

Dear Methods Core seminar participants,

Welcome to the first seminar of CAPS Quantitative Methods Core seminars for the academic year 2011/2012.

Topic: **Comparing odds ratios across nested logistic regression models**

Presenter: [Steve Gregorich](#), PhD
Professor of Medicine
UCSF DGIM

Time & Place: Friday, September 23, 10-11:30
McKusick Conference room
50 Beale Street, 13th floor
San Francisco, CA 94105

Abstract: Investigators often wish to compare parameter estimates (or corresponding odds ratios) associated with some variable, X , across nested logistic regression models, e.g., comparing an 'unadjusted' odds ratio to a corresponding 'adjusted' odds ratio that conditions on covariates. Unfortunately, such comparisons are not straightforward; unlike the case with linear regression, as important explanatory variables are added to a logistic model, two--often opposing--forces operate to impact parameter estimates: (i) adjustment for confounders and (ii) increases in model-implied variation of latent outcome response (rescaling). The former typically operates to shrink parameter estimates toward zero, whereas the latter acts to expand parameter estimates away from zero. Investigators are usually unsure of the extent to which each force is in operation, which frustrates attempts to meaningfully compare the magnitudes of corresponding parameter estimates. I will describe the fundamentals of this problem, the corresponding difficulties that it raises for applied research, and a recent solution to the problem proposed by K. Karlson et al, University of Education, Denmark.

Steve Gregorich is an applied statistician with interest in models for clustered/dependent data; structural equations with latent variables; psychometrics, including tests of psychometric invariance across population groups; statistical power for complex sampling designs; missing data; and Monte Carlo simulation.

Hope to see many of you at this presentation,
--Estie

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Directions to 50 Beale Street can be found at
<http://caps.ucsf.edu/about/directions-parking/>

Please also note that our building has very tight security; in order to be provided with visitor passes, you will need to RSVP to me, preferably at least 2 days before the seminar. If you are even considering attending the seminar, please do RSVP, so your name will be left with the security stuff at the main building entrance.

RSVP to [Dr. Estie Hudes](#)

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<http://caps.ucsf.edu/about/structure-cores/methods-core/>

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<http://caps.ucsf.edu/about/structure-cores/methods-core/methods-core-seminars/>

for seminar announcements and past seminars materials. The information is being updated regularly.

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