Hello

I am doing my first paper as PhD student and I am using panel data for Egypt - KR file for 2005, 2008, and 2014.

I append them in one file and I extract all the childern above two years old.

I am testing the realtionship between maternal employment and child health (stunting, wasting, underweight, and overweight).

The Analysis Approach: 1- OLS 2- IV-Instrument variable.

I usually start my analysis by add svy: in the begining, which is conducted by:

gen strata=v023 gen psu=v021 gen sampwt=v005/1000000 svyset psu, strata(strata) weight(sampwt) vce(linearized) singleunit(centered)

****OLS*****

svy: regress stunted motheremployed child characteristics mother characteristics partner characteristics Household characteristics (fixed effect (year) (governorates)) svy: regress wasted motheremployed child characteristics mother characteristics partner characteristics Household characteristics (fixed effect (year) (governorates)) svy: regress overweight motheremployed child characteristics mother characteristics partner characteristics Household characteristics (fixed effect (year) (governorates)) svy: regress overweight motheremployed child characteristics mother characteristics partner characteristics Household characteristics (fixed effect (year) (governorates)) svy: regress underweight motheremployed child characteristics mother characteristics partner characteristics Household characteristics (fixed effect (year) (governorates))

*****IV*****

******IV-unweighting****

ivregress 2sls stunted child characteristics mother characteristics partner characteristics Household characteristics (fixed effect (year) (governorates)) (motheremployed= instrument), robust first

*******IV- wieghting******

ivregress 2sls stunted child characteristics mother characteristics partner characteristics Household characteristics (fixed effect (year) (governorates)) (motheremployed= instrument) [pweight = sampwt], vce(cluster v021) first My question here is relted to the result that I got from in IV approach, the result are differ between weighting and unweighting IV appreciach

IV- weighting the variable mother employment 0/1 - is significat at 5% in(wasted- in IV weighted regresion) IV- not weighting the mother employment 0/1 - is significat at 5% in(stunted -wasted-overweight- in IV unweighted regresion)

So I am wondering that

1- why the result is differ between weighting and unweighting.

and 2- In my paper can I include the unweighting regression or it yields unseginificant result.

Thank you and I appreciate your guidance.

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