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Subject: child nutrition BDHS-2011

Posted by [soheluhrd](#) on Mon, 14 Jul 2014 06:05:48 GMT

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I used Bangladesh DHS-2011 "Children's Data - Children's Recode (KR)" data set to estimate prevalence of stunting, wasting and underweight among children.

I found the prevalence of stunting, wasting and underweight are as 40.6%, 15.4% and 35.8% respectively. But the BDHS 2011 report shows the prevalence as 41.3%, 15.6% and 36.4% respectively.

i used following STATA commands:

```
// child stunting calculation
codebook hw70
tab hw70 if hw70>9990,m
tab hw70 if hw70>9990,m nolabel
gen HAZ=hw70
replace HAZ=. if HAZ>=9996
histogram HAZ
gen stunted=.
replace stunted=0 if HAZ ~=.
replace stunted=1 if HAZ<-200
tab stunted
```

```
// child wasting calculation
codebook hw72
tab hw72 if hw72>9990,m
tab hw72 if hw72>9990,m nolabel
gen WAH=hw72
replace WAH=. if WAH>=9996
histogram WAH
gen wasted=.
replace wasted=0 if WAH ~=.
replace wasted=1 if WAH<-200
tab wasted
```

```
// child underweight calculation
codebook hw71
tab hw71 if hw71>9990,m
tab hw71 if hw71>9990,m nolabel
gen WAZ=hw71
replace WAZ=. if WAZ>=9996
histogram WAZ
gen underweight=.
replace underweight=0 if WAZ ~=.
replace underweight=1 if WAZ<-200
tab underweight
```

So, what's wrong with my estimate. Can anybody help me to find the problem.

regards,  
Shafiur

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Subject: Re: child nutrition BDHS-2011  
Posted by [Reduced-For\(u\)m](#) on Mon, 14 Jul 2014 06:29:12 GMT  
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You need to use the survey weights to get the DHS report numbers. See the FAQ under "using data files"

<http://dhsprogram.com/faq.cfm>

Here is some example code for setting up the weights, and then you would want to use "svy: tab stunted" to calculate stunting rates.

Example Stata code:

```
*generate weight
generate weight = v005/1000000
*make unique strata values by region/urban-rural (label option automatically labels the results)
egen strata = group(v024 v025), label
*check results tab strata
*tell Stata the weight (using pweights for robust standard errors), cluster (psu), and strata:
svyset [pweight=weight], psu(v021) strata(strata)
```

- See more at: <http://dhsprogram.com/faq.cfm#sthash.QTqZEALu.dpuf>

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Subject: Re: child nutrition BDHS-2011  
Posted by [sohelruhrd](#) on Wed, 16 Jul 2014 05:54:10 GMT  
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Thank you very much for reply.

regards,  
Shafiur

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Subject: Re: child nutrition BDHS-2011  
Posted by [DHS user](#) on Fri, 29 Aug 2014 14:09:51 GMT  
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I use the Stata codes below in an attempt to reproduce the Nigeria DHS 2013 Child Anthropometry table using the PR6 files. However, my results are slightly different and total is 26,255. Please advise.

```
use "/Users/user/Documents/NDHS2013/NGPR6AFL.dta
*generate weight
generate weight = hv005/1000000
```

```
// child stunting calculation
codebook hc70
tab hc70 if hc70>9990,m
tab hc70 if hc70>9990,m nolabel
gen HAZ=hc70
replace HAZ=. if HAZ>=9996
histogram HAZ
gen stunted=.
replace stunted=0 if HAZ ~=.
replace stunted=1 if HAZ<-200
tab stunted
```

```
// child wasting calculation
codebook hc72
tab hc72 if hc72>9990,m
tab hc72 if hc72>9990,m nolabel
gen WAH=hc72
replace WAH=. if WAH>=9996
histogram WAH
gen wasted=.
replace wasted=0 if WAH ~=.
replace wasted=1 if WAH<-200
tab wasted
```

```
// child underweight calculation
codebook hc71
tab hc71 if hc71>9990,m
tab hc71 if hc71>9990,m nolabel
gen WAZ=hc71
replace WAZ=. if WAZ>=9996
histogram WAZ
gen underweight=.
replace underweight=0 if WAZ ~=.
replace underweight=1 if WAZ<-200
tab underweight
```

```
tab shstat wasted [iweight=weight], row
```

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Subject: Re: child nutrition BDHS-2011  
Posted by [Trevor-DHS](#) on Fri, 29 Aug 2014 15:16:34 GMT  
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To match the results in the NDHS report, you need to select the same cases as used by DHS.  
These are:

- a) De facto children (children that stayed in the household the previous night)
- b) Children with complete and in-range measurements on both height and weight and the z-scores calculated from them.

The following code can be added to your Stata program to select the correct cases:

```
* Children who stayed in the household the previous night and who have height and weight  
z-scores on all 3 measures  
gen eligch = 0  
replace eligch = 1 if (hv103==1 & hc70 < 9996 & hc71 < 9996 & hc72 < 9996)
```

```
* Tabulate only for the eligible children  
tab shstat wasted [iweight=weight] if eligch==1, row
```

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Subject: Re: child nutrition BDHS-2011  
Posted by [Trevor-DHS](#) on Fri, 29 Aug 2014 15:23:46 GMT  
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Dear Sohelruhrd

You are trying to calculate the stunting and wasting from the data in the KR file, but this is only for children of women interviewed. To match the results in the Bangladesh report, you need to use the information for all children in the household found in the PR file. Change the hw variables that you are using below to the equivalent hc variables (for the most part they have the same number).

Additionally you need to restrict the children included to

- a) De facto children (children that stayed in the household the previous night)
- b) Children with complete and in-range measurements on both height and weight and the z-scores calculated from them.

See my other post in this thread for the code to do that.

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Subject: Re: child nutrition BDHS-2011  
Posted by [sohelruhrd](#) on Mon, 26 Oct 2015 20:44:56 GMT

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Hello,

Could you please help me to get the solution the the following question?

"What were the SD flag limits used to identify implausible values when computing the prevalence of stunting, wasting and underweight in BDHS 2011?"

Thank you.

Regards,  
Shfiur

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Subject: Re: child nutrition BDHS-2011  
Posted by [Trevor-DHS](#) on Mon, 26 Oct 2015 22:30:06 GMT  
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You can find the SD flag limits in the following document:  
[http://www.who.int/nutgrowthdb/software/Differences\\_NCHS\\_WHO .pdf](http://www.who.int/nutgrowthdb/software/Differences_NCHS_WHO.pdf).  
Note that DHS excludes any case flagged for any of the three measures from all calculations.

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