Reviewer's report

Title: Differences and Associations of Metabolic and Vitamin D Status among Patients with and without Sub-clinical Hypothyroid Dysfunction

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Reviewer: Vassiliki Syriou

Reviewer's report:

Dear authors,

The concept of this preliminary study is nice and useful.

I think this is a well written acceptable article, with limited interest, because of the reasons below.

1) minor correct : table 1,column 2, controls (replace control)

2) I think that vitamin D is rather a marker of good health and not the cause of everything bad ....

3) I prefer fT4 and no fT3, to evaluate euthyroid status for many reasons ( assay method, euthyroid sick syndrome etc ), in your study fT4 is similar and TSH has a mild difference between groups.

4) Hypercholesterolemia rather than high triglycerides is more prevalent in hypothyroids, in present study elevated levels of Tg in case group is probably due to obesity, or to history of diabetes, IFG, or IGT? ( does not mentioned )

5) I dont well understand the high vit D with low Ca ( malabsorption, resistance due to GLs? ) Finally i think that is better for the the power of your study to calculate the GFR

Level of interest: An article of limited interest

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

'I declare that I have no competing interests'