Subject: Sampling Weigths for children under 5
Posted by rafaaqp1990 on Fri, 29 May 2020 15:16:28 GMT
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Dear all,
I am new to survey data and I am having trouble trying to find my error in my R-Code. I chose
Philippines 2017 and I am trying to calculate the percentage of vitamin A supplementation for this
country for children under 5.

This is my R-Code

```
phi17 <- read.dta("PHKR71FL.DTA")
# Using labels as column names
var.labels <- attr(phi17, "var.labels")
names(phi17) <- var.labels
```

For speficying the model I use the following code:

```
# Simplifying column names
phi17$weight <- as.numeric(phi17$`women's individual sample weight (6 decimals)`/1000000)
phi17$psu <- phi17$`primary sampling unit`
phi17$strata <- phi17$`stratification used in sample design`
phi17$vi_a = phi17$`vitamin a in last 6 months`


phi_17_design <- svydesign(~ psu,
                    strata = ~strata,
                    weights = ~ weight,
                    data = phi_17)
```

So, I used the weights for the women but when I calculate the percentage of children who
received a vitamin A supplement in the last 6 months in Philippines 2017, i get the following
results:
svymean(~ vi_a, phi_17_design, na.rm = TRUE) --> yes: 69.47%

HOWEVER, when I read the final report, the result should actually be 76%.

Does anyone recognize the mistake? Did I specified the weigths correctly??

Thank you in advance!

Best regards

rafaaqp1990

Subject: Re: Sampling Weigths for children under 5
Posted by Liz-DHS on Mon, 01 Jun 2020 14:43:35 GMT
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A response from Senior Manager, Analysis and Research, Shireen Assaf:
Quote:
Hello,

I could not see how you coded the variable or what variables you used for the weight, strata, or PSU.
For this survey the strata variable is v023. The weight for KR files is v005 and the psu is v021.

To code the indicator, please translate the Stata code available on GitHub in the NT_CH_MICRO.do file: https://github.com/DHSProgram/DHS-Indicators-Stata/tree/master/Chap11_NT
You will also need to check the master file (!NTmaster.do) for this chapter to see how the age variable was coded (age is b19 for recent DHS surveys). If you do not have Stata, you can open these do files using notepad.

A description of how this variable is coded can be found in the Guide to DHS Statistics: https://www.dhsprogram.com/Data/Guide-to-DHS-Statistics/index.htm#t=Micronutrient_Intake_among_Children.htm . See indicator #5 and how the numerator and denominator are defined.

Thank you.
Best,
Shireen Assaf

Subject: Re: Sampling Weigths for children under 5
Posted by rafaaqp1990 on Tue, 09 Jun 2020 08:57:39 GMT
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Thank you so much!
I will try this.