Subject: Antenatal care - at least four visits (%)
Posted by amira.elshal.1@city.ac.uk on Sat, 31 May 2014 13:10:57 GMT
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Dear Sirs,

What is the minimum number of observations required to calculate a maternal health indicator such as Antenatal care - at least four visits (%) etc at the district level?

I need to collapse Egypt DHS individual recode data at the district level, then calculate some maternal health indicators. The problem is that some districts have got 15 observations only.

Thank you.

Sincerely,
Amira

Subject: Re: Antenatal care - at least four visits (%)
Posted by Liz-DHS on Wed, 11 Jun 2014 13:40:08 GMT
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Dear User,
Here is a response from our expert sampler, Dr. Ruilin Ren:
Hi Amira
Usually the DHS surveys were not designed to allow disaggregation below the survey domains which are the Governorates in Egypt. The indicator you are interested related to last birth (or all births) in last five years which is much smaller than the number of women interviewed (not all women had a birth in the last five years). The DHS's policy is that if an indicator was calculated based on 25 un-weighted cases or less, the DHS will not report the indicator because the sampling errors will be relatively large for small sample size. I did not go to the details of the Egypt data, according to what you reported, some districts have only 15 observations (it is not clear if you got 15 births or 15 women interviewed), we strongly recommend you to not disaggregate to single district level. You may need to group the districts to get relatively larger areas for your analysis. If your study restricts you to single district analysis, you cannot just run your analysis based on the data you have, you may need advanced techniques such as small area smoothing which involves the use of outside-survey information and large amount of calculations.

Hope this is helpful.

Thanks.

Subject: Re: Antenatal care - at least four visits (%)
Posted by amira.elshal.1@city.ac.uk on Thu, 12 Jun 2014 12:25:08 GMT
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Hi Liz...Hi Dr. Ren,

I cannot thank you enough for the elaboration.

Just to double-check: if -for example- I aggregated 3 clusters into 1 district, and I got 30 observations (not women), can I use these 30 observations to calculate a DHS indicator (say Antenatal care - at least four visits (%))?

I would like to thank you again.

Sincerely,
Amira

Subject: Re: Antenatal care - at least four visits (%)
Posted by Liz-DHS on Thu, 12 Jun 2014 16:31:55 GMT
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Response from Dr. Ruilin Ren (sampling expert):
Hi Amira
I do not know what kind of analysis you are doing. The aggregated analysis has two meanings, to get enough sample size, and to aggregate to known geographical or administrative units of the country. If you regroup the districts, you know where the aggregated area is. If you aggregate a few clusters just to get a larger number of cases, but you do not know what is the area or the administrative unit your aggregated clusters represent for, even you can calculate an indicator value, but you do not know where it represents for therefore you cannot interpret it. I think you have to aggregate to known geographical or administrative units level.

Best Regards

Ruilin

Subject: Re: Antenatal care - at least four visits (%)
Posted by amira.elshal.1@city.ac.uk on Thu, 12 Jun 2014 17:03:18 GMT
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Dear Dr. Ren,That's exactly what I am intending to do. I spatially joined the DHS regions -using GPS info- to Egypt's administrative districts. Each 2-3 DHS clusters correspond to 1 Egyptian district. So if I have 25+ observations for an Egyptian district, I think I can calculate a maternal indicator (say antenatal care) for this district. If a district has less than 25 observations, I can exclude it from my analysis. What do you think of that?Thank you. Sincerely, Amira

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Subject: Re: Antenatal care - at least four visits (%)
Posted by Liz-DHS on Thu, 12 Jun 2014 18:50:19 GMT
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Response from Dr. Ruilin Ren(sampling expert):
Dear Amira
If you aggregate to district level it is ok. But do not exclude the districts where there is less than 25 cases, you should group the small ones, or attach a small one to a neighboring district. This makes more sense.

Ruilin

Subject: Re: Antenatal care - at least four visits (%)
Posted by amira.elshal.1@city.ac.uk on Thu, 12 Jun 2014 19:03:24 GMT
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Dear Dr. Ren,
I cannot thank you enough for your kind advice.
Sincerely yours,
Amira

Subject: Re: Antenatal care - at least four visits (%)
Posted by Gazimbi on Sat, 19 Dec 2015 17:59:49 GMT
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Hi, your help will be most useful. I am analysing the determinants of at least 4 antenatal care visits in Zimbabwe. I am doing a multilevel analysis. I want to limit my data to births in the last five years preceding the 2010 survey (v208). I see that there were multiple births among mothers during that period so I want to further restrict my analysis to last born child.I am using SPSS, and using IF condition satisfied v208>0 was my syntax for all births. I have looked at the variable v235, and wondered whether I can use this to restrict my data to the last birth- the trouble is I don't understand because the variable is an index coded 0 for no prior child. Now I dont understand the scores that follows after which range from 2-5.As a guesswork I tried if condition is satisfied v235>0 to get the last birth, is this correct please?

Subject: Re: Antenatal care - at least four visits (%)
Posted by Liz-DHS on Mon, 25 Jan 2016 17:09:03 GMT
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Dear User,
Please refer to The Guide to DHS Statistics, beginning of page 103. The link for the Guide to DHS Statistics on our website is here: http://

www.dhsprogram.com/publications/publication-dhsg1-dhs-questi onnaires-and-manuals.cfm. Please also refer to the Standard Recode Manual http://dhsprogram.com/publications/publication-dhsg4-dhs-questionna ires-and-manuals.cfm for guidance on all your analysis with DHS data. Thank you!