

Results

Descriptive Statistics

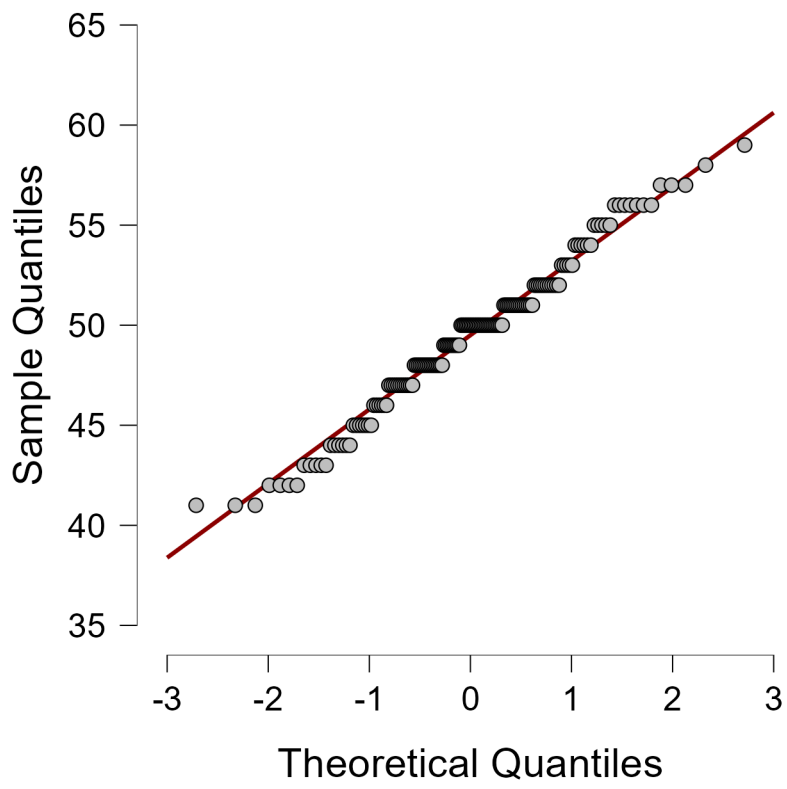
Descriptive Statistics

	Pre_Similarity		Post_Similarity	
	Control	Experimental	Control	Experimental
Valid	150	150	150	150
Mean	49.447	48.540	25.800	18.233
Std. Deviation	3.878	3.621	3.889	3.787
Skewness	-0.021	0.109	-0.043	0.023
Std. Error of Skewness	0.198	0.198	0.198	0.198
Kurtosis	-0.261	-0.166	-0.106	-0.441
Std. Error of Kurtosis	0.394	0.394	0.394	0.394
Shapiro-Wilk	0.983	0.989	0.987	0.987
P-value of Shapiro-Wilk	0.067	0.256	0.186	0.180
Minimum	41.000	40.000	16.000	9.000
Maximum	59.000	59.000	35.000	29.000

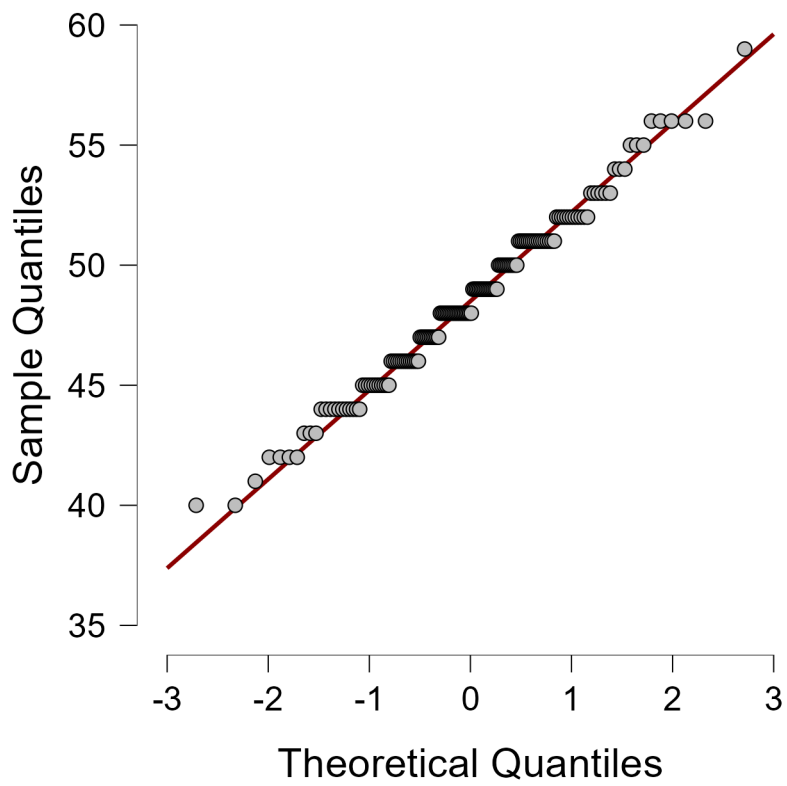
Q-Q Plots

Pre_Similarity

Control

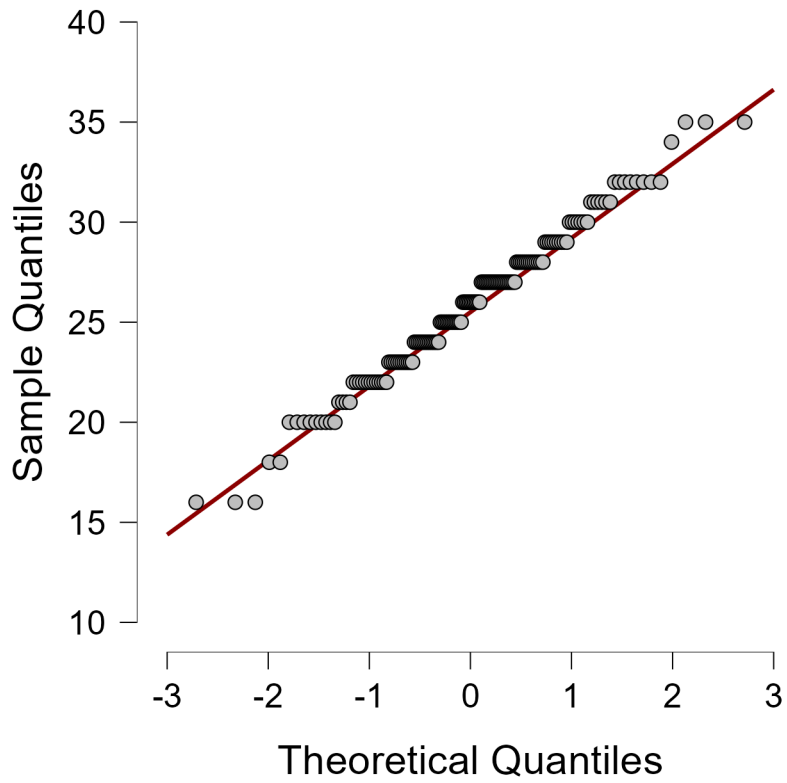


Experimental

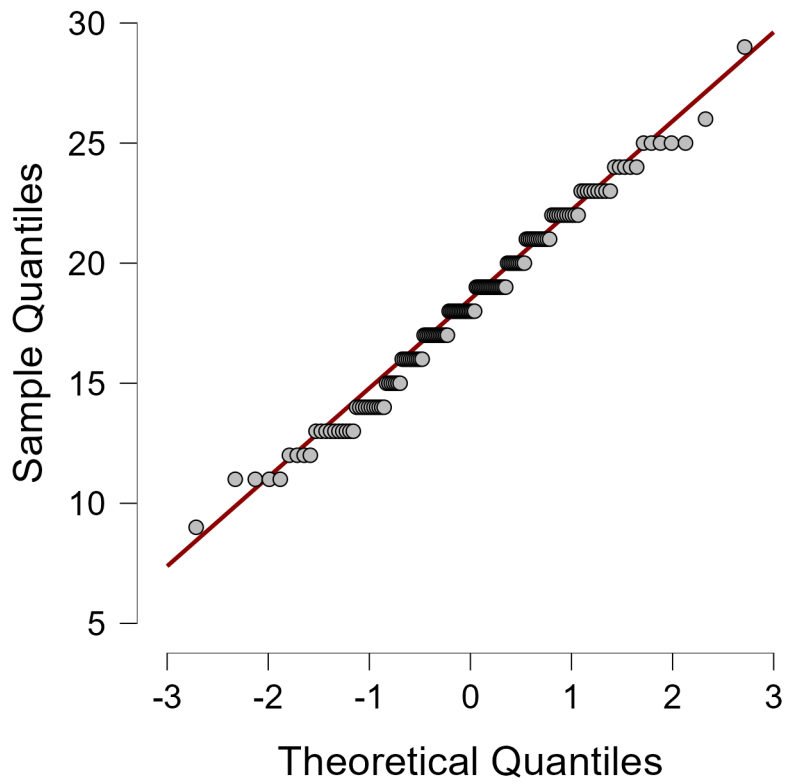


Post_Similarity

Control



Experimental



Independent Samples T-Test (Gain Scores)

Independent Samples T-Test

	t	df	p	Cohen's d	SE Cohen's d
Gain_Score	-10.492	298	< .001	-1.211	0.135

Note. Student's t-test.

Assumption Checks

Test of Normality (Shapiro-Wilk)

		W	p
Gain_Score	Control	0.985	0.103
	Experimental	0.989	0.272

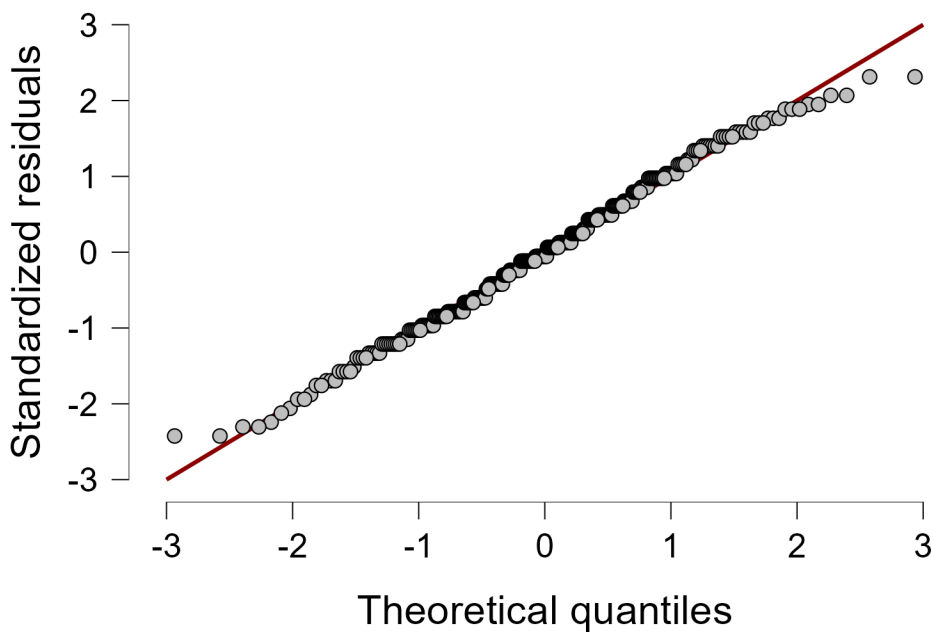
Note. Significant results suggest a deviation from normality.

Test of Equality of Variances (Levene's)

	F	df ₁	df ₂	p
Gain_Score	0.133	1	298	0.715

Q-Q Plots

Gain_Score



Descriptives

Group Descriptives

	Group	N	Mean	SD	SE	Coefficient of variation
Gain_Score	Control	150	23.647	5.542	0.452	0.234
	Experimental	150	30.307	5.453	0.445	0.180

ANOVA (Pre)

ANOVA - Pre_Similarity

Cases	Sum of Squares	df	Mean Square	F	p
Group	61.653	1	61.653	4.380	0.037
Residuals	4194.333	298	14.075		

Note. Type III Sum of Squares

Descriptives

Descriptives - Pre_Similarity

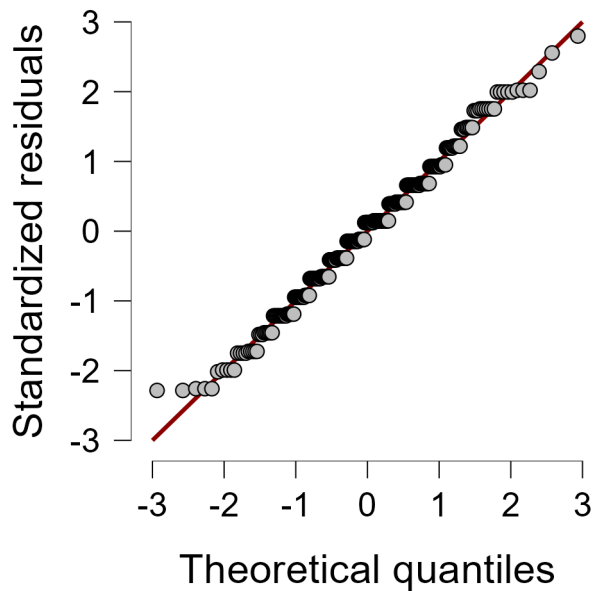
Group	N	Mean	SD	SE	Coefficient of variation
Control	150	49.447	3.878	0.317	0.078
Experimental	150	48.540	3.621	0.296	0.075

Assumption Checks

Test for Equality of Variances (Levene's)

F	df1	df2	p
0.250	1.000	298.000	0.617

Q-Q Plot



ANOVA (Post)

ANOVA - Post_Similarity

Cases	Sum of Squares	df	Mean Square	F	p
Group	4294.083	1	4294.083	291.434	< .001
Residuals	4390.833	298	14.734		

Note. Type III Sum of Squares

Descriptives

Descriptives - Post_Similarity

Group	N	Mean	SD	SE	Coefficient of variation
Control	150	25.800	3.889	0.318	0.151
Experimental	150	18.233	3.787	0.309	0.208

Assumption Checks

Test for Equality of Variances (Levene's)

F	df1	df2	p
0.061	1.000	298.000	0.805

Q-Q Plot

