Mark van der Laan & Rachael Phillips
Division of Biostatistics, UC Berkeley

Exercise 4

Interventions

1. Provide a definition for an intervention in terms of the SCM and the post-intervention distribution.

2. Define static, dynamic, and stochastic interventions. Compare and contrast them.

3. Explain the utility of a shift intervention.

4. Explain a scenario in which one might find a significant result for E_0Y_{d0} relative to Y_0 (where d_0 is the optimal rule) but not for the average treatment effect, $E_0Y_1 - E_0Y_0$?

5. What is the G-computation formula and what is its purpose?