Subject: 'Percentage measured for blood pressure' - Namibia 2013
Posted by ALICE -DHS USER on Tue, 01 Sep 2020 18:42:35 GMT

Hello,

I am using the Namibian DHS 2013 to look at hypertension and I am beginning by matching my tables in STATA with the tables in the final report to ensure I am using the right dataset.

For Table 17.1 of the Namibia 2013 DHS the table include 'Percentage measured for blood pressure^1'. I wondered if anyone would be able to advise me which variable was used to determine this, as there were three measurements taken and different numbers consented each time. I have tried to create tables with a number of the consent or measurement variables but I have not been able to get the numbers to match. The column heading in the table does have the superscript 1 although I haven't been able to find this explained or detailed in the footnotes of the table.

Any suggestions for the variable that would be used would be much appreciated, thank you :)

Subject: Re: 'Percentage measured for blood pressure' - Namibia 2013
Posted by Shireen-DHS on Wed, 02 Sep 2020 13:41:10 GMT

Dear Alice,

The Stata code below will give you the percentage of men/women that were measured for blood pressure. The variables used for the blood pressure measurement are sh335aa and sh335ab . Only consider values in the range of 30 to 300 for sh335aa and in the range of 0 to 160 for sh335ab.

```
*Table 17.1
gen bpmeasured=0 if inrange(hv105,34,65) & hs0!=.
replace bpmeasured=1 if sh333==1

*to see the total for men and women. Note that the table is unweighted.
tab bpmeasured hv104, col
```

Thank you

Best,
Shireen Assaf
The DHS Program

Subject: Re: 'Percentage measured for blood pressure' - Namibia 2013
Posted by ALICE -DHS USER on Thu, 03 Sep 2020 12:47:51 GMT

Dear Shireen Assaf

Thank you so much for your help, I have been able to match my numbers in STATA with Table 17.1.

I do have another question regarding the blood pressure variables. Is it possible to group the Blood pressure readings into the Classifications- Optimal, Normal, High normal etc. as in Table 17.4.1 of the final report.
I am aware of how to group data from one variable however since these blood pressure classifications involve the range of both systolic and diastolic readings, for examples the Optimal group would require systolic (sh335aa) readings below 120 and diastolic (sh335ab) reading below 80, I am not sure how to go about this in STATA?

Thank you,

Alice

Subject: Re: 'Percentage measured for blood pressure' - Namibia 2013
Posted by Shireen-DHS on Thu, 03 Sep 2020 14:51:34 GMT

Hello Alice,

Following the ranges described on p241 of the final report, please use the following Stata code to match Table 17.4.1.

Best,
Shireen

*** Stata code for Table 17.4.1 Namibia 2013 survey ****

```
gen bpmeasured=0 if inrange(hv105,34,65) & hs0!=.
replace bpmeasured=1 if sh333==1

gen wt=hv005/1000000


gen bplevels=0
replace bplevels=1 if sh335aa<120 & sh335ab<80
replace bplevels=2 if inrange(sh335aa,120,129) | inrange(sh335ab,80,84)
replace bplevels=3 if inrange(sh335aa,130,139) | inrange(sh335ab,85,89)
replace bplevels=4 if inrange(sh335aa,140,159) | inrange(sh335ab,90,99)
replace bplevels=5 if inrange(sh335aa,160,179) | inrange(sh335ab,100,109)
replace bplevels=6 if sh335aa>180 | sh335ab>110
```

```
replace bplevels =. if bpmeasured==0 | !inrange(sh335aa,30,300) | !inrange(sh335ab,0,160)
label define bplevels 1"optimal" 2"normal" 3"high normal" 4"mildly elevated" 5"moderately
elevated" 6"severely elevated"
label values bplevels bplevels

*for women - Table 17.4.1
tab bplevels if hv104==2 [iw=wt]
```

Subject: Re: 'Percentage measured for blood pressure' - Namibia 2013
Posted by ALICE -DHS USER on Fri, 04 Sep 2020 13:53:38 GMT
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Hello Shireen

Thank you so much for your help with Table 17.4.1, that has solved the problem I was having
completely.

In a previous answer regarding Blood Pressure you mentioned to 'Only consider values in the
range of 30 to 300 for sh335aa and in the range of 0 to 160 for sh335ab.'
I wondered if this is also the case with with Fasting Blood Glucose sh336k, is there a cut off range
for these readings as well?

Thank you
Alice

Subject: Re: 'Percentage measured for blood pressure' - Namibia 2013
Posted by Shireen-DHS on Fri, 04 Sep 2020 15:24:40 GMT
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Hello Alice,

You are correct, the range for sh336k is from 0 to 222. You will also need the variable sh336e to
select for those who granted permission to be measured.

Best,

Shireen

Subject: Re: 'Percentage measured for blood pressure' - Namibia 2013
Posted by ALICE -DHS USER on Fri, 04 Sep 2020 15:32:04 GMT
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Thank you for your help Shireen.

Best,
Alice

Posted by ALICE -DHS USER on Fri, 11 Sep 2020 14:44:24 GMT
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Hello Shireen

For table 17.4.1 and 17.4.2 I am having difficulty matching the total number for the 'Normal Blood Pressure and taking medication' column.
The code I have tried is below however I think I have overlooked something because the number I am getting are too large.
E.g. 5.9% of 1406 men had 'Normal Blood Pressure and taking medication' so I am trying to get a number close to 82.954 however with my code I get 123.23402.
For weighting I have been using the gen wt=hv005/1000000 for my tables.

Any advice about where I am going wrong would be very helpful.

Thank you
Alice

```
* Normal BP and taking medication
* normal BP
gen nbp = 0
replace nbp = 1 if inrange(sh335aa,30,139) | inrange(sh335ab,0,89)

* normal BP and medication
gen nbp_med = 0
replace nbp_med = 1 if sh319a== 1 & nbp == 1
```

Subject: Re: 'Percentage measured for blood pressure' - Namibia 2013
Posted by Shireen-DHS on Fri, 11 Sep 2020 15:18:52 GMT
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Hello Alice,

It's better if you use the previous code I provided that constructs the bpmeasured and bplevels variables. This has already selected for the correct age group, for those who were measured, and for the correct bp range. You also need to identify the sex using the hv104 variable for each table. Following the previous code, please generate the bplevels variable and then run the following code for women (hv104==2). This gave me a match of 8% for 2,048 women.

Thank you.
Best,
Shireen

* normal BP and medication
gen nbp_med = 0 if bplevels!=.
replace nbp_med = 1 if sh319a== 1 & bplevels <4

tab nbp_med if hv104==2 [iw=wt]

Subject: Re: 'Percentage measured for blood pressure' - Namibia 2013
Posted by ALICE -DHS USER on Wed, 16 Sep 2020 11:27:33 GMT
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Hello Shireen

Thank you so much for your reply and help once again!

Best
Alice

Subject: Re: 'Percentage measured for blood pressure' - Namibia 2013
Posted by Shireen-DHS on Wed, 16 Sep 2020 12:19:06 GMT
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You're very welcome.

Shireen