Subject: Figure 10.1 Trends in childhood vaccinations
Posted by sokiya on Tue, 31 Oct 2023 07:22:32 GMT
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Hi
I am trying to replicate the analysis - Figure 10.1 Trends in childhood vaccinations in KDHS 2022 main report using the attached do file whose content is from the do files in the GitHub repository. However, I can't seem to arrive at the value of 80%. Any advice is appreciated. Thanks in advance!

File Attachments
1) 7_Vaccination coverage.do, downloaded 93 times

Subject: Re: Figure 10.1 Trends in childhood vaccinations
Posted by Bridgette-DHS on Tue, 31 Oct 2023 14:45:41 GMT
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Following is a response from Senior DHS staff member, Tom Pullum:

That number comes from column 3 of table 10.3. Do you match the other numbers in the column? If you do not match the 80.1% in the table, what number do you get? Do you match the n (3,324)? Can I also ask why you want to match the 80%? The report provides the table. Just curious.

Subject: Re: Figure 10.1 Trends in childhood vaccinations
Posted by sokiya on Tue, 31 Oct 2023 15:07:25 GMT
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There are no estimates for the first 3 columns that I can match for the row Fully vaccinated (basic antigens). I am getting the values 64.23%, 4.33% and 68.56% for the card, mother and either. Yes, I can match the N. The reason why I would want to match the value is to make sure I can reproduce the results in the main report before using other covariates not in the report for analysis.

Subject: Re: Figure 10.1 Trends in childhood vaccinations
Posted by Bridgette-DHS on Wed, 01 Nov 2023 14:28:19 GMT
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Following is a response from Senior DHS staff member, Tom Pullum:

Thanks very much for the additional detail and for asking about these numbers in table 10.3 of the

Kenya 2022 report. You appear to have identified a coding error. However, it appears that the coding for basic antigens has an inconsistency. The calculations do not include Polio3, even though footnote 5 says that Polio1, 2, and 3 are required. I will follow up with the DP staff.

Thanks for asking about this.

Subject: Re: Figure 10.1 Trends in childhood vaccinations
Posted by sokiya on Wed, 01 Nov 2023 15:55:58 GMT
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Thanks so much for the guidance. I sincerely appreciate.

Subject: Re: Figure 10.1 Trends in childhood vaccinations
Posted by Bridgette-DHS on Thu, 09 Nov 2023 17:56:23 GMT
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Following is a response from Senior DHS staff member, Tom Pullum:

This is a follow-up to my Nov.1 response to your Oct. 31 question about Table 10.3 in the KR 2022 final report. (The number "80" in Figure 10.1 comes from Table 10.3.) Instead of revising the GitHub Stata program for this table, I started from scratch. I will attach a new Stata program for the first 3 columns of Table 10.3 below. (This supersedes the Stata code I posted on Nov.1, which has been removed.) In the new program, the routine "make_codes" calculates the indicators for each row and column (cell). For individual children age 2-3, these indicators take the values 0 and 100 so that the means will be percentages. For other purposes, such as logit regressions, you would want the values to be 0 and 1.

The row for "Fully vaccinated (basic antigens)" has a footnote, footnote #5. To match the table, you have to know that this footnote is not complete. Footnote #5 says "BCG, three doses of DPT-HepB-Hib, three doses of polio vaccine (excluding polio vaccine given at birth), and one dose of MR." Keith Purvis, the head of Data Processing at DHS, tells me that IPV can substitute for the third dose of polio vaccine. That is, the polio part of the definition requires (a) polio1, (b) polio2, and (c) polio3 OR IPV.

We will revise the GitHub code if necessary, but that will not happen anytime soon. In the meantime, you can adapt the attached program to calculate the indicator or modify the GitHub program yourself.

File Attachments

1) basic_antigens_do_9Nov2023.txt, downloaded 95 times

Subject: Re: Figure 10.1 Trends in childhood vaccinations
Posted by sokiya on Fri, 10 Nov 2023 04:54:59 GMT
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Thanks so much for the further guidance. I sincerely appreciate.