

---

Subject: Re: Multilevel modelling (ML)

Posted by [Reduced-For\(u\)m](#) on Tue, 22 Apr 2014 21:27:28 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Dsisso,

Not sure I can help here, but one basic question:

What are you trying to estimate? The sizes of various geo-socio-economic determinants of vaccination? Or...?

I think it basically comes down to what you think your variables of interest are likely to do in the world.

For instance - a government program that provides a free shot is likely to increase vaccination by exactly 1 (free) shot. An outcome variable of "# of shots received" might be reasonable in that case.

Access to a vaccination clinic might generate a jump from 0 shots to somewhere between 1 and 3. In this case, the multinomial logit-type model might make more sense.

I think you want to consider: a) what is the effect of my treatment/covariate likely to be in terms of increasing the extensive (0 to something non-0) or intensive (increasing # of shots) margin of vaccination; b) is this effect or program likely to last through the full course of vaccinations; and then c) how do I capture that effect with a statistical model.

Not sure if that helped, but that's how I tend to approach these problems.

---