Subject: Malaria (by microscopy) in Lagos State
Posted by cleonard on Sun, 09 Jul 2023 00:31:37 GMT
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Hello,

I am calculating the weighted number of children 6- 59 months tested for malaria by microscopy and the number of children positive for malaria by microscopy. The dataset I am using is NGPR81FL. I am using the exact guidelines as shown in the DHS Guide to Statistics:
Number of de facto children tested using microscopy (hv042 = 1 & hv103 = 1 & hc1 in 6:59 & hml32 in 0,1,6)
Number of de facto children tested using microscopy who are positive for malaria (hml32 = 1)

I am also taking into account the complex sample design which include strata, cluster and weights. I am coding in R and have attached my code sample to this post.

I am comparing my results with the 2021 Nigeria MIS Report, specifically pg. 147 (Table B.46), which does not match up. I am getting 205 for weighted number of children tested by microscopy, and 2 children who tested positive.

Has anyone else had the issue? I wonder if something is wrong with my code. Thank you very much.

File Attachments
1) R Code_cl.docx, downloaded 154 times

Subject: Re: Malaria (by microscopy) in Lagos State
Posted by Janet-DHS on Mon, 17 Jul 2023 16:15:20 GMT
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Following is a response from DHS staff member, Tom Pullum:

I use Stata and am not referring to your R code. To get the tabulation it is only necessary to use the weights, not the full svyset command. I opened NGPR81FL.dta and entered the following Stata line:

tab hml32 if hv103==1 & hv024==36 & hc1>=6 & hc1<=59 [iweight=hv005/1000000]

You do not need to specify the value of hv042; it is 1 for all cases. The Stata line produces the following output:

final result of malaria from |

blood smear test | Freq. Percent Cum.

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negative	338.41388	97.42	97.42
positive	8.95048	2.58	100.00
Total	347.36436	100.00	

This matches the weighted denominator of 347 and the proportion .026 in Table B.46 on page 147. That is, I match the report and do not get the numbers you got. Can you see where the difference is? Hope so. Good luck and thanks for using DHS data!