

Accepted Manuscript

Effect of vitamin D supplementation on blood pressure parameters in patients with vitamin D deficiency: a systematic review and meta-analysis

Liqin Shu, Kun Huang

PII: S1933-1711(18)30118-9

DOI: [10.1016/j.jash.2018.04.009](https://doi.org/10.1016/j.jash.2018.04.009)

Reference: JASH 1160

To appear in: *Journal of the American Society of Hypertension*

Received Date: 13 March 2018

Revised Date: 20 April 2018

Accepted Date: 25 April 2018

Please cite this article as: Shu L, Huang K, Effect of vitamin D supplementation on blood pressure parameters in patients with vitamin D deficiency: a systematic review and meta-analysis, *Journal of the American Society of Hypertension* (2018), doi: 10.1016/j.jash.2018.04.009.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Effect of vitamin D supplementation on blood pressure parameters in patients with vitamin D deficiency: a systematic review and meta-analysis

Liqin Shu^{1,2} and Kun Huang^{1,2*}

1.School of Public Health, Anhui Medical University, No. 81 Meishan Road, Hefei 230032, Anhui, China.

2. Anhui Provincial Key Laboratory of Population Health and Aristogenics.

*Correspondence to: Kun Huang, School of Public Health, Anhui Medical University, No. 81 Meishan Road, Hefei 230032, Anhui, China

E-mail: wuweihk8028@163.com

Abstract

Objective

Evidence suggests that supplementation of vitamin D can not decrease blood pressure in normal populations. However, in randomized controlled trials (RCTs) with vitamin D deficient participants (defined as baseline serum 25(OH) D levels < 30ng/ml or 50nmol/L), this effect is inconsistent and under debate. Thus, We performed this systematic review and meta-analysis to evaluate whether vitamin D supplementation could affect blood pressure parameters in vitamin D deficient subjects.

Methods The PubMed, Web of Science, Science Direct, and Cochrane library databases were searched. Extracted data were pooled as weighted mean differences (WMDs) with 95% confidence intervals (CIs) to evaluate the effects. Subgroup analysis was further conducted according to the characteristics of included studies.

Download English Version:

<https://daneshyari.com/en/article/8667424>

Download Persian Version:

<https://daneshyari.com/article/8667424>

[Daneshyari.com](https://daneshyari.com)