Subject: Penta or DPT
Posted by kclakhara on Sun, 24 Jul 2022 10:50:26 GMT
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Dear Sir/Madam,

Please help to get reported figures of "Penta or DPT" in the table 9.4 NFHS-5, India.

My computation is (SPSS):
***********DPT 1, 2, 3 either source******************
recode h3 (1,2,3=1) (else=0) into dpt1.
recode h5 (1,2,3=1) (else=0) into dpt2.
recode h7 (1,2,3=1) (else=0) into dpt3.
compute dptsum= dpt1+dpt2+dpt3.
fre dptsum.

***************Penta********************
recode h51 (1,2,3=1) (else=0) into dpt1p.
recode h52 (1,2,3=1) (else=0) into dpt2p.
recode h53 (1,2,3=1) (else=0) into dpt3p.
compute dptsump= dpt1p+dpt2p+dpt3p.
fre dptsump.

comp zxdpt1=0.
comp zxdpt2=0.
comp zxdpt3=0.
if (dpt1=1 or dpt1p=1) zxdpt1=1.
if (dpt2=1 or dpt2p=1) zxdpt2=1.
if (dpt3=1 or dpt3p=1) zxdpt3=1.
compute dptsumpp=zxdpt1+zxdpt2+zxdpt3.
fre dptsumpp.

Regards,

Kailash

Subject: Re: Penta or DPT
Posted by Bridgette-DHS on Mon, 22 Aug 2022 17:58:33 GMT
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Following is a response from DHS Senior Analysis & Research Manager, Shireen Assaf:

Most of your code is correct, however for multi-dose vaccines there is an additional step that is

needed. You can read about this in our Guide to DHS Statistics here:
https://www.dhsprogram.com/Data/Guide-to-DHS-Statistics/inde
x.htm#t=Vaccination.htm%23Percentage_of_children9bc-1&rh tocid=_13_1_0

I provided Stata code below, but you can easily see the logic and covert this to SPSS code for your use. The code below matches the final report for the first dose of Penta or DPT but for the second and third dose it is off by 0.2 and 0.3 percentage points, respectively. I could not resolve this difference but it's a very small difference. Also, before running the code below, I used the KR file and dropped children that are not in the 12-23 age group and kept only live children using keep b5==1 .

I also want to point you to our DHS Code Share library on GitHub which produces all DHS indicators listed in the final report. We have the DPT vaccine in this code but the indicators you are trying to match which combines two multi-dose vaccines are not a standard indicators. The code in our library can be used to match standard DHS indicators listed in the Guide to DHS Statistics:
https://github.com/DHSProgram

Stata code:

```
* DPT vaccine
recode h3 (1 2 3=1) (else=0), gen(dpt1)
recode h5 (1 2 3=1) (else=0), gen(dpt2)
recode h7 (1 2 3=1) (else=0), gen(dpt3)
gen dptsum= dpt1+dpt2+dpt3

*extra step for multi-dose vaccines
gen ch_dpt1_either=dptsum>=1
gen ch_dpt2_either=dptsum>=2
gen ch_dpt3_either=dptsum>=3

* Penta vaccine
recode h51 (1 2 3=1) (else=0) , gen(dpt1p)
recode h52 (1 2 3=1) (else=0) , gen(dpt2p)
recode h53 (1 2 3=1) (else=0) , gen(dpt3p)
gen dptsump= dpt1p+dpt2p+dpt3p

*extra step for multi-dose vaccines
gen ch_pent1_either=dptsump>=1
gen ch_pent2_either=dptsump>=2
gen ch_pent3_either=dptsump>=3

*combining the dpt and penta vaccines
gen zxdpt1=0
gen zxdpt2=0
gen zxdpt3=0
replace  zxdpt1=1 if (ch_dpt1_either==1 | ch_pent1_either==1)
replace  zxdpt2=1 if (ch_dpt2_either==1 | ch_pent2_either==1)
replace  zxdpt3=1 if (ch_dpt3_either==1 | ch_pent3_either==1)
```

```
gen dptpentsum= zxdpt1+zxdpt2+zxdpt3

*extra step for multi-dose vaccines
gen ch_dptpent1=dptpentsum>=1
gen ch_dptpent2=dptpentsum>=2
gen ch_dptpent3=dptpentsum>=3

*tabulating to match the final report
gen wt=v005/1000000

tab ch_dptpent1 [iw=wt]
tab ch_dptpent2 [iw=wt]
tab ch_dptpent3 [iw=wt]
```