

Review of: "Acceptance of Childhood Rotavirus Vaccine Among Mothers at The Point of Rotavirus Vaccine Introduction: A case study from Awka Anambra State Nigeria"

Mahmudur Rahman

Potential competing interests: No potential competing interests to declare.

Acceptance of Childhood Rotavirus Vaccine Among Mothers at The Point of Rotavirus Vaccine Introduction: A case study from Awka Anambra State Nigeria

Reviewer: Professor Dr. Mahmudur Rahman, Country Director, EMPHNET, Bangladesh

Reviewer's Comments:

Title:

- Data were collected from childbearing mothers attending clinics of Chukwuemeka Odumegwu Ojukwu University Teaching Hospital, not only at the point of Rotavirus vaccination. Therefore, the title needs to be revised accordingly to reflect the actual situation.

Abstract:

- Better to include the definition of "acceptance of childhood rotavirus vaccine."

Introduction:

- Studies on knowledge and attitude on rotavirus vaccine need to be added, as this study mostly focused on these.
- It would be preferable to include studies on the modes of transmission of rotavirus, which justifies the importance of the rotavirus vaccine in spite of improvement in sanitary conditions.

Materials and Methods:

- *Study site:*
 - This section should include from which departments data were collected. What has been mentioned is not appropriate.
- *Sample size calculation:*
 - Response rate to be included here. Those who were unwilling to participate should be considered as non-

responders. In the results section, it has been mentioned that the response rate is 100%, which is very unusual in a natural setting.

- *Data tool and data collection:*
 - How knowledge was assessed needs to be elaborated, i.e., what indicators were used to assess knowledge. It would also be necessary to mention how the rating of knowledge was done.
 - Indicators required for “acceptance of childhood rotavirus vaccine”
- *Determinants of socio-economic status of participants:*
 - Educational status has been shown in three categories where the third category has been termed as “Tertiary” level of education (>13yrs of schooling). Most of the respondents (about 77%) are falling in this category. “Higher Secondary” could be a category for better understanding.

Results

- *Participants Demographics:*
 - US\$ needs to be mentioned along with Naira
 - Operational definition required for “Fully Immunized”
- *Knowledge of Rotavirus among the respondents:*
 - Only hearing about Rotavirus cannot be taken as knowledge of Rotavirus. Indicators setting would be necessary. If the responses against each question were yes/no, then it would be biased. Explanation required of how the questions were posed.
 - 2nd Para: Mentioned that “Mothers with tertiary education were 3 times likely to have good knowledge”. Operational definition of “Good Knowledge” required.
- *Attitude towards Vaccines Generally:*
 - Categorization of ‘attitude’ needs to be provided under Methods and Materials section.
 - 4th line: Mentioned ‘Traditional Rulers’. I presume this will be ‘traditional healers’
 - Line 10: What is meant by ‘general immunization status’. Needs clarification.

Discussion:

- While comparing with other studies, discussing methodological differences would be desirable.
- Inclusion of methodological limitation(s) is desirable.

Final Comment: Weak study with methodological lapses

