Subject: Multilevel weights Posted by teketo on Thu, 04 Oct 2018 10:35:59 GMT View Forum Message <> Reply to Message

Dear DHS,

I am doing analysis on maternal health service use (modern contraception among married women, antenatal care, health facility delivery and caesarean section). I am analysing the 2016 Ethiopia DHS data using SAS software.

I am just wondering how I can use Multilevel weights for this analysis. It will be great if I can get solutions how it will be done using SAS.

I am using a two level random effects model (Level 1: individuals, and Level 2: regions) for modern contraception among married women, antenatal care and health facility delivery. Moreover, for caesarean section, a three level random effects model (Level 1: individuals, Level 2: clusters and Level 3: regions) using MCMC method.

The other question I have is what should be the maximum number of a grouping (membership) variable? To make it clear, just have a look the following SAS Proc glimmix program:

Proc glimmix data = care; Class region V001; Model y (event = last) = a b c d e f g h i / solution; Random intercept e f g / solution subject = region; Random intercept a b c d / solution subject = V001 (region); Run;

The grouping variables showing how one is nested within the other on the above SAS code are region level 3 (there are 11 regions) and V001 level 2 (there are 622 clusters). We are asking the program to produce random effects for each of the 11 regions and the 622 clusters. It will have a convergence issue it will take long time to process and even might stop processing.

Regards Teketo

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