Subject: Nigeria DHS 2018: Weighting for Multilevel Model
Posted by JBell on Sun, 25 Jul 2021 18:38:01 GMT
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Hello,

I am currently doing a project looking at factors associated with missed opportunities for vaccination in Nigeria using the 2018 data and have some questions about how to apply the weights to a multi-level model (I have found several similar questions, but none I can see which quite covers this scenario, so apologies if it has been asked before).

In my model I will have children (level 1) within LGAs (level 2, matched using the GPS data) within states (Level 3). This doesn't not correspond to how DHS surveys are sampled, so I'm wondering how weights should be applied in the case.

One solution (from what I have read) could be to include the individual level weights in Stata's 'svy:' command, and then include the LGAs and states as independent variables (although this may not work as it will introduce too many parameters?)

Any guidance would be much appreciated!

Thanks