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Subject: Re: Household crowding

Posted by [Bridgette-DHS](#) on Thu, 20 Aug 2020 17:53:36 GMT

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Following is a response from DHS Research & Data Analysis Director, Tom Pullum:

I don't believe the distinction between level 1 and level 2 will be useful. The only leverage you will get on estimating an intra-class correlation between individuals in the same household will come from households in which more than one person has TB. If the number of persons with TB in the same household is always 0 or 1, you have no information. If there are very few exceptions to 0 and 1, the estimate will be very uncertain. The number of persons tested in the household is also relevant

To use municipality, rather than cluster, at level 3 (or 2) requires constant weights and I don't think you have them. Clusters, not municipalities, were the PSUs in the sample design.

We just issued a methodological report related to multilevel models, and I recommend that you look at it: <https://www.dhsprogram.com/pubs/pdf/MR27/MR27.pdf>. I hope other users have suggestions.

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