

Dear Sir/ madam,

I wanted to calculate the total number of csection using the IR file for Malawi using the following commands:

```
use MWIR7HFL.dta
```

```
. gen csection=0
```

```
. replace csection=1 if m17_1==1 | m17_2==1 | m17_3==1 | m17_4==1 | m17_5==1 | m17_6==1  
(976 real changes made)
```

```
tab csection
```

csection	Freq.	Percent	Cum.
0	23,586	96.03	96.03
1	976	3.97	100.00
Total	24,562	100.00	

However this is less than the total csection in the KR files

```
tab m17
```

```
delivery by |  
caesarean |  
section |
```

	Freq.	Percent	Cum.
no	16,122	93.53	93.53
yes	1,116	6.47	100.00
Total	17,238	100.00	

I tried to merge the IR and and the KR file so that I can use the m17 variable but loose lots of data in the merging process. I wanted someone to kindly help me calculated the total csection using the IR file or how to merge the m17 to the IR file

secondly.....

i calculate the number of stillbirths using the following commands:

```
use MWIR7HFL
gen stillbirths = regexm(vcal_1,"TPPPPP")
label var stillbirths "stillbirths"
```

i obtained 213 stillbirths and the DHS final report indicated 236. Could someone help explained why and how to get the right values.

thanks for your kind help and understanding in advance
regards
Mamadou

Subject: Re: merging IR file with KR
Posted by [Mlue](#) on Thu, 07 Mar 2019 07:36:03 GMT
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Hello Mamadou,

This is how I calculated the c-section births. I did not use the IR file, but instead used the BR file

FOR C-SECTION

```
clear all
set matsize 800
set maxvar 10000
set mem 1g
cd "."
use "MWBR7HFL", clear
set more off
```

[illegible]

```
** WEIGHT VARIABLE
gen weight = v005/1000000
```

[illegible]

** SURVEY SET

[illegible]

```
rename v013 age
rename v106 education
rename v190 wealth
rename v025 residence
rename v024 region
```

[illegible]

```
gen skilled_birth = 0
label define skilled_birth 0"Unskilled" 1"Skilled"
label var skilled_birth "Birth delivered by skilled birth attendant"
label val skilled_birth skilled_birth
```

*

```
recode m15 (21/26 = 0 "Public sector") (31/36 = 1 "Private sector") ///
(11/12=2 "Home") (96=3 "Other") ///
(99=4 "Missing"), gen(delivery_place)
label var delivery_place "Place of delivery"
label val delivery_place delivery_place
```

```
cap drop facility_delivery
recode delivery_place (0/1 = 1 "Facility births") (else=0 "Non-facility births"), gen(facility_delivery)
label var facility_delivery "Percentage delivered in a health facility"
label val facility_delivery facility_delivery
```

```

recode m17 (1 = 1 "C-section") (else = 0 "Not c-section") , gen(c_section)
label var c_section "Birth delivered by C-section"
label val c_section c_section

```

**** DECIDED BEFORE PAINS**

```
recode m17a (1=1 "Yes") (else=0 "No"), gen(decided before)
```

label var decided_before "Timing of decision to conduct C-section: Decided before onset of labour pains"

label val decided before decided before

**** DECIDED AFTER PAINS**

cap drop decided after

```
recode m17a (2=1 "Yes") (else=0 "No"), gen(decided after)
```

label var decided_after "Timing of decision to conduct C-section: Decided after onset of labour pains"

label val decided after decided after

[illegible]

**** DROP IF NOT WITHIN SAMPLE**

keep if $m_{15} \neq .$

[illegible]

**** CHECK**

```
svy: tab wealth c section, percent format(%9.1f) row
```

```
svy: tab wealth decided before, percent format(%9.1f) row
```

```
svy: tab wealth decided after, percent format(%9.1f) row
```

```
svy: tab wealth delivery place, percent format(%9.1f) row
```

```
svy: tab wealth facility_delivery, percent format(%9.1f) row
```

```
svy: tab wealth skilled birth, percent format(%9.1f) row
```

== **

```
svy: tab wealth c section, count format(%9.0f) miss
```

```
svy: tab wealth decided before, count format(%9.0f) miss
```

```
svy: tab wealth decided_after, count format(%9.0f) miss
```

```
svy: tab wealth delivery place, count format(%9.0f) miss
```

```
svy: tab wealth facility_delivery, count format(%9.0f) miss
```

```
svy: tab wealth skilled birth, count format(%9.0f) miss
```

[illegible]

```
ssc install hplot, replace //Need internet connection
ssc install catplot, replace //Need internet connection
```

```
catplot c_section wealth [iw=weight], percent(wealth) stack asyvars ///
  bar(1, bcolor(gold*.6)) bar(2, bcolor(ltblue*.9)) bar(3, bcolor(red*.2)) ///
  blabel(bar, format(%9.1f) pos(center)) bar(4, bcolor(gs14)) ytitle(%) ///
  title(Percentage of births delivered by C-section) subtitle(Malawi DHS 2015-16)
```

```
catplot delivery_place wealth [iw=weight], percent(wealth) stack asyvars ///
bar(1, bcolor(gold*.6)) bar(2, bcolor(ltblue*.9)) bar(3, bcolor(red*.2)) ///
blabel(bar, format(%9.1f) pos(center) size(small) orientation(vert)) ///
bar(4, bcolor(gs14)) ylabel(%) ///
title(Percent distribution of births by place of delivery) ///
subtitle(Malawi DHS 2015-16)
```

```
catplot facility_delivery wealth [iw=weight], percent(wealth) stack asyvars ///
bar(1, bcolor(gold*.6)) bar(2, bcolor(ltblue*.9)) bar(3, bcolor(red*.2)) ///
blabel(bar, format(%9.1f) pos(center)) bar(4, bcolor(gs14)) ytitle(%) ///
title(Percentage of births by type of health facility) ///
subtitle(Malawi DHS 2015-16)
```

```
catplot skilled_birth wealth [iw=weight], percent(wealth) stack asyvars ///
bar(1, bcolor(gold*.6)) bar(2, bcolor(ltblue*.9)) bar(3, bcolor(red*.2)) ///
xlabel(bar, format(%9.1f) pos(center)) bar(4, bcolor(gs14)) ylabel(%) ///
title(Percentage of births by type of provider) ///
subtitle(Malawi DHS 2015-16)
```

exit

[illegible]

Subject: Re: merging IR file with KR
Posted by [Mlue](#) on Thu, 07 Mar 2019 07:54:00 GMT
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This one might give you the total for stillbirths = 236

```
clear all
set matsize 800
set maxvar 10000
set mem 1g
cd "..."
```

[illegible][illegible]

```
for values i = 1/80 {
  gen cmc`i' = v017 + 80 - `i'
  gen event`i' = substr(vcal_1, `i', 1)
  gen type`i' = .
  replace type`i' = 1 if substr(vcal_1,`i',1) == "B"
  replace type`i' = 3 if substr(vcal_1,`i',1) == "T"
  replace type`i' = 2 if substr(vcal_1,`i',7) == "TPPPPP"
  replace pregs = pregs+1 if (substr(vcal_1,`i',1) == "B" | substr(vcal_1,`i',1) == "T")
}
*
```

gen end = callen

Dear MLUE,

Thank you very much for the wonder assistance which was very very helpful. I want to also calculated prenatal mortality and I used the following command. However, i am not sure I have calculated it right.

```
gen early_neonatal_deaths = 0
label var early_neonatal_deaths "earlyneo"
gen infant_deaths = 0

gen child_deaths = 0
label var child_deaths "child mortality"
label var infant_deaths "infant mortality"
* rename birth variables for use in forvalues loop
rename b*_0* b*_

* Any early neonatal deaths, infant deaths, child deaths
forvalues b = 1/80 {
  * early neonatal - days 0-6
  replace early_neonatal_deaths = 1 if inrange(b6_`b',100,106)
}
gen wt = v005/1000000
replace wt = stillbirths*v005/1000000
replace wt = early_neonatal_deaths *v005/1000000
* perinatal mortality includes stillbirths and early neonatal deaths
gen perinatal_deaths = (stillbirths | early_neonatal_deaths)
label var perinatal_deaths "perinatal"
```

secondly I wants to run a logistic regression model to look at association between csection and perinatal mortality adjusting for demographics variables, morbidity, and ANC visits. could you help with graphs

Thank you very much for you kind assistance which is very well appreciated.

regards
Mamadou

Subject: Re: merging IR file with KR
Posted by [mmbah](#) on Thu, 11 Apr 2019 01:41:29 GMT
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Dear Mlue,

Thanks you very much for the codes as they are very helpful. I wanted to calculate the number of ealy neonatal mortality and perinatal mortality. However, when I reshape the data using the codes you provide i have over 150000 observations. If I calculate the early neonatal and perinatal

deaths, bmi, parity using the below commands before or after the reshaping i get wrong estimation due to the high number of observation.I really need help.

```
replace end = v008  
replace beg = v008-59
```

```
* rename b3 and b6 variables to facilitate use in the for loop
```

```
rename b3_0* b3_  
rename b6_0* b6_*
```

```
* Loop through birth history summing births and early neonatal deaths
```

```
* in the five years preceding the survey
```

```
forvalues i = 1/20 {
```

```
* restrict to 60 months preceding survey
```

```
  replace births2 = births2+1 if inrange(b3_`i',beg,end)
```

```
  replace earlyneo = earlyneo+1 if inrange(b3_`i',beg,end) & inrange(b6_`i',100,106)
```

```
}
```

```
gen perinatal = earlyneo+stillbirths
```

```
label variable perinatal "Perinatal mortality"
```

```
label define bmic 1"Underweight" 2"Normal" 3"Overweight/obese"
```

```
gen bmi= v445/100
```

```
label var bmi "bmi"
```

```
gen bmic= 1 if bmi<18.5
```

```
replace bmic=2 if bmi>=18.5 & bmi<25
```

```
replace bmic=3 if bmi>=25 & bmi!=.
```

```
label values bmic bmic
```

```
label var bmic "bmic"
```

```
tab bmic
```

```
rename v201 parity
```

```
recode parity 0/1=1 2=2 3=3 4=4 5/max=5
```

```
tab parity
```

```
label define paritylab 5"5+"
```

```
label var parity paritylab
```

```
label value parity paritylab
```

```
tab parity
```