Author's response to reviews

Title: Prevalence and Risk Factors for Non-use of Antenatal Care Visits in South Sudan: Evidence from South Sudan Household Survey, 2010

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Author's response to reviews: see over
Author’s response to Editor

Title of MS: Prevalence and Risk Factors for Non-use of Antenatal Care Visits in South Sudan: Evidence from South Sudan Household Survey, 2010

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Author’s response to Editor: In the manuscript the new information were highlighted in yellow. See below for the response
**Question:** ##1 Please provide a power determination: chose a relevant comparison and explain why it is relevant indeed, report which odds ratio the study was able to demonstrate as significant given the sample size and assuming 5% significance level, 80% power (or higher) etc. etc.

**Response:** we have now added significance level to the manuscript (see below):

> The odds ratios with 95% confidence intervals were calculated in order to assess the adjusted risk of independent variables.

**Question:** ##2 "only variables that were significantly associated (P < 0.05) with non-use of antenatal care services were retained in the final models." Specify the test used to derive the P-value.

**Response:** we have added the following text to the manuscript (see below)

> Multiple logistic regression was used in a backwards elimination model in order to identify the factors significantly associated with the study outcome. At the start, all variables were included in the model. Backward elimination process was employed to remove non-significant variables and all variables with statistical significance of \( p \leq 0.05 \) were retained in the final model. In the final model, we tested and reported any co-linearity.

**Question:** ##3 Table 3: State, e.g. in a footnote, which variables the odds ratio was adjusted for, e.g. by saying "Adjusted for all other variables in the table"

**Response:** We added the following footnote in Table 3 indicating the variables adjusted in the model.

> # Independent variables adjusted for are: geographical region (state); type of residence (total); maternal age at her last birthday (years); birth order; number of previous pregnancy; pregnancy outcome; number of children; maternal marital status; polygamy status; maternal education; maternal literacy; knowledge of obstetric danger signs during pregnancy, delivery and post delivery; knowledge on newborn danger signs; household wealth index; desire for last pregnancy; pregnancy complications.