

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.

Review of the Paper: "Evaluating the Impact of Nutritional and Socioeconomic Factors on Cognitive and Academic Performance in Children Aged 6-13 Years"

The paper addresses an important and interesting topic, focusing on the impact of nutritional and socioeconomic factors on cognitive and academic performance among children aged 6-13 years in Pakistan. However, there are several areas that need significant improvement before the paper can be considered for publication.

1. Novelty of Information:

While the topic is relevant, the paper does not provide novel insights or findings. It is essential to highlight how this study contributes to the existing body of knowledge and what new information it brings to the field.

2. Language and Clarity:

The use of standardized English language is crucial for the clarity and understanding of the paper. Avoiding dialects and colloquial terms, such as "2 lac deaths," will make the paper more accessible to a broader audience.

3. Sampling Methodology:

The paper explores both public and private school-going children in urban and rural areas of Faisalabad. However, the sampling methodology is not adequately explained or stratified. The sample size is not justified. A clear explanation of the sampling process and stratification criteria is necessary to ensure the validity and reliability of the findings.

4. Quality of Information:

The quality of information obtained from children is debatable. It is important to provide details on how the data was collected and the measures taken to ensure its accuracy and reliability.

5. Socioeconomic Context:

The paper could benefit from a clearer definition of parent income levels, providing a more detailed socioeconomic context. Additionally, further information on the differences between children in private versus public schools could enhance the understanding of household income levels and their impact on cognitive and academic performance.

6. Statistical Analysis:

The statistical analysis presented in the paper has several issues that need to be addressed:

- Table 1: The data in Table 1 need to be more consistent, particularly in the third column. The meaning of the numbers in parentheses needs to be clarified, and the percentages for Mother's education do not add up to 100%. A thorough review and correction of these data is necessary.
- Table 2: The odds ratio (OR) and the 95% confidence interval (CI) presented in Table 2 are difficult to interpret. The OR should clearly show the reference category, and the value should lie within the confidence interval limits. Ensuring that the statistical analysis is accurate and clearly presented is crucial for the paper's credibility.

In conclusion, while the paper addresses a significant topic, substantial revisions are required to improve its clarity, methodology, and statistical analysis. Addressing these issues will enhance the overall quality and impact of the study, making it more suitable for publication.