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Subject: Multilevel model for SPA data

Posted by [Lucia](#) on Fri, 10 Feb 2023 15:12:14 GMT

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Hello, I am conducting an analysis of the labor and delivery observations using data from SPAs conducted in Kenya 2010, Malawi 2013-14, and Nepal 2021.

I want to carry out a multilevel mixed-effect model for each country, however, I have read different opinions about it in the forum.

I saw that some people suggest setting the `clwgt = 1` and just using the `fcwgt` for the multilevel model, this is because the `clwgt` already takes into account the `fcwgt`.

Others suggest using both weights with this code: `svyset inv_id, weight(fcwgt) strata(strata) singleunit(centered) ||_n, weight(clwgt)`.

I also saw that there is a document that explains how to approximate level weights, however, it is for DHS data and not SPA data.

I was wondering if you could help me in understanding which method should I use, and if the document on DHS data is applicable to SPA data.

many thanks,  
Kind regards,  
Lucia

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