Subject: Calculating state-specific maternal mortality ratio and rate from the NDHS 2013 Posted by AkiodeN on Wed, 11 May 2016 18:52:56 GMT

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Dear All,

I am currently running some secondary analysis of the Nigeria demographic and health Survey(NDHS) 2013. I am conducting state-specific analysis. I noticed however that the do file (set of code) used to calculate the national Maternal mortality rate/ratio is not yielding those in the NDHS 2013 report. The plan is to use same to find the MMR of one of the states in Nigeria. Below is the set of code;

gen strata=v023 gen psu=v021 gen weight=v005/1000000 gen wt=weight*(awfactt/100) svyset psu [pweight=weight], strata(strata) *Rename all of the repeating variables to drop the leading 0 to help with reshaping rename mm* 0* mm* * tab mmidx 1 *reshape the file into a sibling history file, though this may take several time to run. reshape long mmidx_mm1_mm2_mm3_mm4_mm5_mm6_mm7_mm8_mm9_mm10_ mm11_mm12_mm13_mm14_mm15_, i(caseid) j(mmindex) *Rename to drop the trailing underscore on the end of the reshaped variables rename mm* mm* *Drop empty matrices drop if mmidx==. *Check total sisters and brothers - compare total from table 15.1 tab mm1 *Drop siblings without sex or survival status drop if (mm1==8 | mm1==9 | mm2==8 | mm2==9 | mm1==. | mm2==.)*check counts of sisters and brothers by survival status - compare with living siblings and dead siblings from table 15.1 tab mm2 mm1 *Period to use * 7 years (84 months) before interview local period 84 *calculate deaths and exposure for each age group. Each woman can contribute to *...3 different age groups in the past 7 years. *Calculate upper and lower limits in CMC for inclusion for time period. Exclude *...month of interview. gen upplim = v008-1*Replace upper limit with the CMC date of death for siblings that died replace upplim = mm8 if mm2==0 *Lower limit - 7 years (84 months) before interview gen lowlim=v008-`period' *Total exposure in the time period

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gen exposure=upplim-lowlim+1
replace exposure=0 if exposure < 0
* Oldest age group
gen agegrp1=int((upplim-mm4)/84)
*caculate exposure in this age group
gen expo1=min(exposure, upplim-(mm4+agegrp1*84)+1)
*calculate deaths
gen deaths1=(mm2==0 & expo1>0)
*calculate remaining exposure time
replace exposure=exposure-expo1
*middle age group
gen agegrp2=agegrp1-1
*calculate exposure in this age group
gen expo2 = min(84, exposure)
*Set deaths to 0 - all deaths are in the oldest age group
gen deaths2=0
*calculate the remaining exposure time
replace exposure = exposure - expo2
*youngest age group
gen agegrp3 = agegrp2-1
*calculate exposure in this age group
gen expo3 = min(84, exposure)
*set deaths to 0 - all deaths are in the oldest age group
gen deaths3=0
*reshape so that there are separate records for each age group with exposure and deaths in thos
age groups
reshape long agegrp expo deaths, i(caseid mmindex) i(i)
*only keep the deaths and exposure in the in age groups 3 (15-19) through 9 (45-49)
keep if agegrp>=3 & agegrp <=9
label define agegrp 3 "15-19" 4 "20-24" 5 "25-29" 6 "30-34" 7 "35-39" 8 "40-44" 9 "45-49"
label values agegrp agegrp
*sample weight
*calculating deaths
tab agegrp mm1 [iw=wt]
tab agegrp mm1 [iw=wt]
*exposure from table 15.3 (expo is in months, divisions by 12 to give years)
tab agegrp mm1 [iw=expo*wt/12]
*deaths from table 15.4 - restrict to maternal deaths
tab agegrp [iw=deaths*wt] if mm1==2 & mm9>=2 & mm9<=6
*exposure from table 15.4 (expo is in months, division by 12 to give years) - restrict to women only
tab agegrp [iw=expo*wt/12] if mm1==2
tab agegrp [iw=expo*wt/12] if mm1==2
tab agegrp [iw=expo*wt/12] if mm1==2
```

Please, is there something I did not include in this code to correctly calculate the national MMR of Nigeria ?