Cheatography

Analysis of Covariance - ANCOVA Cheat Sheet by Cerulean via cheatography.com/35405/cs/11131/

When to use ANCOVA in place of ANOVA		Effect Size
To reduce within-group error	Elimination of confounds	Partial Eta Squared
variance		= SS ^{effect} / (SS ^{effect} + SS ^{residual})
Reducing SS <i>residual</i> through covariates	Variables known to influence DV (and not IV)	= variance explained/ (variance explained + error variance)
		Eta Squared uses SS ^{total} in place of (SS ^{effect} + SS ^{residual}). Partial eta
ASSUMPTIONS		squared removes the variance explained by the covariate from SS ^{tota}
Additivity and Linearity		Contrasts
	Is the relationship linear?	
Normally Distributed Sampling Dist	ribution of Means	SPSS: Contrasts button in Univariate dialog box Several possibili
S-W and K-S tests	Q-Q plots and histograms	Post hoc Tests
Homogeneity of Variance		Options button. Display Means for IV.
Levene's Test		Tick Compare main effects
Independence of scores		Confidence interval adjustment
	Are the groups independent?	Bonferroni (recommended); Sidak is conservative; LSD liberal (not
No Univariate Outliers		recommended).
Tested with Z-score conversion	Above or below +/- 3.29 (Field, 2013)	Contrast Effect Sizes
Independence of Covariate (CV) and Treatment Effect		Contrasts are effectively t-tests
Tested using ANOVA or t-test for	CV should not share variance with	Can calculate r
Covariate and Treatment	treatment IV	r contrast = Square root $[t^2/(t^2 + df)]$
Homogeneity of Regression Slopes	3	· · · · · //
Tested using custom model,	Does the relationship CV and	
including interaction for CV and DV	outcome apply to all treatment groups	

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