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