Reviewer's report

Title: Association between lipids profile and thyroid parameters in euthyroid diabetic subjects: A cross-sectional study

Version: 3 Date: 24 November 2014

Reviewer: Altan Onat

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The manuscript has been improved considerably. But much more clarity is required in presenting and interpreting main findings. The salient finding is that, although total (and LDL-) cholesterol levels were similar in diabetic males, regardless of dichotomized TSH concentrations, cholesterol levels were significantly lower in diabetic females in the low-TSH euthyroid group and in the multivariable regression analysis.

The discussion should clearly separate relations in the general population from those among diabetic people since diabetes confounds most relationships observed among apparently healthy subjects. Lower TSH in diabetic women associated with lower cholesterol can well be attributed to two phenomena: a) Lower total (and LDL-) cholesterol levels commonly precede autoimmune-initiated processes –be it oxidatively-damaged TSH or rheumatoid arthritis (Myasoedova E, et al. Ann Rheum Dis. 2010; 69:310-4) or diabetes (Onat A. Expert Rev Cardiovasc Ther 2014;12:667); b) TSH incurring epitope damage escapes immunoassay and is measured as “lower”.

In Table 2, correction is needed regarding data for males which have been designated as females.

Numerous linguistic errors still need to be corrected.

Level of interest: An article of importance in its field

Quality of written English: Not suitable for publication unless extensively edited

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