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Determining Normal Range of Vitamin D Based on PTH and Bone Mineral Density Changes

B Larijani, Zh Maghbooli, AA Keshtkar, A Soltani, P Ebrahimpour, S Mortaz hejri

Abstract:

PTH is the most important factor which control calcium homeostasis in the body in this study we tried to determine the normal range of PTH and Vitamin D with examining the relation between PTH and bone density and Vitamin D on the base of bones biological changes. Our subjects were, 20 to 69 years-old men and women of Tehran. Serum volume of PTH and vitamin D in different decades of life had significant difference. Range of serum PTH in osteoporotic persons was 29.7-38 pgr/lit (95% SD). This range for non osteoporotic persons was 24.33-30.2 pgr/lit. In this study ranges below 18 nmol/lit was considered as severe vitamin D deficiency and 23-36nmol/lit as mild deficiency. So the volume more than 36 nmol/lit volumes was normal range of vitamin D. it seems that biological changes of bones associate more with ranges of vitamin D which causes significant changes in PTH.

Keywords:

[Vit D](#) . [Normal ranges](#)

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