Reviewer's report

Title: Delivery Practices and Associated Factors among Mothers seeking child welfare services in Nyandarua South District, Kenya

Version: 1 Date: 4 August 2010

Reviewer: Margaret Elizabeth Kruk

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Review of Wanjira et al.
Delivery Practices and Associated Factors among Mothers seeking child welfare services in Nyandarua South District, Kenya

General comments
This is a study pertinent to the current efforts to reduce maternal mortality. It is also very well written. It has several weaknesses however. One is the selection of respondents which introduces bias as women selected during receipt of health services are likely to be systematically different that the population, and in ways that affect the dependent variable. This needs to be made clear in the title, and in the Discussion (e.g., cannot infer to “women of Nyandarua South” from this sample as on page 12). The paper also lacks a Limitations section.

The second issue is the confusing analysis which obfuscates the story. While the discussion treats the variables as all part of the same model, in the analysis there are several unconnected models. Please see some suggestions below.

Specific comments
Analysis: The analysis is confusing. As the aim of the paper is to assess predictors of attended delivery, I would suggest using all the predictors in the same model (added sequentially, perhaps, with prior delivery history first, then attitudes, etc.). Right now the presentation of results underscores the confusion with multiple tables and different dependent variables.

Discussion:

p. 12: What does the following sentence mean: “There was however a notable increase in the proportion of births attended by skilled attendants based on last delivery (54.3%) compared to the overall rate (48.2%).”

p. 13: In the sentence “However, unlike other parts of the country such as Mwingi and Kwale Districts, where TBAs attend to over 70% of the deliveries, [21] only 1.5% of the deliveries in this study were attended by TBAs” which deliveries in this study are the authors referring to? All deliveries, the last delivery?

Tables: Table 6 is unclear. What is the dependent variable? Also all tables require footnotes explaining them. They should stand alone from the text in the
body of the paper.

**Level of interest:** An article of limited interest

**Quality of written English:** Acceptable

**Statistical review:** Yes, and I have assessed the statistics in my report.

**Declaration of competing interests:**

I declare that I have no competing interests