

Biostat 578A: Evaluating Vaccine Efficacy

Questions for Readings 3

Due Thursday January 26

Assignment: Answer one of the following questions.

1. Halloran and Longini (2001): Describe two ways that validation sets can be useful in vaccine efficacy trials. What problems can the use of validation sets correct? List some open problems of biostatistical methodological research in the area of validation sets in vaccine efficacy trials.
2. Gilbert, Bosch, and Hudgens (2003): What is the difference between a net effect and a causal effect? List a specific example or two of how post-randomization selection bias could occur if the net effect is used to measure how vaccination impacts the set-point viral load.