Author’s response to reviews

Title: Evaluation of alterations in serum immunoglobulin concentrations in components of metabolic syndrome, obesity, diabetes, and dyslipidemia

Authors:

Dee Lin (dee.lin@rutgers.edu)

Mary Barna Bridgeman (mary.bridgeman@pharmacy.rutgers.edu)

Luigi Brunetti (brunetti@pharmacy.rutgers.edu)

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We are thankful for the reviewer comments. Please find our responses below.

Comment: Please explain what is meant by adjusted mean values - associations could be adjusted for potential confounders but it is not clear how a group mean could be changed after adjustment for variables such as age and race.

Response: We constructed a GLM model as described in the statistical analysis section. This model controlled for multiple factors including both categorical and continuous covariates. We then calculated the Least Square Means accounting for the factors entered into the model. For consistency and accuracy, we have changed adjusted to Least Square Means throughout the manuscript and added some verbiage in the statistics section. Tables have been updated as well.

Comment: Abstract: please change the conclusion based on your main result i.e. observation of altered IgG levels.

Response: Thank you for pointing this out. We have made the change.

Comment: Conclusions: I believe confirmation of the results is more relevant to be done in a cohort rather than a randomized controlled trial. The association first needs to be substantiated.

Response: We have adjusted the conclusion accordingly.