Reviewer's report

Title: Rubella seroprevalence among primary and pre- primary school pupils at Moi's Bridge location, Uasin Gishu District, Kenya.

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Reviewer: Cinzia A Germinario

Reviewer's report:

The work analyses the antibody level against the rubella in a group with age ranging from 4 to 20 years. The manuscript is interesting and it could offer a potential contribute to the literature.

Before this article can be considered for publication the authors need to specifically discuss:

1. Epidemiological pattern of rubella. In introduction section there are some information about rubella general characteristics and CSR, but there are no information about epidemiological pattern of rubella, as in developed countries, that improved vaccination programs, as in countries with limited resources. More recent evidences about rubella epidemiology, published in international scientific journal, must be included in references.

2. WHO immunisation strategies against rubella are not cited in the text. The authors must insert references of WHO measles and rubella elimination plan actions and results.

3. In introduction section authors write “High prevalence among children is also indicative of low susceptibility in adulthood”. They must insert references about this statement.

4. The inclusion of GMT of antibody against rubella virus correlated with age would be enhance this paper. Figures 1-2 are not totally clear and, in my opinion, could be replaced by Figures illustrating the GMT (line) and percentage of seroprotection (bars).

5. “Univariate and multivariate analyses” paragraph from “Several potential...” to “independently to the association” must inserted in Material and methods section.

6. Statement “A proportion of the female population (11%) was found to be seronegative and this is evidence of risk of CRS in the study population” and data showed in Figure 2 could be inserted in Results section.

7. Statement “Increasing age was significantly associated with rubella seropositivity and this could be attributed to virus transmission going on within the population uninterrupted in the absence of vaccination” is not supported by statistical test results (chi-square for trend).

Level of interest: An article of importance in its field
Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:
I declare that I have no competing interests