12/24/23. 10:57 AM Power Calculator

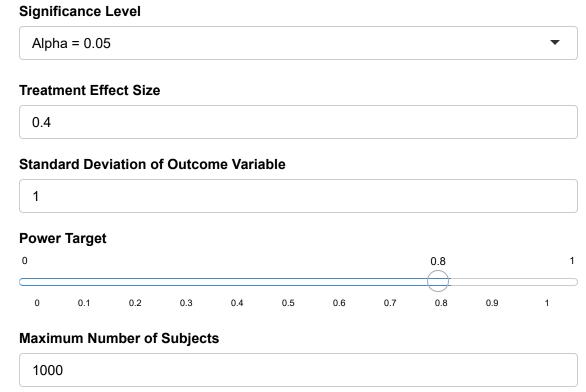
## **Power Calculator**

This calculator can help you understand the power of a few simple experimental designs to detect average treatment effects. You can choose between a standard design in which individuals are randomly assigned to treatment or control and a clustered design, in which groups of individuals are assigned to treatment and control together. For other, more complex designs, for example using block or stratified assignment, or more complex causal quantities such as complier average causal effects (also known as local average treatment effects), we suggest you see the DeclareDesign Wizard at https://eos.wzb.eu/ipi/DDWizard/

☐ Binary Dependent Variable?

Significance Level

☐ Clustered Design?



3 show below

helpers.R

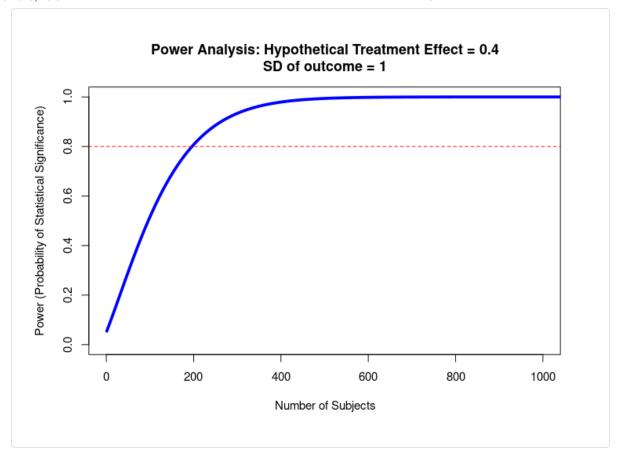
server.R

ui.R

# serve r.R source ("helpe rs.R") Ns smal 1 <- a s.matri x(1:100 00) Ns\_big <- as.m atrix(c (seq(1,9999, 1), seq (1000, 1000000 00, 100 0))) shinySe rver( funct ion(inp ut, out put) { bet as fun <- reac tive({ igma <-

input\$s

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In order to achieve 80% power, you'll need to use a sample size of at least 197.

The functions used to calculate power are available in the helpers.R tab.