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Subject: Multilevel modeling

Posted by [gebretsh@gmail.com](mailto:gebretsh@gmail.com) on Wed, 09 Nov 2022 18:53:48 GMT

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Dear DHS experts,

I would like to create a cluster variable using individual level factors (education\*wealth\*residence) and use it as a sampling unit in my multilevel modeling. The PSU (enumeration area) and SSU (households) are already available in the data.

1) could I use PSU, SSU and this newly created cluster as the third sampling stage in three level multilevel model?

2) could I use PSU and this newly created cluster as the second stage in a two level multilevel model?

3) could I use HH as PSU and this newly created cluster as the SSU in a two level multilevel model?

My aim is to study inequality/variation (via ML model) in health care use across the new cluster variable.

I appreciate in advance for the technical support

Regards,

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