

# NCSS Procedure and Topic List (Categorized)

## Analysis of Variance (ANOVA)

Alias	Comparing Two Means	Hierarchical Models
Analysis of Covariance	Compound Symmetry	Histograms
Analysis of Covariance (ANCOVA) with Two Groups	Confidence Interval	Hoeffding Test
Analysis of Two-Level Designs	Confounding	Homogeneity Test
Analysis of Variance	Constant Variance Test	Homoskedasity
Analysis of Variance for Balanced Data	COV	Honest Significant Difference
ANCOVA	Covariance	Hsu's M. C. with the Best
Anderson-Darling Normality Test	Covariance Analysis	Huynh-Feldt Epsilon
ANOVA	Covariance Matrix	Kaplan-Meier
AOV	Custom Comparisons	Kaplan-Meier Curves
Area Under Curve	Custom Model	Kendall's Concordance Coefficient
AUC	Data Plots	Kruskal-Wallis Test
Average Absolute Percent Error	Descriptive Statistics	Kruskal-Wallis Z M. C. Test
Balanced ANOVA	Duncan's Test	Kurtosis Normality Test
Balanced Design Analysis of Variance	Dunnett's Confidence Intervals	Lambda
Bartlett's Test	Dunnett's Test vs. a Control	Lambda vs. SD Plots
Between Factors	Dunn's Test	Latin Square Design Analysis
Bonferroni	Dwass-Steel-Critchlow-Fligner Test	Lawley-Hotelling Trace
Bonferroni Test	EDF Plots	Levene's Equal Variance Test
Box Plots	Eigenvalues	Logrank Test
Box-Cox Algorithm	Empirical Distribution Function	MANOVA
Box-Cox for ANOVA	Equal Variance Tests	Mauchly's Test of Compound Symmetry
Box-Cox for One-Way ANOVA	Expected Mean Squares	Means
Box-Cox for T-Test	Expected Normal Scores Test	Means Plots
Box-Cox Plots	Factorial Design Analysis	Median Test
Box-Cox Power Transformation	Fisher's LSD Test	Model Fitting
Box-Cox Transformation	Fisher-Yates Test	Modified Levene's Test
Box-Cox Transformation for Two or More Groups (T-Test and One-Way ANOVA)	Fixed Factor	Multicollinearity
Box's M Test	Fractional Factorial Design Analysis	Multiple Comparison Tests
Brown-Forsythe Test	Friedman's Q Statistic	Multiple Comparisons Plots
Canonical Variates	Friedman's Rank Test	Multisample Test
Censoring	F-Test	Multivariate Analysis
Circularity	Gehan Test	Multivariate Analysis of Variance (MANOVA)
Coefficient of Variation	Geisser-Greenhouse Adjustment	Nested Factors
Coefficients	General Linear Models	Newman-Keuls Test
Collinearity	General Linear Models (GLM)	Nondetects Analysis
	General Linear Models (GLM) for Fixed Factors	Nondetects-Data Group Comparison
	GLM	Nonparametric
	Group Comparison Plots	

## NCSS Procedure and Topic List (Categorized)

Nonparametric Multiple Comparison Test	Probability Plots	Terry-Hoeffding Test
Nonparametric Tests	Random Factor	Tests for Two-Factor Interactions
Normal Scores Test	Randomized Block Design Analysis	Transformations
Normality Tests	Ranks	Transformations - Box-Cox
Omnibus Normality Test	Regression	Transformations - Power
One-Way Analysis of Covariance (ANCOVA)	Repeated Measures	Transformations to Normality
One-Way Analysis of Variance	Repeated Measures Analysis of Variance	T-Test
One-Way ANOVA	Residual Plots	Tukey-Kramer Simultaneous Confidence Intervals
Orthogonal Contrasts	Residuals	Tukey-Kramer Test
Orthogonal Polynomial Contrasts	Roy's Largest Root	Tukey's HSD
Outliers	R-Squared	Two-Level Design Analysis
Paired Comparisons	Scatter Plots	Two-Sample T-Test
Partial Residual Plots	Scheffe's Test	Unequal Variances Tests
Peto-Peto Test	Shapiro-Wilk Normality Test	Unweighted Means F-Test
Pillai's Trace	Sidak Test	UWM F-Test
Planned Comparisons	Simultaneous Confidence Intervals	Van der Waerden Test
Plots	Skewness Normality Test	Variance Equality Tests
Power Transformation	Slopes - Testing for Equal	Welch's Test with Unequal Variances
Predicted Values	Split-Plot Design Analysis	Wilks' Lambda
Prediction Limits	Subject Plots	Within Factors
	Tarone-Ware Test	Yhat

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## Appraisal

Additive Model	Coefficient of Variation	Descriptive Statistics - Summary Tables
Adjusted R-Squared	Coefficients	Descriptive Tables
Adjustment	Comparability	DFBETA
Analysis of Covariance	Comparable Property	DFFITS
Analysis of Variance	Comparables	Differential Evolution
ANCOVA	Comparables Appraisal	Dispersion
Anderson-Darling Normality Test	Confidence Band	Distance Metric
ANOVA	Confidence Interval	Distribution Statistics
AOV	Cook's D	Durbin-Watson Test
Appraisal	Cook's Distance	EDF
Appraisal Models	Correlation - Pearson	Eigenvalues
Appraisal Ratio Studies	Correlation - Spearman	Eigenvectors
Assessment Models	Correlation Coefficient	Estimation of Property Values
Autocorrelation Regression	Correlation Matrix	Euclidean Distance
Autocorrelations	Counts	Feedback Model
Autoregressive Error Model	COV	Fisher's g1
Average Absolute Percent Error	Covariance	Fisher's g2
Bar Charts	Cp	Fisher's Z Transformation
Bootstrap Confidence Interval	Curve Fitting	Forecasting
Bootstrapping	Custom Model	Forward Selection
Candidate Properties	CV	F-Test
Central Moments	D'Agostino Kurtosis Normality Test	Geometric Mean
COC	D'Agostino Omnibus Normality Test	Harmonic Mean
Cochrane-Orcutt Procedure	D'Agostino Skewness Normality Test	Hat Diagonal
COD	Data Fitting	Hat Values
Coefficient of Concentration	Descriptive Statistics	Heteroscedasticity
Coefficient of Dispersion	Descriptive Statistics - Summary Lists	Histograms
Coefficient of Price-Related Bias		

## NCSS Procedure and Topic List (Categorized)

Horizontal Equity	Multiple Regression	Sales Comparison Approach
Hybrid Appraisal Models	Multiple Regression - Basic	Sales Ratio Study
Influence	Multiple Regression for Appraisal	Scatter Plots
Interquartile Range	Multiple Regression with Serial	Screening Data
IQR	Correlation	SD
Kolmogorov-Smirnov Test	Multiplicative Model	SE
Kurtosis	Nash's MRT Algorithm	Sequence Plots
Kurtosis Normality Test	Nonlinear Regression	Sequential Models
Lack-of-Fit Test	Nonparametric Tests	Serial Correlation
Least Squares	Normal Distribution	Serial Correlation Plots
Levenberg-Marquardt Nonlinear	Normal Probability	Shapiro-Wilk Normality Test
Least-Squares Algorithm	Normal Probability Plots	Similarity of Properties
Levene's Equal Variance Test	Normality Tests	Simple Linear Regression
Lilliefors' Critical Values	OLS	Single Property Appraisal
Linear Regression	Ordinary Least Squares	Skewness
Linear Regression and Correlation	Orthogonal Regression	Skewness Normality Test
Loess	Outlier Detection	Slopes - Testing for Equal
Lowess	Outliers	Spearman Correlation
MAD	Partial Correlation	Spearman Rank Correlation
MADM	Partial Residual Plots	Standard Deviation
Mallow's Cp	Pearson Correlation	Standard Error
MAPDMMADM	Percentiles	Stem-and-Leaf Plots
Market Value	PRB	Stem-Leaf Plots
Martinez-Iglewicz Normality Test	PRD	Subject Property
Mass Appraisal	Predicted Values	Summary Lists
Maximum	Prediction Limits	Summary Tables
Mean Absolute Deviation	PRESS Statistics	Sums
Mean Absolute Deviation from the	Price-Related Bias	Table of Means
Median	Price-Related Differential	Tables - Descriptive
Means	Probability Ellipse	Tests for Two-Factor Interactions
Median	Probability Plots	Time Series Plots
Median Absolute Deviation from the	Property Valuation	Trimmed Mean
Median	Quartiles	Trimmed Standard Deviation
Median Absolute Percent Deviation	Randomization Test	Variance
from the Median	Range	Variance Inflation Factor
M-Estimators	Ratio study	Variance Test
Minimum	Regression	Variation
Minkowski Distance	Regression Analysis	Vertical Equity
Missing Count	Regression for Appraisal	VIF
Mode	Residual Plots	Weighted Coefficient of Dispersion
Model Fitting	Residuals	Weighted Coefficient of Variation
Model Fitting for Appraisal	R-Squared	Working-Hotelling C.I. Band
Moment	RStudent Residuals	Working-Hotelling Limits
Multicollinearity	Sale Date Adjustment	Yhat
Multiple Linear Regression	Sale Price Adjustment	

## Cluster Analysis

Agglomerative Hierarchical Clustering	Double Dendrograms	Median Linkage
Bivariate Plots	Dunn's Partition Coefficient	Medoid Clustering
Centroid Linkage	Euclidean Distance	Medoid Partitioning
Cluster Analysis	Flexible Strategy Linkage	Membership Matrix
Cluster Means	Fuzzy Clustering	Model Fitting
Cluster Medoid	Goodness-of-Fit Tests	Multiple Regression
Cluster Standard Deviations	Group Average Linkage	Nearest Neighbor Linkage
Clustered Heat Maps (Double Dendrograms)	Heat Maps	Partition Around Medoids
Clustering	Heatmaps	Regression Clustering
Complete Linkage	Hierarchical Clustering	Regression Exchange Algorithm
Cophenetic Correlation	Hierarchical Clustering / Dendrograms	Silhouettes
Correlation Coefficient	Kaufman-Rousseeuw Algorithm	Simple Average Linkage
Dendrograms	K-Means Clustering	Single Linkage
Dissimilarity	Linkage	Spath Algorithm
Distance	Manhattan Distance	Ward's Minimum Variance Linkage
	Median	

## Correlation

Adjusted R-Squared	Circular Data Correlation	DFBETA
Agreement	Circular Data Plots	DFFITS
Alpha - Cronbach's	Circular Dispersion	Diagnostic Tests
Analysis of Variance	Circular Histograms	Dichotomous Correlation
Anderson-Darling Normality Test	Circular Statistics	Durbin-Watson Test
Angular Data Analysis	Circular Uniform Distribution	Eigenvalues of a Correlation Matrix
ANOVA	Circular Variance	Eigenvector Plot
AOV	Coefficient Alpha	Eigenvectors of a Correlation Matrix
Autocorrelations	Coefficient of Variation	Equal-Variance Tests
Average-Difference Plots	Coefficients	Equivalence Tests
Bartlett's Sphericity Test	Concordance Coefficient	Fisher's Z Transformation
Binary Correlation	Concordance Correlation Coefficient	Forecasting
Biserial Correlation	Confidence Band	Hat Diagonal
Bland-Altman	Confidence Interval	Hat Values
Bland-Altman Plot and Analysis	Cook's D	Heat Map of Correlations
Bland-Altman Plots	Cook's Distance	Heteroscedasticity
Bootstrap Confidence Interval	Correlation	Histograms
Bootstrapping	Correlation - Kendall's Tau	Influence
Box Plots	Correlation - Pearson	Item Analysis
Box-Cox Algorithm	Correlation - Point-Biserial	Kendall's Tau Correlation
Box-Cox for Linear Regression	Correlation - Spearman	Kuiper's Test
Box-Cox for Regression	Correlation Coefficient	Lack-of-Fit Test
Box-Cox Plots	Correlation Confidence Interval	Lambda
Box-Cox Power Transformation	Correlation Matrix	Levene's Equal Variance Test
Box-Cox Transformation	Correlations - Partial	Likelihood Ratio Test
Box-Cox Transformation for Simple Linear Regression	COV	Limits of Agreement
Brown-Forsythe Test	Cox Test	Linear Regression
Canonical Correlation	Cronbach's Alpha	Linear Regression - Box-Cox
CCC	D'Agostino Kurtosis Normality Test	Linear Regression and Correlation
Circular Correlation	D'Agostino Omnibus Normality Test	Lin's CCC
	D'Agostino Skewness Normality Test	

## NCSS Procedure and Topic List (Categorized)

Lin's Concordance Correlation Coefficient	Pearson Correlation	Scatter Plots
LoA	Plot of Eigenvectors	Scores Plots
Loess	Plot of Principal Components	Serial Correlation
Lowess	Point-Biserial and Biserial Correlations	Serial Correlation Plots
Mardia-Watson-Wheeler Uniform-Scores Test	Point-Biserial Correlation	Shapiro-Wilk Normality Test
Mean Comparison	Power Transformation	Simple Correlation Coefficient
Mean Difference	Precision Measure	Simple Linear Correlation
Mean Direction	Predicted Values	Simple Linear Regression
Mean Equality	Prediction Limits	Spearman Correlation
Means	PRESS Statistics	Spearman Rank Correlation
Measurement Error	Principal Components of a Correlation Matrix	Standard Error
Method Comparison	Probability Ellipse	Standardized Canonical Coefficients
Model Fitting	Probability Plots	Transformations
Modified Kuiper's Test	Product-Moment Correlation	Transformations - Box-Cox
Multicollinearity	Randomization Test	Transformations - Power
Multivariate Analysis	Rater Reliability	Transformations to Normality
Nonparametric Correlation	Rayleigh Test	Uniformity Test
Nonparametric Tests	Regression	Variable-Variate Correlations
Normality Plots	Reliability	Variance Test
Normality Tests	Reproducibility	Von Mises Distribution
Orthogonal Regression	Residual Plots	Watson and Williams Test
Outlier Detection	Residuals	Watson Test
Outliers	Rose Plots	Watson-Williams F-Test
Paired T-Test	R-Squared	Wilks' Lambda
Partial Correlation	RStudent Residuals	Working-Hotelling C.I. Band
	Sample Correlation Coefficient	Working-Hotelling Limits
		Yhat

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## Curve Fitting

Bleasdale-Nelder Model Fit	Hill Model Fit	Normal Model Fit
Bootstrap Confidence Interval	Holliday Model Fit	Normal Range
Bootstrapping	Hyperbola	Normality Test
Centiles	Kinetics	Normality Tests
Cubic Model Fit	Levenberg-Marquardt Nonlinear Least-Squares Algorithm	Percentiles
Curve Fitting	Linear Model Fit	Plots
Curve Fitting - General	Linear-Linear Model Fit	Polynomial Ratio
Curve Fitting Plots	Linear-Linear-Linear Model Fit	Polynomial Ratio Model Fit
Curve Fitting Scatter Plot Matrix	Linear-Quadratic Model Fit	Polynomial Regression
Curve Inequality Test	Logarithmic Model Fit	Power Model Fit
Draw Function	Logistic Model Fit	Predicted Values
Enzyme Kinetics	Log-Normal Model Fit	Probability Plots
Equation Plots	Michaelis-Menten Equation	Quadratic Model Fit
Exponential Model Fit	Michaelis-Menten Model Fit	Quadratic-Linear Model Fit
Farazdaghi and Harris Model Fit	Model Fitting	Quadratic-Quadratic Model Fit
Fetal Size	Model Searching	Quantile Regression
Formula Plots	Monomolecular Model Fit	Randomization Test
Fractional Polynomial Regression	Morgan-Mercer-Floding Model Fit	Ratio of Polynomials
Fractional Polynomials	Multivariate Polynomial Ratio Fit	Ratio of Polynomials Fit
Function Plots	Nash's MRT Algorithm	Ratio of Polynomials Fit - Many Variables
Gompertz Model Fit	Nonlinear Regression	
Goodness-of-Fit Tests		

## NCSS Procedure and Topic List (Categorized)

Ratio of Polynomials Fit - One Variable	Reference Intervals - Age-Specific	Scattergraph
Ratio of Polynomials Search	Reference Range	Shapiro-Wilk Normality Test
Ratio of Polynomials Search - Many Variables	Regression	Shinozaki and Kira Model Fit
Ratio of Polynomials Search - One Variable	Residual Plots	Sum of Exponentials Model Fit
Reciprocal Model Fit	Richards Model Fit	Sum of Functions Models
Reference Interval	R-Squared	Tolerance Intervals
Reference Intervals	Scatter Diagram	Weibull Fitting
	Scatter Plot Matrix	Weibull Model Fit
	Scatter Plot Matrix for Curve Fitting	
	Scatter Plots	

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## Descriptive Statistics

Adjusted Kappa Statistic	Cochran-Armitage Proportion Trend Test with Continuity Correction	Distribution Statistics
Anderson-Darling Normality Test	COD	Dunnnett Multiple Comparisons of Proportions versus a Control
Angular Data Analysis	Coefficient of Dispersion	EDF
Angular Transformation of Proportions	Coefficient of Variation	ESD Outliers
ArcSin Transformation	Column Percentages	Exact Test
Area Under Curve	Combining Distributions	Expected Counts
Armitage Rank Correlation Test	Confidence Interval	Exponential Distribution
Association and Correlation Statistics	Constant Distribution	Extreme Studentized Deviate
AUC	Contaminated Normal Distribution	Extreme Values
Bar Charts	Contingency Tables	F Distribution
Beta Distribution	Contingency Tables (Crosstabs / Chi-Square Test)	Fisher's Exact Test
Bimodal Data	Continuity Correction	Fisher's g1
Binomial Distribution	Correlation Statistics	Fisher's g2
Block Outlier Tests	Count Adjustment	Frequency Tables
Bonferroni Multiple Comparisons of Proportions versus a Control	Count Tables	Gamma
Box-Cox Algorithm	Counts	Gamma Distribution
Box-Cox Plots	COV	Generating Data
Box-Cox Power Transformation	Cox Test	Geometric Mean
Box-Cox Transformation	Cramer's V	Grubbs' Outlier Test
Cauchy Distribution	Cross Tabulation	Grubbs' Test
Cell Counts	Crosstabs	Gumbel Distribution
Central Moments	CV	Harmonic Mean
Chi-Square	D'Agostino Kurtosis Normality Test	Histograms
Chi-Square Test	D'Agostino Omnibus Normality Test	Imputation
Circular Correlation	D'Agostino Skewness Normality Test	Imputing Data
Circular Data Analysis	Data Imputation	Independence Tests
Circular Data Plots	Data Plots	Interquartile Range
Circular Dispersion	Data Screening	Inter-Rater Agreement (Kappa)
Circular Histograms	Data Simulation	IQR
Circular Statistics	Descriptive Statistics	Kappa Reliability Test
Circular Uniform Distribution	Descriptive Statistics - Summary Lists	Kappa Statistic
Circular Variance	Descriptive Statistics - Summary Tables	Kappa Test for Inter-Rater Agreement
Cluster Means	Descriptive Tables	Kendall's Tau
Cluster Randomization	Detecting Outliers	Kolmogorov-Smirnov Normality Test
Cluster Randomization - Create Cluster Means Dataset	Dispersion	Kolmogorov-Smirnov Test
Cochran-Armitage Proportion Trend Test	Distribution Simulation	Kuiper's Test
		Kurtosis
		Kurtosis Normality Test

## NCSS Procedure and Topic List (Categorized)

Lambda	Outlier Test	Stem-Leaf Plots
Lambda vs. SD Plots	Outliers	Stephens Test
Laplace Distribution	Paired T-Test	Studentized Range Distribution
Likelihood Ratio Test	Pairwise Multiple Comparisons of Proportions	Student's T Distribution
Likert-Scale Data	Pearson's Chi-Square Test	Summarize Clusters
Lilliefors' Critical Values	Pearson's Contingency Coefficient	Summary Lists
Logistic Distribution	Percentages	Summary Tables
Lognormal Distribution	Percentiles	Sums
MAD	Phi	Symmetric Lambda
MADM	Plots	T Distribution
Many to one Multiple Comparisons of Proportions	Poisson Distribution	Table of Means
Mardia-Watson-Wheeler Uniform-Scores Test	Power Transformation	Table Percentages
Martinez-Iglewicz Normality Test	Probability Distribution Simulation	Table Statistics
Maximum	Probability Plots	Tables - Descriptive
McNemar Test	Proportion Trend Test	Test of Normality
Mean Absolute Deviation	Proportions	Tolerance Intervals
Mean Absolute Deviation from the Median	Proportions - Multiple Comparisons	Tolerance Limits
Mean Direction	Quartiles	Transformations
Means	Random Numbers	Transformations - Box-Cox
Median	Range	Transformations - Power
Minimum	Rayleigh Test	Transformations to Normality
Missing Count	Reliability	Trimmed Mean
Missing Value Estimation	Rose Plots	Trimmed Standard Deviation
Mixing Distributions	Rosner's Outlier Test	Tschuprow's T
Mode	Row Percentages	Tukey-Kramer Pairwise Multiple Comparisons of Proportions
Modified Kuiper's Test	Row-Column Independence Test	Tukey's Lambda Distribution
Moment	Score Test	Two-Way Tables
Monte-Carlo Simulation	Score Test Pairwise Multiple Comparisons of Proportions	Uniform Distribution
Multi-Group Concentration Homogeneity Test	Screening Data	Uniformity Test
Multinomial Distribution	SD	Variance
Multinomial Test	SE	Variation
Multiple Comparisons of Proportions	Shapiro-Wilk Normality Test	Von Mises Distribution
Multiple Comparisons of Proportions versus a Control	Simulate Data	Wald Ratio Multiple Comparisons of Proportions
Multivariate Normal Missing Value Estimation	Simulate Distribution	Watson and Williams Test
Normal Distribution	Simulation	Watson Test
Normal Probability	Simulator	Watson-Williams F-Test
Normal Probability Plots	Simultaneous confidence intervals of the differences among several proportions	Watson-Williams High Concentration F-Test
Normality Tests	Skewed Distribution	Weibull Distribution
Omnibus Normality Test	Skewness	Weighted Kappa
One-Sided Dunnett Multiple Comparisons of Proportions versus a Control	Skewness Normality Test	Weighted Kappa Reliability Test
Outlier Detection	Snedecor's F Distribution	Weighted Kappa Statistic
	Standard Deviation	Weighted Kappa Test for Inter-Rater Agreement
	Standard Error	Yates' Continuity Corrected Chi-Square Test
	Standardized Residuals	
	Stem-and-Leaf Plots	

## Design of Experiments

A-Efficiency	Determinant Analysis	Random Sorting using Maximum Allowable % Deviation
Alias	DOE	Random Subject Assignment
Aliasing	D-Optimal Designs	Randomization Algorithms
Analysis of Two-Level Designs	Efron's Biased Coin Randomization	Randomization Lists
Analysis of Variance	Expanded Design Matrix	Randomized Block Design
ANOVA	Experimental Design	Regression
AOV	Factorial Designs	Repeated Measures
Assigning Subjects to Groups	Fractional Factorial Designs	Replicated Designs
Balanced Incomplete Block Designs	Generate Designs	Response Surface
Biased Coin Randomization	Graeco-Latin Square Designs	Response Surface Designs
BIB Designs	Hierarchical Models	Response Surface Regression
BIBD	Hierarchical Regression	R-Squared
Block Randomization	Incomplete Block Designs	Screening Designs
Blocked Designs	Lack-of-Fit Test	Smith's Randomization
Box-Behnken Designs	Latin Square Designs	Split-Plot Design Generation
Candidate Points Report	Longitudinal Design	Strata
Centers	Means Plots	Stratification
Central-Composite Designs	Mixture Design	Taguchi Designs
Complete Randomization	Model Fitting	Two-Level Design Analysis
Confounding	Nested Factors	Two-Level Designs
Contour Plots	Orthogonal Arrays	Two-level Factorial Designs
Crossed Factors	Orthogonal Design	Wei's Urn Randomization
D-Efficiency	Plackett-Burman Designs	
Design Generator	Probability Plots	
Design of Experiments	Random Sorting	

## Diagnostic Tests

Accuracy	Comparing Two ROC Curves - Independent Groups Design	Likelihood Ratio
Area Under Curve	Comparing Two ROC Curves - Paired Design	Miss Rate
Area Under ROC Curve	Confidence Intervals for Comparing Two AUCs	Negative Likelihood Ratio
Area Under ROC Curve Confidence Interval	Confidence Intervals for Comparing Two Paired AUCs	Negative Predictive Value
AUC	Cost-Benefit Analysis	Non-Inferiority of Two AUCs
AUC Confidence Interval	Diagnostic Odds Ratio	Non-Inferiority of Two Paired AUCs
AUC Hypothesis Test	Diagnostic Tests	Non-Inferiority Test for Sensitivity
Binary Diagnostic Tests	Empirical ROC Curve	Non-Inferiority Test for Specificity
Binary Diagnostic Tests - Clustered Samples	Equivalence of Two AUCs	Nonparametric ROC Curves
Binary Diagnostic Tests - Paired Samples	Equivalence of Two Paired AUCs	NPV
Binary Diagnostic Tests - Single Sample	Equivalence Test for Sensitivity	Odds Ratio
Binary Diagnostic Tests - Two Independent Samples	Equivalence Test for Specificity	One ROC Curve and Cutoff Analysis
Binormal ROC Curve	Equivalence Tests	Optimal Criterion Value
Cluster Randomization	Fall-out	Paired ROC Curves
Clustered Binary Diagnostic Tests	False Discovery Rate	Positive Likelihood Ratio
Comparing Two AUCs	False Negative Rate	Positive Predictive Value
Comparing Two Paired AUCs	False Omission Rate	PPV
	False Positive Rate	Precision
		Prevalence
		Proportion Correctly Classified
		Proportions
		Proportions Tests

## NCSS Procedure and Topic List (Categorized)

Receiver Operating Characteristic Curve	Sensitivity Non-Inferiority Tests	Tests for Two AUCs
Sensitivity	Specificity	Tests for Two Paired AUCs
Sensitivity Confidence Interval	Specificity Confidence Interval	True Negative Rate
Sensitivity Equivalence Tests	Specificity Equivalence Tests	True Positive Rate
Sensitivity Hypothesis Tests	Specificity Hypothesis Tests	Youden Index
	Specificity Non-Inferiority Tests	

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## Distribution Fitting

Anderson-Darling Normality Test	Gamma Distribution Fitting	Normal Probability
Arcsine Square Root Hazard	Gamma Plots	Normal Probability Plots
At-Risk Table	Gamma Probability Plots	Normality Plots
Beta Distribution Fitting	Greenwood's Formula	Normality Tests
Beta Reliability Plots	Grubbs' Outlier Test	Number At Risk
Block Outlier Tests	Grubbs' Test	Omnibus Normality Test
Border Plots	Half-Normal Distribution	Outlier Detection
Box-Cox Power Transformation	Half-Normal Plots	Outlier Test
Box-Cox Transformation	Half-Normal Probability Plots	Outliers
Censoring	Hazard Function	Parametric Hazard Rate Plots
Chi-Square Distribution	Hazard Function Plots	Probability Plot Comparison
Chi-Square Plots	Hazard Rate	Probability Plots
Chi-Square Probability Plots	Hazard Rate Plots	Product-Limit Estimator
Compare Probability Plots	Histograms	Product-Limit Survivorship
Cumulative Hazard	Kaplan-Meier	Reliability
D'Agostino Kurtosis Normality Test	Kaplan-Meier Curves	Residuals
D'Agostino Omnibus Normality Test	Kolmogorov-Smirnov Normality Test	Rosner's Outlier Test
D'Agostino Skewness Normality Test	Kolmogorov-Smirnov Test	Shapiro-Wilk Normality Test
Descriptive Statistics	Kurtosis	Skewness
Detecting Outliers	Kurtosis Normality Test	Skewness Normality Test
Differential Evolution	Logistic Distribution	Survival Analysis
Distribution (Weibull) Fitting	Logistic Fit	Survival Distribution Fitting
Distribution Fitting	Logistic Probability Plots	Survival Function
Distribution Plots	Log-Logistic Distribution	Survival Plots
Epanechnikov Kernel	Log-Logistic Fit	Survivorship - Beta Plots
ESD Outliers	Log-Logistic Probability Plots	Survivorship - Gamma Plots
Exponential Distribution	Log-Normal Distribution	Survivorship Plots
Exponential Fit	Log-Normal Fit	Test of Normality
Exponential Probability Plots	Log-Normal Plots	Uniform Distribution
Extreme Studentized Deviate	Log-Normal Probability Plots	Uniform Probability Plots
Extreme Value Distribution	Martinez-Iglewicz Normality Test	Weibull Distribution
Extreme Value Fit	Mill's Ratio	Weibull Fit
Extreme Value Probability Plots	Nelson-Aalen Hazard	Weibull Probability Plots
Extreme Values	Newton-Raphson	
Failure Distribution	Normal Distribution	
Gamma Distribution	Normal Fit	

## Forecasting

Amplitude	Exponential Smoothing - Trend	Residual Plots
Analysis of Runs	Exponential Smoothing - Trend / Seasonal	Runs Analysis
ARIMA	Fast Fourier Transform	Runs Charts
ARIMA (Box-Jenkins)	Forecast Plots	Runs Test for Serial Randomness
ARMA	Forecasting	Runs Tests
Autocorrelation Plots	Fourier Plots	Scatter Plots
Autocorrelations	Fourier Series	Seasonal Differencing
Automatic ARMA	Frequencies	Seasonality
Backcasting	Function Plots	Serial Randomness
Box-Jenkins	Harmonic Regression	Sines
Box-Pierce-Ljung Statistic	Holt's Linear Trend	Single-Sample k-category Runs Test for Randomness
Computing Runs	Holt-Winters Exponential Smoothing	Single-Sample Runs Test for Randomness
Continuity Correction	Holt-Winters Forecasting	Single-Sample Runs Test for Serial Randomness
Correlation Coefficient	k-Category Runs Test for Randomness	Single-Sample Runs Tests
Correlogram	Ljung Statistic	Sinusoidal Regressions
Cosines	MAE	Spectral Analysis
Cross-Correlations	MAPE	Spectrum Plots
Cross-Correlations Plots	Multiple Regression	Test for Serial Randomness
Cycle	Nonparametric	Tests for Randomness
Cycle Regression	Nonparametric Tests	Tests for Runs
Cycle-Input	Number of Runs	Theoretical ARMA
Cycles	Partial Autocorrelation	Time Series
Cyclical Regression	Partial Autocorrelation Plots	Time Series Plots
Data Plots	Periodic Regression	Up-Down Runs Test
Decomposition Forecasting	Periodogram Plots	Wald-Wolfowitz Runs Test
Decomposition Ratio Plots	Portmanteau Test	Wave Regression
Differencing	Predicted Values	Winters Forecasting
Double Exponential Smoothing	Prediction Limits	Yule-Walker
Exact Runs Test for Randomness	Probability Plots	
Exact Runs Test for Serial Randomness	Randomness Tests	
Exponential Smoothing	Ratio Plots	
Exponential Smoothing - Horizontal	Regression	

## Group-Sequential

Alpha Spending	Difference in Means - Non-Inferiority - Group-Sequential	Group-Sequential Design - Two Means - Non-Inferiority
Beta Spending	Difference in Means - Superiority by a Margin - Group-Sequential	Group-Sequential Design - Two Means - Superiority by a Margin
Binding Futility Boundary	Difference in Proportions - Group-Sequential	Group-Sequential Design - Two Proportions
Boundary Plot	Difference in Proportions - Non-Inferiority - Group-Sequential	Group-Sequential Design - Two Proportions - Non-Inferiority
Comparing a Proportion to a Null Proportion - Group-Sequential	Difference in Proportions - Superiority by a Margin - Group-Sequential	Group-Sequential Design - Two Proportions - Superiority by a Margin
Comparing a Proportion to a Null Proportion - Non-Inferiority - Group-Sequential	Difference in Survival Curves - Group-Sequential	Group-Sequential Design - Two Survival Curves
Comparing a Proportion to a Null Proportion - Superiority by a Margin - Group-Sequential	Difference in Survival Curves - Group-Sequential - Non-Inferiority	Group-Sequential Design - Two Survival Curves - Non-Inferiority
Comparing Two Hazard Rates - Group-Sequential	Difference in Survival Curves - Group-Sequential - Superiority by a Margin	Group-Sequential Design - Two Survival Curves - Superiority by a Margin
Comparing Two Hazard Rates - Group-Sequential - Non-Inferiority	Efficacy Boundaries	Group-Sequential Non-Inferiority Analysis for One Mean with Known Variance
Comparing Two Hazard Rates - Group-Sequential - Superiority by a Margin	Futility Boundaries	Group-Sequential Non-Inferiority Analysis for One Proportion
Comparing Two Means - Group-Sequential	Group-Sequential	Group-Sequential Non-Inferiority Analysis for Two Hazard Rates
Comparing Two Means - Non-Inferiority - Group-Sequential	Group-Sequential Analysis for One Mean with Known Variance	Group-Sequential Non-Inferiority Analysis for Two Means with Known Variances
Comparing Two Means - Superiority by a Margin - Group-Sequential	Group-Sequential Analysis for One Proportion	Group-Sequential Non-Inferiority Analysis for Two Proportions
Comparing Two Proportions - Group-Sequential	Group-Sequential Analysis for Two Hazard Rates	Group-Sequential Non-Inferiority T-Tests for One Mean
Comparing Two Proportions - Non-Inferiority - Group-Sequential	Group-Sequential Analysis for Two Means with Known Variances	Group-Sequential Non-Inferiority T-Tests for Two Means
Comparing Two Proportions - Superiority by a Margin - Group-Sequential	Group-Sequential Analysis for Two Proportions	Group-Sequential Superiority by a Margin Analysis for One Mean with Known Variance
Comparing Two Survival Curves - Group-Sequential	Group-Sequential Design - Logrank Test	Group-Sequential Superiority by a Margin Analysis for One Proportion
Comparing Two Survival Curves - Group-Sequential - Non-Inferiority	Group-Sequential Design - One Mean	Group-Sequential Superiority by a Margin Analysis for Two Hazard Rates
Comparing Two Survival Curves - Group-Sequential - Superiority by a Margin	Group-Sequential Design - One Mean - Non-Inferiority	Group-Sequential Superiority by a Margin Analysis for Two Means with Known Variances
Conditional Power	Group-Sequential Design - One Mean - Superiority by a Margin	Group-Sequential Superiority by a Margin Analysis for Two Proportions
Difference in Hazard Rates - Group-Sequential	Group-Sequential Design - One Proportion	Group-Sequential Superiority by a Margin T-Tests for One Mean
Difference in Hazard Rates - Group-Sequential - Non-Inferiority	Group-Sequential Design - One Proportion - Non-Inferiority	
Difference in Hazard Rates - Group-Sequential - Superiority by a Margin	Group-Sequential Design - One Proportion - Superiority by a Margin	
Difference in Means - Group-Sequential	Group-Sequential Design - Two Hazard Rates	
Difference in Means - Group-Sequential	Group-Sequential Design - Two Hazard Rates - Non-Inferiority	
	Group-Sequential Design - Two Hazard Rates - Superiority by a Margin	
	Group-Sequential Design - Two Means	

## NCSS Procedure and Topic List (Categorized)

Group-Sequential Superiority by a Margin T-Tests for Two Means  
 Group-Sequential Tests  
 Group-Sequential Tests for Logrank Tests  
 Group-Sequential Tests for One Mean  
 Group-Sequential Tests for One Mean - Non-Inferiority  
 Group-Sequential Tests for One Mean - Superiority by a Margin  
 Group-Sequential Tests for Two Hazard Rates  
 Group-Sequential Tests for Two Hazard Rates - Non-Inferiority  
 Group-Sequential Tests for Two Hazard Rates - Superiority by a Margin  
 Group-Sequential Tests for Two Means - Non-Inferiority  
 Group-Sequential Tests for Two Means - Superiority by a Margin  
 Group-Sequential Tests for Two Survival Curves  
 Group-Sequential Tests for Two Survival Curves - Non-Inferiority  
 Group-Sequential Tests for Two Survival Curves - Superiority by a Margin  
 Group-Sequential T-Test  
 Group-Sequential T-Test - Non-Inferiority  
 Group-Sequential T-Test - Superiority by a Margin  
 Group-Sequential T-Tests for One Mean  
 Group-Sequential T-Tests for Two Means  
 Hazard Rates Group-Sequential  
 Hazard Rates Group-Sequential - Non-Inferiority  
 Hazard Rates Group-Sequential - Superiority by a Margin  
 Hazard Rates Two Group-Sequential  
 Hazard Rates Two Group-Sequential - Non-Inferiority  
 Hazard Rates Two Group-Sequential - Superiority by a Margin  
 Interim Analysis - Logrank Test  
 Interim Analysis - One Mean  
 Interim Analysis - One Mean - Non-Inferiority  
 Interim Analysis - One Mean - Superiority by a Margin  
 Interim Analysis - One Proportion  
 Interim Analysis - One Proportion - Non-Inferiority  
 Interim Analysis - One Proportion - Superiority by a Margin  
 Interim Analysis - Two Hazard Rates  
 Interim Analysis - Two Hazard Rates - Non-Inferiority  
 Interim Analysis - Two Hazard Rates - Superiority by a Margin  
 Interim Analysis - Two Means  
 Interim Analysis - Two Means - Non-Inferiority  
 Interim Analysis - Two Means - Superiority by a Margin  
 Interim Analysis - Two Proportions  
 Interim Analysis - Two Proportions - Non-Inferiority  
 Interim Analysis - Two Proportions - Superiority by a Margin  
 Interim Analysis - Two Survival Curves  
 Interim Analysis - Two Survival Curves - Non-Inferiority  
 Interim Analysis - Two Survival Curves - Superiority by a Margin  
 Logrank Test - Group-Sequential  
 Means - Group-Sequential  
 Means - Non-Inferiority - Group-Sequential  
 Means - One - Group-Sequential  
 Means - One - Non-Inferiority - Group-Sequential  
 Means - One - Superiority by a Margin - Group-Sequential  
 Means - Superiority by a Margin - Group-Sequential  
 Means One - Non-Inferiority - Group-Sequential  
 Means One - Superiority by a Margin - Group-Sequential  
 Means Two - Non-Inferiority - Group-Sequential  
 Means Two - Superiority by a Margin - Group-Sequential  
 Non-Binding Futility Boundary  
 One Mean - Group-Sequential  
 One Mean - Non-Inferiority - Group-Sequential  
 One Mean - Superiority by a Margin - Group-Sequential  
 One Proportion - Group-Sequential  
 One Proportion - Non-Inferiority - Group-Sequential  
 One Proportion - Superiority by a Margin - Group-Sequential  
 Predictive Power  
 Re-estimation of Sample Size  
 Sample Size Re-estimation  
 Spending Functions  
 Survival Curves Two Group-Sequential  
 Survival Curves Two Group-Sequential - Non-Inferiority  
 Survival Curves Two Group-Sequential - Superiority by a Margin  
 Survival Group-Sequential  
 Survival Group-Sequential - Non-Inferiority  
 Survival Group-Sequential - Superiority by a Margin  
 T-Test  
 T-Test - Non-Inferiority  
 T-Test - One Mean  
 T-Test - One Mean - Non-Inferiority  
 T-Test - One Mean - Superiority by a Margin  
 T-Test - Superiority by a Margin  
 T-Test - Two Means  
 T-Test - Two Means - Non-Inferiority  
 T-Test - Two Means - Superiority by a Margin  
 Two Hazard Rates - Group-Sequential  
 Two Hazard Rates - Group-Sequential - Non-Inferiority  
 Two Hazard Rates - Group-Sequential - Superiority by a Margin  
 Two Hazard Rates Group Sequential  
 Two Hazard Rates Group Sequential - Non-Inferiority  
 Two Hazard Rates Group Sequential - Superiority by a Margin  
 Two Means - Group Sequential  
 Two Means - Group-Sequential  
 Two Means - Non-Inferiority - Group Sequential  
 Two Means - Non-Inferiority - Group-Sequential  
 Two Means - Superiority by a Margin - Group Sequential  
 Two Means - Superiority by a Margin - Group-Sequential  
 Two Proportions - Group-Sequential  
 Two Proportions - Non-Inferiority - Group-Sequential

## NCSS Procedure and Topic List (Categorized)

Two Proportions - Superiority by a Margin - Group-Sequential	Two Survival Curves - Group-Sequential - Superiority by a Margin	Two Survival Curves Group Sequential - Superiority by a Margin
Two Survival Curves - Group-Sequential	Two Survival Curves Group Sequential	
Two Survival Curves - Group-Sequential - Non-Inferiority	Two Survival Curves Group Sequential - Non-Inferiority	

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## Item Analysis

Alpha - Cronbach's	Item Analysis	Multivariate Analysis
Coefficient Alpha	Item Response Analysis	Reliability
Cronbach's Alpha	Item Response Plots	

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## Meta-Analysis

Cochran's Q Test	Meta-Analysis	Radial Plots
Correlated Proportions	Meta-Analysis of Correlated Proportions	Random Effects Models
Effect-Equality Test	Meta-Analysis of Hazard Ratios	Relative Risk
Fixed Effects Models	Meta-Analysis of Means	Risk Difference
Forest Plots	Meta-Analysis of Proportions	Risk Ratio
Hazard Ratio	Odds Ratio	T-Tests
Heterogeneity Test	Proportions	Zero-Effect Test
L'Abbe Plots	Proportions Tests	
Means		

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## Method Comparison

Agreement	Equivalence Tests	Means
Anderson-Darling Normality Test	Errors-in-Variables Regression	Measurement Error
Average-Difference Plots	ESD Outliers	Method Comparison
Bablok Regression	Extreme Studentized Deviate	Normal Distribution
Bland-Altman	Extreme Values	Normal Probability
Bland-Altman Plot and Analysis	Grubbs' Outlier Test	Normal Probability Plots
Bland-Altman Plots	Grubbs' Test	Normality Tests
Block Outlier Tests	Histograms	Omnibus Normality Test
Box-Cox Power Transformation	Jackknife Standard Error Estimation	Orthogonal Regression
Box-Cox Transformation	Kendall's Tau Correlation	Outlier Detection
CCC	Kolmogorov-Smirnov Normality Test	Outlier Test
Concordance Coefficient	Kolmogorov-Smirnov Test	Outliers
Concordance Correlation Coefficient	Kurtosis	Paired t-test
Correlation Coefficient	Kurtosis Normality Test	Passing Bablok Regression
CUSUM Test	Limits of Agreement	Passing Regression
D'Agostino Kurtosis Normality Test	Lin's CCC	Passing-Bablok Regression for Method Comparison
D'Agostino Omnibus Normality Test	Lin's Concordance Correlation Coefficient	Precision Measure
D'Agostino Skewness Normality Test	LoA	Probability Plots
Deming Regression	Martinez-Iglewicz Normality Test	Proportional Errors
Descriptive Statistics	Mean Comparison	Rank Regression
Detecting Outliers	Mean Difference	Rater Reliability
Diagnostic Tests	Mean Equality	Reliability
Difference vs. Average Plots		

## NCSS Procedure and Topic List (Categorized)

Reproducibility  
Residual Plots  
Robust Regression  
Rosner's Outlier Test

Scatter Plots  
Shapiro-Wilk Normality Test  
Simple Deming Regression  
Skewness

Skewness Normality Test  
Test of Normality  
Weighted Deming Regression

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## Mixed Models

AIC  
Akaike Information Criterion  
Analysis of Covariance  
Analysis of Variance  
ANCOVA  
ANOVA  
AOV  
Between Factors  
Bonferroni Adjustment  
Compound Symmetry  
Covariance Pattern  
Covariates  
Cross-Over Analysis  
Cross-Over Design Analysis  
Differential Evolution  
Factorial Mixed Models  
Fisher Scoring  
Fixed Effects Models  
F-Test  
G Matrix

Hessian Matrix  
Heterogenous Variances  
Hierarchical Regression  
Kenward and Roger Method  
L Matrix  
Linear Mixed Model  
Longitudinal Data Analysis  
Means Plots  
MIVQUE  
Mixed Models  
Mixed Models - General  
Mixed Models - No Repeated Measures  
Mixed Models - Random Coefficients  
Mixed Models - Repeated Measures  
Model Fitting  
Multiple Comparison Tests  
Newton-Raphson  
Paired Comparisons  
Planned Comparisons

R Matrix  
Random Coefficients Models  
Random Effects Models  
Random Models  
Randomized Complete Block Design Analysis  
REML  
Repeated Measures  
Repeated Measures Analysis of Variance  
Repeated Measures Design Analysis  
Restricted Maximum Likelihood  
Split-Plot Design Analysis  
Subject Plots  
T-Tests  
Unequal Variances Tests  
Variance-Covariance Matrix  
Within Factors

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## Multivariate Analysis

Association - Partial and Marginal  
Bartlett's Sphericity Test  
Bartlett's Test  
Bonferroni C.I.'s  
Box's M Test  
CA  
Canonical Coefficients  
Canonical Correlation  
Canonical Scores  
Canonical Scores Plots  
Canonical Variates  
Chi-Square Test  
Collinearity  
Communality  
Confidence Interval  
COR  
Correlation Coefficient  
Correlation Eigenvalues  
Correlation Matrix  
Correspondence Analysis  
Correspondence Plots

Covariance Eigenvalues  
Covariance Matrix  
CTR  
Discriminant Analysis  
Dissimilarity Plots  
Distance  
Eigenvalues  
Eigenvectors  
EM Algorithm  
Equality of Covariance  
Expected Mean Squares  
Factor Analysis  
Factor Loadings  
Freeman-Tukey Standardized Residual  
FT-SR  
Gleason-Staelin Redundancy Measure  
Goodness-of-Fit Tests  
Heat Map  
Hierarchical Models  
Hotelling's One-Sample T2  
Hotelling's Paired-Sample T2

Hotelling's Two-Sample T2  
Imputation  
Imputing Data  
Lambda  
Lawley-Hotelling Trace  
Linear Discriminant Function  
Linear Discriminant Scores  
Linear Discriminant Scores Plots  
LLM  
Loadings  
Loadings Plots  
Loglinear Models  
MANOVA  
Marginal Association  
MDS Map  
Means  
Means Plots  
Metric Multidimensional Scaling  
Missing Value Estimation  
Multicollinearity  
Multidimensional Scaling

## NCSS Procedure and Topic List (Categorized)

Multivariate Analysis	Principal Components	Scores Plots
Multivariate Analysis of Variance (MANOVA)	Principal Components Analysis	Scree Plots
Multivariate Normal	Principal Coordinates	Simultaneous C.I.'s
Multivariate T-Test	Quartimax Rotation	Sphericity Test
Multiway Frequency Analysis	Randomization Test	Standardized Canonical Coefficients
Non-Metric Multidimensional Scaling	Regression Scores Plots	Stress
Outliers	Repeated Measures	Subset Selection
Paired T-Test	Repeated Measures Analysis of Variance	T2
Partial Association	Robust Weight	T-Tests
PCA	Roy's Largest Root	Variable Selection
Pearson Chi-square	R-Squared	Variable-Variate Correlations
Pillai's Trace	Score Coefficients	Varimax Rotation
		Wilks' Lambda

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## Nondetects Data

Censoring	Log-Normal Distribution	Peto-Peto Test
Cox-Snell Residuals	Logrank Test	Plots
EDF Plots	Model Fitting	Regression
Empirical Distribution Function	Nondetects Analysis	R-Squared
Gehan Test	Nondetects-Data Group Comparison	Tarone-Ware Test
Kaplan-Meier	Nondetects-Data Regression	
Kaplan-Meier Curves	Nonparametric	

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## Nonparametric

Analysis of Runs	Mann-Whitney U Test (Two-Sample Non-Inferiority Test)	ROC Curves
Bootstrap Confidence Intervals (One-Sample T-Test)	Mann-Whitney U Test (Two-Sample T-Test)	Sign Test (One-Sample T-Test)
Bootstrap Confidence Intervals (Paired T-Test)	Nondetects-Data Group Comparison	Sign Test (Paired T-Test)
Bootstrap Confidence Intervals (Two-Sample T-Test)	Randomization Test (Curve Fitting - General)	Spearman Rank Correlation (Correlation)
Cochran's Q Test	Randomization Test (Hotelling's One-Sample T2)	Spearman Rank Correlation (Correlation Matrix)
Conover Equal Variance Test (One-Way ANOVA)	Randomization Test (Hotelling's Two-Sample T2)	Spearman Rank Correlation (Linear Regression and Correlation)
Cumulative Incidence	Randomization Test (Kaplan-Meier Curves (Logrank Tests))	Wilcoxon Rank-Sum Test (Two-Sample Equivalence Test)
Dunn's Test (One-Way ANOVA)	Randomization Test (Linear Regression and Correlation)	Wilcoxon Rank-Sum Test (Two-Sample Non-Inferiority Test)
Friedman's Rank Test (Balanced Design ANOVA)	Randomization Test (Michaelis-Menten Equation)	Wilcoxon Rank-Sum Test (Two-Sample T-Test)
Kaplan-Meier Curves (Logrank Tests)	Randomization Test (One-Sample T-Test)	Wilcoxon Signed-Rank Test (One-Sample T-Test)
Kendall's Tau Correlation	Randomization Test (Paired T-Test)	Wilcoxon Signed-Rank Test (Paired T-Test)
Kolmogorov-Smirnov Test (Two-Sample T-Test)	Randomization Test (Two-Sample T-Test)	
Kruskal-Wallis Test (One-Way ANOVA)		
Mann-Whitney U Test (Two-Sample Equivalence Test)		

## Operations Research

Assignment	LP	Optimization
Assignment Algorithm	Maximal Flow	Original Cost
Binary Integer Programming	Maximum Flow	QP
Capacitated Flow	Minimum Cost Capacitated Flow	Quadratic Programming
Constraints	Minimum Cost Flow	RHS
Decision Variables	Minimum Path	Shortest Path
Dual Simplex Algorithm	Minimum Spanning Forest	Shortest Route
Final Tableau	Minimum Spanning Tree	Simplex Algorithm
Flow	Mixed Integer Linear Programming	Spanning Tree
Forest	Mixed Integer Programming	Tableau
Greedy Algorithm	Network	Transportation
Integer Programming	Network Flow	Transportation Algorithm
Linear Programming	Objective Function	Transshipment
Linear Programming with Bounds	Operations Research	Tree
Linear Programming with Tableau	Optimal RHS	

## Proportions

2x2 Table	Cluster Randomization - Create	Confidence Interval for Proportions
Absolute Risk	Cluster Rates Dataset	Contingency Tables
Adjusted Kappa Statistic	Cluster Rates	Contingency Tables (Crosstabs / Chi-Square Test)
Alpha Spending	Cluster Survival	Continuity Correction
Angular Transformation of Proportions	Cochran-Armitage Proportion Trend Test	Correlated Proportions
ArcSin Transformation	Cochran-Armitage Proportion Trend Test with Continuity Correction	Correlation Statistics
Armitage Rank Correlation Test	Cochran's Q Test	Count Adjustment
Association - Partial and Marginal	Column Percentages	Count Tables
Association and Correlation Statistics	Comparing a Proportion to a Null Proportion - Group-Sequential	Counts
Bar Charts	Comparing a Proportion to a Null Proportion - Non-Inferiority - Group-Sequential	Cramer's V
Barnard Exact Test	Comparing a Proportion to a Null Proportion - Superiority by a Margin - Group-Sequential	Cross Tabulation
Beta Spending	Comparing Two Proportions - Group-Sequential	Crosstabs
Binding Futility Boundary	Comparing Two Proportions - Non-Inferiority - Group-Sequential	Descriptive Statistics
Binomial Test	Comparing Two Proportions - Superiority by a Margin - Group-Sequential	Descriptive Tables
Binomial Test of Odds Ratio	Conditional Exact Confidence Interval - Odds Ratio	Difference in Proportions
Blackwelder Test	Conditional Mantel-Haenszel Test	Difference in Proportions - Group-Sequential
Blackwelder-Nam Confidence Interval	Conditional Power	Difference in Proportions - Non-Inferiority - Group-Sequential
Bonferroni Multiple Comparisons of Proportions versus a Control	Confidence Interval	Difference in Proportions - Superiority by a Margin - Group-Sequential
Bootstrap Confidence Interval	Confidence Interval for One Proportion	Dunnett Multiple Comparisons of Proportions versus a Control
Bootstrapping		Efficacy Boundaries
Boundary Plot		Equivalence Tests
Cell Counts		Equivalence Tests using TOST
Chen's Quasi-Exact Confidence Interval		Exact Binomial Test
Chi-Square		Exact Conditional Binomial Test
Chi-Square Test		Exact Conditional Confidence Interval
Cluster Proportions		Exact Confidence Interval
Cluster Randomization		Exact Test
Cluster Randomization - Create Cluster Proportions Dataset		

## NCSS Procedure and Topic List (Categorized)

Expected Counts	Kappa Reliability Test	Partial Association
Farrington-Manning Score	Kappa Statistic	Pearson Chi-square
Fisher Conditional Exact Test	Kappa Test for Inter-Rater Agreement	Pearson Conditional Exact Test
Fisher's Exact Test	Katz Logarithm Confidence Interval	Pearson's Chi-Square Test
Fleiss Confidence Interval	Kendall's Tau	Pearson's Contingency Coefficient
Freeman-Tukey Standardized Residual	Lambda	Percentages
Frequencies	Likelihood Ratio Test	Phi
Frequency Tables	LLM	Predictive Power
FT-SR	Loglinear Models	Proportion - One
Futility Boundaries	Mantel-Haenszel Confidence Intervals	Proportion Trend Test
Gamma	Mantel-Haenszel Test	Proportions
Gart-Nam Score	Many to one Multiple Comparisons of Proportions	Proportions - Multiple Comparisons
Goodness-of-Fit Tests	Marginal Association	Proportions - Two
Group-Sequential Analysis for One Proportion	McNemar Test	Proportions Tests
Group-Sequential Analysis for Two Proportions	Miettinen-Nurminen Score	Ratio of Proportions
Group-Sequential Design - One Proportion	Minimum Required Difference	Re-estimation of Sample Size
Group-Sequential Design - One Proportion - Non-Inferiority	Multinomial Test	Relative Risk
Group-Sequential Design - One Proportion - Superiority by a Margin	Multiple Comparison Tests	Relative Risk Reduction
Group-Sequential Design - Two Proportions	Multiple Comparisons of Proportions	Reliability
Group-Sequential Design - Two Proportions - Non-Inferiority	Multiple Comparisons of Proportions versus a Control	Risk Ratio
Group-Sequential Design - Two Proportions - Superiority by a Margin	Multiway Frequency Analysis	Risk Reduction
Group-Sequential Non-Inferiority Analysis for One Proportion	Nam Equivalence Test	Robins Confidence Interval
Group-Sequential Non-Inferiority Analysis for Two Proportions	Nam Score Confidence Interval	Row Percentages
Group-Sequential Superiority by a Margin Analysis for One Proportion	Nam Score Test	Row-Column Independence Test
Group-Sequential Superiority by a Margin Analysis for Two Proportions	Nam-Blackwelder Confidence Interval	Sample Size Re-estimation Score
Hierarchical Models	Nam-Blackwelder Test	Score Test Pairwise Multiple Comparisons of Proportions
Incidence rates	Non-Binding Futility Boundary	Score Tests
Independence Tests	Non-Inferiority	SD
Interim Analysis - One Proportion	Non-Inferiority Tests	Simultaneous confidence intervals of the differences among several proportions
Interim Analysis - One Proportion - Non-Inferiority	Nonparametric	Spending Functions
Interim Analysis - One Proportion - Superiority by a Margin	Nonparametric Tests	Standard Deviation
Interim Analysis - Two Proportions	Number Needed to Treat	Standardized Residuals
Interim Analysis - Two Proportions - Non-Inferiority	Odds Ratio	Studentized Range Distribution
Interim Analysis - Two Proportions - Superiority by a Margin	One Proportion	Summarize Clusters
Inter-Rater Agreement (Kappa)	One Proportion - Equivalence Tests	Summary Lists
	One Proportion - Group-Sequential	Summary Tables
	One Proportion - Non-Inferiority - Group-Sequential	Sums
	One Proportion - Non-Inferiority Tests	Superiority by a Margin
	One Proportion - Superiority by a Margin - Group-Sequential	Superiority by a Margin Tests
	One Proportion - Superiority by a Margin Tests	Superiority Tests
	One Proportion Tests	Survival Rates
	One-Sided Dunnett Multiple Comparisons of Proportions versus a Control	Symmetric Lambda
	Paired Proportions	Table of Proportions
	Paired T-Test	Table of Rates
	Pairwise Multiple Comparisons of Proportions	Table Percentages
		Table Statistics
		Tables - Descriptive
		TOST
		TOST Equivalence Test

## NCSS Procedure and Topic List (Categorized)

Tschuprow's T	Two Proportions - Non-Inferiority Tests	Wald Z Confidence interval
Tukey-Kramer Pairwise Multiple Comparisons of Proportions	Two Proportions - Superiority by a Margin - Group-Sequential	Wald Z Continuity Correction
Two Correlated Proportions	Two Proportions - Superiority by a Margin Tests	Wald Z Test
Two Correlated Proportions - Equivalence Tests	Two Proportions - Two-Sided Tests vs. a Margin	Walters Confidence Interval
Two Correlated Proportions - Non-Inferiority Tests	Two-by-Two Tables	Weighted Kappa
Two Correlated Proportions - Superiority by a Margin Tests	Two-sided Tests vs. a Margin	Weighted Kappa Reliability Test
Two Correlated Proportions (McNemar Test)	Two-Way Tables	Weighted Kappa Statistic
Two Proportions	Unconditional Exact Farrington-Manning Score Test	Weighted Kappa Test for Inter-Rater Agreement
Two Proportions - Equivalence Tests	Wald Confidence Interval	Wilson Score
Two Proportions - Group-Sequential	Wald Ratio Multiple Comparisons of Proportions	Wilson Score Confidence Interval
Two Proportions - Non-Inferiority - Group-Sequential	Wald Test	Woolf's Confidence Interval
	Wald test of difference	Woolf's Confidence Limits
		Woolf's Odds Ratio Analysis
		Yates' Continuity Corrected Chi-Square Test
		Z-Tests

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## Quality Control

Acceptable Quality Level	EWMA Charts	Nonconforming
Acceptance Number	Exact Runs Test for Randomness	Nonparametric
Acceptance Sampling	Exact Runs Test for Serial Randomness	Nonparametric Tests
Acceptance Sampling for Attributes	Exponential Distribution	Normality Tests
Analysis of Runs	Exponentially Weighted Moving Average Chart	NP Charts
Anderson-Darling Normality Test	Gauge Study	Number of Runs
AQL	Histograms	OC Curves
Attribute Charts	I-MR Charts	Operating Characteristic Curves
Autocorrelations	In-Control	Operating Characteristic Curves for Acceptance Sampling for Attributes
C Charts	Individuals and Moving Range Charts	Out-of-Control
Capability Analysis	Individuals Charts	P Charts
Capability Histograms	Inspection Plans	Pareto Charts
Chi-Square Normality Test	k-Category Runs Test for Randomness	Plots
Computing Runs	Kolmogorov-Smirnov Test	Precision-to-Tolerance Ratio
Consumer's Risk	k-Period Lag	Probability Plots
Continuity Correction	Kurtosis	Process Capability Ratio
Control Charts	Kurtosis Normality Test	Process Variation
Control Limits	Lag	Producer's Risk
Cp	Lag Plots	Product Inspection Plans
Cpk	Levey-Jennings Charts	Quality Control
Cpkm	Limiting Quality Level	Quality Control Charts
Cpm	Lot Proportion Defective	R & R Study
Cumulative Chart	Lot Tolerance Proportion Defective	R Charts
Cumulative Pareto Chart	LQL	Randomness Tests
Cumulative Sum Charts	LTPD	Range Charts
CUSUM Charts	MA Charts	Rbar
D'Agostino Kurtosis Normality Test	Measurement Error	Repeatability
D'Agostino Omnibus Normality Test	Moving Average Charts	Repeatability and Reproducibility Study
D'Agostino Skewness Normality Test	Moving Range Charts	Reproducibility
Defective		
Descriptive Statistics		

## NCSS Procedure and Topic List (Categorized)

Runs Analysis	Single-Sample k-category Runs Test	Time Series
Runs Charts	for Randomness	Time Series Plots
Runs Test for Serial Randomness	Single-Sample Runs Test for	Tolerance Intervals
Runs Tests	Randomness	Tolerance Limits
s Charts	Single-Sample Runs Test for Serial	Tolerance R & R
Sampling Plans	Randomness	U Charts
Sbar	Single-Sample Runs Tests	Up-Down Runs Test
Scatter Plots	Sinusoidal Pattern	Wald-Wolfowitz Runs Test
Serial Randomness	Skewness	Westgard Rules
Shapiro-Wilk Normality Test	Skewness Normality Test	X-bar and R Charts
Shewhart	Standard Deviation Charts	X-bar and s Charts
Sigma Limits	Test for Serial Randomness	Xbar Charts
Signal-to-Noise Ratio	Tests for Randomness	X-bar Charts
	Tests for Runs	Zones

## Reference Intervals

Anderson-Darling Normality Test	Kurtosis Normality Test	Reference Range
Bablok Regression	Median-Slope Regression	Regression
Bootstrap Confidence Interval	Model Fitting	Residual Plots
Centiles	Nonlinear Regression	Robust Linear Regression (Passing- Bablok Median-Slope)
CLSI	Normality Test	Robust Reference Interval
Curve Fitting	Normality Tests	Robust Regression
D'Agostino Kurtosis Normality Test	Orthogonal Regression	R-Squared
D'Agostino Omnibus Normality Test	Passing Bablok Regression	Scatter Plots
D'Agostino Skewness Normality Test	Passing Regression	Shapiro-Wilk Normality Test
Descriptive Statistics	Percentiles	Skewness
EP28-A3c	Polynomial Regression	Skewness Normality Test
Fetal Size	Predicted Values	Sum of Functions Models
Fractional Polynomials	Probability Plots	Tolerance Intervals
Function Plots	Rank Regression	Tolerance Limits
Histograms	Ratio of Polynomials	Transference
Kendall's Tau Correlation	Reference Bounds	
Kolmogorov-Smirnov Test	Reference Intervals	
Kurtosis	Reference Intervals - Age-Specific	

## Regression

2SLS	ANCOVA	Beta Trace
Accelerated Testing	Anderson-Darling Normality Test	Beta Trace Plots
Adjusted R-Squared	Andrews' Sine	Binary Response
AIC	ANOVA	Bleasdale-Nelder Model Fit
Akaike Information Criterion	Anscombe Residuals	Bonferroni
All Possible Regressions	AOV	Bonferroni Test
All Possible Subsets	Autocorrelation Regression	Bootstrap Confidence Interval
Amplitude	Autocorrelations	Bootstrapping
Analysis of Covariance	Autoregressive Error Model	Box-Cox Algorithm
Analysis of Covariance (ANCOVA) with Two Groups	Average Absolute Percent Error	Box-Cox for Linear Regression
Analysis of Deviance	Bablok Regression	Box-Cox for Regression
Analysis of Variance	Backward Selection	Box-Cox Plots
	Backward-Step Regression	Box-Cox Power Transformation

## NCSS Procedure and Topic List (Categorized)

Box-Cox Transformation	D'Agostino Skewness Normality Test	General Linear Models (GLM)
Box-Cox Transformation for Simple Linear Regression	Data Fitting	General Linear Models (GLM) for Fixed Factors
Breslow Ties	Deming Regression	Geometric Regression
Canonical Coefficients	Descriptive Statistics	GLM
Canonical Scores	Deviance Residuals	Gompertz Model Fit
Canonical Scores Plots	Deviance Test	Goodness-of-Fit Tests
Canonical Variates	DFBETA	Group Comparison Plots
Case-Control	DFCHI2	Harmonic Regression
Censored Regression	DFDEV	Hat Diagonal
Censoring	DFFITs	Hat Values
Change in Deviance Test	Difference vs. Average Plots	Hat vs. Row Plots
Chi-Square	Discriminant Analysis	Hausmans Test
Chi-Square Test	Dispersion Alpha	Hazard Function
Cochrane-Orcutt Procedure	Dispersion Phi	Hazard Function Plots
Coefficient of Variation	Dose	Hazard Rate
Coefficients	Dose-Response	Hazard Ratio
Comparing Two Means	Dose-Response Plots	Heteroscedasticity
Conditional Logistic Regression	Dunnett's Confidence Intervals	Hierarchical Forward Selection
Confidence Band	Dunnett's Test vs. a Control	Hierarchical Models
Confidence Interval	Durbin-Watson Test	Hierarchical Regression
Contour Plots	Econometrics	Hierarchical Subset Search
Cook's D	Efron Ties	Hill Model Fit
Cook's Distance	Eigenvalues	Histograms
Correlation - Pearson	Eigenvectors	Holliday Model Fit
Correlation - Spearman	Endogeneity	Honest Significant Difference
Correlation Coefficient	Endogenous Variables	Huber's Method
Correlation Matrix	Enzyme Kinetics	Hyperbola
Cosines	Equal Variance Tests	Incidence Plots
Counts	Equivalence	Incidence Rate
Counts Regression	Equivalence Tests	Influence
COV	Equivalence Tests using TOST	Instrument Variables
Covariance	Errors-in-Variables Regression	Instrumental Variables
Covariance Analysis	Estimation of Property Values	Jackknife Standard Error Estimation
Cox Proportional Hazards Regression	Exogenous Variables	K Analysis
Cox Regression	Exponential Error Regression	Kendall's Tau Correlation
Cox-Snell Residuals	Exponential Model Fit	Kinetics
Cp	Exponential Regression	Kurtosis Normality Test
Cp Plots	Extreme Value Error Regression	Lack-of-Fit Test
Cubic Model Fit	Factorial Design Analysis	Lambda
Cumulative Hazard	Farazdaghi and Harris Model Fit	Least Squares
Cumulative Survival	Fisher's LSD Test	Levenberg-Marquardt Nonlinear Least-Squares Algorithm
Curve Fitting	Fisher's Z Transformation	Levene's Equal Variance Test
Curve Fitting - General	Fixed Factor	Likelihood Ratio Test
Curve Fitting Plots	Forecasting	Linear Discriminant Function
Curve Inequality Test	Forward Selection	Linear Discriminant Scores
Custom Model	Forward-Step Regression	Linear Discriminant Scores Plots
CUSUM Test	Fourier Series	Linear Model Fit
Cycle Regression	Fractional Polynomial Regression	Linear Regression
Cycles	Fractional Polynomials	Linear Regression - Box-Cox
Cyclical Regression	Frequencies	Linear Regression and Correlation
D'Agostino Kurtosis Normality Test	F-Test	Linear-Linear Model Fit
D'Agostino Omnibus Normality Test	Function Plots	
	G Statistic Test	

## NCSS Procedure and Topic List (Categorized)

Linear-Linear-Linear Model Fit	Multivariate Analysis	Power Transformation
Linear-Logistic Model	Multivariate Polynomial Ratio Fit	Predicted Values
Linear-Quadratic Model Fit	Multivariate Regression	Prediction Limits
Loess	Multivariate Variable Selection	PRESS Statistics
Logarithmic Model Fit	Nash's MRT Algorithm	Principal Components
Logistic Error Regression	Negative Binomial Regression	Principal Components Regression
Logistic Model Fit	Nominal Logistic Regression	Prob Correct vs. Cutoff Plots
Logistic Regression	Nondetects Analysis	Probability Ellipse
Logit	Nondetects-Data Regression	Probability Plots
Log-Logistic Error Regression	Non-Inferiority	Probit Analysis
Log-Logistic Regression	Non-Inferiority Tests	Probit Plots
Log-Normal Distribution	Nonlinear Regression	Property Valuation
Log-Normal Error Regression	Nonparametric Tests	Proportional Errors
Log-Normal Model Fit	Normal Error Regression	Proportional Hazards Regression
Log-Normal Regression	Normal Model Fit	Quadratic Model Fit
Lowess	Normal Range	Quadratic-Linear Model Fit
Mallow's Cp	Normal Regression	Quadratic-Quadratic Model Fit
Mallow's Cp	Normality Plots	Quantile Regression
Martingale Residuals	Normality Test	Randomization Test
Mass Appraisal	Normality Tests	Rank Regression
Matched	OLS	Ratio of Polynomials
McHenry's Select Algorithm	One-Way Analysis of Covariance (ANCOVA)	Ratio of Polynomials Fit
Means	One-Way Analysis of Variance	Ratio of Polynomials Fit - Many Variables
Means Plots	One-Way ANOVA	Ratio of Polynomials Fit - One Variable
Measurement Error	Ordinary Least Squares	Ratio of Polynomials Search
Median-Slope Regression	Orthogonal Regression	Ratio of Polynomials Search - Many Variables
Mediation Analysis	Outlier Detection	Ratio of Polynomials Search - One Variable
Mediation Regression	Outliers	Reciprocal Model Fit
M-Estimators	Overdispersion	Reference Interval
Method Comparison	Paired Comparisons	Reference Range
Michaelis-Menten Equation	Paired t-test	Regression
Michaelis-Menten Model Fit	Parametric Survival (Weibull) Regression	Regression Analysis
Min MSE	Parametric Survival Regression	Regression Coefficients
Min RMSE	Partial Correlation	Regression for Appraisal
Minimum MSE	Partial Residual Plots	Regression Scores Plots
Minimum RMSE	Passing Bablok Regression	Relative Risk
Model Fitting	Passing Regression	Residual Plots
Model Fitting for Appraisal	Passing-Bablok Regression for Method Comparison	Residuals
Model Searching	PC Regression	Response Surface
Monomolecular Model Fit	Pearson Correlation	Response Surface Regression
Morgan-Mercer-Floding Model Fit	Pearson Residuals	Richards Model Fit
Multicollinearity	Pearson Test	Ridge Regression
Multinomial Logistic Regression	Periodic Regression	Ridge Trace
Multiple Comparison Tests	Poisson Distribution	Ridge Trace Plots
Multiple Comparisons Plots	Poisson Regression	Risk Ratio
Multiple Linear Regression	Poisson-Gamma Regression	Robust
Multiple Regression	Polynomial Ratio	Robust Linear Regression (Passing- Bablok Median-Slope)
Multiple Regression - Basic	Polynomial Ratio Model Fit	Robust Mediation Analysis
Multiple Regression for Appraisal	Polynomial Regression	
Multiple Regression with Serial Correlation	Power Model Fit	
Multiple-Group Logistic Regression		
Multisample Test		

## NCSS Procedure and Topic List (Categorized)

Robust Regression	Step-Up Selection	Tukey's Biweight
Robust Residuals	Stepwise Regression	Tukey's HSD
Robust Weight	Stepwise Selection	Two-Sample Equivalence Tests for
ROC Curves	Stratified Logistic Regression	Survival Data using Cox Regression
Root MSE	Stress A	Two-Sample Non-Inferiority Tests for
Root MSE Plots	Stress B	Survival Data using Cox Regression
R-Squared	Stress Plots	Two-Sample Superiority by a Margin
R-Squared Plots	Studentized Deviance Residuals	Tests for Survival Data using Cox
RStudent Residuals	Studentized Pearson Residuals	Regression
Scaled Schoenfeld's Residuals	Subset Selection	Two-Sample T-Test
Scatter Plots	Subset Selection in Multiple	Two-Stage Least Squares
Scheffe's Test	Regression	Variable Selection
Schoenfeld's Residuals	Subset Selection in Multivariate Y	Variable Selection for Multivariate
Schoenfeld's Residuals Plots	Multiple Regression	Regression
Scores Plots	Sum of Exponentials Model Fit	Variable-Variate Correlations
Sequence Plots	Sum of Functions Models	Variance Inflation Factor
Sequential Models	Superiority by a Margin	Variance Inflation Factor Plots
Serial Correlation	Superiority by a Margin Tests	Variance Test
Serial Correlation Plots	Survival Analysis	VIF
Shapiro-Wilk Normality Test	Survival Regression	VIF Plots
Shinozaki and Kira Model Fit	Tests for Two-Factor Interactions	Wald Statistic
Sidak Test	Time Series	Wald Test
Simple Deming Regression	Time Series Plots	Wave Regression
Simple Linear Regression	TOST	Weibull Error Regression
Simultaneous Confidence Intervals	TOST Equivalence Test	Weibull Fitting
Sines	Transference	Weibull Model Fit
Sinusoidal Regressions	Transformations	Weibull Regression
Skewness Normality Test	Transformations - Box-Cox	Weighted Deming Regression
Slopes - Testing for Equal	Transformations - Power	Wilks' Lambda
Spearman Correlation	Transformations to Normality	Working-Hotelling C.I. Band
Spearman Rank Correlation	TSLs	Working-Hotelling Limits
Spectral Analysis	T-Test	Yhat
Stage Regression	Tukey-Kramer Simultaneous	Zero-Inflated Negative Binomial
Standard Error	Confidence Intervals	Regression
Step-Down Selection	Tukey-Kramer Test	Zero-Inflated Poisson Regression

## Reliability

2x2 Table  
 Accelerated Testing  
 Alpha Spending  
 Analysis of Deviance  
 Anderson-Darling Normality Test  
 Arcsine Square Root Hazard  
 At-Risk Table  
 Bar Charts  
 Beta Distribution Fitting  
 Beta Reliability Plots  
 Beta Spending  
 Binding Futility Boundary  
 Biweight Kernel  
 Boundary Plot  
 Breslow Ties  
 Calculator - Survival Parameters  
 Censored Regression  
 Censoring  
 Change in Deviance Test  
 Chi-Square Test  
 CIF  
 Cluster Randomization  
 Cluster Randomization - Create  
   Cluster Rates Dataset  
 Cluster Rates  
 Cluster Survival  
 Comparing Two Hazard Rates -  
   Group-Sequential  
 Comparing Two Hazard Rates -  
   Group-Sequential - Non-Inferiority  
 Comparing Two Hazard Rates -  
   Group-Sequential - Superiority by a  
   Margin  
 Comparing Two Survival Curves -  
   Group-Sequential  
 Comparing Two Survival Curves -  
   Group-Sequential - Non-Inferiority  
 Comparing Two Survival Curves -  
   Group-Sequential - Superiority by a  
   Margin  
 Competing Risks  
 Confidence Interval  
 Counts  
 Cox Proportional Hazards Regression  
 Cox Regression  
 Cox-Mantel Logrank Test  
 Cox-Snell Residuals  
 Cumulative Hazard  
 Cumulative Incidence  
 Cumulative Incidence Plots  
 Cumulative Survival  
 Cumulative Survival Plots  
 Custom Model  
 D'Agostino Kurtosis Normality Test  
 D'Agostino Omnibus Normality Test  
 D'Agostino Skewness Normality Test  
 Death Density Function  
 Descriptive Statistics  
 Descriptive Tables  
 Deviance Residuals  
 Deviance Test  
 Difference in Hazard Rates - Group-  
   Sequential  
 Difference in Hazard Rates - Group-  
   Sequential - Non-Inferiority  
 Difference in Hazard Rates - Group-  
   Sequential - Superiority by a Margin  
 Difference in Survival Curves - Group-  
   Sequential  
 Difference in Survival Curves - Group-  
   Sequential - Non-Inferiority  
 Difference in Survival Curves - Group-  
   Sequential - Superiority by a Margin  
 Differential Evolution  
 Distribution (Weibull) Fitting  
 Distribution Fitting  
 Dose  
 Dose-Response  
 Dose-Response Plots  
 Efficacy Boundaries  
 Efron Ties  
 Epanechnikov Kernel  
 Equivalence  
 Equivalence Tests  
 Equivalence Tests using TOST  
 Exact Test  
 Exponential Distribution  
 Exponential Error Regression  
 Exponential Fit  
 Exponential Probability Plots  
 Exponential Regression  
 Extreme Value Distribution  
 Extreme Value Error Regression  
 Extreme Value Fit  
 Extreme Value Probability Plots  
 Failure Distribution  
 Failure Probability  
 Fisher's Exact Test  
 Fleming-Harrington Test  
 Forward Selection  
 Futility Boundaries  
 Gamma Distribution Fitting  
 Gehan Test  
 Gray's Test  
 Greenwood's Formula  
 Group-Sequential  
 Group-Sequential Analysis for Two  
   Hazard Rates  
 Group-Sequential Design - Logrank  
   Test  
 Group-Sequential Design - Two  
   Hazard Rates  
 Group-Sequential Design - Two  
   Hazard Rates - Non-Inferiority  
 Group-Sequential Design - Two  
   Hazard Rates - Superiority by a  
   Margin  
 Group-Sequential Design - Two  
   Survival Curves  
 Group-Sequential Design - Two  
   Survival Curves - Non-Inferiority  
 Group-Sequential Design - Two  
   Survival Curves - Superiority by a  
   Margin  
 Group-Sequential Non-Inferiority  
   Analysis for Two Hazard Rates  
 Group-Sequential Superiority by a  
   Margin Analysis for Two Hazard  
   Rates  
 Group-Sequential Tests  
 Group-Sequential Tests for Logrank  
   Tests  
 Group-Sequential Tests for Two  
   Hazard Rates  
 Group-Sequential Tests for Two  
   Hazard Rates - Non-Inferiority  
 Group-Sequential Tests for Two  
   Hazard Rates - Superiority by a  
   Margin  
 Group-Sequential Tests for Two  
   Survival Curves  
 Group-Sequential Tests for Two  
   Survival Curves - Non-Inferiority  
 Group-Sequential Tests for Two  
   Survival Curves - Superiority by a  
   Margin  
 Hazard Function  
 Hazard Function Plots  
 Hazard Rate  
 Hazard Rate Conversion  
 Hazard Rate Plots  
 Hazard Rates Group-Sequential

## NCSS Procedure and Topic List (Categorized)

Hazard Rates Group-Sequential - Non-Inferiority	Mantel-Haenszel Logrank Test	Restricted Mean Survival Time Difference Comparisons
Hazard Rates Group-Sequential - Superiority by a Margin	Mantel-Haenszel Test	Restricted Mean Survival Time Ratio Comparisons
Hazard Rates Two Group-Sequential	Martingale Residuals	Restricted Mean Time Lost
Hazard Rates Two Group-Sequential - Non-Inferiority	Mean Survival Comparisons	Restricted Mean Time Lost Ratio Comparisons
Hazard Rates Two Group-Sequential - Superiority by a Margin	Mean Survival Time	Risk Ratio
Hazard Ratio	Mean Time Lost	RMST
Hazard Ratio Conversion	Mean Time Lost Comparisons	RMST Difference Comparisons
Hierarchical Models	Median Remaining Lifetime	RMST Ratio Comparisons
Hierarchical Subset Search	Median Survival Time Conversion	RMTL
Histograms	Mill's Ratio	RMTL Ratio Comparisons
Incidence rates	Model Fitting	Robins Confidence Interval
Interim Analysis - Logrank Test	Modified Peto-Peto Test	R-Squared
Interim Analysis - Two Hazard Rates	Mortality Ratio Conversion	Scaled Schoenfeld's Residuals
Interim Analysis - Two Hazard Rates - Non-Inferiority	MRT	Scatter Plots
Interim Analysis - Two Hazard Rates - Superiority by a Margin	Nelson-Aalen Hazard	Schoenfeld's Residuals
Interim Analysis - Two Survival Curves	Newton-Raphson	Schoenfeld's Residuals Plots
Interim Analysis - Two Survival Curves - Non-Inferiority	Non-Binding Futility Boundary	SD
Interim Analysis - Two Survival Curves - Superiority by a Margin	Non-Inferiority	Shapiro-Wilk Normality Test
Kaplan-Meier	Non-Inferiority Tests	Skewness
Kaplan-Meier Curves	Nonparametric	Skewness Normality Test
Kaplan-Meier Curves (Logrank Tests)	Nonparametric Survival Estimation	Spending Functions
Kolmogorov-Smirnov Test	Normal Distribution	Standard Deviation
Kurtosis	Normal Error Regression	Stepwise Regression
Kurtosis Normality Test	Normal Fit	Stress A
Life-Table Analysis	Normal Probability Plots	Stress B
Likelihood Ratio Test	Normal Regression	Stress Plots
Logistic Distribution	Normality Tests	Subdistribution Hazards
Logistic Error Regression	Number At Risk	Subset Selection
Logistic Fit	Odds Ratio	Summarize Clusters
Logistic Probability Plots	Outliers	Summary Lists
Logistic Regression	Parametric Hazard Rate	Summary Tables
Log-Logistic Distribution	Parametric Survival (Weibull) Regression	Sums
Log-Logistic Error Regression	Parametric Survival Regression	Superiority by a Margin
Log-Logistic Fit	Pepe and Mori's Test	Superiority by a Margin Tests
Log-Logistic Probability Plots	Peto-Peto Test	Survival Analysis
Log-Logistic Regression	Probability of Failure	Survival Curves
Log-Normal Distribution	Probability Plots	Survival Curves Two Group-Sequential
Log-Normal Error Regression	Probit Analysis	Survival Curves Two Group-Sequential - Non-Inferiority
Log-Normal Fit	Probit Plots	Survival Curves Two Group-Sequential - Superiority by a Margin
Log-Normal Probability Plots	Product-Limit Estimator	Survival Distribution Fitting
Log-Normal Regression	Product-Limit Survivorship	Survival Function
Logrank Test	Proportional Hazards Regression	Survival Group-Sequential
Logrank Test - Group-Sequential	Proportions	Survival Group-Sequential - Non-Inferiority
Mantel-Haenszel Confidence Intervals	Proportions Tests	Survival Group-Sequential - Superiority by a Margin
	Randomization Test	Survival Parameter Conversion Tool
	Regression	
	Regression Coefficients	
	Relative Risk	
	Reliability	
	Residual Plots	
	Residuals	
	Restricted Mean Survival Time	

## NCSS Procedure and Topic List (Categorized)

Survival Plots	Two Hazard Rates - Group-Sequential	Two-by-Two Tables
Survival Quantiles	- Superiority by a Margin	Two-Sample Equivalence Tests for
Survival Rates	Two Hazard Rates Group Sequential	Survival Data using Cox Regression
Survival Regression	Two Hazard Rates Group Sequential -	Two-Sample Non-Inferiority Tests for
Survivorship - Beta Plots	Non-Inferiority	Survival Data using Cox Regression
Survivorship - Gamma Plots	Two Hazard Rates Group Sequential -	Two-Sample Superiority by a Margin
Survivorship Plots	Superiority by a Margin	Tests for Survival Data using Cox
Table of Rates	Two Survival Curves - Group-	Regression
Tables - Descriptive	Sequential	Uniform Kernel
Tarone-Ware Test	Two Survival Curves - Group-	Variable Selection
Time Calculator	Sequential - Non-Inferiority	Wald Test
Tolerance Intervals	Two Survival Curves - Group-	Weibull Distribution
Tolerance Limits	Sequential - Superiority by a Margin	Weibull Error Regression
TOST	Two Survival Curves Group	Weibull Fit
TOST Equivalence Test	Sequential	Weibull Probability Plots
Two Hazard Rates - Group-Sequential	Two Survival Curves Group	Weibull Regression
Two Hazard Rates - Group-Sequential	Sequential - Non-Inferiority	Woolf's Confidence Interval
- Non-Inferiority	Two Survival Curves Group	Woolf's Confidence Limits
	Sequential - Superiority by a Margin	Woolf's Odds Ratio Analysis

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## ROC Curves

Area Under Curve	Confidence Intervals for Comparing	One ROC Curve and Cutoff Analysis
Area Under ROC Curve	Two AUCs	Optimal Criterion Value
Area Under ROC Curve Confidence	Confidence Intervals for Comparing	Paired ROC Curves
Interval	Two Paired AUCs	Positive Likelihood Ratio
AUC	Cost-Benefit Analysis	Positive Predictive Value
AUC Confidence Interval	Diagnostic Odds Ratio	PPV
AUC Hypothesis Test	Empirical ROC Curve	Prevalence
Binormal ROC Curve	Equivalence of Two AUCs	Proportion Correctly Classified
Comparing Two AUCs	Equivalence of Two Paired AUCs	Receiver Operating Characteristic
Comparing Two Paired AUCs	Negative Likelihood Ratio	Curve
Comparing Two ROC Curves -	Negative Predictive Value	Sensitivity
Independent Groups Design	Non-Inferiority of Two AUCs	Specificity
Comparing Two ROC Curves - Paired	Non-Inferiority of Two Paired AUCs	Tests for Two AUCs
Design	Nonparametric ROC Curves	Tests for Two Paired AUCs
	NPV	Youden Index

## NCSS Procedure and Topic List (Categorized)

## Survey Data

Adjusted Kappa Statistic	Descriptive Statistics	Multinomial Test
Alpha - Cronbach's	Descriptive Statistics - Summary Lists	Multiple Comparison Tests
Angular Transformation of Proportions	Descriptive Statistics - Summary Tables	Multiple Comparisons of Proportions
ArcSin Transformation	Descriptive Tables	Multiple Comparisons of Proportions versus a Control
Armitage Rank Correlation Test	Detecting Outliers	Multivariate Analysis
Association - Partial and Marginal	Dunnett Multiple Comparisons of Proportions versus a Control	Multivariate Normal Missing Value Estimation
Association and Correlation Statistics	Exact Test	Multiway Frequency Analysis
Bar Charts	Expected Counts	Nonparametric
Bonferroni Multiple Comparisons of Proportions versus a Control	Fisher's Exact Test	Nonparametric Tests
Cell Counts	Freeman-Tukey Standardized Residual	Normality Tests
Chi-Square	Frequency Tables	Omnibus Normality Test
Chi-Square Test	FT-SR	One-Sided Dunnett Multiple Comparisons of Proportions versus a Control
Cluster Means	Gamma	Outlier Detection
Cluster Proportions	Goodness-of-Fit Tests	Outliers
Cluster Randomization	Hierarchical Models	Paired T-Test
Cluster Randomization - Create Cluster Means Dataset	Imputation	Pairwise Multiple Comparisons of Proportions
Cluster Randomization - Create Cluster Proportions Dataset	Imputing Data	Partial Association
Cluster Randomization - Create Cluster Rates Dataset	Incidence rates	Pearson Chi-square
Cluster Rates	Independence Tests	Pearson's Chi-Square Test
Cluster Survival	Interquartile Range	Pearson's Contingency Coefficient
Cochran-Armitage Proportion Trend Test	Inter-Rater Agreement (Kappa)	Percentages
Cochran-Armitage Proportion Trend Test with Continuity Correction	IQR	Percentiles
Cochran's Q Test	Item Analysis	Phi
COD	Kappa Reliability Test	Proportion Trend Test
Coefficient Alpha	Kappa Statistic	Proportions
Coefficient of Dispersion	Kappa Test for Inter-Rater Agreement	Proportions - Multiple Comparisons
Coefficient of Variation	Kendall's Tau	Range
Column Percentages	Kurtosis	Reliability
Confidence Interval	Kurtosis Normality Test	Row Percentages
Contingency Tables	Lambda	Row-Column Independence Test
Contingency Tables (Crosstabs / Chi-Square Test)	Likelihood Ratio Test	Score Test Pairwise Multiple Comparisons of Proportions
Continuity Correction	LLM	Screening Data
Correlation Statistics	Loglinear Models	SD
Count Adjustment	MAD	SE
Count Tables	MADM	Simultaneous confidence intervals of the differences among several proportions
Counts	Many to one Multiple Comparisons of Proportions	Skewness
COV	Marginal Association	Skewness Normality Test
Cramer's V	Maximum	Standard Deviation
Cronbach's Alpha	McNemar Test	Standard Error
Cross Tabulation	Mean Absolute Deviation	Standardized Residuals
Crosstabs	Mean Absolute Deviation from the Median	Studentized Range Distribution
CV	Means	Summarize Clusters
Data Imputation	Median	Summary Lists
Data Screening	Minimum	
	Minimum Required Difference	
	Missing Count	
	Missing Value Estimation	

## NCSS Procedure and Topic List (Categorized)

Summary Tables	Tables - Descriptive	Weighted Kappa
Sums	Tschuprow's T	Weighted Kappa Reliability Test
Survival Rates	Tukey-Kramer Pairwise Multiple	Weighted Kappa Statistic
Symmetric Lambda	Comparisons of Proportions	Weighted Kappa Test for Inter-Rater Agreement
Table of Means	Two-Way Tables	Yates' Continuity Corrected Chi-Square Test
Table of Proportions	Variance	
Table of Rates	Variation	
Table Percentages	Wald Ratio Multiple Comparisons of Proportions	
Table Statistics		

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## Survival Analysis

2x2 Table	Competing Risks	Efron Ties
Accelerated Testing	Confidence Interval	Epanechnikov Kernel
Alpha Spending	Counts	Equivalence
Analysis of Deviance	Cox Proportional Hazards Regression	Equivalence Tests
Anderson-Darling Normality Test	Cox Regression	Equivalence Tests using TOST
Arcsine Square Root Hazard	Cox-Mantel Logrank Test	Exact Test
At-Risk Table	Cox-Snell Residuals	Exponential Distribution
Bar Charts	Cumulative Hazard	Exponential Error Regression
Beta Distribution Fitting	Cumulative Incidence	Exponential Fit
Beta Reliability Plots	Cumulative Incidence Plots	Exponential Probability Plots
Beta Spending	Cumulative Survival	Exponential Regression
Binding Futility Boundary	Cumulative Survival Plots	Extreme Value Distribution
Biweight Kernel	Custom Model	Extreme Value Error Regression
Boundary Plot	D'Agostino Kurtosis Normality Test	Extreme Value Fit
Breslow Ties	D'Agostino Omnibus Normality Test	Extreme Value Probability Plots
Calculator - Survival Parameters	D'Agostino Skewness Normality Test	Failure Distribution
Censored Regression	Death Density Function	Failure Probability
Censoring	Descriptive Statistics	Fisher's Exact Test
Change in Deviance Test	Descriptive Tables	Fleming-Harrington Test
Chi-Square Test	Deviance Residuals	Forward Selection
CIF	Deviance Test	Futility Boundaries
Cluster Randomization	Difference in Hazard Rates - Group-Sequential	Gamma Distribution Fitting
Cluster Randomization - Create Cluster Rates Dataset	Difference in Hazard Rates - Group-Sequential - Non-Inferiority	Gehan Test
Cluster Rates	Difference in Hazard Rates - Group-Sequential - Superiority by a Margin	Gray's Test
Cluster Survival	Difference in Survival Curves - Group-Sequential	Greenwood's Formula
Comparing Two Hazard Rates - Group-Sequential	Difference in Survival Curves - Group-Sequential - Non-Inferiority	Group-Sequential
Comparing Two Hazard Rates - Group-Sequential - Non-Inferiority	Difference in Survival Curves - Group-Sequential - Superiority by a Margin	Group-Sequential Analysis for Two Hazard Rates
Comparing Two Hazard Rates - Group-Sequential - Superiority by a Margin	Differential Evolution	Group-Sequential Design - Logrank Test
Comparing Two Survival Curves - Group-Sequential	Distribution (Weibull) Fitting	Group-Sequential Design - Two Hazard Rates
Comparing Two Survival Curves - Group-Sequential - Non-Inferiority	Distribution Fitting	Group-Sequential Design - Two Hazard Rates - Non-Inferiority
Comparing Two Survival Curves - Group-Sequential - Superiority by a Margin	Dose	Group-Sequential Design - Two Hazard Rates - Superiority by a Margin
	Dose-Response	Group-Sequential Design - Two Survival Curves
	Dose-Response Plots	
	Efficacy Boundaries	

## NCSS Procedure and Topic List (Categorized)

Group-Sequential Design - Two Survival Curves - Non-Inferiority	Interim Analysis - Two Hazard Rates - Superiority by a Margin	Nonparametric
Group-Sequential Design - Two Survival Curves - Superiority by a Margin	Interim Analysis - Two Survival Curves	Nonparametric Survival Estimation
Group-Sequential Non-Inferiority Analysis for Two Hazard Rates	Interim Analysis - Two Survival Curves - Non-Inferiority	Normal Distribution
Group-Sequential Superiority by a Margin Analysis for Two Hazard Rates	Interim Analysis - Two Survival Curves - Superiority by a Margin	Normal Error Regression
Group-Sequential Tests	Kaplan-Meier	Normal Fit
Group-Sequential Tests for Logrank Tests	Kaplan-Meier Curves	Normal Probability Plots
Group-Sequential Tests for Two Hazard Rates	Kaplan-Meier Curves (Logrank Tests)	Normal Regression
Group-Sequential Tests for Two Hazard Rates - Non-Inferiority	Kolmogorov-Smirnov Test	Normality Tests
Group-Sequential Tests for Two Hazard Rates - Superiority by a Margin	Kurtosis	Number At Risk
Group-Sequential Tests for Two Survival Curves	Kurtosis Normality Test	Odds Ratio
Group-Sequential Tests for Two Survival Curves - Non-Inferiority	Life-Table Analysis	Outliers
Group-Sequential Tests for Two Survival Curves - Superiority by a Margin	Likelihood Ratio Test	Parametric Hazard Rate
Hazard Function	Logistic Distribution	Parametric Survival (Weibull) Regression
Hazard Function Plots	Logistic Error Regression	Parametric Survival Regression
Hazard Rate	Logistic Fit	Pepe and Mori's Test
Hazard Rate Conversion	Logistic Probability Plots	Peto-Peto Test
Hazard Rate Plots	Logistic Regression	Probability of Failure
Hazard Rates Group-Sequential	Log-Logistic Distribution	Probability Plots
Hazard Rates Group-Sequential - Non-Inferiority	Log-Logistic Error Regression	Probit Analysis
Hazard Rates Group-Sequential - Superiority by a Margin	Log-Logistic Fit	Probit Plots
Hazard Rates Two Group-Sequential	Log-Logistic Probability Plots	Product-Limit Estimator
Hazard Rates Two Group-Sequential - Non-Inferiority	Log-Logistic Regression	Product-Limit Survivorship
Hazard Rates Two Group-Sequential - Superiority by a Margin	Log-Normal Distribution	Proportional Hazards Regression
Hazard Ratio	Log-Normal Error Regression	Proportions
Hazard Ratio Conversion	Log-Normal Fit	Proportions Tests
Hierarchical Models	Log-Normal Probability Plots	Randomization Test
Hierarchical Subset Search	Log-Normal Regression	Regression
Histograms	Logrank Test	Regression Coefficients
Incidence rates	Logrank Test - Group-Sequential	Relative Risk
Interim Analysis - Logrank Test	Mantel-Haenszel Confidence Intervals	Reliability
Interim Analysis - Two Hazard Rates	Mantel-Haenszel Logrank Test	Residual Plots
Interim Analysis - Two Hazard Rates - Non-Inferiority	Mantel-Haenszel Test	Residuals
	Martingale Residuals	Restricted Mean Survival Time
	Mean Survival Comparisons	Restricted Mean Survival Time Difference Comparisons
	Mean Survival Time	Restricted Mean Survival Time Ratio Comparisons
	Mean Time Lost	Restricted Mean Time Lost
	Mean Time Lost Comparisons	Restricted Mean Time Lost Ratio Comparisons
	Median Remaining Lifetime	Risk Ratio
	Median Survival Time Conversion	RMST
	Mill's Ratio	RMST Difference Comparisons
	Model Fitting	RMST Ratio Comparisons
	Modified Peto-Peto Test	RMTL
	Mortality Ratio Conversion	RMTL Ratio Comparisons
	MRT	Robins Confidence Interval
	Nelson-Aalen Hazard	R-Squared
	Newton-Raphson	Scaled Schoenfeld's Residuals
	Non-Binding Futility Boundary	Scatter Plots
	Non-Inferiority	Schoenfeld's Residuals
	Non-Inferiority Tests	Schoenfeld's Residuals Plots

## NCSS Procedure and Topic List (Categorized)

SD	Survival Group-Sequential - Superiority by a Margin	Two Survival Curves - Group-Sequential - Non-Inferiority
Shapiro-Wilk Normality Test	Survival Parameter Conversion Tool	Two Survival Curves - Group-Sequential - Superiority by a Margin
Skewness	Survival Plots	Two Survival Curves Group Sequential
Skewness Normality Test	Survival Quantiles	Two Survival Curves Group Sequential - Non-Inferiority
Spending Functions	Survival Rates	Two Survival Curves Group Sequential - Superiority by a Margin
Standard Deviation	Survival Regression	Two-by-Two Tables
Stepwise Regression	Survivorship - Beta Plots	Two-Sample Equivalence Tests for Survival Data using Cox Regression
Stress A	Survivorship - Gamma Plots	Two-Sample Non-Inferiority Tests for Survival Data using Cox Regression
Stress B	Survivorship Plots	Two-Sample Superiority by a Margin Tests for Survival Data using Cox Regression
Stress Plots	Table of Rates	Uniform Kernel
Subdistribution Hazards	Tables - Descriptive	Variable Selection
Subset Selection	Tarone-Ware Test	Wald Test
Summarize Clusters	Time Calculator	Weibull Distribution
Summary Lists	Tolerance Intervals	Weibull Error Regression
Summary Tables	Tolerance Limits	Weibull Fit
Sums	TOST	Weibull Probability Plots
Superiority by a Margin	TOST Equivalence Test	Weibull Regression
Superiority by a Margin Tests	Two Hazard Rates - Group-Sequential	Wolf's Confidence Interval
Survival Analysis	Two Hazard Rates - Group-Sequential - Non-Inferiority	Wolf's Confidence Limits
Survival Curves	Two Hazard Rates - Group-Sequential - Superiority by a Margin	Wolf's Odds Ratio Analysis
Survival Curves Two Group-Sequential	Two Hazard Rates Group Sequential	
Survival Curves Two Group-Sequential - Non-Inferiority	Two Hazard Rates Group Sequential - Non-Inferiority	
Survival Curves Two Group-Sequential - Superiority by a Margin	Two Hazard Rates Group Sequential - Superiority by a Margin	
Survival Distribution Fitting	Two Survival Curves - Group-Sequential	
Survival Function		
Survival Group-Sequential		
Survival Group-Sequential - Non-Inferiority		

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## Time Series

Amplitude	Cycle	Fast Fourier Transform
Analysis of Runs	Cycle Regression	Forecast Plots
ARIMA	Cycle-Input	Forecasting
ARIMA (Box-Jenkins)	Cycles	Fourier Plots
ARMA	Cyclical Regression	Fourier Series
Autocorrelation Plots	Data Plots	Frequencies
Autocorrelations	Decomposition Forecasting	Function Plots
Automatic ARMA	Decomposition Ratio Plots	Harmonic Regression
Backcasting	Differencing	Holt's Linear Trend
Box-Jenkins	Double Exponential Smoothing	Holt-Winters Exponential Smoothing
Box-Pierce-Ljung Statistic	Exact Runs Test for Randomness	Holt-Winters Forecasting
Computing Runs	Exact Runs Test for Serial Randomness	k-Category Runs Test for Randomness
Continuity Correction	Exponential Smoothing	Ljung Statistic
Correlation Coefficient	Exponential Smoothing - Horizontal	MAE
Correlogram	Exponential Smoothing - Trend	MAPE
Cosines	Exponential Smoothing - Trend / Seasonal	Multiple Regression
Cross-Correlations		Nonparametric
Cross-Correlations Plots		Nonparametric Tests

## NCSS Procedure and Topic List (Categorized)

Number of Runs	Runs Test for Serial Randomness	Spectral Analysis
Partial Autocorrelation	Runs Tests	Spectrum Plots
Partial Autocorrelation Plots	Scatter Plots	Test for Serial Randomness
Periodic Regression	Seasonal Differencing	Tests for Randomness
Periodogram Plots	Seasonality	Tests for Runs
Portmanteau Test	Serial Randomness	Theoretical ARMA
Predicted Values	Sines	Time Series
Prediction Limits	Single-Sample k-category Runs Test for Randomness	Time Series Plots
Probability Plots	Single-Sample Runs Test for Randomness	Up-Down Runs Test
Randomness Tests	Single-Sample Runs Test for Serial Randomness	Wald-Wolfowitz Runs Test
Ratio Plots	Single-Sample Runs Tests	Wave Regression
Regression	Sinusoidal Regressions	Winters Forecasting
Residual Plots		Yule-Walker
Runs Analysis		
Runs Charts		

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## T-Tests

2x2 Cross-Over Design	Bootstrap Confidence Interval	Confidence Interval for Standard Deviation
Agreement	Bootstrapping	Confounding
Alias	Boundary Plot	Correlated T-Test
Alpha Spending	Box Plots	Correlation Coefficient
Analysis of 2x2 Cross-Over Designs using T-Tests	Box-and-Whisker Plots	Covariance
Analysis of 2x2 Cross-Over Designs using T-Tests for Equivalence	Box-Cox Algorithm	Covariance Analysis
Analysis of 2x2 Cross-Over Designs using T-Tests for Non-Inferiority	Box-Cox for ANOVA	Cross-Over Analysis
Analysis of 2x2 Cross-Over Designs using T-Tests for Superiority by a Margin	Box-Cox for One-Way ANOVA	Cross-Over Design Analysis
Analysis of Covariance	Box-Cox for T-Test	Cross-Over Means
Analysis of Covariance (ANCOVA) with Two Groups	Box-Cox Plots	Cross-Over Two Means
Analysis of Two-Level Designs	Box-Cox Power Transformation	Descriptive Statistics
Analysis of Variance	Box-Cox Transformation	Difference in Means
ANCOVA	Box-Cox Transformation for Two or More Groups (T-Test and One-Way ANOVA)	Difference in Means - Group Sequential
Anderson and Hauck's Test	Box's M Test	Difference in Means - Group- Sequential
ANOVA	Compare Means	Difference in Means - Non-Inferiority - Group-Sequential
AOV	Compare Two Distributions	Difference in Means - Superiority by a Margin - Group-Sequential
Aspin-Welch Unequal-Variance T- Test	Comparing Paired Difference Means	Difference in Medians
Average-Difference Plots	Comparing Two Means	Efficacy Boundaries
Bartlett's Test	Comparing Two Means - Group- Sequential	Eigenvalues
Beta Spending	Comparing Two Means - Non- Inferiority - Group-Sequential	Equal Variance Tests
Binding Futility Boundary	Comparing Two Means - Superiority by a Margin - Group-Sequential	Equal-Variance Test
Bioequivalence	Conditional Power	Equivalence Tests
Bioequivalence Tests	Confidence Interval	Equivalence Tests using TOST
Bland-Altman	Confidence Interval for Means	F-Test
Bland-Altman Plot and Analysis	Confidence Interval for Medians	Futility Boundaries
Bland-Altman Plots	Confidence Interval for One Mean	Group Comparison Plots
Bonferroni C.I.'s	Confidence Interval for Paired Means	Group-Sequential
	Confidence Interval for SD	Group-Sequential Analysis for One Mean with Known Variance
	Confidence Interval for SD Ratio	

## NCSS Procedure and Topic List (Categorized)

Group-Sequential Analysis for Two Means with Known Variances	Hotelling's Paired-Sample T2	Non-Binding Futility Boundary
Group-Sequential Design - One Mean	Hotelling's Two-Sample T2	Non-Inferiority
Group-Sequential Design - One Mean - Non-Inferiority	Interim Analysis - One Mean	Non-Inferiority Tests
Group-Sequential Design - One Mean - Superiority by a Margin	Interim Analysis - One Mean - Non-Inferiority	Nonparametric
Group-Sequential Design - Two Means	Interim Analysis - One Mean - Superiority by a Margin	Nonparametric Tests
Group-Sequential Design - Two Means - Non-Inferiority	Interim Analysis - Two Means	Normality Tests
Group-Sequential Design - Two Means - Superiority by a Margin	Interim Analysis - Two Means - Non-Inferiority	Omnibus Normality Test
Group-Sequential Non-Inferiority Analysis for One Mean with Known Variance	Interim Analysis - Two Means - Superiority by a Margin	One Mean - Group-Sequential
Group-Sequential Non-Inferiority Analysis for Two Means with Known Variances	Kolmogorov-Smirnov Test	One Mean - Non-Inferiority - Group-Sequential
Group-Sequential Non-Inferiority T-Tests for One Mean	Kurtosis Normality Test	One Mean - Superiority by a Margin - Group-Sequential
Group-Sequential Non-Inferiority T-Tests for Two Means	Lambda	One-Sample T-Test
Group-Sequential Superiority by a Margin Analysis for One Mean with Known Variance	Lambda vs. SD Plots	One-Sample T-Test for Equivalence
Group-Sequential Superiority by a Margin Analysis for Two Means with Known Variances	Levene's Equal Variance Test	One-Sample T-Test for Non-Inferiority
Group-Sequential Superiority by a Margin T-Tests for One Mean	Limits of Agreement	One-Sample T-Test for Superiority by a Margin
Group-Sequential Superiority by a Margin T-Tests for Two Means	LoA	One-Way Analysis of Variance
Group-Sequential Superiority by a Margin Analysis for One Mean with Known Variance	Mann-Whitney Test	One-Way ANOVA
Group-Sequential Superiority by a Margin Analysis for Two Means with Known Variances	Mean Comparison	Outliers
Group-Sequential Superiority by a Margin T-Tests for One Mean	Mean Difference	Paired Difference
Group-Sequential Superiority by a Margin T-Tests for Two Means	Mean Equality	Paired Means
Group-Sequential Tests	Mean Input	Paired T-Test
Group-Sequential Tests for One Mean	Means	Paired T-Test for Equivalence
Group-Sequential Tests for One Mean - Non-Inferiority	Means - Group-Sequential	Paired T-Test for Non-Inferiority
Group-Sequential Tests for One Mean - Superiority by a Margin	Means - Non-Inferiority - Group-Sequential	Paired T-Test for Superiority by a Margin
Group-Sequential Tests for Two Means - Non-Inferiority	Means - One - Group-Sequential	Period Plots
Group-Sequential Tests for Two Means - Superiority by a Margin	Means - One - Non-Inferiority - Group-Sequential	Power Transformation
Group-Sequential T-Test	Means - One - Superiority by a Margin - Group-Sequential	Predictive Power
Group-Sequential T-Test - Non-Inferiority	Means - Superiority by a Margin - Group-Sequential	Probability Plots
Group-Sequential T-Test - Superiority by a Margin	Means One - Non-Inferiority - Group-Sequential	Profile Plots
Group-Sequential T-Tests for One Mean	Means One - Superiority by a Margin - Group-Sequential	Quantile Test
Group-Sequential T-Tests for Two Means	Means Plots	Randomization Test
Histograms	Means Two - Non-Inferiority - Group-Sequential	Rank-Sum Test
Hotelling's One-Sample T2	Means Two - Superiority by a Margin - Group-Sequential	Ratio of Standard Deviations
	Measurement Error	Re-estimation of Sample Size
	Median Confidence Interval	Reliability
	Median Test	Repeated Measures
	Method Comparison	Repeated Measures Analysis of Variance
	Model Fitting	Resampling Test
	Modified Levene's Test	Residual Plots
	Multiple Comparison Tests	Residuals
	Multivariate Analysis	Sample Size Re-estimation
	Multivariate T-Test	Scatter Plots
		Schurmann's Two One-Sided Tests
		SD Ratio
		Shapiro-Wilk Normality Test
		Sign Test
		Signed-Rank Test
		Simultaneous C.I.'s
		Skewness

## NCSS Procedure and Topic List (Categorized)

Skewness Normality Test	T-Test - One Mean	Two-Level Design Analysis
Spending Functions	T-Test - One Mean - Non-Inferiority	Two-Sample T-Test
Standard Deviation	T-Test - One Mean - Superiority by a Margin	Two-Sample T-Test - Equivalence
Standard Deviation Confidence Interval	T-Test - Superiority by a Margin	Two-Sample T-Test - Non-Inferiority
Standard Deviation Ratio	T-Test - Two Means	Two-Sample T-Test - Superiority by a Margin
Standard Error	T-Test - Two Means - Non-Inferiority	Two-Sample T-Test for Equivalence
Sum-Difference Plots	T-Test - Two Means - Superiority by a Margin	Two-Sample T-Test for Non-Inferiority
Summary Statistics Input	T-Tests	Two-Sample T-Test for Superiority by a Margin
Sums and Differences Plots	T-Tests - Aspin-Welch	Two-Sample T-Test from Means and SD's
Superiority by a Margin	T-Tests - Equivalence	Two-Treatment Cross-Over Analysis
Superiority by a Margin Tests	T-Tests - Non-Inferiority	Unequal-Variance T-Tests
Superiority Tests	T-Tests - Paired	Variance Equality Tests
T2	T-Tests - Superiority	Variance Ratio Equal-Variance Test
Testing Equivalence with Two Independent Samples	Two Means	Variance Ratio Test
Testing Non-Inferiority with Two Independent Samples	Two Means - Confidence Interval	Variance Test
Testing Superiority by a Margin with Two Independent Samples	Two Means - Group Sequential	Westlake's Confidence Interval
TOST	Two Means - Group-Sequential	Wilcoxon Rank-Sum Test
TOST Equivalence Test	Two Means - Non-Inferiority - Group Sequential	Wilcoxon Signed-Rank Test
Transformations	Two Means - Non-Inferiority - Group-Sequential	Wilcoxon Test
Transformations - Box-Cox	Two Means - Superiority by a Margin - Group Sequential	Wilcoxon-Mann-Whitney Test
Transformations - Power	Two Means - Superiority by a Margin - Group-Sequential	Z-Tests
Transformations to Normality	Two Means Cross-Over	
T-Test		
T-Test - Non-Inferiority		

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## Two-Way Tables

2x2 Table	Contingency Tables (Crosstabs / Chi-Square Test)	Hierarchical Models
Adjusted Kappa Statistic	Continuity Correction	Independence Tests
Angular Transformation of Proportions	Correlation Statistics	Inter-Rater Agreement (Kappa)
ArcSin Transformation	Count Adjustment	Kappa Reliability Test
Armitage Rank Correlation Test	Count Tables	Kappa Statistic
Association - Partial and Marginal	Counts	Kappa Test for Inter-Rater Agreement
Association and Correlation Statistics	Cramer's V	Kendall's Tau
Bar Charts	Cross Tabulation	Lambda
Bonferroni Multiple Comparisons of Proportions versus a Control	Crosstabs	Likelihood Ratio Test
Cell Counts	Descriptive Statistics	LLM
Chi-Square	Dunnett Multiple Comparisons of Proportions versus a Control	Loglinear Models
Chi-Square Test	Exact Test	Mantel-Haenszel Confidence Intervals
Cochran-Armitage Proportion Trend Test	Expected Counts	Mantel-Haenszel Test
Cochran-Armitage Proportion Trend Test with Continuity Correction	Fisher's Exact Test	Many to one Multiple Comparisons of Proportions
Cochran's Q Test	Freeman-Tukey Standardized Residual	Marginal Association
Column Percentages	Frequency Tables	McNemar Test
Contingency Tables	FT-SR	Minimum Required Difference
	Gamma	Multinomial Test
	Goodness-of-Fit Tests	Multiple Comparison Tests
		Multiple Comparisons of Proportions

## NCSS Procedure and Topic List (Categorized)

Multiple Comparisons of Proportions versus a Control	Proportion Trend Test Proportions	Tschuprow's T
Multiway Frequency Analysis	Proportions - Multiple Comparisons	Tukey-Kramer Pairwise Multiple Comparisons of Proportions
Nonparametric	Proportions Tests	Two-by-Two Tables
Nonparametric Tests	Reliability	Two-Way Tables
Odds Ratio	Robins Confidence Interval	Wald Ratio Multiple Comparisons of Proportions
One-Sided Dunnett Multiple Comparisons of Proportions versus a Control	Row Percentages	Weighted Kappa
Paired T-Test	Row-Column Independence Test	Weighted Kappa Reliability Test
Pairwise Multiple Comparisons of Proportions	Score Test Pairwise Multiple Comparisons of Proportions	Weighted Kappa Statistic
Partial Association	Simultaneous confidence intervals of the differences among several proportions	Weighted Kappa Test for Inter-Rater Agreement
Pearson Chi-square	Standardized Residuals	Woolf's Confidence Interval
Pearson's Chi-Square Test	Studentized Range Distribution	Woolf's Confidence Limits
Pearson's Contingency Coefficient	Symmetric Lambda	Woolf's Odds Ratio Analysis
Percentages	Table Percentages	Yates' Continuity Corrected Chi-Square Test
Phi	Table Statistics	

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## Graphics

3D Bar Charts	Clustered Heat Maps (Double Dendrograms)	Density Plots (2 Factors)
3D Bar Charts (2 Factors)	Combo Charts	Density Plots using Sunflowers
3D Line Charts	Combo Charts (2 Factors)	Density Trace
3D Line Charts (2 Factors)	Comparative Histograms	Distribution Plots
3D Plots	Compare Probability Plots	Dot Plots
3D Scatter Plots	Comparing Two ROC Curves - Independent Groups Design	Dot Plots - Border
3D Surface Plots	Comparing Two ROC Curves - Paired Design	Dot Plots (2 Factors)
Area Under Curve	Conditional Probability Plots	Double Dendrograms
Area Under ROC Curve	Confidence Band	Eigenvector Plot
Area Under ROC Curve Confidence Interval	Contour Plots	Empirical ROC Curve
Attribute Charts	Control Charts	Equation Plots
Autocorrelation Plots	Control Limits	Error-Bar Charts
Average-Difference Plots	Correlogram	Error-Bar Charts (2 Factors)
Back-to-Back Stem-and-Leaf Plots	Cross-Correlations Plots	Error-Bar Charts from Summary Data
Bar Charts	Cumulative Chart	Error-Bar Charts from Summary Data (2 Factors)
Bar Charts - 3D	Cumulative Hazard	Error-Bar Plots
Bar Charts (2 Factors)	Cumulative Pareto Chart	EWMA Charts
Binormal ROC Curve	Cumulative Sum Charts	Exponential Probability Plots
Bland-Altman Plot and Analysis	Curve Fitting	Exponentially Weighted Moving Average Chart
Bland-Altman Plots	Curve Fitting - General	Forecast Plots
Border Plots	Curve Fitting Plots	Forest Plots
Box Plots	Curve Fitting Scatter Plot Matrix	Formula Plots
Box Plots (2 Factors)	Curve Inequality Test	Fourier Plots
Box-and-Whisker Plots	CUSUM Charts	Frequency Distribution Plots
C Charts	Data Plots	Function Plots
Capability Histograms	Decomposition Ratio Plots	Gamma Plots
Chi-Square Plots	Dendrograms	Gamma Probability Plots
Chi-Square Probability Plots	Density Plots	Half-Normal Plots
Circular Data Plots		Half-Normal Probability Plots
Circular Histograms		

## NCSS Procedure and Topic List (Categorized)

Hazard Function Plots	Outliers	Scatter Plots with Error Bars from
Hazard Rate Plots	P Charts	Summary Data
Heat Map	Paired ROC Curves	Sequence Plots
Heat Map of Correlations	Pareto Charts	Serial Correlation Plots
Heat Maps	Partial Autocorrelation Plots	Smoothed Histograms
Hierarchical Clustering / Dendrograms	Partial Residual Plots	Spectrum Plots
Histograms	Percentile Plots	Spine Plots
Histograms - Border	Percentile Plots (2 Factors)	Spline
Histograms - Comparative	Periodogram Plots	Standard Deviation Charts
Histograms - Comparative (2 Factors)	Pie Charts	Stem-and-Leaf Plots
Histograms - Smoothed	Plot of Eigenvectors	Stem-Leaf Plots
I-MR Charts	Plot of Principal Components	Sunflower Plots
Individuals and Moving Range Charts	Plots	Surface Plots
Individuals Charts	Point Plots	Surface Plots - 3D
Kaplan-Meier Curves (Logrank Tests)	Probability Ellipse	Survival Curves
L'Abbe Plots	Probability Plot Comparison	Survival Plots
Lag Plots	Probability Plots	Three-Dimensional Data Plots
Levey-Jennings Charts	Proportions Plot	Time Series Plots
Line Charts	Quality Control Charts	Topographical Map
Line Charts - 3D	R Charts	Treemap Plots
Line Charts (2 Factors)	Radial Plots	Trend Plots
Linear Regression Plots	Range Charts	U Charts
Loess	Ratio Plots	Uniform Probability Plots
Log-Normal Plots	Receiver Operating Characteristic	Violin Chart
Log-Normal Probability Plots	Curve	Violin Charts
Lowess	Regression Plots	Violin Plots
MA Charts	Residual Plots	Violin Plots (2 Factors)
Matrix of Scatter Plots	Rose Plots	Weibull Probability Plots
Mosaic Plots	Runs Charts	Wireframe Plots
Moving Average Charts	s Charts	X-bar and R Charts
Moving Range Charts	Scatter Diagram	X-bar and s Charts
Nonparametric ROC Curves	Scatter Plot Matrix	Xbar Charts
Normal Probability Plots	Scatter Plot Matrix for Curve Fitting	X-bar Charts
Normality Plots	Scatter Plots	X-Y Plots
NP Charts	Scatter Plots with Error Bars	X-Y-Z Plots
One ROC Curve and Cutoff Analysis		Y vs X Plots

## NCSS Procedure and Topic List (Categorized)

**Data**

Assigning Subjects to Groups	Data Report	Mahalanobis Distance
Bar Charts	Data Sampling	Matching
Beta Distribution	Data Screening	Maximum
Biased Coin Randomization	Data Simulation	Mean Absolute Deviation
Bimodal Data	Data Stratification	Mean Absolute Deviation from the Median
Binomial Distribution	Database Merge	Means
Block Outlier Tests	Dataset Merge	Median
Block Randomization	Dataset Sampling	Merging Two Datasets
Box-Cox Algorithm	Descriptive Statistics	Minimum
Box-Cox for Linear Regression	Descriptive Statistics - Summary Lists	Missing Count
Box-Cox for Regression	Descriptive Tables	Missing Value Estimation
Box-Cox Plots	Design of Experiments	Mixing Distributions
Box-Cox Power Transformation	Detecting Outliers	Model Fitting
Box-Cox Transformation	Distance	Monte-Carlo Simulation
Box-Cox Transformation for Simple Linear Regression	Distribution Simulation	Multinomial Distribution
Caliper Matching	DOE	Multivariate Normal Missing Value Estimation
Cauchy Distribution	Efron's Biased Coin Randomization	Normal Distribution
Centers	ESD Outliers	Normality Plots
Cluster Means	Experimental Design	Normality Tests
Cluster Proportions	Exponential Distribution	Observational Study Matching
Cluster Randomization	Extreme Studentized Deviate	Observational Study Stratification
Cluster Randomization - Create Cluster Means Dataset	Extreme Values	Omnibus Normality Test
Cluster Randomization - Create Cluster Proportions Dataset	F Distribution	One-Way Analysis of Variance
Cluster Randomization - Create Cluster Rates Dataset	Forced Match	Optimal Data Matching
Cluster Rates	Gamma Distribution	Optimal Matching
Cluster Survival	Generating Data	Outlier Detection
COD	Greedy Data Matching	Outlier Test
Coefficient of Dispersion	Greedy Matching	Outliers
Coefficient of Variation	Grubbs' Outlier Test	Percentiles
Combining Distributions	Grubbs' Test	Poisson Distribution
Complete Randomization	Gumbel Distribution	Power Transformation
Confidence Interval	Histograms	Printing Data
Constant Distribution	Imputation	Probability Distribution Simulation
Contaminated Normal Distribution	Imputing Data	Probability Plots
Counts	Incidence rates	Propensity Score
COV	Interquartile Range	Propensity Score Matching
CV	IQR	Proportions
Data Export to All Major Statistical Data File Formats	Kaplan-Meier	Quantiles
Data Import from All Major Statistical Data File Formats	Kurtosis	Random Numbers
Data Imputation	Kurtosis Normality Test	Random Sample
Data List	Lambda	Random Sampling
Data Matching	Lambda vs. SD Plots	Random Sorting
Data Matching - Greedy	Laplace Distribution	Random Sorting using Maximum Allowable % Deviation
Data Matching - Optimal	Levene's Equal Variance Test	Random Subject Assignment
Data Merge	Likert-Scale Data	Randomization Algorithms
	Linear Regression - Box-Cox	Randomization Lists
	List Data	Range
	Logistic Distribution	Regression
	Lognormal Distribution	
	MAD	
	MADM	

## NCSS Procedure and Topic List (Categorized)

Rosner's Outlier Test	Smith's Randomization	T Distribution
R-Squared	Snedecor's F Distribution	Table of Means
Sampling	Standard Deviation	Table of Proportions
Sampling Subpopulations	Standard Error	Table of Rates
Screening Data	Strata	Tables - Descriptive
SD	Stratification	Time Calculator
SE	Stratification of Data	Transformations
Shapiro-Wilk Normality Test	Stratified Random Sampling	Transformations - Box-Cox
Show Data	Stratified Random Sampling with Group Assignment	Transformations - Power
Simple Linear Regression	Stratified Sampling	Transformations to Normality
Simple Random Sampling	Stratum	Tukey's Lambda Distribution
Simple Random Sampling with Group Assignment	Student's T Distribution	Uniform Distribution
Simulate Data	Subpopulation Sampling	Variable Matching
Simulate Distribution	Summarize Clusters	Variance
Simulation	Summary Lists	Variance Equality Tests
Simulator	Summary Tables	Variation
Skewed Distribution	Sums	Weibull Distribution
Skewness	Survival Analysis	Wei's Urn Randomization
Skewness Normality Test	Survival Rates	

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**Tools**

Batch Execution	Exponential Distribution	Poisson Probability Calculator
Beta Distribution	F Distribution	Population Standard Deviation
Beta Probability Calculator	F Probability Calculator	Probability Calculator
Binomial Distribution	Gamma Distribution	Probability Calculator Distribution
Binomial Probability Calculator	Gamma Probability Calculator	Programming
Bivariate Normal Distribution	Hazard Rate	Proportions
Bivariate Normal Probability Calculator	Hazard Rate Conversion	Proportions Calculator
Calculator - Chi-Square	Hazard Ratio	Range
Calculator - Odds Ratio and Proportions	Hazard Ratio Conversion	S Distribution
Calculator - Probability	Hotelling's T2 Distribution	S Probability Calculator
Calculator - Standard Deviation	Hotelling's T2 Probability Calculator	Sample Standard Deviation
Calculator - Survival Parameters	Hypergeometric Distribution	Scripting Language
Chi-Square Distribution	Hypergeometric Probability Calculator	Scripts
Chi-Square Effect Size Calculator	Macro Command Center	Standard Deviation
Chi-Square Probability Calculator	Macros	Standard Deviation Calculator
Coefficient of Variation	Median Survival Time Conversion	Standard Deviation Confidence Limits
Contingency Table Calculator	Mortality Ratio Conversion	Standard Deviation Conversion
Contingency Tables	Multinomial Test	Standard Error
Correlation Coefficient Distribution	Negative Binomial Distribution	Studentized Range Distribution
Correlation Distribution	Negative Binomial Probability Calculator	Studentized Range Probability Calculator
Correlation Probability Calculator	Normal Distribution	Student's T Distribution
COV	Normal Probability Calculator	Student's T Probability Calculator
Cumulative Distribution Distribution	Odds Ratio	Survival Parameter Conversion Tool
Effect Size Calculator	Odds Ratio and Proportions Calculator	Weibull Distribution
	Percentiles	Weibull Probability Calculator
	Poisson Distribution	