Statistical Analysis Method and Effect Size

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| --- | --- | --- | --- |
| *Two Groups*  *Unrelated* | *Two Groups*  *Related* | *Three or more Groups*  *Unrelated* | *Three or more Groups Related* |
| **Chi Square**  Difference between Proportions | **McNemar**  Difference between Proportions | **Chi Square**  Difference between Proportions | **Cochran’s Q**  Report ES for post hoc tests. |
| **Mann-Whitney U**  .1=small  .3=medium  .5=large | **Wilcoxon Sum Rank** | **Kruskal-Wallis**  Can also calculate r for each comparison made | **Friedman’s Test**  Calculate r for each comparison made |
| **Independent t-test** | **Paired t-Test** | **ANOVA**  ω2 | **Welch Test**  ω2 |