



SPSS Tip 7.4

Alternatives to Friedman's ANOVA

In the 'Settings' tab of the dialog box in Figure 7.16 there are other tests that can be selected:

Kendall's W (coefficient of concordance): This is similar to Friedman's ANOVA but is used specifically for looking at the agreement between raters. If, for example, we asked 10 different women to rate the attractiveness of Justin Timberlake, David Beckham, and Barack Obama we could use this test to look at the extent to which they agree. This test is particularly useful because, like the correlation coefficient, Kendall's *W* has a limited range: it ranges from 0 (no agreement between judges) to 1 (complete agreement between judges).

Cochran's Q: This test is an extension of McNemar's test (see SPSS Tip 7.2) and is basically a Friedman test for when you have dichotomous data. So imagine you asked 10 people whether they'd like to snog Justin Timberlake, David Beckham and Barack Obama and they could answer only yes or no. If we coded responses as 0 (no) and 1 (yes) we could do the Cochran test on these data.

