
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 multimorbidity and without multimorbidity. 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. I

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 multimorbidity 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 multimorbidity and women without multimorbidity together with their frequency and percentages, I can be able to calculate the statistical power.
