

Association between Serum Vitamin D Deficiency and Chronic Obstructive Pulmonary Disease Exacerbation

Sir,

In the April–June 2022 issue of the *Indian Journal Respiratory Care*, Ebrahimzadeh *et al.*^[1] studied, among a cohort of Iranian patients with chronic obstructive pulmonary disease (COPD), the correlation between serum Vitamin D (VD) deficiency and COPD exacerbation. They found that serum VD deficiency was correlated with increased COPD exacerbation and poor clinical outcomes. Accordingly, they recommended that VD supplementation be considered to decrease the risk of COPD exacerbation.^[1] I presume that the following limitation could question the study results and recommendation. It is noteworthy that VD deficiency is a noticeable phenomenon in Iran as the available data pointed to the VD deficiency prevalence of 43.3% among adults (39% for males and 44.3% for females).^[2] Therefore, I presume that it would be justified for Ebrahimzadeh *et al.*^[1] to carry out a case–control study recruiting the cases group and age- and sex-matched control group to delineate the correlation between serum VD deficiency and COPD exacerbation.

Financial support and sponsorship

Nil

Conflicts of interest

There are no conflicts of interest.

Mahmood Dahir Al-Mendalawi

Department of Paediatrics, Al-Kindy College of Medicine, University of Baghdad, Baghdad, Iraq

Address for correspondence: Prof. Mahmood Dahir Al-Mendalawi, P.O. Box 55302, Baghdad Post Office, Baghdad, Iraq.
E-mail: mdalmendalawi@yahoo.com

REFERENCES

1. Ebrahimzadeh F, Bahrami M, Rezaeetalab F, Asl FT, Mirvahabi MS, Kafa Z, *et al.* The association between serum Vitamin D deficiency and chronic obstructive pulmonary disease exacerbation. *Indian J Respir Care* 2022;11:140-4.
2. Ramezani M, Sadeghi M. The prevalence of Vitamin D deficiency in adults in Kermanshah, Western Iran. *Iran J Public Health* 2018;47:299-300.

This is an open access journal, and articles are distributed under the terms of the Creative Commons Attribution-NonCommercial-ShareAlike 4.0 License, which allows others to remix, tweak, and build upon the work non-commercially, as long as appropriate credit is given and the new creations are licensed under the identical terms.

Access this article online

Quick Response Code:



Website:
www.ijrc.in

DOI:
10.4103/ijrc.ijrc_79_22

How to cite this article: Al-Mendalawi MD. Association between serum vitamin D deficiency and chronic obstructive pulmonary disease exacerbation. *Indian J Respir Care* 2022;11:285.

Received: 09-04-2022 **Revised:** 30-04-2022

Accepted: 16-05-2022 **Published:** 28-07-2022

© 2022 Indian Journal of Respiratory Care | Published by Wolters Kluwer - Medknow