Cut off Value for Parathormone Level in Children with Vitamin D Deficiency

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\text { مجله انتشار: بين المللى كودكان, دوره 10, شماره } 11 \text { (سال: 1401) }
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خلاصه مقاله:
Background: When serum level of ra -hydroxy vitamin $\mathrm{D}[\mathrm{ra}(\mathrm{OH}) \mathrm{D}]$ decreases, intact Parathormone (iPTH) level increases compensatory. This study aimed to determine the cut off value for iPTH level in $\zeta-1 \uparrow$-year-old children with vitamin $D$ (VD) deficiency. Methods: This cross-sectional study was performed on $\backslash \Delta r$ children aged $r-1 \uparrow$ years old who referred to the endocrinology clinic of Amirkola Children's Hospital for growth assessment. Census sampling was conducted from January $r \cdot 1 \varepsilon$ to June $r \cdot 1 \vee$ according to the eligibility criteria including height and weight above the percentile of $r \%$ of growth charts and normal serum of calcium level ( $>\wedge . \Delta \mathrm{mg} / \mathrm{dl}$ ). Laboratory parameters such as serum calcium, $\mathrm{r} \Delta(\mathrm{OH}) \mathrm{D}$ and iPTH levels were assessed. The children were divided into three groups based on serum levels of $\mathrm{r} \Delta(\mathrm{OH}) \mathrm{D}$ as mild, moderate and severe VD deficiency. The Receiver Operating Characteristic (ROC) curve was used to analyze the cut-off point of iPTH and $\mathrm{r} \Delta(\mathrm{OH}) \mathrm{D}$. P-Value $<\cdots \Delta$ was considered significant. Results : The mean VD
 there was a possibility of moderate to severe VD deficiency. In the severe deficiency group, at the iPTH serum level of $\mathrm{rr} . \mathrm{D} \mathrm{pg} / \mathrm{ml}$ and above, with a sensitivity of $V \wedge .9 \%$, there was a possibility of severe VD deficiency. The cut-off point of $\mathrm{ra}(\mathrm{OH}) \mathrm{D}$ and iPTH , at the serum VD level $\leq 1 \cdot \mathrm{ng} / \mathrm{ml}$ were determined. Conclusions: The results of the present study showed that the cut-off value for iPTH in children with VD deficiency is serum level of
. $\quad \mathrm{OOHD} \leq 1 \cdot \mathrm{ng} / \mathrm{ml}$
كلمات كليدى:
Children, Parathormone, Vitamin D deficiency
لينکى ثابت مقاله در پايگاه سيويليكا:
https://civilica.com/doc/1563994


