Author’s response to reviews

Title: Factors Influencing Unmet Need for Family Planning among Ghanaian Married/Union Women: A Multinomial Mixed Effects Logistic Regression Modelling Approach

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Response to Editors Comments

1. Reformulate titles of tables and figures

Comment: Table 1. Crude and adjusted odds ratios for unmet need for limiting / unmet need for spacing versus no unmet need for family planning versus among women (married or union). Results from a multinomial mixed effect logistic regression model (Model 4 see supplementary Table 1). Ghana Demographic and Health Survey, 2014.

Response: Title changed to reflect the suggested title name from the Editor.

Table S1:

Model building strategy: unmet need for family planning among women (married or union), Ghana Demographic and Health Survey, 2014.

Response: Title changed to reflect the suggested title name from the Editor.
Figure 1: Distribution of unmet need for family planning among women (married or union) by religion and stratified by place of residence. Ghana Demographic and Health Survey, 2014.

Legend: no_nd: no unmet need; limit: unmet need for limiting; space: unmet need for spacing

Response: Title changed to reflect the suggested title name from the Editor.

Figure 2: Distribution of unmet need for family planning among women (married or union) by region and stratified by place of residence. Ghana Demographic and Health Survey, 2014.

Legend: no_nd: no unmet need; limit: unmet need for limiting; space: unmet need for spacing

Response: Title changed to reflect the suggested title name from the Editor.

Figure 3: Distribution of unmet need for family planning among women (married or union) by age and stratified by place of residence. Ghana Demographic and Health Survey, 2014.

Legend: no_nd: no unmet need; limit: unmet need for limiting; space: unmet need for spacing

Response: Title changed to reflect the suggested title name from the Editor.

Figure 4: Distribution of unmet need for family planning among women (married or union) by education and stratified by place of residence. Ghana Demographic and Health Survey, 2014.

Legend: no_nd: no unmet need; limit: unmet need for limiting; space: unmet need for spacing

Response: Title changed to reflect the suggested title name from the Editor.

2. Replace in all text, tables the term “risk ratio” by “odds ratio”

Response: We prefer to maintain the measures of association to be relative risk ratio instead of odds ratio. The model used in this analysis is the multinomial logistic which yields log relative risk and not log odds ratio. Reference: https://stats.idre.ucla.edu/stata/dae/multinomiallogistic-regression/

3. For the 4 graphs with the adjusted predictors. Do not use the titles as given by Stata. Bring them together in one table (with 4 cells) on one page as Figure 5. Label each cell as Religion, Age, Region, Education. You can than also drop in the graph the terms “regional variable”; “religion_recategorised”; “age in 5-years group” and “highest_educational_level”.

Response: Title changed to reflect the suggested title name from the Editor.
Make sure that the Y-axis is always from 0 to 1

Title of Figure 5.

Adjusted probability of unmet need for family planning (no unmet need: outcome = 0); unmet need for limiting (outcome = 1); unmet need for spacing (outcome = 2)) among women (married or union). Results from a multinomial mixed effect logistic regression model. Ghana Demographic and Health Survey, 2014.

Response: Title changed to reflect the suggested title name from the Editor.