

Website:
Quick Response code

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Source of Support: Nil, Conflict of Interest: None

and was reviewed. Individuals having significant cardiac, hepatic, oncologic, gastric disease, or disorders affecting bone mineral metabolism including hyperthyroidism, hyperparathyroidism, osteomalacia, or Paget's disease were excluded. Subjects using medications affecting either vitamin D or bone were also excluded. The assay principle combines an enzyme immunoassay competition method with a final fluorescent detection. All the assay steps are performed automatically by the instrument. The VIDAS 25 OH Vitamin D Total measurement range extends from 8.1 ng/ml up to 126.0 ng/ml.25(OH) vitamin D deficiency was defined as 25(OH) vitamin D< 20 ng/ml, insufficiency as 25(OH) vitamin D between 20 and 29 ng/ml and 25(OH) vitamin D sufficiency as 30-100 ng/ml. Potential toxicity>100 ng/ml.

RESULTS_

A total of 540 healthy individuals were included in this study. There were 300 females and 240 males.365 healthy adults were found to be Vitamin D deficient. Prevalence of Vitamin D deficiency was found to be 67.5%. Maximum number of the subjects belonged to the age group of 41–60 years. 225 females and 140 males were found to be Vitamin D deficient, prevalence being 75% in female and 58.3% in male as shown as in Table 1.

Table 1. Age and sex distribution of subjects

Age	Female	Male	5.
11-20 Years	15	12	
21-30 Years	34	20	-6.
31-40 Years	46	32	7.
41-50 Years	58	32 TERNATIONIL 40	8
51-60 Years	42	12 ************************************	
61-70 Years	22	10	OF BIOMEDICAL AN
71-80 Years	06	05	ABCR
81-90 Years	02	04	10
Total	225	140	
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DISCUSSION

Many previous studies of vitamin D deficiency have been conducted in populations thought to be at unusually high risk.^[7] Fewer studies have examined rates of deficiency in apparently healthy individuals. 25(OH) vitamin D deficiency was observed in 67.5 % of the subject population in our study which was in accordance to the study done by Kirtikar Shukla et al where Vitamin D deficiency was found in 93% of cases.^[8] In our study, prevalence of Vitamin D deficiency was higher in females than in males which was in accordance with the study done by Looer AC et al.^[9] The 2001 to 2004 National Health and Nutrition Examination survey however showed no difference in 25(OH)D levels by sex.^[10]

CONCLUSION

Undiagnosed vitamin D deficiency is not uncommon and 25hydroxy vitamin D is the barometer for vitamin D status. Our data demonstrate a high prevalence of vitamin D deficiency in otherwise healthy individuals.

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