
Subject: Sampling weight calculation for Under five children of Bangladesh

Posted by sabbiroeh@gmail.com on Wed, 18 Jul 2018 02:32:54 GMT

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Dear,

I, Dr. Sabbir Ahmed, am currently doing public health research under MPH in University of Malaya, Malaysia.

I am using the secondary data set (DHS 2014) of Demographic Health Survey (DHS) regarding a topic

I am facing trouble to convert the sample estimate to population estimate. Specially the V005 variable of BDKR72FL file.

It has only weightage for women. So to divide the data of V005 by 1000000 to get the women population.

But how can I calculate the total number of Under five children of Bangladesh from this data set?

Please give your valuable input.

Regards,
Sabbir

Subject: Re: Sampling weight calculation for Under five children of Bangladesh

Posted by [Bridgette-DHS](#) on Mon, 08 Oct 2018 22:07:48 GMT

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Following is a response from Senior DHS Stata Specialist, Tom Pullum:

The best source for an estimate of, say, the number of children under 5 in Bangladesh at the time of the survey would be from the website for the UN Population Division (<https://population.un.org/wpp/>). Once you have such a number, you can use DHS data to estimate, say, the number of children under five who do not have a full set of immunizations, by applying the proportion in the DHS sample to the population age 0-4 estimated by the UN.

The DHS weights are calculated in such a way that the sum of $v005/1,000,000$ is equal to the total sample size (of women). You might think that if you inflate those weights by a factor $1/F$, where F is the sampling fraction, you will get population estimates. That's correct, but the estimates would not be as good as if you use another source such as the UN numbers I mentioned above.
