Subject: Computing ARI
Posted by Michaelo on Wed, 17 Nov 2021 01:21:01 GMT
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Dear DHS team
I am exploring symptoms of Acute respiratory infections for some countries in SSA. Many thanks for the queries shared by dhs users on this forum on the topic and also to the dhs team for sharing with us the links to the GIthub syntax and codes. They ve been helpful resources in creating this syntax for ARI symptoms in the 2 weeks before the survey. The results I had matched with the report in Ghana 2014(table 10.5) and Kenya) 2014.(table 10.4 However, I am unable match the results for Nigeria(table 10.5) and Angola.
I would therefore appreciate any help to rectify the issue. Thanks
Michaelo

Please kindly find the details
dataset used
1. GHKR72FL
2. NGKR7BFL
3. KEKR72FL
4. AOKR71FL.
Data was weighted using V005
From user forum responses and github I used

```
do if b5<>0.
 compute ch_ari=0.
if h31b=1 & (h31=2) & (h31c=1 | h31c=3) ch_ari=1.
end if.
```

Results 1 using GH dataset Yes 193 (3.6 %)

	Frequency	Percent	Valid Percent	Cumulative Percent
	No	5238	92.0	96.4	96.4
	Yes	193	3.4	3.6	100.0
	Total	5431	95.4	100.0	
Missing	System	264	4.6		
Total		5695	100.0		

2.Results 2 using NG dataset (Yes 2.3% but 2.6 in report)
ARI symptoms in the 2 weeks before the survey

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No	30159	88.2	97.7	97.7
	Yes	722	2.1	2.3	100.0
	Total	30881	90.3	100.0	
Missing	System	3311	9.7		
Total		34193	100.0		

3 Results using AO dataset
ARI symptoms in the 2 weeks before the survey

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No 12319	92.2	97.2	97.2
	Yes 350	2.6	2.8	100.0
	Total 12669	94.9	100.0	
Missing	System 688	5.1		
Total	13356	100.0		

The KE dataset
Yielded similar report in the DHS report indicating
1582(8.5%) yes

Subject: Re: Computing ARI
Posted by Shireen-DHS on Wed, 17 Nov 2021 18:20:52 GMT
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Hello,

Thank you for your question.

I have used the code provided on GitHub in the CH_ARI_FV syntax file and was able to match the final report table 10.5 for the Nigeria and Angola surveys you mention. The code you have used is not exactly correct since you added (h31=2). As indicated in the GitHub code, the code to construct the ARI variable differs if the variable h31c is included or not in the survey. So you need to check for this. If h31c is present, you do not use h31. See:
https://github.com/DHSProgram/DHS-Indicators-SPSS/blob/maste r/Chap10_CH/CH_ARI_FV.sps

```
* if h31c is present and not empty.
do if  h31c_included = 1 and b5 <> 0.
    compute ch_ari=0.
    if h31b=1 & (h31c=1 | h31c=3) ch_ari=1 .
else if h31c_included <> 1 and b5 <> 0.
    compute ch_ari=0.
    if h31b=1 & (h31=2) ch_ari=1.
end if.
```

For both these surveys h31c is present so you should have used the first part of the code to construct the ARI variable, i.e.:

```
do if b5<>0.
compute ch_ari=0.
if h31b=1 & (h31c=1 | h31c=3) ch_ari=1
```

You also should check the main file for this chapter because you need to see if you should

calculate the child's age based on b19 if it is present in the dataset.

Thank you.
Best,

Shireen Assaf
The DHS Program