Subject: Interrupted time series analysis using DHS data and applying sample weights
Posted by mm23 on Wed, 08 Feb 2017 14:47:38 GMT
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I am currently using the Zambia DHS to do an interrupted time series analysis of a policy that was implemented in Zambia between 1996 and 2006. Am mainly interested in 3 indicators
1. proportion of facility deliveries
2. proportion of children fully immunized
3. proportion of women receiving antenatal services

I am using all the data from all the five rounds of DHS in Zambia

The general method I used to calculate the proportion (using the example of proportion of facility deliveries) is:

total number of children born in a health facility in the last five years preceding the survey /total number of children born in the last five years preceding the survey

I aggregated the births by quarter and used the .itsa command in stata to run the analysis. However, when I presented these finding, I was told that I should have applied the sampling weights.
I have been searching online on how I can apply the weights in an ITSA, but I have not found any information.

Looking at what am trying to do, is it necessary for me to apply the weights? And if I do need to apply the weights, how am I supposed to do it in light of the analysis am trying to run?