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Subject: Effect of Fertility decline on Maternal Mortality

Posted by [Tesfay](#) on Sat, 08 Oct 2022 23:37:12 GMT

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Dear DHS experts, peace and health for you.

I am Mr. Tesfay Brhane. I am a Ph.D. student and I am studying the effect of fertility decline on maternal and child health using Ethiopian DHS data.

I want to see the effect of the decline in the general fertility rate from 2000 to 2016 on the maternal mortality rate by decomposing the changes in the number of maternal deaths (2000-2016) into its 3 components: Changes in GFR, changes in the number of women of age 15-49, and changes in the Maternal Mortality Ratio (MMR) as suggested by John A. Ross<sup>1</sup> and Ann K. Blanc (doi:10.1007/s10995-011-0777-x). In this regard, I do have concerns that I need support from experts.

1. Is it possible to work such a decomposition using data from DHS?
2. If so, how can I get the changes in the total number of women in the RAG? The latest available national census in Ethiopia, next to 1994, is that of 2007. How can I use it for this purpose?
3. If it is not possible to run such a decomposition, how can I assess the effect of change in fertility on changes in maternal mortality?

Since the data on dead women is collected from the sister (sibling method), how can I get the fertility history and other background information of the deceased mother?

I thank your cooperation in advance.

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