Practice with WG ANOVA -- Answers

The purpose of a second study was to examine changes in the same "wellness" score over time for those receiving daily treatment. The wellness measure was give two times, during the first therapy session and again during the last therapy session at the end of the two month course of therapy. Wellness scores were expected to increase over the course of therapy.

What type of design is this??? **WG Non-experiment**

Tell the IV **Length of therapy**

Tell the DV **Wellness Score**

Will the results be causally interpretable? **No -- not a true experiment (long-term field study)**

What statistic will we use? **WG ANOVA**

What two variables will be in the SPSS analysis? **Initial Wellness score & Final Wellness score**

State the RH: using phrasing appropriate for the statistical model.

Final wellness scores will have a higher mean than initial wellness scores.

State the H0: using phrasing appropriate for the statistical model.

Final wellness scores will have the same mean as initial wellness scores.

Descriptive Statistics

	Mean	Std. Deviation	N
INIT_WEL	25.7796	8.56713	24
FIN_WEL	32.8454	8.78305	24

Tests of Within-Subjects Effects

Measure: MEASURE_1

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
TIME	Sphericity Assumed	599.107	1	599.107	6.785	.016
Error(TIME)	Sphericity Assumed	2030.842	23	88.297		

Will we retain or reject H0:? Explain your answer. **Reject - p < .05**

Do these results support, partially support, or not support the RH:? Explain your answer.

Yes -- there is a significant mean difference and that difference in the hypothesized direction.