Subject: Any way to use GSEM with survey data?
Posted by nwegbus on Fri, 10 Feb 2017 11:50:38 GMT

Hello,
I'm using Stata/SE 13.1 and working with DHS Nigeria survey data.

I have one outcome variable which is binary (lifetime experience of intimate partner violence: Yes/No). I have 20 predictor variables (14 binary, 5 categorical and 1 latent variable)

I'm trying to prove that 2 of my predictor variables 'marital status' (.i.e. ever married versus never married) and 'age at first marriage' (10-14years, 15-17 years, 18-21 years, 22-46years) have the greatest effects on the outcome - 'lifetime experience of intimate partner violence' (Yes/No).

The Stata manual states that survey data is only supported by SEM. However, apart from this detail, everything else I need for my analysis is supported better by GSEM.

My understanding is that not using survey weights would bias my variance estimates but should not be that much of a problem for my point estimates.

Given what I'm trying to prove here, am I wrong in thinking that biased variance estimates should not be too much of an issue in this instance?
If I am wrong, and using GSEM would lead me to make erroneous conclusions, then is there any way at all to get around this?

Thanks in advance.

Subject: Re: Any way to use GSEM with survey data?
Posted by Bridgette-DHS on Fri, 10 Feb 2017 18:17:18 GMT

Following is a response from Senior DHS Specialist, Tom Pullum:

Unfortunately, this question goes beyond what we at DHS can respond to. Perhaps other users can advise you.

Subject: Re: Any way to use GSEM with survey data?
Posted by nwegbus on Fri, 10 Feb 2017 21:54:31 GMT

Thank you for your reply.

I had posed the question on Statalist.org as well, and someone there said that unlike version 13, Stata14.2 is able to do survey data using GSEM. So I just need to upgrade. I thought I'd share this bit of info here for the benefit of anyone else who might be struggling with a similar problem.