

Review of: "Evaluating the Impact of Nutritional and Socioeconomic Factors on Cognitive and Academic Performance in age 6-13 years"

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Potential competing interests: No potential competing interests to declare.

Thank you, Qeios, for inviting me to review this manuscript.

The following are some comments and advice for consideration by the author, emphasizing the methodology used:

The author needs to explain how she obtained 225 subjects of study, both in an urban and a rural area; what kind of sampling method was employed; whether proportionality was considered in deciding how many subjects were drawn from urban and rural areas.

A sub-heading for FFQ in the Materials and Methods section is needed to briefly explain the tools. Did the author develop her own FFQ or use a prior validated FFQ by other authors?

There should be more detail on the Annual Status of Education Report (ASER) method by which the author assessed the cognitive and academic performance of the subjects of study. A sub-heading on the ASER method is advised, especially to clarify whether it is a valid tool for assessing cognitive ability in addition to its intended use for basic reading and arithmetic assessment based on school grade for students.

Explanation on some ordinal and categorical variables such as income level, servings of food groups, and nutritional status is needed to know how they were categorized and defined.

Statistical procedures used should be explained thoroughly to make it easier for readers to understand the inference process and interpretation. I found it difficult to understand how - for example - Figures 1, 2, 3 may show the association as the author would like to exert. Reworking the statistical procedures and perhaps consultation with statisticians are advised.

