

# Review of: "Glycemic Control Is Associated With Lipid Profile and Atherogenic Index of Plasma in Type 2 Diabetes Mellitus"

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Potential competing interests: No potential competing interests to declare.

The manuscript is concise and well-written. In the method section, the author used ANCOVA and ANOVA to compare the mean values of blood lipids and AIP. Please ensure the assumptions of the tests are met (Normality, Linearity).

In Table 1, it would be great if the author presented more demographic and baseline data, such as race/ethnicity and medication/comorbidity. Furthermore, Table 2: The adjusted analysis only adjusted for age and BMI. However, the findings of this study will be more meaningful when adjusted for more potential confounders like comorbidities, smoking status, and medication use, as the author mentioned in the discussion section.

The author's acknowledgment of the study's limitations within the discussion is commendable, highlighting concerns such as the cross-sectional study design and the homogeneity of the sample population, which is exclusively male.

Overall, the clarity and conciseness of the study are commendable. Nonetheless, to substantiate the conclusions more robustly, a more comprehensive study design, enhanced data visualization (including figures to illustrate the results), and a broader dataset are advisable. These enhancements would significantly strengthen the manuscript's conclusions.