

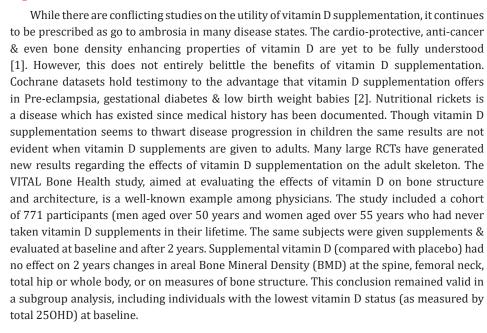


The Sunny Side of Vitamin D

Marquess Raj*

Department of Pathology & Lab Medicine Practice, India

Opinion



New technology allows the direct measurement of free (non-protein-bound) 250HD as an alternative strategy to define vitamin D status. In participants of the VITAL trial with the lowest directly measured free 250HD concentrations, vitamin D supplementation generated a slight increase in spine areal BMD (0.75% in the vitamin D group versus 0% in the placebo group; P=0.043) and attenuation in loss of total hip areal BMD (-0.42% in the vitamin D group versus -0.98% in the placebo group; P=0.044). Clinical significance & implication of this marginal increase is debatable [3]. Vitamin D is a nutrient which plays a pivotal role in homeostasis beyond the musculoskeletal system. Genetic mechanisms & genes responsible for Vitamin D synthesis are being extensively studied & estimation of 250HD levels is becoming ever increasingly common. It could be hypothesized that genetic mechanisms can determine the bio-availability of vitamin D. A single yardstick such as estimation of 250HD levels cannot be applied to determine candidates for vitamin D supplementation. With advanced tools such as next generation sequencing & microarrays genetic such genetic mechanisms are likely to be studied with more rigor & our understanding of the sunshine vitamin is bound to grow in the near future.

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*Corresponding author: Marquess Raj, Department of Pathology & Lab Medicine Practice, Apollo Diagnostics, India

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