Reviewer's report

Title: Determinants of Performance of Supplemental Immunization Activities for Polio Eradication in Uttar Pradesh, India: Social Mobilization Activities of the Social Mobilization Network (SM Net) and Core Group Polio Project (CGPP)

Version: 1 Date: 19 January 2012

Reviewer: Lora Shimp

Reviewer's report:

Minor Essential Revisions

1) Provide a description of the SM Net at the beginning of the document (e.g. perhaps as a footnote to the abstract).

2) Under the first sentence in the abstract conclusions, clarify what is meant by "vaccination outcomes". Does this refer to coverage per round?

3) In the Background section, some additional details would be useful for readers who are not familiar with the context:
   - describe what is meant by "high immunity thresholds"
   - provide background information on an SIA (frequency, scope, etc)
   - describe the CORE group target area (e.g. footnote or a map)
   - note contractual arrangements for CMCs (e.g. stipends, payment criteria)
   - define "acute flaccid paralysis" for unfamiliar readers
   - note that X to P conversion is measured during each round of the SIA
   - under Bullawa Tollies, first sentence - is "increasing OPV coverage referring to routine immunization? Note target age group.

4) Under the "statistical analysis" section, explain whether comparable data on activities in non-CMC areas were available.

5) Conduct an overall read-through of the document, as there are some small grammatical errors (e.g. "the" used when it should be "they". Commas needed.)

Discretionary Revisions

6) It would be helpful to provide a few sentences of the potential explanation for the negative correlation between the number of rallies and booth coverage. This is noted as "detrimental" but is not further analyzed.

7) The last sentence under "Determinants of X to P Conversation" and the last sentence under "Results" are the same and therefore seem redundant.

8) In the second paragraph of the "Discussion" section, perhaps clarify the link of
resistant homes to "X" houses?

9) In "Conclusions" it is implied but not explicitly noted that these conclusions are for polio SIAs and specific to OPV campaign coverage.

**Level of interest:** An article of importance in its field

**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 have no competing interests.