| Number of Dependent Variables | Nature of Independent Variables | Nature of Dependent Variable(s)* | Test(s) | How to SAS | How to Stata |
|---|---|---|---|---|---|
| 1 | 0 IVs (1 population) | interval & normal | one-sample t-test | SAS | Stata |
| | | ordinal or interval | one-sample median | SAS | Stata |
| | | categorical (2 categories) | binomial test | SAS | Stata |
| | | categorical | Chi-square goodness-of-fit | SAS | Stata |
| | 1 IV with 2 levels (independent groups) | interval & normal | 2 independent sample t-test | SAS | Stata |
| | | ordinal or interval | Wilcoxon-Mann Whitney test | SAS | Stata |
| | | categorical | Chi-square test | SAS | Stata |
| | | | Fisher's exact test | SAS | Stata |
| | 1 IV with 2 or more levels (independent groups) | interval & normal | one-way ANOVA | SAS | Stata |
| | | ordinal or interval | Kruskal Wallis | SAS | Stata |
| | | categorical | Chi-square test | SAS | Stata |
| | 1 IV with 2 levels (dependent/matched groups) | interval & normal | paired t-test | SAS | Stata |
| | | ordinal or interval | Wilcoxon signed ranks test | SAS | Stata |
| | | categorical | McNemar | SAS | Stata |
| | 1 IV with 2 or more levels (dependent/matched groups) | interval & normal | one-way repeated measures ANOVA | SAS | Stata |
| | | ordinal or interval | Friedman test | SAS | Stata |
| | | categorical (2 categories) | repeated measures logistic regression | SAS | Stata |
| | 2 or more IVs (independent groups) | interval & normal | factorial ANOVA | SAS | Stata |
| | | ordinal or interval | ordered logistic regression | SAS | Stata |
| | | categorical (2 categories) | factorial logistic regression | SAS | Stata |
| | 1 interval IV | interval & normal | correlation | SAS | Stata |
| | | interval & normal | simple linear regression | SAS | Stata |
| | | ordinal or interval | non-parametric correlation | SAS | Stata |
| | | categorical | simple logistic regression | SAS | Stata |
| | 1 or more interval IVs and/or 1 or more categorical IVs | interval & normal | multiple regression | SAS | Stata |
| | | categorical | analysis of covariance | SAS | Stata |
| | | | multiple logistic regression | SAS | Stata |
| | | | discriminant analysis | SAS | Stata |
| 2+ | 1 IV with 2 or more levels (independent groups) | interval & normal | one-way MANOVA | SAS | Stata |
| | 2+ | interval & normal | multivariate multiple linear regression | SAS | Stata |
| | 0 | interval & normal | factor analysis | SAS | Stata |
| 2 sets of 2+ | 0 | interval & normal | canonical correlation | SAS | Stata |