Subject: Need help
Posted by Jeremy on Thu, 31 Aug 2023 09:31:16 GMT
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Dear DHS specialists,
I have a question; I am doing research on Acute Respiratory Infection using the EDHS dataset. I merged the KR file with PR file. For the analysis I use the mixed effect multilevel regression model and do the analysis using R. I adapted the complex sample design provided by your office "DHSdesign<-svydesign(id=dta$v021, strata=dta$v023, weights=dta$wt, data=dta)", as follows:
ARI_TRA1 <- svydesign(id=~V021, weights=~WGT,strata=~V023, nest=TRUE, survey.lonely.psu = "adjust", data=ARI1st)
However, the sum of the estimates in the weighted frequency calculation (9904.89) is not the same as the original sample size (8781). (Descriptive analysis of the alive children aged below 60 months). Why is this difference, please help. Stay Blessed! Stay Safe!
Unweighted frequency
ARI4th %>% freq_table(V024)
Result:-
Freq. %
0 1650.97 16.67
1 2129.04 21.49
2 2002.36 20.22
3 2168.62 21.89
4 1953.90 19.73
n_total 9904.89 100

weighted frequency
outp1 <- svytable(~Child_age,design=ARI_TRA1)
outp2 <- round(prop.table(svytable(~Child_age,design=ARI_TRA1))*100,d igits=2)
cbind(outp1,outp2)
Result:-
var cat n percent
1 Child_age 0 1443 16.43
2 Child_age 1 1821 20.74
3 Child_age 2 1815 20.67
4 Child_age 3 1923 21.90
5 Child_age 4 1779 20.26
n_total 8781 100.00