Subject: Statistical Power Posted by Miyambu Langutani on Mon, 02 Oct 2023 11:55:45 GMT View Forum Message <> Reply to Message

What is the statistical power used in South African Demographic and Health Survey 2016

Subject: Re: Statistical Power Posted by Bridgette-DHS on Mon, 02 Oct 2023 13:52:13 GMT View Forum Message <> Reply to Message

Following is a response from Senior DHS staff member, Tom Pullum:

The report on this survey, with its appendices, includes some discussion of the sampling design. The power of statistical tests varies across indicators and hypotheses and should take into account the clustering and stratification in the sampling design. Hope this helps.

Subject: Re: Statistical Power Posted by Miyambu Langutani on Mon, 02 Oct 2023 14:44:57 GMT View Forum Message <> Reply to Message

Thank you for the response. However, don't you have a Standard statistical power which you use since this is a national representative survey? For instance, a statistical power of 90% or 80% ?

Subject: Re: Statistical Power Posted by Bridgette-DHS on Tue, 03 Oct 2023 14:14:19 GMT View Forum Message <> Reply to Message

Following is a response from Senior DHS staff member, Tom Pullum:

We have little to add to the previous response. Statistical power is a characteristic of a test. It depends on the indicator and the test. DHS data are used more for estimation than for testing. The width of confidence intervals and the coefficient of variation are more relevant criteria, but they also vary from one indicator to another. The appendix on the sample design in the final reports includes a great deal of information about the standard errors and design effects of the main indicators.

Subject: Re: Statistical Power Posted by Miyambu Langutani on Tue, 03 Oct 2023 16:15:17 GMT View Forum Message <> Reply to Message

Thank You for the response.

Is it possible to provide statistics of women with maternal multimorbidity (the coexistence of two or more chronic conditions e.g Obesity, hypertension, HIV/AIDS and etc.) and women without multimorbidity in SADHS 2016?

Thank You

Subject: Re: Statistical Power Posted by Bridgette-DHS on Tue, 03 Oct 2023 17:01:26 GMT View Forum Message <> Reply to Message

Following is a response from Senior DHS staff member, Tom Pullum:

That would be possible with the data files, which are publicly available. You can register here for access to the files, if you have not already done so:

https://www.dhsprogram.com/data/new-user-registration.cfm

You would have to do the analysis yourself.

Subject: Re: Statistical Power Posted by Miyambu Langutani on Tue, 03 Oct 2023 17:18:41 GMT View Forum Message <> Reply to Message

I have registered for DHS program. I have the file. I just wanted to find out if maybe you've a variable which directly provide the women with maternal multimobirdity and without multimobirdity. Which best file can one access that information

Thank you

Subject: Re: Statistical Power Posted by Bridgette-DHS on Tue, 03 Oct 2023 20:10:04 GMT View Forum Message <> Reply to Message

Following is a response from Senior DHS staff member, Tom Pullum:

There is not a variable that describes co-morbidities, but you can construct one. Please look at the report and/or questionnaire and find which illnesses/morbidities were included in this survey.

can then help you locate them in the data files and construct variables to describe combinations.

Subject: Re: Statistical Power Posted by Miyambu Langutani on Tue, 03 Oct 2023 20:23:16 GMT View Forum Message <> Reply to Message

Thank you very much. I am interested in High blood pressure, HIV, Obesity, diabetes and other illnesses since the definition of multimobirdity include the coexist of two or more health conditions. If you can be able to construct that for me so that I can get women with multimobirdity and women without multimobirdity together with their frequency and percentages, I can be able to calculate the statistical power.

Page 3 of 3 ---- Generated from The DHS Program User Forum