Subject: Tuberculosis and Childhood Tuberculosis
Posted by NKS on Thu, 02 Jun 2022 05:35:50 GMT
View Forum Message <> Reply to Message

Hello!

I am trying to estimate the point prevalence of TB per 100,000 population for all as well as childhood TB from PR file of NFHS-5 (2019-21). The variable I have used is sh29aa. I am using STATA 14 for the analysis with the following command:

gen tb_mtreated =0
replace tb_mtreated =1 if sh29aa>=1 & sh29aa<=3
proportion tb_mtreated if hv102==1 [iw=hv005/1000000]
proportion tb_mtreated if hv102==1 & hv024==23 [iw=hv005/1000000], over (shdist)

The point prevalence by age groups, rural/urban and total is matching with the national report at India level. However, when I am doing the same analysis with same command at state level, I found huge differences in point prevalence by age groups and rural/urban at state level. Also, I would like to mention that the total number of sample is matching with the state reports but not the estimates of point prevalence.

I humbly request to solve this problem on priority basis.

Subject: Re: Tuberculosis and Childhood Tuberculosis
Posted by Janet-DHS on Fri, 03 Jun 2022 12:47:18 GMT
View Forum Message <> Reply to Message

Following is a response from DHS Research & Data Analysis Director, Tom Pullum:

The problem may be that you are using hv005 and iweights (iw). Please repeat, using the state-specific weight for within-state estimates. Please let us know if you still get a discrepancy.

Subject: Re: Tuberculosis and Childhood Tuberculosis
Posted by NKS on Wed, 08 Jun 2022 07:27:27 GMT
View Forum Message <> Reply to Message

Thank you for the quick response.

I have already applied the state weight and IW. The number of usual residents for states which is "N" is matching with the state report while point prevalence by age-group and gender is not. For instance, point prevalence among <15 years for UP was estimated as 34/100,000 from the data but in the report, it is 356/100,000.

Here is the full command of STATA, which I have employed for the state of Uttar Pradesh (if hv024==9):

```
gen tb_mtreated =0
replace tb_mtreated =1 if  sh29aa>=1 & sh29aa<=3
proportion tb_mtreated if hv102==1 [iw=hv005/1000000]

recode hv105 (0/14=1 "0-14 years") (15/59=2 "15-59 years") (else=3 ">=60 years"), gen (age)

proportion tb_mtreated if hv102==1 & hv024==9 [iw=shweight/1000000], over (age)
proportion tb_mtreated if hv102==1 & hv024==9 [iw=shweight/1000000], over (hv104)
proportion tb_mtreated if hv102==1 & hv024==9 [iw=shweight/1000000]

//Results from STATA//

proportion tb_mtreated if hv102==1 & hv024==9 [iw=shweight/1000000], over (age)

Proportion estimation           Number of obs   =    364,194

_prop_1: tb_mtreated = 0
_prop_2: tb_mtreated = 1

_subpop_1: age = <15
_subpop_2: age = 15-59
_subpop_3: age = >=60


Over  Proportion   Std. Err.     [95% Conf. Interval]

_prop_1
_subpop_1    .9996582   .0000553      .9995307    .9997511
_subpop_2    .9975473   .0001065      .9973295    .9977473
_subpop_3     .994669   .0003812      .9938673    .9953665

_prop_2
_subpop_1    .0003418   .0000553      .0002489    .0004693
_subpop_2    .0024527   .0001065      .0022527    .0026705
_subpop_3     .005331   .0003812      .0046335    .0061327
```

Request you to kindly look at the discrepancies.