
Subject: Calculating malaria prevalence (Tanzania: Standard AIS, 2011-12)

Posted by [NinaB](#) on Mon, 21 Nov 2016 11:19:54 GMT

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Hi,

I'm trying to reproduce the malaria prevalences (by mRDT and microscopy) for children 6-59 months which can be found in the Tanzania AIS 11/12 final report on page 157. I watched the DHS youtube videos on sampling and weighting and read some other threads in this forum. However, I was not able to get exactly the same numbers as in the report. I'm using the household member dataset (PR) and my stata code so far looks like this:

*Parasitemia (via microscopy) in children 6-59 months

```
gen micmalpos=0
```

```
replace micmalpos=(hml32==1)
```

```
lab var micmalpos "Parasitemia (via microscopy) in children 6-59 months"
```

*Parasitemia (via mRDT) in children 6-59 months

```
gen rdtmalpos=0
```

```
replace rdtmalpos=(hml35==1)
```

```
lab var rdtmalpos "Parasitemia (via mRDT) in children 6-59 months"
```

*Creating weight variable

```
gen wgt=hv005/1000000
```

*Survey setting the data

```
svyset [pw=wgt], psu(hv021) strata(hv023)
```

*Proportion of children 6-59 months old with malaria infection (microscopy) by Region

```
svy: mean micmalpos if hc1>=6 & hc1<=59 & hml33==0, over(hv024)
```

*Proportion of children 6-59 months old with malaria infection (mRDT) by Region

```
svy: mean rdtmalpos if hc1>=6 & hc1<=59 & hml33==0, over(hv024)
```

Does anyone have an idea what I'm doing wrong. Thanks for helping me.

Nina

Subject: Re: Calculating malaria prevalence (Tanzania: Standard AIS, 2011-12)

Posted by [Liz-DHS](#) on Wed, 23 Nov 2016 21:11:15 GMT

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A response from malaria expert, Dr. Lia Florey,

Hi Nina,

It looks as though you are using the correct approach. When examining this particular dataset I see that a crosstab of hml33 and hml32 produces some unusual results. Same with the crosstab of hml33 and hml35. In order to replicate the estimates from the final report I would recommend the following changes to your code:

*Proportion of children 6-59 months old with malaria infection (microscopy) by Region
svy: mean micmalpos if hc1>=6 & hc1<=59 & hv103==1 & (hml32==0|hml32==1), over(hv024)

*Proportion of children 6-59 months old with malaria infection (mRDT) by Region
svy: mean rdtmalpos if hc1>=6 & hc1<=59 & hv103==1 & (hml35==0|hml35==1), over(hv024)

The hv103 specifies that children who slept in the household the night before the survey (de facto).

You might also try running tabulations instead of means:

svy: tab hv024 micmalpos if hc1>=6 & hc1<=59 & hv103==1 & (hml32==0|hml32==1), row ci per

svy: tab hv024 rdtmalpos if hc1>=6 & hc1<=59 & hv103==1 & (hml35==0|hml35==1), row ci per

I hope that this solves your problem.

Best,
Lia