International Research Journal of Pharmacy and Pharmacology
ISSN 2251-0176
2020
Vol.8 No.6

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

Nabil Mohamed ElBahie
Alexandria University, Egypt.

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 before and after the intervention for the whole population. Daily low dose of Vit D supplementation was beneficial to the asthmatic children as 62.1% of the study population showed a favorable outcome while the role of these specific polymorphisms is not clear yet.

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. His main current activity includes teaching clinical pharmacology to under and post graduate
medical students, consultation in therapeutics in addition to research. He used to work as a professor in clinical pharmacology in to Beirut Arab University, Lebanon and The Prince Sattam Bin Abulaziz University, Saudi Arabia; He has published more than 30 papers in reputed journals and supervised 9 Ph.D. and MSc theses.

Speaker Publications:

1.Nabil Mohamed ElBahie (2017) Direct Acting Anti-hepatitis C Virus Drugs: Clinical Pharmacology and Future Direction . Journal of Translational Internal Medicine 5(1).
2.Nabil Mohamed ElBahie (2019) The effect of vitamin D supplement in asthmatic children: implication of interferon gamm. Journals and Book on Medicine 58(3):85-90.
3.Nabil Mohamed ElBahie (2017) Direct acting anti-hepatitis C virus drugs: Clinical pharmacology and future direction. Journal of Translational Internal Medicine 58(3):85-90.

33rd World Congress on Pharmacology ; Webinar- August 26-27, 2020.

Abstract Citation:

Nabil Mohamed ElBahie, The possible association of VDR polymorphisms to the response of asthmatic children to Vitamin D supplementation, Pharmacology 2020, 33rd World Congress on Pharmacology; Webinar- August 26-27, 2020.

(https://pharmacology.pharmaceuticalconferences.com/abstract/2020/the-possible-association-of-vdr-polymorphisms-to-the-response-of-asthmatic-children-to-vitamin-d-supplementation)