sanitizepower.R

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# Sam Tenney  
# Hand Washing Technique  
  
bacteria <- read.table(text = "count  
700.67  
420.82  
278.78  
647.36  
361.25  
164.19  
154.06  
356.10  
274.30  
319.89", header = TRUE, sep="")  
  
bacteria\_count\_sd <- sd(bacteria$count)  
  
d <- mean(bacteria$count) \* 0.20  
  
power.t.test(sig.level = .05, delta = d, power = .80, sd = bacteria\_count\_sd)

##   
## Two-sample t test power calculation   
##   
## n = 97.07331  
## delta = 73.5484  
## sd = 181.9802  
## sig.level = 0.05  
## power = 0.8  
## alternative = two.sided  
##   
## NOTE: n is number in \*each\* group

power.t.test(sig.level = .05, delta = d, power = .90, sd = bacteria\_count\_sd)

##   
## Two-sample t test power calculation   
##   
## n = 129.6233  
## delta = 73.5484  
## sd = 181.9802  
## sig.level = 0.05  
## power = 0.9  
## alternative = two.sided  
##   
## NOTE: n is number in \*each\* group