
Subject: Calculating ICC

Posted by [Ghose](#) on Tue, 30 Mar 2021 13:36:09 GMT

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Hi,

I am working with Benin IR data to explore the factors associated with educational achievement (v106). My supervisor suggested that I check ICC value first since the data are clustered, and then choose between -logit- and -melogit- depending on whether the ICC is above the threshold of 0.15. Now it seems ICC can be calculated both before:

. loneyway v106, v021

| Intraclass correlation | Asy. S.E. | [95% Conf. Interval] | |
|------------------------|-----------|----------------------|---------|
| 0.25242 | 0.01320 | 0.22655 | 0.27829 |

and after melogit:

melogit v106, || v021:

eststat ICC

| Level | ICC | Std. Err. | [95% Conf. Interval] | |
|-------|----------|-----------|----------------------|----------|
| v021 | .3073749 | .0158921 | .2771332 | .3393674 |

As you can see, these two methods produce dissimilar results. Despite the necessity of using -melogit- being obvious, I'd like to know the right course of action to follow: before/after/both?

Thank you.

Dr Ghose

Subject: Re: Calculating ICC

Posted by [Bridgette-DHS](#) on Wed, 31 Mar 2021 20:33:49 GMT

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

I really don't know why the two procedures give you such different estimates, but since you will be proceeding with melogit, I recommend that you use the ICC estimate coming from melogit rather than from loneyway.
