**Table C.1: Using Excel for Statistical Analysis of Data for Human Service Evaluation**

*Directions: Read this table from left to right to find the statistic needed for your situation, the Excel file for your data, and the You Tube lecture that will demonstrate how to do the analysis (including the power point presentation to secure for this lecture).*

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| **Situation**  **Number** | **Research**  **Design** | **Level of measure-**  **ment** | **Data**  **structure** | **Statistic** | **Excel file** | **Power point and You Tube lecture** |
| 1 | One group  pretest-posttest | Interval | You are comparing a set of scores to a single score.1 | One-sample t test | *York #1, one-sample t test, comparing interval variable to a single score* | Power point: York, one-sample t using Excel.  Click here for you tube demonstration  <https://www.youtube.com/watch?v=_vXhrKCW5es> |
| 2 | You are comparing a set of matched scores for a single group. 2 | Paired t test | *York #2, paired t using Excel***.** | Power point: York, paired t test, comparing a set of matched scores. Click below for you tube:  <https://www.youtube.com/watch?v=O4Yy-xKoi9k> |
| 3 | Nominal & dichotomous | You are comparing the proportions of positive measurements for two time periods3 | Binomial test | *York, #7, binomial test, pretest-posttest, dichotomous data* | Power point: York, binomial test for pre-post using Excel  Click here for you tube demonstration  <https://www.youtube.com/watch?v=ntnQKCzBPfk> |
| 4 | Comparison group | Interval | You are comparing the scores of two groups.4 | Independent t test | *York #3, Independent t test, comparing scores of two groups* | Power point: York, independent t using Excel.  Click here for you tube demonstration.  <https://www.youtube.com/watch?v=LU_r2Mz5r1E> |
| 5 | Nominal & dichotomous | You are comparing the proportions of favorable behavior between two groups of people.5 | Chi square. | *York #4, chi square, comparison group, dichotomous data* | Power point: York, Chi square using Excel  Click here for you tube demonstration  <https://www.youtube.com/watch?v=8nbNp1ImjmM> |
| 6 | Posttest-only group | Nominal & dichotomous | You are comparing posttest data to a threshold proportion.6 | Binomial test | York #8, binomial test, posttest compared to a threshold proportion | Power point: York, binomial test, posttest compared to a threshold, dichotomous data  [**https://www.youtube.com/watch?v=w7kiH99DaTA**](https://www.youtube.com/watch?v=w7kiH99DaTA) |
| 7 | AB single subject | Interval | You are comparing a set of treatment scores to a set of baseline scores.7 | Standard deviation | *York #6, standard deviation approach, AB design, no slope in baseline scores* | Power point: York, standard deviation with AB design, using Excel. Click below for you tube.  <https://www.youtube.com/watch?v=HQiPNvaLuZU> |
| 8 | Nominal & dichotomous | You are comparing a set of favorable treatment behaviors to favorable baseline behaviors8 | Binomial test | York #5, binomial test, AB design, dichotomous data | Power point: York, binomial test for AB using Excel  Click here for you tube demonstration:  <https://www.youtube.com/watch?v=qlBWfCJAUQY> |
| 9 | Limited AB single subject | Interval | You are comparing a set of treatment scores to a single baseline score9 | One-sample t test | *York #1, one-sample t test, comparing interval variable to a single score* | Power point: York, one-sample t using Excel**.**  Click here for you tube demonstration:  <https://www.youtube.com/watch?v=_vXhrKCW5es> |