Table 32-3 Test-Retest Reliability Results for Grip Strength in Patients with Carpal Tunnel Syndrome

RELIABILITY

/VARIABLES=trial1 trial2

/SCALE('ALL VARIABLES') ALL

/MODEL=ALPHA

/STATISTICS=DESCRIPTIVE ANOVA

/SUMMARY=MEANS

/ICC=MODEL(RANDOM) TYPE(ABSOLUTE) CIN=95 TESTVAL=0.

Reliability

Run using Scale > Reliability Analysis > Statistics: Intraclass Correlation Coefficient / ANOVA table: F test / Model: Two-Way Random / Type: Absolute Agreement-- Used to calculate SEM based on test-retest

Scale: ALL VARIABLES

Case Processing Summary

		N	%
Cases	Valid	50	100.0
	Excludeda	0	.0
	Total	50	100.0

a. Listwise deletion based on all variables in the procedure.

Reliability Statistics

	Alpha Based on	
Cronbach's	Standardized	
Alpha	Items	N of Items
.950	.954	2

Item Statistics

	Mean	Std. Deviation	N	
trial1	66.0800	15.03715	50	
trial2	66.5400	13.19432	50	

Summary Item Statistics

					Maximum /		
	Mean	Minimum	Maximum	Range	Minimum	Variance	N of Items
Item Means	66.310	66.080	66.540	.460	1.007	.106	2

ANOVA								
Sum of Squares df Mean Square F Sig								
Between People		18668.890	49	380.998				
Within People	Between Items	5.290	1	5.290	.275	.602		
	Residual	941.210	49	19.208				
	Total	946.500	50	18.930				
Total		19615.390	99	198.135				

Grand Mean = 66.3100

Intraclass Correlation Coefficient

	Intraclass	95% Confidence Interval		F Test with True Value 0			
	Correlation ^b	Lower Bound	Upper Bound	Value	df1	df2	Sig
Single Measures	.905ª	.839	.945	19.835	49	49	.000
Average Measures	.950	.912	.972	19.835	49	49	.000

Two-way random effects model where both people effects and measures effects are random.

- a. The estimator is the same, whether the interaction effect is present or not.
- b. Type A intraclass correlation coefficients using an absolute agreement definition.