

```

UNIANOVA ROMChange BY Modality Med
/METHOD=SSTYPE(3)
/INTERCEPT=INCLUDE
/PLOT=PROFILE(Modality*Med Med*Modality) TYPE=LINE ERRORBAR=NO MEANREFERENCE=NO YAXIS=AUTO
/PRINT ETASQ DESCRIPTIVE HOMOGENEITY OPOWER
/CRITERIA=ALPHA(.05)
/DESIGN=Modality Med Modality*Med.

```

Univariate Analysis of Variance

Table 25-3 Two-Way ANOVA for the Effect of Medication and Modality on Pain-Free ROM: Showing No Interaction

Run using General Linear Model/Univariate/Options: Descriptive statistics, Estimates of effect size, Observed power, Homogeneity tests

Between-Subjects Factors

		Value Label	N
Modality	1	Ice	20
	2	Splint	20
	3	Rest	20
Med	1	NSAID	30
	2	No Med	30

Descriptive Statistics

Dependent Variable: ROMChange

Modality	Med	Mean	Std. Deviation	N
Ice	NSAID	45.0000	3.62093	10
	No Med	36.0000	4.13656	10
	Total	40.5000	5.96922	20
Splint	NSAID	33.0000	3.65148	10
	No Med	25.0000	3.59011	10
	Total	29.0000	5.40954	20
Rest	NSAID	22.0000	2.82843	10
	No Med	12.0000	2.66667	10
	Total	17.0000	5.78564	20
Total	NSAID	33.3333	10.09723	30
	No Med	24.3333	10.53838	30
	Total	28.8333	11.19347	60

Levene's Test of Equality of Error Variances^{a,b}

		Levene Statistic	df1	df2	Sig.
ROMChange	Based on Mean	.654	5	54	.660
	Based on Median	.556	5	54	.733
	Based on Median and with adjusted df	.556	5	47.580	.733
	Based on trimmed mean	.656	5	54	.658

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.^{a,b}

a. Dependent variable: ROMChange

b. Design: Intercept + Modality + Med + Modality * Med

Tests of Between-Subjects Effects

Dependent Variable: ROMChange

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared	Noncent. Parameter	Observed Power ^b
Corrected Model	6748.333 ^a	5	1349.667	113.171	.000	.913	565.854	1.000
Intercept	49881.667	1	49881.667	4182.624	.000	.987	4182.624	1.000
Modality	5523.333	2	2761.667	231.568	.000	.896	463.137	1.000
Med	1215.000	1	1215.000	101.879	.000	.654	101.879	1.000
Modality * Med	10.000	2	5.000	.419	.660	.015	.839	.115
Error	644.000	54	11.926					
Total	57274.000	60						
Corrected Total	7392.333	59						

a. R Squared = .913 (Adjusted R Squared = .905)

b. Computed using alpha = .05

Profile Plots

