

Table 11.2

Symbolic and Verbal Representations of Two-Tailed Research and Null Hypotheses for a One-Way Independent Samples ANOVA

	<i>Symbolic</i>	<i>Verbal</i>	<i>Mean Differences Created by</i>
Research hypothesis (H_1)	$\mu_1 \neq \mu_2$ and/or $\mu_1 \neq \mu_3$ and/or $\mu_2 \neq \mu_3$	<i>At least one</i> of the populations' mean depression score is <i>not equal</i> to <i>at least one</i> of the other populations' mean depression score.	One or more of the treatments being more effective than one or more of the others
Null hypothesis (H_0)	$H_0: \mu_1 = \mu_2 = \mu_3$	The mean depression scores for all populations <i>are</i> equal.	Sampling error