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Subject: Re: Selecting appropriate weights when IR and MR files are pooled

Posted by [gebretsh@gmail.com](mailto:gebretsh@gmail.com) on Sat, 22 Apr 2023 11:16:35 GMT

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Dear Dr. Tom, I am grateful for your much-needed assistance with my question.

As a follow-up, I would like to be sure whether my merge of the AR file to the pooled file is correct. I did the merge using the one-to-one merging technique (based on the DHS guide). I get the following result:

Result

```
not matched  3,572
from master  2,595 (_merge==1)
from using   977 (_merge==2)
```

```
matched  25,776 (_merge==3)
```

In the pooled file, there are 28,371 observations (both women and men), and in the AR file, 26753 observations.

Is my merge correct?

My second question is you advised me to use the HIV weight even if my outcome variable is not HIV test result. Now, when I checked the AR file, I did not find a strata variable. In my regression model, I plan to account for cluster (v001), HIV weight and strata variable. How can I get the strata or is it not necessary to account for stratification at all in my regression analysis? This seems odd to me because in all other cases, all the three design elements are available (v001, v023 and weight variable).

Finally, I try to replicate Table 3.10.2 on men's Tobacco smoking, page 58 in the 2016 EDHS. I get 5.4% after recoding mv463aa. The table produces two conflicting findings: on the left-hand side, it reported 4.3% (for any type of Tobacco), but on the right-hand side (under the frequency of smoking heading), 3.5% and 1.9% are add up to 5.4%, which is exactly I found. Which figure is correct on the prevalence of smoking any tobacco in the table?

Does the 5.4% include smokeless tobacco use?

Thank you again.

Regards,

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