

GRAND ROUNDS

Chul Ahn, PhD

Professor, Department of Clinical Sciences Director of Biostatistics and Research Design Cancer Center Associate Director for Biostatistics and Bioinformatics University of Texas Southwestern Medical Center

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12 PM-1 PM

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Sample size determinations for studies with correlated outcomes

ABSTRACT

Correlated outcomes commonly occur in biomedical research. Examples include repeated measurement studies, clustered outcome studies such as dental studies, ophthalmologic studies, and community intervention studies. The correlations among observations must be taken into consideration in the design due to the potential association for observations within a cluster. I present parametric and nonparametric methods to calculate sample sizes and powers for studies with correlated outcomes. Sample size estimation will be illustrated using examples from studies of diagnostic sensitivity and specificity, community intervention studies and repeated measurement studies, etc.

Food and beverages will be provided.