Reviewer's report

Title: Evaluation of Computerized Health Management Information System for Primary Health Care in rural India

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Reviewer: Esther Hing

Reviewer's report:

1. Although revised, the manuscript “Evaluation of Computerized Health Management Information System for Primary Health Care in rural India” still does not follow the RATS guideline for qualitative research. For example, Description of HMIS under the “Results and discussion” section should be moved to the “Methods” section. According to the abstract, the computerized management information system was evaluated by comparing interview responses of workers using the computerized and manual systems, as well as by cost comparisons. Only these results should be in the results section. Some of the details of the computerized HMIS are excessive and could be cut back to the minimal description of the system at the time it was being compared to the manual system.

2. The sample of workers interviewed is described as a convenience sample in “Methodology of data collection to compare manual and computerized HMIS”. The sample appears to be too small for Central Limit Theorem conditions to apply. However, not enough information is presented on the universe of workers among these health centers to determine if the convenience sample is adequate. Were there only 11 workers in AIIMS health centers and 11 workers in non-AIIMS health center?

3. Under the Description of HMIS, Figure 1 is cited but not shown. The citation should be deleted.

4. The results section discusses Tables 3 and 5, but not Table 4. Table 4 should either be discussed or deleted.

5. Table 3 numeric results are inconsistently reported. Record keeping time is reported as an average with a range, while reported completeness of birth/death registration, updating records after annual census, and time preparing monthly reports are reported only as ranges. No statistical tests were performed testing for differences between reported measures.

6. The bottom row of Table 3 for the Non-computerized system column should have “NA” instead of its current entries.

Minor Compulsory Revisions

1. Throughout the manuscript, acronyms are used without a first defining the acronym. For example, AIIMS is mentioned in the abstract without definition, but is defined under “Background of the project area”. Although spelled out in this
section, the acronym is not included in parentheses. All acronyms should be first spelled out before repeated use. ANC is never defined in the manuscript.

2. The manuscript includes a number of grammatical/spelling errors. For example, under “Output generation”, there is a sentence with no punctuation. Under “Database Structure”, “duplicity” should be replaced with “duplication”. In the same section, the Archive table bullet should replace “is” with “are” since data are plural. Under “Application”, “updation” is not a word; it could be replaced with “updates” or “corrections”.

**Level of interest:** An article whose findings are important to those with closely related research interests

**Quality of written English:** Needs some language corrections before being published

**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.