Subject: Malawi prevalence at national, regional, & cluster scale
Posted by Ansmi25 on Thu, 12 Jul 2018 20:29:25 GMT
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Hello. I am trying to calculate malaria prevalence at national, region, and cluster scales. I noticed that when I calculate regions by microscopy my values are slightly different than those presented in the Malawi MIS 2017 final report. Could someone please assist me in understanding why my values are different (Freq: 266.7, 1060.2, & 1151.6)? I'd also appreciate any guidance on how to correctly code by cluster.

```
*Parasitemia (vis RDT) in children 6-59 months
cap gen rdtmalpos=0
cap replace rdtmalpos=(HML35==1)
cap lab var rdtmalpos "Parasitemia (via RDT) in children 6-59 months"

*Parasitemia (vis microscopy) in children 6-59 months
cap gen micmalpos=0
cap replace micmalpos=(HML32==1)
cap lab var micmalpos "Parasitemia (via microscopy) in children 6-59 months"

*Weighting
gen wgt = hv005/1000000

*Proportion of children 6-59 months old with malaria infection (RDT)
tab rdtmalpos if hc1>=6 & hc1<=59 & hv103==1 & hml33==0 &(hml35==0|hml35==1)
[iweight=wgt]
tab micmalpos if hc1>=6 & hc1<=59 & hv103==1 & hml33==0 &(hml32==0|hml32==1)
[iweight=wgt]

*RDT by region
tab rdtmalpos if hc1>=6 & hc1<=59 & hv103==1 & hml33==0 &(hml35==0|hml35==1) & hv024==1
[iweight=wgt]
tab rdtmalpos if hc1>=6 & hc1<=59 & hv103==1 & hml33==0 &(hml35==0|hml35==1) & hv024==2
[iweight=wgt]
tab rdtmalpos if hc1>=6 & hc1<=59 & hv103==1 & hml33==0 &(hml35==0|hml35==1) & hv024==3
[iweight=wgt]

*Mic by region
tab micmalpos if hc1>=6 & hc1<=59 & hv103==1 & hml33==0 &(hml32==0|hml32==1) &
hv024==1 [iweight=wgt]
tab micmalpos if hc1>=6 & hc1<=59 & hv103==1 & hml33==0 &(hml32==0|hml32==1) &
hv024==2 [iweight=wgt]
tab micmalpos if hc1>=6 & hc1<=59 & hv103==1 & hml33==0 &(hml32==0|hml32==1) &
hv024==3 [iweight=wgt]
```

Subject: Re: Malawi prevalence at national, regional, & cluster scale
Posted by Liz-DHS on Wed, 25 Jul 2018 03:41:58 GMT
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A response from senior malaria expert, Cameron Taylor:
Quote:
Dear user,
Thank you for providing code with your question. It is greatly appreciated!

Everything looks correct with the code but with malaria microscopy you need to include hml32==6 since there were some tests that were undetermined but they still should be included in the number of children tested (or the denominator of the indicator).

tab rdtmalpos if hc1>=6 & hc1<=59 & hv103==1 & hml33==0 & (hml35==0|hml35==1) [iweight=wgt]
tab micmalpos if hc1>=6 & hc1<=59 & hv103==1 & hml33==0 &(hml32==0|hml32==1|hml32==6) [iweight=wgt]

Let us know if you have additional questions

Cameron