Subject: Households with enough ITNs for every 2 people and or protected by IRS
Posted by Nelly_WHO on Fri, 28 Apr 2017 15:23:20 GMT
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Hi,
My results are slightly different from the results in STAT compiler. We might have a different denominator I guess, but could you let me know what is different from your code?
Thank you very much in advance,
Nelly

Households with at least one insecticide-treated mosquito net (ITN) for every two persons and/or indoor residual spraying (IRS) in the past 12 months

```
  // number of ITNs
   local ITNvar bednet_is_itn*
   egen nbITN = rowtotal(`ITNvar')

  // HH with at least 1 ITN
   gen EnITNs=0
   replace EnITNs = 1 if ((nbITN*2/hv013)>= 1)

  // Determine whether the survey has the IRS variable
   cap confirm variable hv253
   if _rc == 0 {
    summ hv253
    if `r(N)' != 0 {
     gen IRS12=0
     replace IRS12=1 if hv253==1 &
(hv253a==1|hv253b==1|hv253c==1|hv253d==1|hv253e==1|hv253f==1 |hv253g==1|hv253h==1)
    }
    summ hv253
    if `r(N)' == 0 {
     gen IRS12=.
    }
   }
   cap confirm variable hv253
   if _rc != 0 {
     gen IRS12=.
   }

  // HH with at least 1ITN and/or IRS
   gen EnITNsorIRS12=0
   replace EnITNsorIRS12=1 if (EnITNs == 1 | IRS12 == 1)

  // loop through to calculate survey-weighted means & SEs
   svyset [pweight=sample_weight], psu(cluster_num)
   local m EnITNsorIRS12
```

```
// TOTAL
svy: mean `m' if hv013>=1
ereturn list
matrix mean_matrix = e(b)
matrix variance_matrix = e(V)
local mean = mean_matrix[1,1]
local se = sqrt(variance_matrix[1,1])
gen prop_`m' = `mean'
gen seprop_`m' = `se'
gen uci_`m' = prop_`m' + 1.96*seprop_`m'
gen lci_`m' = prop_`m' - 1.96*seprop_`m'
drop seprop*
```

Subject: Re: Households with enough ITNs for every 2 people and or protected by IRS
Posted by Liz-DHS on Fri, 28 Apr 2017 18:36:43 GMT
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A response from Malaria Expert, Cameron Taylor:
Quote:
Hi Nelly,
In looking at your code I think the problem is that in the final mean statement you are restricting to hv013>=1 In the report table the denominator is all households. I think if you get rid of this restriction you should match. If you are still not matching let me know and I can share my code.

Thanks
Cameron

Subject: Re: Households with enough ITNs for every 2 people and or protected by IRS
Posted by Nelly_WHO on Tue, 02 May 2017 08:23:16 GMT
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Hi Cameron,
I have tried with and without restricting to hv013>=1 and I still have different results. Would you share your code with me? Thank you very much!
Nelly

Subject: Re: Households with enough ITNs for every 2 people and or protected by IRS

A response from malaria expert, Cameron Taylor:

Quote:

Hi Nelly,

While I can't pinpoint what the issue is in your code I can express caution in that in Stata if you divide by zero Stata yields a missing value. For example some households have a 0 value for hv013 which Stata changes to missing. Not sure if that is your issue or not.

Regardless here is code using Uganda 2014-15 MIS as an example

```
use "UGHR72FL.DTA", clear

gen wt=hv005/1000000

**Number of ITNs per household
g numitnhh=0
        forvalues x=1/7 {
                generate itnhh_0`x'=(hml10_`x'==1)
        }
replace numitnhh=itnhh_01 + itnhh_02 + itnhh_03 + itnhh_04 + itnhh_05 + itnhh_06 + itnhh_07
lab var numitnhh "Number of ITNs per Household"

**Number of ITNs per person (de facto household member)
g itnpp=numitnhh/hv013
replace itnpp=0 if itnpp==.
lab var itnpp "Number of ITNs per person"

**Households with at least one ITN per every 2 people (de facto household members)
g uc=(itnpp>=0.5)
lab var uc "Households with at least one ITN per every 2 people (de facto household members)"

**IRS
**Was the household sprayed in the past 12 months by someone other than a household member
g irs=0
        foreach x in a b c d e f g h {
                replace irs=1 if hv253==1 & hv253`x'==1
        }

        lab var irs "Household sprayed in the past 12 months by someone other than a
household member"

**ITN or IRS
**Does the household own at least one ITN OR was it sprayed by IRS in past 12 months?
g anyprot = 0
replace anyprot=1 if (irs==1|uc==1)
lab var anyprot "household own at least one ITN OR was it sprayed by IRS in past 12 months"
```

tab anyprot [iweight=wt]