

EX: Study whether or not biofeedback techniques can help reduce blood pressure. Subjects are randomly assigned to a biofeedback group or a control group. Find a 95 % confidence interval for the difference in mean responses of the two groups.

i.e., find a 95 % CI for $\mu_1 - \mu_2$ where

μ_1 = mean reduction in blood pressure for biofeedback group

μ_2 = mean reduction in blood pressure for control group

EX: In a field experiment, blocks of land were subdivided into two plots each. The plots were planted with two varieties of wheat (one variety in each plot). Yield (in pounds) are provided below:

Block	Wheat Variety		Difference (d)
	I	II	
1	32.1	34.5	$d_1 = -2.4$
2	30.6	32.6	$d_2 = -2.0$
3	33.7	34.6	$d_3 = -0.9$
4	29.7	30.7	$d_4 = -1.0$

Test if the two wheat varieties produce different mean yields.