



Co-Chairs:

- Patrick Heagerty, PhD
- Elizabeth L. Turner, PhD



Biostatistics and Study Design Core

Mission

- Provide expertise in novel designs and methods for ePCTs
- Document new statistical issues and share knowledge
- Develop methods to address challenges

Meeting Schedule

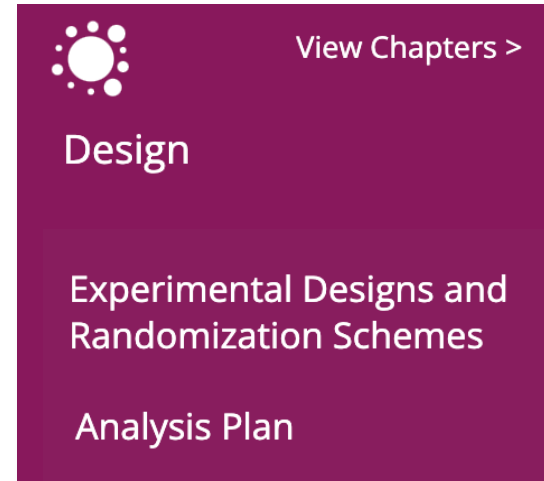
Monthly
First Wednesday

Consultation
in first
3 months

Biostatistics and Study Design Core: Key Resources



- Living Textbook chapters on study designs and analysis plans
- Study Design eLearning and video modules
- Intraclass Correlation Coefficient Cheat Sheet
- Design and Analysis of ePCTs workshop (recording available)
- Substantial literature on design and analysis of group-randomized trials



Review Article

Mixed-effects models for the design and analysis of stepped wedge cluster randomized trials: An overview

Fan Li^{1,2}, James P Hughes³, Karla Hemming⁴, Monica Taljaard⁵, Edward R. Melnick⁶ and Patrick J Heagerty³



Contemporary Clinical Trials

Volume 114, March 2022, 106702



Two weights make a wrong: Cluster randomized trials with variable cluster sizes and heterogeneous treatment effects

Xueqi Wang^a, Elizabeth L. Turner^a, Fan Li^b, Rui Wang^{c,d}, Jonathan Moyer^e, Andrea J. Cook^{f,g}, David M. Murray^e, Patrick J. Heagerty^g

Discussion

Can we help with?

- Statistical analysis plan
- Cluster randomized design
- Power and sample size
- Handling missing data
- Heterogenous treatment effects



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