## Comment on "The impact of visceral fat and levels of vitamin D on coronary artery calcification"

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Dear Editor,

We were glad to read the interesting article entitled "The impact of visceral fat and levels of vitamin D on coronary artery calcification" written by the Rodrigues Isa Galvão¹ and his study team. The authors found that excess visceral fat was associated with subclinical atherosclerosis, regardless of other risk factors for cardiovascular disease, and that serum levels of 25-hydroxyvitamin D3 were not associated with coronary artery calcification in its early stages. Although the findings of their study offer innovative ideas and are supported by useful arguments, we consider some issues should be further discussed.

## **REFERENCES**

 Rodrigues IG, Pinho CPS, Sobral Filho D, Leao APD, Oliveira MCM, Barbosa GP, et al. The impact of visceral fat and levels of vitamin D on coronary artery calcification. Rev Assoc Med Bras (1992). 2021;67(1):88-93. https://doi.org/10.1590/1806-9282.67.01.20200388 In this study, logistic regression analysis was conducted to assess for confounding factor such as visceral adipose tissue, age, and hypertension. Apart from this, smoking<sup>2</sup> and drinking<sup>3</sup> are considered high-risk factors of coronary artery calcification. In addition, tobacco nicotine and alcohol can also cause significant damage in coronary artery. Therefore, smoking and drinking should be treated as confounding variables. The age of the sample ranges from 43.5 to 68.3 years, which contains a large span. It is found that there is a certain connection between age and coronary artery calcification. Thus, it is a good idea to shorten the age span. Moreover, we cannot find references about VRT, CAD, and TAV in the whole article. We recommend that they can be explained, but if they are misspelled, they can be corrected.

## **AUTHORS' CONTRIBUTIONS**

**JS:** Writing – original draft. **WS, LH:** Conceptualization, Writing – review & editing.

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- 3. Pletcher MJ, Varosy P, Kiefe CI, Lewis CE, Sidney S, Hulley SB. Alcohol consumption, bingedrinking, and early coronary calcification: findings from the Coronary Artery Risk Development in Young Adults (CARDIA) Study. Am J Epidemiol. 2005;161(5):423-33. https://doi.org/10.1093/aje/kwi062

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