be relied upon.	
# 3 of 5	March 19, 2010 09:55 (EDT)	
Charles Sangston	ATTN: Baby Boomers ALL Baby Boomers take note:	
	"We concluded that among patients 50 years of age or older, even a moderate deficiency of vitamin D levels was associated with developing coronary artery disease, heart failure, stroke and death".	
	If you read that ask yourself did I supplement at least 3-5000 i.u. of vitamin D, daily, this winter? If you did not supplement or tan regularly you are vitamin D deficient to some extent and are thus incubating heart disease, amongst other conditions, in your own body, right this minute!	
	Everyone needs to be sure they have a circulating vitamin D level of at least 50 ng/ml, year round. Very few doctors understand this fact and they will discount the importance of this and similar findings. However the evidence is irrefutable and conclusive. Realize vitamin D has nothing in common with other nutrients or supplements. "Vitamin D" is not a vitamin at all, it is a steroid hormone. Steroids are the most powerful drugs known to fight inflammation and other serious conditions. Vitamin D reduces or eliminates inflammation in many ways.	
	To be truly healthy one must maintain healthy, natural levels of vitamin D.	
# 4 of 5	March 19, 2010 01:01 (EDT)	

Precursors of Cardiovascular Disease and Emerging Strategies With Statins

Managing Dysglycemia in Cardiovascular Disease: Preventing Future Events

Michael Cobble, M.D.	ACC posters Dr Muhlestein and company at Intermtn do great research work. Going over their full posters was very interesting and of course visiting with them in Atlanta is always enlightening. I think more research in this are is warrented. If people do have low D, we treat for MSK and cognitive benefits. ie osteomalacia, osteop, ricketts. D is simple and easy, likely not a panacea like most things but doesn't appear to be dangerous
# 5 of 5	March 22, 2010 10: 19 (EDT)
Joseph Heissler	VITAL information I find it hard to believe the VITAL steering committee has not planned to bank blood samples for post-hoc analyses (Vit-D levels, and other biomarkers). It not, it is not too late to do so.
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