
Subject: Variable for Age-Specific Fertility Rate
Posted by [pndagu263](#) on Thu, 18 May 2017 17:41:12 GMT
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Dear Statalisters

I want to analyse potential sources of the differences in total fertility rates (TFRs) between two DHS surveys for Zimbabwe, 2005 and 2010. I aim to apply the decomposition method by Oaxaca-Blinder to identify contributions to fertility change.

I had initially planned to conduct the decomposition using the `mvdcmp` programme by Powers et al. (2011) using as my outcome variable children ever born (`v201`). The problem with `v201` however, is that it is not age standardised and therefore not an optimal indicator for total fertility rate. In fact, average children ever born is higher in the Zimbabwe DHS2005-06 compared to ZDHS2010-11 whereas the ASFR and TFR estimates are higher in 2010-11 compared to 2005-06 survey. My intention now is to use age-specific fertility rate (ASFR) as a proxy for TFR as my dependent variable given that it is age standardised.

My question then is that how can I generate in STATA a variable for ASFR for single-year age groups (`v012`) in DHS. I tried the following;

```
For exposure [person-years];  
gen top = v008 - 1  
gen bot = v008 - 36  
gen turn15 = v011 + 180  
replace bot = turn15 if turn15 > bot  
drop if bot>top
```

```
gen agebot = int( ((bot+top)/2 - v011)/12)  
gen expo= top - bot + 1
```

```
Then for events [since I'm not well versed with looping];  
gen birth1=0  
replace birth1=1 if b3_01!=.
```

```
gen birth2=0  
replace birth2=1 if b3_02!=.
```

```
gen birth3=0  
replace birth3=1 if b3_03!=. I did this upto birth20 then generated variable for births by summing  
birth1 to birth20. However, deriving an ASFR indicator from here is not working out well.
```

I am aware of `tfr2` which computes single-year age-group ASFRs through the `tabexp` command. My problem is that I want to generate a variable in the dataset which assigns by age (`v012`) an estimate of the ASFR that I will be able to use as an outcome variable in decomposition analysis.

I thank you in advance for your assistance.

Best regards,

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