

MEETING ABSTRACT

Open Access

# Vitamin D serum levels in allergic rhinitis

Sukran Kose<sup>1\*</sup>, Süheyla Serin Senger<sup>1</sup>, Arzu Didem Yalcin<sup>2</sup>, Basak Gol Serin<sup>1</sup>, Gulsun Cavdar<sup>1</sup>

From 3rd WAO International Scientific Conference (WISC) 2014  
Rio de Janeiro, Brazil. 6-9 December 2014

## Background

Recently it has been suggested that, the worldwide increase in allergic diseases such as asthma, allergic rhinitis and food allergy is associated with low serum vitamin D levels. The aim of this study was to measure serum vitamin D levels in patients with allergic rhinitis.

## Methods

Serum vitamin D (25-hydroxyvitamin D), calcium, phosphorus, alkaline phosphatase and parathyroid hormone levels were assessed in 200 patients with allergic rhinitis diagnosed clinically and the results of skin prick tests for aeroallergens. Subjects with serum containing less than 20 ng/ml vitamin D were deemed deficient.

## Results

The mean vitamin D levels in the study group was found 14,7 ng/ml and 68% of patients had vitamin D deficiency.

## Conclusions

The present study showed that the majority of allergic rhinitis patients had vitamin D deficiency. Therefore measuring vitamin D serum levels could be helpful in the routine assessment of patients with allergic rhinitis.

## Authors' details

<sup>1</sup>Tepecik Training and Research Hospital, Turkey. <sup>2</sup>Antalya Training and Research Hospital, Turkey.

Published: 8 April 2015

doi:10.1186/1939-4551-8-S1-A67

Cite this article as: Kose et al.: Vitamin D serum levels in allergic rhinitis. *World Allergy Organization Journal* 2015 **8**(Suppl 1):A67.

Submit your next manuscript to BioMed Central and take full advantage of:

- Convenient online submission
- Thorough peer review
- No space constraints or color figure charges
- Immediate publication on acceptance
- Inclusion in PubMed, CAS, Scopus and Google Scholar
- Research which is freely available for redistribution

Submit your manuscript at  
[www.biomedcentral.com/submit](http://www.biomedcentral.com/submit)



<sup>1</sup>Tepecik Training and Research Hospital, Turkey  
Full list of author information is available at the end of the article