Subject: Matching the sample size

Posted by Santosh on Tue, 27 Mar 2018 10:44:18 GMT

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Dear DHS experts,

I wrote about the problem in matching sample size for the prevalence of hypertension in India. I am using DHS data 2016 and trying to match the prevalence of hypertension with the final report of NFHS-4 2015-16 table 12.3.1 and 12.3.2.

I have attached the do file

Please help to solve the issue. I wrote about it 5 weeks back and didn't get any reply. One of our colleague suggested the solution, but still that didn't worked.

I hope for your reply. Your promptness will be highly appreciated.

Regards, Santosh

File Attachments

1) do file india for DHS.do, downloaded 621 times

Subject: Re: Matching the sample size

Posted by Trevor-DHS on Tue, 03 Apr 2018 21:52:13 GMT

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I tried looking at your do file, but it is missing some steps. sbp and dbp do not exist.

However, I think the bigger issue is which file you are working with. The tables in the report are run based on interviewed women and men using the IR and MR files. The blood pressure readings are merged from the PR files into the IR and MR files for each eligible woman and man.

Then once you have merged the blood pressure readings into the IR and MR files, the blood pressure readings are combined to form the final result blood pressure measures for analysis, as follows:

gen sbp = .

gen dbp = .

replace sys = SB16S if inrange(SB16S,20,299) & inrange(SB16D,20,299)

replace dia = SB16D if inrange(SB16S,20,299) & inrange(SB16D,20,299)

* if the second measure is given take it

replace sys = SB23S if inrange(SB23S,20,299) & inrange(SB23D,20,299)

replace dia = SB23D if inrange(SB23S,20,299) & inrange(SB23D,20,299)

* if the third measure is given take the last

replace sys = SB27S if inrange(SB27S,20,299) & inrange(SB27D,20,299)

replace dia = SB27D if inrange(SB27S,20,299) & inrange(SB27D,20,299)

* if all measures are given, then average the last two

^{*} if the first measure is given

replace sys = (SB23S + SB27S)/2 if inrange(SB27S,20,299) & inrange(SB27D,20,299) & inrange(SB23S,20,299) & inrange(SB23D,20,299) replace dia = (SB27D + SB27D)/2 if inrange(SB27S,20,299) & inrange(SB23S,20,299) & inrange(SB23D,20,299)

I hope this helps.

Subject: Re: Matching the sample size Posted by Santosh on Wed, 04 Apr 2018 02:54:30 GMT View Forum Message <> Reply to Message

Dear MR. Trevor,

Thank you for your reply. I am sorry for not mentioning the file name. I am using PR file from DHS India 2016 to estimate the prevalence of hypertension with reference to the NFHS-4 2015-16 report table 12.3.1 and 12.3.2.

I have used following codes for systolic (sbp) and diastolic (dbp) measurement:

* Systolic BP

gen s1=shb16s replace s1=. if s1>299

gen s2=shb23s replace s2=. if s2>990

gen s3=shb27s replace s3=. if s3>990

gen d1=shb16d replace d1=. if d1>297

gen d2=shb23d replace d2=. if d2>299

gen d3=shb27d replace d3=. if d3>299

//systolic reading
egen sbp= rowmean(s2 s3)
replace sbp=. if sbp>990 // Drop unknown BP
drop if sbp==.
drop if sbp<70| sbp>=300

// diastollic reading

egen dbp= rowmean(d2 d3)
replace dbp=. if dbp>299 // Drop unknown BP
drop if dbp==.
drop if dbp<=40|dbp>=170

Subject: Re: Matching the sample size

Posted by Santosh on Wed, 04 Apr 2018 03:45:30 GMT

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Dear Mr. Trevor,

Thank you for your help. I am able the match the prevalence with the report using the code you provided.

Thank you for your support and guidance.

Regards, Santosh

Subject: Re: Matching the sample size

Posted by Sami on Sat, 14 Jul 2018 02:07:39 GMT

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Dear Santosh,

I tried to work on your do file to match the report but some reason i am struggling. Can ypu please share your codes you applied to match the table?

Many thanks

Sammy

Subject: Re: Matching the sample size

Posted by Sami on Sun, 15 Jul 2018 00:14:37 GMT

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Dear Trevor,

I was trying to match the India NFHS-4 2015-16 report table 12.3.1 using data file IAIR74FL.dta. However, first, i am unable to match the women sample size as shown in the report (682,651. Second, my hypertension percentage does not match to the report as (11%). I used the following code as you suggested.

use IAIR74FL, clear

```
gen rweight=v005/1000000
svyset v021 [pweight=rweight], strata(v023) vce(linearized) singleunit(missing)
gen sbp = .
gen dbp = .
**if all measures are given, then average the last two
replace sbp = (sb23s + sb27s)/2 if inrange(sb27s,20,299) & inrange(sb27d,20,299) &
inrange(sb23s,20,299) & inrange(sb23d,20,299)
replace dbp = (sb27d + sb27d)/2 if inrange(sb27s,20,299) & inrange(sb27d,20,299) &
inrange(sb23s,20,299) & inrange(sb23d,20,299)
*****drop unknown BP***
//systolic reading
drop if sbp==.
// diastollic reading
drop if dbp==.
***prehypertension**
****hypertension****
gen ht=0 if sbp!=.| dbp!=.
replace ht=1 if (sbp>=140 |dbp>=90)& (sbp!=.|dbp!=.)
svy:tab hyper, count format(%9.0f)
Can you please help me how to resolve this problem?
Many thanks
Sammy
```

Subject: Re: Matching the sample size Posted by Santosh on Wed, 18 Jul 2018 20:48:31 GMT View Forum Message <> Reply to Message

Dear Sammy,

I am sorry for late reply. Following are the codes I used.

// Systollic and Diastollic BP

gen sys = .gen dia = .* if the first measure is given replace sys = shb16s if inrange(shb16s,20,299) & inrange(shb16d,20,299) replace dia = shb16d if inrange(shb16s,20,299) & inrange(shb16d,20,299) * if the second measure is given take it replace sys = shb23s if inrange(shb23s,20,299) & inrange(shb23d,20,299) replace dia = shb23d if inrange(shb23s,20,299) & inrange(shb23d,20,299) * if the third measure is given take the last replace sys = shb27s if inrange(shb27s,20,299) & inrange(shb27d,20,299) replace dia = shb27d if inrange(shb27s,20,299) & inrange(shb27d,20,299) * if all measures are given, then average the last two replace sys = (shb23s + shb27s)/2 if inrange(shb27s,20,299) & inrange(shb27d,20,299) & inrange(shb23s,20,299) & inrange(shb23d,20,299) replace dia = (shb23d + shb27d)/2 if inrange(shb27s,20,299) & inrange(shb27d,20,299) & inrange(shb23s,20,299) & inrange(shb23d,20,299)

Regards, Sam