Non-parametric tests for Schizophrenia data (15 pairs)

Differences (unaff – aff), sorted by absolute value

0.02 0.03 0.04 0.07 0.09 0.10 0.11 0.13 -0.19 0.19 0.23 0.40 0.50 0.59 0.67

Sign test: only based on sign of difference: 1 out of 15

 As or more extreme are 0, 1, 14, or 15 out of 15

 p = 0.0018

Wilcoxon signed rank test:

 negative value is 9.5’th largest (tie at -19, 19 = 9’th and 10’th largest)

 exact p = 0.0020

 normal approx. p = 0.0038

What if differences were:

-0.01 0.02 0.03 0.04 0.07 0.09 0.10 0.11 0.13 0.19 0.23 0.40 0.50 0.59 0.67

Sign test: only based on sign of difference: 1 out of 15

 As or more extreme are still 0, 1, 14, or 15 out of 15

 p = 0.0018

Wilcoxon signed rank test:

 negative value is 1’st largest

 exact p = 0.0001

 normal approx. p = 0.0008