

Hudes, Estie

From: Hudes, Estie
Sent: Friday, October 23, 2015 3:03 PM
Subject: Rescheduled; CAPS Methods Core seminar -- Wenjing Zheng, Ph.D.: Adaptive Trial Designs; Tues. 11/17/15, 2-4 (CAPS Methods Core / TAPS event)

If you are coming from outside Mission Hall, please make sure you read the information at the end of this message. If you haven't already done so, please make sure you RSVP to [Estie Hudes](#) prior to the seminar date.

To CAPS faculty and scientists, TAPS Fellows, and seminar participants,

Our next Methods Core seminar will take place on Tuesday November 17, from 2-4.

Topic: Adaptive Trial Designs

Presenter: Wenjing Zheng, Ph.D.
Postdoctoral research fellow
Center for AIDS Prevention Studies, UCSF

Time & Place: Tuesday November 17, 2015; 2 - 4
(new) McKusick Conference room #3700
Mission Hall, 3rd floor
4th Street at 550 16th Street
San Francisco, CA 94158

Abstract: Adaptive trial designs allow prospectively planned modifications to key aspects of a study during the course of the trial, without undermining its validity and integrity. Such modifications (adaptations) must be planned before study initiation and should be based on the study's accumulating data. The study aspects to be adapted can be trial procedures (such as eligibility criteria, treatment dose/duration, stopping point) or statistical procedures (such as randomization scheme, sample size, study hypothesis). The promise of greater flexibility and efficiency has sparked growing attention in adaptive designs in recent years. In this talk, we will first review commonly considered types of adaptive designs and their potential utility in public health research. Then, we will focus on the so-called covariate-adjusted response-adaptive (CARA) randomized controlled trial (RCT). Under this design, one can modify the covariate-adjusted randomization schemes based on previous patients' responses, with the goal of satisfying a given optimality criterion (e.g. maximizing efficiency, or minimizing adverse outcomes). I will also present recent methodological developments on the design and analysis of CARA RCT that provide robust parameter estimates and improve adaptation towards the optimality criterion.

Short bio: Wenjing Zheng is a postdoctoral fellow at the Center for AIDS Prevention Studies at UCSF. She received her Ph.D. in Biostatistics from the University of California, Berkeley, in 2014. Her research centers on development and application of novel methods to problems in HIV prevention and care in resource-limited settings, with a focus on designing and evaluating individualized treatment strategies and population-level interventions. Her technical interests include social network analysis, machine learning, longitudinal data, adaptive RCT designs, causal inference, and mediation analysis. Her current research is focused on using social network data to understand the social dynamics behind HIV-related health outcomes, behavior and beliefs, with the goal of improving efficiency of interventions.

Hope to see many of you at the presentation.

--Estie Hudes

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For building entrance at Mission Hall., please RSVP to Estie Hudes ahead of time.

The CAPS Methods Core activity now be checked directly on the website:

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

Materials from past Methods Core seminars can be found at

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

Directions to Mission Bay:

http://campuslifeservices.ucsf.edu/transportation/services/alternative_transportation/mission_bay_transit_options

Please note that you can only use the Red shuttle at 16th Street BART if you have a current UCSF ID badge,

Parking at Mission Bay:

http://campuslifeservices.ucsf.edu/transportation/services/parking/public_parking

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Estie Sid Hudes, PhD MPH
Specialist / Statistician
UCSF Division of Prevention Sciences &
Department of Epidemiology & Biostatistics
University of California, San Francisco
Email: Estie.Hudes@ucsf.edu
<http://caps.ucsf.edu/personnel/ehudes/>

Fax: 415.476.5348
UCSF Mailcode 0886
550 16th Street, 3rd Floor
San Francisco, CA 94158-2549

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