

Table 9.1

Symbolic and Verbal Representations for Two-Tailed Research and Null Hypotheses for a Related Samples t Test

	<i>Symbolic</i>	<i>Verbal</i>	<i>Mean Difference Created by</i>
Research hypothesis (H_1)	$H_1: \mu_D \neq 0$	The mean cholesterol level in the population of people who take the placebo is different from the mean cholesterol level in the population of people who take the antianxiety drug.	The drug having a different effect on cholesterol than the placebo
Null hypothesis (H_0)	$H_0: \mu_D = 0$	The mean cholesterol level in the population of people who take the placebo is not different from the mean cholesterol level in the population of people who take the antianxiety drug.	Sampling error