



## The possible association of VDR polymorphisms to the response of asthmatic children to Vitamin D supplementation

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### **ABSTRACT**

The actions of Vit D are mainly mediated through Vit D receptors (VDR). Different trials studied the possible association between the VDR genetic variants, for e.g. ApaI and TaqI and asthmatic populations in different ethnic groups. During this study, patients were given a daily oral 600 IU of Vit D in addition to their inhaled corticosteroids for 3 months. 64% of the population showed a polymorphism of ApaI and 66.3% of TaqI including both homozygous and heterozygous polymorphisms. Based upon the clinical asthma control level improvement, the patients were categorized as responders (Rs); 62.1% and Non Responders (NRs); 37.9%. The genotypic distribution of both polymorphisms was significantly different between Rs and NRs. Low Vit D mean serum level was detected at the beginning of the study and was significantly increased after 3 months of Vit D supplementation. Pulmonary function tests (PFTs) results were also significantly ameliorated. While the Rs of different genotypic groups performed significantly better in the PFTs, there was no significant difference between the Vit D serum level between the Rs and the NRs

### **Biography**

Nabil MHAMMED EL BAHIE is a Professor of clinical pharmacology at the Faculty of Medicine Alexandria University, Egypt. He holds MB ChB and MSc (Alexandria) and PhD (Cardiff, UK) in clinical pharmacology.



1. Susceptibility patterns of Escherichia coli: Prevalence of multidrug-resistant isolates and extended spectrum beta-Lactamase phenotype
2. Morphological pattern and frequency of thyroid tumors
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