

Chapter 4

The Procedure Window

Introduction

This chapter discusses the operation of the **PASS Procedure Window**, one of the three main **PASS** windows. The other two windows are the *PASS Home Window* and the *Output Window*. These are described in other chapters. Each power analysis and sample size procedure in **PASS** has its own Procedure window, which contains all the settings, options, and parameters required to perform the calculation. These options are separated into groups called *tabs* or *panels*. A particular panel is viewed by pressing the corresponding tab that appears at the left side of the window. The tabs are organized into groups separated by a horizontal line. Tabs above the line (*Design* and *Options*) have input options specific to the procedure and determine specifically how the calculation is carried out. The options on **all** tabs above the separating line directly affect the calculation and accuracy of the results. Tabs below the line (usually *Reports* and *Plots*) have options common to all procedures that allow you to select and format reports and plots.

At most six procedure windows can be opened at a time. You can widen the window to increase the size of the immediate help window by dragging the corners of the window.

The Procedure Window is comprised of five main items: the *Input Options Tabs*, the *Calculate Button*, the *Help Pane*, the *Menu*, and the *Toolbar*. Each of these components will be described in the sections that follow.

Procedure Settings Files

The values of all options available for a procedure are stored in *settings files*. By creating and saving procedure settings files (formerly referred to as *templates*), you can tailor each procedure to your own specific needs. Each time you use a procedure, you simply load your settings from a file and run the calculations you have preset. You do not have to set all the options every time. You can save and load settings files anywhere on your computer or network.

Settings files have the extension ***.t[Procedure Number]**, where [Procedure Number] is replaced by the number of the procedure (e.g., *.t388 is the extension for all Two-Sample T-Tests Assuming Equal Variance procedure settings files). A complete list of all procedures by number is given at the end of this chapter. Each procedure's name and number are displayed near the bottom left of each procedure window when *Procedure Info* is selected to be shown. To display procedure info, click *View > Show Procedure Info* in the Procedure Window menu.

Default Settings

Whenever you close a procedure, the current settings are automatically saved in a default settings file. This file is automatically loaded when the procedure is next opened. This allows you to continue using the procedure without resetting all of the options.

Input Options Tabs

Your settings and selections that control a procedure are entered on the *Input Options Tabs*. The panel consists of several types of windows objects such as text boxes, check boxes, list boxes, and buttons. These control the input used in an analysis, how the analysis is performed, and which reports and plots will be generated. Not all options are always required. The tabs are organized into groups separated by a horizontal line. Tabs above the line have input options specific to the procedure and determine specifically how the analysis is carried out. The options on **all** tabs above the separating line directly affect the calculation and accuracy of the results. Tabs below the line (usually *Reports* and *Plots*) have options common to all procedures that allow you to select and format reports and plots. Use the *Guide Me* panel in the lower right corner of the window to have the program show you which options are required by the procedure.

Entering Text

When text (either numeric or letters) is needed for a particular option, you will be allowed to type text in the box. Many of these text boxes also have a pull-down button on the right. Pressing this button will allow you to select an option from a list of typical values, rather than type in the value.

Options that allow multiple values have two types of drop-down entry tools. The first will allow you to select from a list of typical values. The second will help you enter a list or a series of values. If you enter a value for a parameter that allows multiple entries that is out of bounds, the input text will turn red.

Selecting from a List

Some options require you to select from a list. In this case, a dropdown list will allow you to choose from the selections available.

Design Tab

The Design tab displays most of the options specific to the procedure. This is where you set the values of power, sample size, alpha, etc. These options are described in detail in the chapters corresponding to each procedure. Once you have set the options, click the **Calculate** button to generate the output.

Entering Multiple Values

In most cases, boxes that are extra wide allow you to enter multiple values. When this is done, a separate analysis is done for each combination of all multiple values. For example, if you enter four sample sizes and three alpha values, the resulting report will contain $3 \times 4 = 12$ rows, one for each combination.

You can enter multiple options using list or the *to-by* syntax. The *to-by* syntax is most easily described by an example. Use the drop-down tools to help you enter lists.

The *to-by* phrase *20 to 100 by 20* is translated to the values: *20 40 60 80 100*.

Solve For

Specify the parameter that is to be solved for in terms of the other parameters. For example, you might want to solve for power or sample size.

In most cases, the algorithm for calculating the power is programmed within **PASS**. When other parameters (such as sample size or difference) are selected, a binary search is conducted using the power algorithm.

Options Tab

Some procedures have an options tab. When present, this tab contains additional calculation options relevant to the analysis. The default values are usually sufficient for most calculations.

Reports Tab

The Reports tab displays the options that control the output reports.

Select Numeric Report Output

Show Numeric Report

This option determines whether the numeric report is displayed in the output.

Show References

Check this box to cause the literature reference(s) to be displayed on the report.

Show Definitions

Check this box to show the definitions at the end of the numeric report. Although these definitions are helpful at first, they tend to clutter the output and this option lets you skip them.

Show Summary Statements

The program will output a text statement summarizing the results for each scenario. This option specifies the number of scenarios (rows) from the Numerical Report that will have a summary statement displayed.

Decimal Places for Numeric Reports

Decimals

These options set the number of decimal places in corresponding values of the numeric reports. Some of these decimal values also affect the decimal places for corresponding values in plot titles and legend labels.

Page Title

Page Title

This option allows you to enter an option title phrase that will appear in the heading of each page of the output.

Plots Tab

The Plots tab displays the options that control the output plots.

2D Plots

X-Y Plots

Check this box to display 2D X vs Y plots in the output.

Show

This option controls when plots are displayed. This option allows you to eliminate "uninformative" plots from the output. The options are:

If X Parameter Varies

The plot is displayed only if the parameter on the X-axis has more than one value.

Always

The plot is always displayed.

Plot Format Button

Click this button to edit the format of the plots with random data. The Scatter Plot chapter is devoted to the options available in this window.

Live Edit

This option controls whether the plot may be reformatted interactively after it has been generated but before it is written to the report. When checked, this option allows charts to be formatted interactively using a plot-editing window.

2D Plot – Axis and Legend Parameters

Y (Vertical) and X (Horizontal) Axis Parameters

This option selects which of the parameters is displayed on the horizontal axis. The vertical axis always contains the **Solve For** parameter, so you cannot select the parameter that was listed in the Find option. Also, you would normally only select a parameter that has multiple entries.

When this option is set to *Automatic*, the parameter with the most values is selected.

Legend Parameter

A separate line is drawn for each value of this parameter. The lines are labeled in the legend. When this option is set to *Automatic*, the parameter with the second most values is selected.

3D Plots

X-Y-Z Plots and X-Y-Z Plots with Groups

Check this box to display 3D X-Y-Z plots and/or X-Y-Z plots with groups in the output. These can display 3 variables and 4 variables, respectively, on a single plot.

Show

This option controls when plots are displayed. This option allows you to eliminate "uninformative" plots from the output. The options are:

If X, Z Parameters Vary (X-Y-Z Plots only)

The plot is displayed only if the parameters on both the X and Z axes have more than one value.

If X, Z, Legend Parameters Vary (X-Y-Z Plots with Groups only)

The plot is displayed only if the parameters on the X and Z axes and in the legend all have more than one value.

Always

The plot is always displayed.

Plot Format Button

Click this button to edit the format of the plots with random data. The Scatter Plot chapter is devoted to the options available in this window.

Live Edit/Rotate

This option controls whether the plot may be reformatted interactively after it has been generated but before it is written to the report. When checked, the procedure will stop while it is running to allow you to change this plot's 3D orientation and format. This is useful because the plot will be displayed with the actual values rather than randomly generated data.

3D Plot – Axis and Legend Parameters

Y (Vertical), X(Horizontal), and Z(Depth) Axis Parameters

This option selects which of the parameters are displayed on the X and Z axes. The vertical axis always contains the **Solve For** parameter, so you cannot select the parameter that was listed in the Solve For option. Also, you would normally only select a parameter that has multiple entries.

When this option is set to *Automatic*, the parameter with the most values that is not already displayed on another axis is assigned to this axis. When both are set to *Automatic*, the parameter with the most values is assigned to the X axis and the parameter with the second most values is assigned to the Z axis.

Legend Parameter (used only in X-Y-Z Plots with Groups)

A separate surface is drawn for each value of this parameter. The lines are labeled in the legend. When this option is set to *Automatic*, the parameter with the third most values is selected.

Plot Text Tab

The Plot Text tab displays the options that control the text displayed in plots.

Decimal Places for Plot Titles and Legend

Decimals

These options set the number of decimal places for corresponding values in plot titles and legend labels.

Abbreviations for Titles, Labels, and Legend

Parameter Abbreviations

These options specify the abbreviations that are used for the parameters in the titles of the plots and the axis labels. It is usually necessary to keep these abbreviations as short as possible since the titles may become very large if the abbreviations are large.

Calculate Button

Click on the green *Calculate Button* located in the upper-left portion of the window to run the analysis or graphics procedure and obtain a report. While the procedure is running the green Calculate Button will change to a red *Abort* button. If the procedure is taking too long or you want to interrupt the calculations, click on the red button to immediately terminate the calculations. While a procedure is running, look for progress information in the Help Pane on the right.

Help Pane

The Help Pane is comprised of the Help Center, which contains links to useful help resources, and the Option Info display box, which displays information as you mouse over each input option.

Help Center

Click on the *Help Center* heading to expand or collapse the help options inside. The help center contains various links to procedure-specific help topics, examples, and validation as well as links to general training videos and documentation. It also contains an option to help you fill out the procedure input options by sequentially highlighting the primary options in the procedure. This is sometimes referred to as *Guide Me*.

Option Info

As you mouse over or set focus on each option on the Procedure Window, the *Option Info* box in the Help Pane on the right will be updated with important information about that option. Use this information to help you decide on how to complete each option. Look for option recommendations and descriptions of possible choices. While a procedure is running, look for progress information in the option info box.

Menus

We will now discuss the various options that appear in the Procedure Window menus.

File Menu

The File Menu is used for initializing, loading, and saving procedure settings files. Each set of options for a procedure may be saved for future use. In this way, you do not have to set the options every time you use a procedure. Instead, you set the options once, save them to a file, and re-load the settings whenever you re-use the procedure. You can save and load settings files anywhere on your computer or network.

- **Reset All Settings to Defaults**

This menu item resets all options to their default values.

- **Open Settings File**

This menu item opens a file selection dialog from which you can select a procedure settings file to open from anywhere on your computer or network.

- **Open Example Settings File**

This menu item opens a window from which you can select from the available example settings files for that procedure. This is particularly useful when following tutorials in the procedure documentation.

- **Save Settings to a File**

This menu item opens a window with which you can name and save the current procedure settings to a file.

- **Autosave Settings**

Selecting this option causes the program to automatically save a procedure settings file each time a procedure is run. The name and location of the saved settings file is listed in the Procedure Input Settings Report at the end of the output (if requested).

- **Options**

This menu item brings up the System Options window to set various program-wide options.

- **Close This Procedure**

This menu item closes this procedure window. It does not terminate the **PASS** system.

- **Exit PASS**

This option terminates the **PASS** system. If you have unsaved data or report galleries, you will be prompted to save them before the program closes.

View Menu

The View Menu controls what objects are displayed on the Procedure Window. You can use this message to show or hide the toolbar and show or hide procedure info that contains procedure names and numbers and option numbers. This procedure information is particularly useful when writing macros. With this menu you can also increase the size of the text in all **PASS** windows.

Run Menu

The *Start Calculation* menu item runs the analysis, displaying the output in the Output document of the word processor. After you have set all options to their appropriate values, select this option to perform the analysis. The procedure may alternatively be run by pressing the *F9* function key or by pressing the green *Calculate Button* in the upper-left portion of the screen. While a procedure is running, look for progress information in the Help Pane on the right.

While the procedure is running this menu item will change to *Abort* and the green *Calculate Button* will change to a red *Abort* button. If the procedure is taking too long or you want to interrupt the calculations, click on the red button or select *Abort* from the *Run* menu to immediately terminate the calculations.

Procedures Menu

This menu can be used to load procedures.

Tools Menu

From this menu you can load various statistical calculators, data procedures, and the macro command center window. You can also play the active macro from this menu.

Window Menu

This menu lets you transfer to one of the other **PASS** windows such as the Output window or one of the currently open procedure windows.

Help Menu

From this menu you can launch the **PASS** Help System and view documentation, tutorials, videos, and references. From this menu you can also view licensing information.

Toolbar

The *Toolbar* is provided for single-click access to the most commonly used menu options. You will find that each of the options on the toolbar can also be found in the menus. The Toolbar is located at the top of the screen just under the menus. On the left, the toolbar contains buttons that allow you to reset, open, and save procedure settings files. On the right, the toolbar contains navigation buttons to help you quickly move among windows in the system and load new procedures.

List of Procedures Sorted by Procedure Name

The following is a list of all **PASS** procedures (with Procedure Number, Documentation Chapter Number, and Name) sorted by procedure name. Procedure settings files have the extension ***.t[Procedure Number]**, where [Procedure Number] is replaced by the number of the procedure given below.

Proc. #	Chapter #	Name
725	596	2x2 Factorial Analysis of Variance Allowing Unequal Variances
748	287	Acceptance Sampling for Attributes with Fixed Nonconformities
370	285	Acceptance Sampling for Attributes with Optimum Number of Nonconformities
747	288	Acceptance Sampling for Attributes with Zero Nonconformities
695	591	Analysis of Covariance (ANCOVA)
107	551	Analysis of Covariance (ANCOVA) (Legacy)
696	592	Analysis of Covariance (ANCOVA) Contrasts
783	292	Assurance for Equivalence Tests for the Difference Between Two Proportions
800	729	Assurance for Equivalence Tests for the Difference of Two Hazard Rates Assuming an Exponential Model
809	753	Assurance for Equivalence Tests for the Difference of Two Proportions in a Cluster-Randomized Design
791	324	Assurance for Equivalence Tests for the Odds Ratio of Two Proportions
819	739	Assurance for Equivalence Tests for the Ratio of Two Negative Binomial Rates
815	759	Assurance for Equivalence Tests for the Ratio of Two Poisson Rates
790	323	Assurance for Equivalence Tests for the Ratio of Two Proportions
804	748	Assurance for Equivalence Tests for Two Means in a Cluster-Randomized Design
796	725	Assurance for Equivalence Tests for Two Survival Curves using Cox's Proportional Hazards Model
792	721	Assurance for Logrank Tests (Freedman)
810	754	Assurance for Logrank Tests in a Cluster-Randomized Design
781	289	Assurance for Non-Inferiority Tests for the Difference Between Two Proportions
798	727	Assurance for Non-Inferiority Tests for the Difference of Two Hazard Rates Assuming an Exponential Model
807	751	Assurance for Non-Inferiority Tests for the Difference of Two Proportions in a Cluster-Randomized Design
789	322	Assurance for Non-Inferiority Tests for the Odds Ratio of Two Proportions
817	737	Assurance for Non-Inferiority Tests for the Ratio of Two Negative Binomial Rates
813	757	Assurance for Non-Inferiority Tests for the Ratio of Two Poisson Rates
787	299	Assurance for Non-Inferiority Tests for the Ratio of Two Proportions
802	746	Assurance for Non-Inferiority Tests for Two Means in a Cluster-Randomized Design
794	723	Assurance for Non-Inferiority Tests for Two Survival Curves using Cox's Proportional Hazards Model
820	776	Assurance for Non-Inferiority Tests for Vaccine Efficacy using the Ratio of Two Proportions
785	294	Assurance for Non-Unity Null Tests for the Odds Ratio of Two Proportions
784	293	Assurance for Non-Unity Null Tests for the Ratio of Two Proportions
780	284	Assurance for Non-Zero Null Tests for the Difference Between Two Proportions
806	750	Assurance for Non-Zero Null Tests for the Difference of Two Proportions in a Cluster-Randomized Design

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Proc. #	Chapter #	Name
782	291	Assurance for Superiority by a Margin Tests for the Difference Between Two Proportions
799	728	Assurance for Superiority by a Margin Tests for the Difference of Two Hazard Rates Assuming an Exponential Model
808	752	Assurance for Superiority by a Margin Tests for the Difference of Two Proportions in a Cluster-Randomized Design
788	321	Assurance for Superiority by a Margin Tests for the Odds Ratio of Two Proportions
818	738	Assurance for Superiority by a Margin Tests for the Ratio of Two Negative Binomial Rates
814	758	Assurance for Superiority by a Margin Tests for the Ratio of Two Poisson Rates
786	298	Assurance for Superiority by a Margin Tests for the Ratio of Two Proportions
803	747	Assurance for Superiority by a Margin Tests for Two Means in a Cluster-Randomized Design
795	724	Assurance for Superiority by a Margin Tests for Two Survival Curves using Cox's Proportional Hazards Model
821	777	Assurance for Superiority by a Margin Tests for Vaccine Efficacy using the Ratio of Two Proportions
811	755	Assurance for Tests for the Difference Between Two Poisson Rates
797	726	Assurance for Tests for the Difference of Two Hazard Rates Assuming an Exponential Model
816	736	Assurance for Tests for the Ratio of Two Negative Binomial Rates
812	756	Assurance for Tests for the Ratio of Two Poisson Rates
801	745	Assurance for Tests for Two Means in a Cluster-Randomized Design
779	283	Assurance for Tests for Two Proportions
805	749	Assurance for Tests for Two Proportions in a Cluster-Randomized Design
793	722	Assurance for Tests for Two Survival Curves using Cox's Proportional Hazards Model
772	269	Assurance for Two-Sample T-Tests Allowing Unequal Variance
770	267	Assurance for Two-Sample T-Tests Assuming Equal Variance
778	282	Assurance for Two-Sample T-Tests for Equivalence Allowing Unequal Variance
775	279	Assurance for Two-Sample T-Tests for Equivalence Assuming Equal Variance
776	280	Assurance for Two-Sample T-Tests for Non-Inferiority Allowing Unequal Variance
773	277	Assurance for Two-Sample T-Tests for Non-Inferiority Assuming Equal Variance
777	281	Assurance for Two-Sample T-Tests for Superiority by a Margin Allowing Unequal Variance
774	278	Assurance for Two-Sample T-Tests for Superiority by a Margin Assuming Equal Variance
771	268	Assurance for Two-Sample Z-Tests Assuming Equal Variance
29	883	Balanced Incomplete Block Designs
306	552	Bartlett Test of Variances (Simulation)
540	901	Bayesian Adjustment using the Posterior Error Approach
859	351	Bioequivalence Tests for AUC and Cmax in a 2x2 Cross-Over Design (Log-Normal Data)
902	685	Biosimilarity Tests for the Difference Between Means using a Parallel Two-Group Design
551	427	Bland-Altman Method for Assessing Agreement in Method Comparison Studies

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Proc. #	Chapter #	Name
757	264	Bridging Study Sensitivity Index
758	266	Bridging Study Test of Sensitivity using a Two-Group T-Test (Continuous Outcome)
756	263	Bridging Study using a Non-Inferiority Test of Two Groups (Binary Outcome)
754	259	Bridging Study using a Non-Inferiority Test of Two Groups (Continuous Outcome)
755	262	Bridging Study using the Equivalence Test of Two Groups (Binary Outcome)
752	258	Bridging Study using the Equivalence Test of Two Groups (Continuous Outcome)
308	554	Brown-Forsythe Test of Variances (Simulation)
114	250	Chi-Square Tests
40	255	Cochran-Armitage Test for Trend in Proportions
100	701	Conditional Power and Sample Size Reestimation of Logrank Tests
524	717	Conditional Power and Sample Size Reestimation of Non-Inferiority Logrank Tests
532	106	Conditional Power and Sample Size Reestimation of Non-Inferiority Tests for One Proportion
526	451	Conditional Power and Sample Size Reestimation of Non-Inferiority Tests for Two Means in a 2x2 Cross-Over Design
522	203	Conditional Power and Sample Size Reestimation of Non-Inferiority Tests for Two Proportions
106	402	Conditional Power and Sample Size Reestimation of One-Sample T-Tests
528	461	Conditional Power and Sample Size Reestimation of One-Sample T-Tests for Non-Inferiority
529	462	Conditional Power and Sample Size Reestimation of One-Sample T-Tests for Superiority by a Margin
104	403	Conditional Power and Sample Size Reestimation of Paired T-Tests
530	463	Conditional Power and Sample Size Reestimation of Paired T-Tests for Non-Inferiority
531	464	Conditional Power and Sample Size Reestimation of Paired T-Tests for Superiority by a Margin
525	718	Conditional Power and Sample Size Reestimation of Superiority by a Margin Logrank Tests
533	107	Conditional Power and Sample Size Reestimation of Superiority by a Margin Tests for One Proportion
527	452	Conditional Power and Sample Size Reestimation of Superiority by a Margin Tests for Two Means in a 2x2 Cross-Over Design
523	204	Conditional Power and Sample Size Reestimation of Superiority by a Margin Tests for Two Proportions
102	101	Conditional Power and Sample Size Reestimation of Tests for One Proportion
101	202	Conditional Power and Sample Size Reestimation of Tests for the Difference Between Two Proportions
103	401	Conditional Power and Sample Size Reestimation of Tests for Two Means in a 2x2 Cross-Over Design
105	433	Conditional Power and Sample Size Reestimation of Two-Sample T-Tests
520	443	Conditional Power and Sample Size Reestimation of Two-Sample T-Tests for Non-Inferiority
521	444	Conditional Power and Sample Size Reestimation of Two-Sample T-Tests for Superiority by a Margin

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Proc. #	Chapter #	Name
439	404	Confidence Intervals for a Percentile of a Normal Distribution
681	574	Confidence Intervals for a Percentile of a Normal Distribution using Assurance Probability
685	581	Confidence Intervals for a Percentile of a Normal Distribution using Expected Width
328	407	Confidence Intervals for an Exponential Lifetime Percentile
320	818	Confidence Intervals for Coefficient Alpha
325	296	Confidence Intervals for Cp
326	297	Confidence Intervals for Cpk
329	408	Confidence Intervals for Exponential Reliability
319	817	Confidence Intervals for Intraclass Correlation
704	828	Confidence Intervals for Intraclass Correlation with Assurance Probability (Lower One-Sided)
705	829	Confidence Intervals for Intraclass Correlation with Assurance Probability (Two-Sided)
321	819	Confidence Intervals for Kappa
317	809	Confidence Intervals for Kendall's Tau-b Correlation
25	856	Confidence Intervals for Linear Regression Slope
323	857	Confidence Intervals for Michaelis-Menten Parameters
7	420	Confidence Intervals for One Mean
673	119	Confidence Intervals for One Mean in a Cluster-Randomized Design
676	112	Confidence Intervals for One Mean in a Stratified Cluster-Randomized Design
672	118	Confidence Intervals for One Mean in a Stratified Design
6	421	Confidence Intervals for One Mean with Tolerance Probability
16	115	Confidence Intervals for One Proportion
131	116	Confidence Intervals for One Proportion from a Finite Population
674	114	Confidence Intervals for One Proportion in a Cluster-Randomized Design
675	113	Confidence Intervals for One Proportion in a Stratified Cluster-Randomized Design
670	117	Confidence Intervals for One Proportion in a Stratified Design
13	642	Confidence Intervals for One Standard Deviation using Relative Error
12	640	Confidence Intervals for One Standard Deviation using Standard Deviation
18	641	Confidence Intervals for One Standard Deviation with Tolerance Probability
20	653	Confidence Intervals for One Variance using Relative Error
19	651	Confidence Intervals for One Variance using Variance
21	652	Confidence Intervals for One Variance with Tolerance Probability
420	271	Confidence Intervals for One-Sample Sensitivity
422	273	Confidence Intervals for One-Sample Sensitivity and Specificity
421	272	Confidence Intervals for One-Sample Specificity
355	442	Confidence Intervals for One-Way Repeated Measures Contrasts
9	496	Confidence Intervals for Paired Means
8	497	Confidence Intervals for Paired Means with Tolerance Probability
26	801	Confidence Intervals for Pearson's Correlation
318	816	Confidence Intervals for Point Biserial Correlation
683	578	Confidence Intervals for Regression-Based Reference Limits using Assurance Probability
684	579	Confidence Intervals for Regression-Based Reference Limits using Expected Relative Precision

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Proc. #	Chapter #	Name
316	808	Confidence Intervals for Spearman's Rank Correlation
322	261	Confidence Intervals for the Area Under an ROC Curve
682	577	Confidence Intervals for the Bland-Altman Range of Agreement using Assurance Probability
686	582	Confidence Intervals for the Bland-Altman Range of Agreement using Expected Half-Width
738	102	Confidence Intervals for the Difference Between Two Correlated Proportions
11	471	Confidence Intervals for the Difference Between Two Means
10	472	Confidence Intervals for the Difference Between Two Means with Tolerance Probability
22	216	Confidence Intervals for the Difference Between Two Proportions
330	409	Confidence Intervals for the Exponential Hazard Rate
327	406	Confidence Intervals for the Exponential Lifetime Mean
393	867	Confidence Intervals for the Interaction Odds Ratio in Logistic Regression with Two Binary X's
391	864	Confidence Intervals for the Odds Ratio in Logistic Regression with One Binary X
392	866	Confidence Intervals for the Odds Ratio in Logistic Regression with Two Binary X's
24	218	Confidence Intervals for the Odds Ratio of Two Proportions
708	208	Confidence Intervals for the Odds Ratio of Two Proportions using an Unmatched Case-Control Design
23	217	Confidence Intervals for the Ratio of Two Proportions
15	657	Confidence Intervals for the Ratio of Two Variances using Relative Error
14	656	Confidence Intervals for the Ratio of Two Variances using Variances
701	697	Confidence Intervals for the Weibull Shape Parameter
706	219	Confidence Intervals for Vaccine Efficacy using a Cohort Design
707	209	Confidence Intervals for Vaccine Efficacy using an Unmatched Case-Control Design
309	561	Conover Test of Variances (Simulation)
63	290	Control Charts for Means (Simulation)
64	295	Control Charts for Variability (Simulation)
161	850	Cox Regression
199	920	Data Simulator
823	837	Deming Regression
35	889	Design Generator
34	888	D-Optimal Designs
732	108	Dose-Finding using the Bayesian Continual Reassessment Method (CRM)
353	110	Equivalence Tests for One Proportion
688	564	Equivalence Tests for One-Way Analysis of Variance Allowing Unequal Variances
687	566	Equivalence Tests for One-Way Analysis of Variance Assuming Equal Variances
201	495	Equivalence Tests for Paired Means (Simulation)
493	521	Equivalence Tests for Pairwise Mean Differences in a Williams Cross-Over Design
469	185	Equivalence Tests for Pairwise Proportion Differences in a Williams Cross-Over Design
623	744	Equivalence Tests for Simple Linear Regression
237	165	Equivalence Tests for the Difference Between Two Correlated Proportions

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Proc. #	Chapter #	Name
246	520	Equivalence Tests for the Difference Between Two Means in a 2x2 Cross-Over Design
226	213	Equivalence Tests for the Difference Between Two Proportions
96	703	Equivalence Tests for the Difference of Two Hazard Rates Assuming an Exponential Model
256	540	Equivalence Tests for the Difference of Two Means in a Higher-Order Cross-Over Design
457	177	Equivalence Tests for the Difference of Two Proportions in a 2x2 Cross-Over Design
233	240	Equivalence Tests for the Difference of Two Proportions in a Cluster-Randomized Design
574	149	Equivalence Tests for the Difference of Two Within-Subject CV's in a Parallel Design
465	181	Equivalence Tests for the Generalized Odds Ratio for Ordinal Data in a 2x2 Cross-Over Design
734	320	Equivalence Tests for the Mean Ratio in a Three-Arm Trial (Normal Data) (Simulation)
228	215	Equivalence Tests for the Odds Ratio of Two Proportions
453	173	Equivalence Tests for the Odds Ratio of Two Proportions in a 2x2 Cross-Over Design
238	166	Equivalence Tests for the Ratio of Two Correlated Proportions
249	470	Equivalence Tests for the Ratio of Two Means (Log-Normal Data)
677	129	Equivalence Tests for the Ratio of Two Means (Normal Data)
247	525	Equivalence Tests for the Ratio of Two Means in a 2x2 Cross-Over Design (Log-Normal Data)
697	593	Equivalence Tests for the Ratio of Two Means in a 2x2 Cross-Over Design (Normal Data)
257	545	Equivalence Tests for the Ratio of Two Means in a Higher-Order Cross-Over Design (Log-Normal Data)
435	469	Equivalence Tests for the Ratio of Two Negative Binomial Rates
434	468	Equivalence Tests for the Ratio of Two Poisson Rates
461	524	Equivalence Tests for the Ratio of Two Poisson Rates in a 2x2 Cross-Over Design
227	214	Equivalence Tests for the Ratio of Two Proportions
234	241	Equivalence Tests for the Ratio of Two Proportions in a Cluster-Randomized Design
589	139	Equivalence Tests for the Ratio of Two Variances
562	144	Equivalence Tests for the Ratio of Two Within-Subject Variances in a 2x2M Replicated Cross-Over Design
552	466	Equivalence Tests for the Ratio of Two Within-Subject Variances in a Parallel Design
203	465	Equivalence Tests for Two Means (Simulation)
344	486	Equivalence Tests for Two Means in a Cluster-Randomized Design
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640	536	GEE Tests for Multiple Poisson Rates in a Cluster-Randomized Design
639	534	GEE Tests for Multiple Proportions in a Cluster-Randomized Design
473	392	GEE Tests for the Slope of Multiple Groups in a Repeated Measures Design (Continuous Outcome)
475	390	GEE Tests for the Slope of Multiple Groups in a Repeated Measures Design (Count Outcome)
444	398	GEE Tests for the Slope of Two Groups in a Repeated Measures Design (Binary Outcome)
443	399	GEE Tests for the Slope of Two Groups in a Repeated Measures Design (Continuous Outcome)
445	397	GEE Tests for the Slope of Two Groups in a Repeated Measures Design (Count Outcome)
471	389	GEE Tests for the TAD of Multiple Groups in a Repeated Measures Design (Binary Outcome)
470	393	GEE Tests for the TAD of Multiple Groups in a Repeated Measures Design (Continuous Outcome)
472	391	GEE Tests for the TAD of Multiple Groups in a Repeated Measures Design (Count Outcome)
447	395	GEE Tests for the TAD of Two Groups in a Repeated Measures Design (Binary Outcome)
446	396	GEE Tests for the TAD of Two Groups in a Repeated Measures Design (Continuous Outcome)
448	394	GEE Tests for the TAD of Two Groups in a Repeated Measures Design (Count Outcome)
644	538	GEE Tests for Two Correlated Proportions with Dropout
634	531	GEE Tests for Two Means in a Cluster-Randomized Design
641	541	GEE Tests for Two Means in a Split-Mouth Design
631	243	GEE Tests for Two Means in a Stratified Cluster-Randomized Design
642	542	GEE Tests for Two Proportions in a Split-Mouth Design
141	710	Group-Sequential Logrank Tests (Legacy)
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753	784	Group-Sequential Non-Inferiority Tests for One Hazard Rate (Simulation)
726	792	Group-Sequential Non-Inferiority Tests for One Mean with Known Variance (Simulation)
761	798	Group-Sequential Non-Inferiority Tests for One Poisson Rate (Simulation)
741	774	Group-Sequential Non-Inferiority Tests for One Proportion (Simulation)
51	226	Group-Sequential Non-Inferiority Tests for the Difference of Two Proportions (Simulation) (Legacy)
53	228	Group-Sequential Non-Inferiority Tests for the Odds Ratio of Two Proportions (Simulation)
52	227	Group-Sequential Non-Inferiority Tests for the Ratio of Two Proportions (Simulation)
662	781	Group-Sequential Non-Inferiority Tests for Two Hazard Rates (Simulation)
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764	768	Group-Sequential Non-Inferiority Tests for Two Poisson Rates (Simulation)
660	771	Group-Sequential Non-Inferiority Tests for Two Proportions (Simulation)
731	794	Group-Sequential Non-Inferiority T-Tests for One Mean (Simulation)
629	764	Group-Sequential Non-Inferiority T-Tests for Two Means (Simulation)
759	785	Group-Sequential Superiority by a Margin Tests for One Hazard Rate (Simulation)
730	793	Group-Sequential Superiority by a Margin Tests for One Mean with Known Variance (Simulation)
762	799	Group-Sequential Superiority by a Margin Tests for One Poisson Rate (Simulation)
745	775	Group-Sequential Superiority by a Margin Tests for One Proportion (Simulation)
55	222	Group-Sequential Superiority by a Margin Tests for the Difference of Two Proportions (Simulation) (Legacy)
57	224	Group-Sequential Superiority by a Margin Tests for the Odds Ratio of Two Proportions (Simulation)
56	223	Group-Sequential Superiority by a Margin Tests for the Ratio of Two Proportions (Simulation)
663	782	Group-Sequential Superiority by a Margin Tests for Two Hazard Rates (Simulation)
628	763	Group-Sequential Superiority by a Margin Tests for Two Means with Known Variances (Simulation)
765	769	Group-Sequential Superiority by a Margin Tests for Two Poisson Rates (Simulation)
661	772	Group-Sequential Superiority by a Margin Tests for Two Proportions (Simulation)
735	795	Group-Sequential Superiority by a Margin T-Tests for One Mean (Simulation)
659	765	Group-Sequential Superiority by a Margin T-Tests for Two Means (Simulation)
751	783	Group-Sequential Tests for One Hazard Rate (Simulation)
664	790	Group-Sequential Tests for One Mean with Known Variance (Simulation)
760	797	Group-Sequential Tests for One Poisson Rate (Simulation)
739	773	Group-Sequential Tests for One Proportion (Simulation)
383	126	Group-Sequential Tests for One Proportion in a Fleming Design
626	780	Group-Sequential Tests for Two Hazard Rates (Simulation)
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43	476	Group-Sequential Tests for Two Means (Simulation) (Legacy)
45	477	Group-Sequential Tests for Two Means Assuming Normality (Simulation) (Legacy)
550	760	Group-Sequential Tests for Two Means with Known Variances (Simulation)
763	767	Group-Sequential Tests for Two Poisson Rates (Simulation)
140	220	Group-Sequential Tests for Two Proportions (Legacy)
625	770	Group-Sequential Tests for Two Proportions (Simulation)
46	221	Group-Sequential Tests for Two Proportions (Simulation) (Legacy)
665	791	Group-Sequential T-Tests for One Mean (Simulation)
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898	645	Meta-Analysis of Tests for the Odds Ratio of Two Proportions using a Fixed-Effects Model in a Cluster-Randomized Design
889	633	Meta-Analysis of Tests for the Odds Ratio of Two Proportions using a Random-Effects Model
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890	634	Meta-Analysis of Tests for the Risk Ratio of Two Proportions using a Fixed-Effects Model
900	647	Meta-Analysis of Tests for the Risk Ratio of Two Proportions using a Fixed-Effects Model in a Cluster-Randomized Design
891	635	Meta-Analysis of Tests for the Risk Ratio of Two Proportions using a Random-Effects Model
901	648	Meta-Analysis of Tests for the Risk Ratio of Two Proportions using a Random-Effects Model in a Cluster-Randomized Design
886	630	Meta-Analysis of Tests for Two Means using a Fixed-Effects Model
896	643	Meta-Analysis of Tests for Two Means using a Fixed-Effects Model in a Cluster-Randomized Design
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502	367	Mixed Models Tests for Interaction in a 2×2 Factorial 3-Level Hierarchical Design (Level-1 Randomization)
501	368	Mixed Models Tests for Interaction in a 2×2 Factorial 3-Level Hierarchical Design (Level-2 Randomization)
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507	360	Mixed Models Tests for Slope-Interaction in a 2×2 Factorial 2-Level Hierarchical Design with Fixed Slopes (Level-2 Randomization)
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506	362	Mixed Models Tests for Slope-Interaction in a 2×2 Factorial 3-Level Hierarchical Design with Fixed Slopes (Level-2 Randomization)
505	363	Mixed Models Tests for Slope-Interaction in a 2×2 Factorial 3-Level Hierarchical Design with Fixed Slopes (Level-3 Randomization)
504	364	Mixed Models Tests for Slope-Interaction in a 2×2 Factorial 3-Level Hierarchical Design with Random Slopes (Level-2 Randomization)
503	365	Mixed Models Tests for Slope-Interaction in a 2×2 Factorial 3-Level Hierarchical Design with Random Slopes (Level-3 Randomization)
480	384	Mixed Models Tests for the Slope Difference in a 2-Level Hierarchical Design with Fixed Slopes
481	383	Mixed Models Tests for the Slope Difference in a 2-Level Hierarchical Design with Random Slopes
449	374	Mixed Models Tests for the Slope Difference in a 3-Level Hierarchical Design with Fixed Slopes (Level-2 Randomization)
488	376	Mixed Models Tests for the Slope Difference in a 3-Level Hierarchical Design with Fixed Slopes (Level-3 Randomization)
474	373	Mixed Models Tests for the Slope Difference in a 3-Level Hierarchical Design with Random Slopes (Level-2 Randomization)
489	375	Mixed Models Tests for the Slope Difference in a 3-Level Hierarchical Design with Random Slopes (Level-3 Randomization)
495	372	Mixed Models Tests for Two Means at the End of Follow-Up in a 2-Level Hierarchical Design
499	371	Mixed Models Tests for Two Means at the End of Follow-Up in a 3-Level Hierarchical Design (Level-3 Randomization)
477	387	Mixed Models Tests for Two Means in a 2-Level Hierarchical Design (Level-1 Randomization)
476	388	Mixed Models Tests for Two Means in a 2-Level Hierarchical Design (Level-2 Randomization)
484	380	Mixed Models Tests for Two Means in a 3-Level Hierarchical Design (Level-1 Randomization)
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478	386	Mixed Models Tests for Two Proportions in a 2-Level Hierarchical Design (Level-2 Randomization)
487	377	Mixed Models Tests for Two Proportions in a 3-Level Hierarchical Design (Level-1 Randomization)
486	378	Mixed Models Tests for Two Proportions in a 3-Level Hierarchical Design (Level-2 Randomization)
485	379	Mixed Models Tests for Two Proportions in a 3-Level Hierarchical Design (Level-3 Randomization)
358	567	M-Period Cross-Over Designs using Contrasts
885	629	Multi-Arm Equivalence Tests for Survival Curves using Cox's Proportional Hazards Model in a Cluster-Randomized Design
850	342	Multi-Arm Equivalence Tests for the Difference Between Treatment and Control Means Allowing Unequal Variance
838	330	Multi-Arm Equivalence Tests for the Difference Between Treatment and Control Means Assuming Equal Variance
832	169	Multi-Arm Equivalence Tests for the Difference Between Treatment and Control Proportions
872	606	Multi-Arm Equivalence Tests for the Difference of Treatment and Control Proportions in a Cluster-Randomized Design
834	326	Multi-Arm Equivalence Tests for the Odds Ratio of Treatment and Control Proportions
846	338	Multi-Arm Equivalence Tests for the Ratio of Treatment and Control Means (Log-Normal Data)
842	334	Multi-Arm Equivalence Tests for the Ratio of Treatment and Control Means (Normal Data)
833	325	Multi-Arm Equivalence Tests for the Ratio of Treatment and Control Proportions
873	607	Multi-Arm Equivalence Tests for the Ratio of Treatment and Control Proportions in a Cluster-Randomized Design
869	604	Multi-Arm Equivalence Tests for Treatment and Control Means in a Cluster-Randomized Design
854	346	Multi-Arm Equivalence Tests for Treatment and Control Survival Curves using Cox's Proportional Hazards Model
883	627	Multi-Arm Non-Inferiority Tests for Survival Curves using Cox's Proportional Hazards Model in a Cluster-Randomized Design
848	340	Multi-Arm Non-Inferiority Tests for the Difference Between Treatment and Control Means Allowing Unequal Variance
836	328	Multi-Arm Non-Inferiority Tests for the Difference Between Treatment and Control Means Assuming Equal Variance
825	159	Multi-Arm Non-Inferiority Tests for the Difference Between Treatment and Control Proportions
864	356	Multi-Arm Non-Inferiority Tests for the Difference of Treatment and Control Proportions in a Cluster-Randomized Design
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840	332	Multi-Arm Non-Inferiority Tests for the Ratio of Treatment and Control Means (Normal Data)
828	163	Multi-Arm Non-Inferiority Tests for the Ratio of Treatment and Control Proportions
874	608	Multi-Arm Non-Inferiority Tests for the Ratio of Treatment and Control Proportions in a Cluster-Randomized Design
866	599	Multi-Arm Non-Inferiority Tests for Treatment and Control Means in a Cluster-Randomized Design
852	344	Multi-Arm Non-Inferiority Tests for Treatment and Control Survival Curves using Cox's Proportional Hazards Model
855	347	Multi-Arm Non-Inferiority Tests for Vaccine Efficacy using the Ratio of Treatment and Control Proportions
876	620	Multi-Arm Non-Inferiority Tests for Vaccine Efficacy using the Ratio of Treatment and Control Proportions in a Cluster-Randomized Design
857	349	Multi-Arm Non-Inferiority Tests for Vaccine Efficacy using Treatment vs. Control Hazard Ratios (Cox's Proportional Hazards Model)
884	628	Multi-Arm Superiority by a Margin Tests for Survival Curves using Cox's Proportional Hazards Model in a Cluster-Randomized Design
849	341	Multi-Arm Superiority by a Margin Tests for the Difference Between Treatment and Control Means Allowing Unequal Variance
837	329	Multi-Arm Superiority by a Margin Tests for the Difference Between Treatment and Control Means Assuming Equal Variance
827	162	Multi-Arm Superiority by a Margin Tests for the Difference Between Treatment and Control Proportions
868	603	Multi-Arm Superiority by a Margin Tests for the Difference of Treatment and Control Proportions in a Cluster-Randomized Design
831	168	Multi-Arm Superiority by a Margin Tests for the Odds Ratio of Treatment and Control Proportions
845	337	Multi-Arm Superiority by a Margin Tests for the Ratio of Treatment and Control Means (Log-Normal Data)
841	333	Multi-Arm Superiority by a Margin Tests for the Ratio of Treatment and Control Means (Normal Data)
829	164	Multi-Arm Superiority by a Margin Tests for the Ratio of Treatment and Control Proportions
875	609	Multi-Arm Superiority by a Margin Tests for the Ratio of Treatment and Control Proportions in a Cluster-Randomized Design
867	602	Multi-Arm Superiority by a Margin Tests for Treatment and Control Means in a Cluster-Randomized Design
853	345	Multi-Arm Superiority by a Margin Tests for Treatment and Control Survival Curves using Cox's Proportional Hazards Model
856	348	Multi-Arm Superiority by a Margin Tests for Vaccine Efficacy using the Ratio of Treatment and Control Proportions
877	621	Multi-Arm Superiority by a Margin Tests for Vaccine Efficacy using the Ratio of Treatment and Control Proportions in a Cluster-Randomized Design
858	350	Multi-Arm Superiority by a Margin Tests for Vaccine Efficacy using Treatment vs. Control Hazard Ratios (Cox's Proportional Hazards Model)

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882	626	Multi-Arm Tests for Survival Curves using Cox's Proportional Hazards Model in a Cluster-Randomized Design
847	339	Multi-Arm Tests for the Difference Between Treatment and Control Means Allowing Unequal Variance
835	327	Multi-Arm Tests for the Difference Between Treatment and Control Means Assuming Equal Variance
843	335	Multi-Arm Tests for the Ratio of Treatment and Control Means (Log-Normal Data)
839	331	Multi-Arm Tests for the Ratio of Treatment and Control Means (Normal Data)
865	598	Multi-Arm Tests for Treatment and Control Means in a Cluster-Randomized Design
826	256	Multi-Arm Tests for Treatment and Control Proportions
863	355	Multi-Arm Tests for Treatment and Control Proportions in a Cluster-Randomized Design
851	343	Multi-Arm Tests for Treatment and Control Survival Curves using Cox's Proportional Hazards Model
157	575	Multiple Comparisons
243	585	Multiple Comparisons of Treatments vs. a Control (Simulation)
244	590	Multiple Contrasts (Simulation)
624	858	Multiple Regression
406	868	Multiple Regression using Effect Size
292	610	Multiple Testing for One Mean (One-Sample or Paired Data)
293	615	Multiple Testing for Two Means
167	605	Multivariate Analysis of Variance (MANOVA)
357	568	MxM Cross-Over Designs
5	706	Non-Inferiority Logrank Tests
352	105	Non-Inferiority Tests for One Proportion
491	511	Non-Inferiority Tests for Pairwise Mean Differences in a Williams Cross-Over Design
467	183	Non-Inferiority Tests for Pairwise Proportion Differences in a Williams Cross-Over Design
621	742	Non-Inferiority Tests for Simple Linear Regression
235	160	Non-Inferiority Tests for the Difference Between Two Correlated Proportions
207	510	Non-Inferiority Tests for the Difference Between Two Means in a 2x2 Cross-Over Design
715	245	Non-Inferiority Tests for the Difference Between Two Poisson Rates in a Cluster-Randomized Design
223	210	Non-Inferiority Tests for the Difference Between Two Proportions
98	708	Non-Inferiority Tests for the Difference of Two Hazard Rates Assuming an Exponential Model
258	530	Non-Inferiority Tests for the Difference of Two Means in a Higher-Order Cross-Over Design
455	175	Non-Inferiority Tests for the Difference of Two Proportions in a 2x2 Cross-Over Design
231	235	Non-Inferiority Tests for the Difference of Two Proportions in a Cluster-Randomized Design
572	147	Non-Inferiority Tests for the Difference of Two Within-Subject CV's in a Parallel Design

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463	179	Non-Inferiority Tests for the Generalized Odds Ratio for Ordinal Data in a 2x2 Cross-Over Design
225	212	Non-Inferiority Tests for the Odds Ratio of Two Proportions
451	171	Non-Inferiority Tests for the Odds Ratio of Two Proportions in a 2x2 Cross-Over Design
236	161	Non-Inferiority Tests for the Ratio of Two Correlated Proportions
250	455	Non-Inferiority Tests for the Ratio of Two Means (Log-Normal Data)
678	572	Non-Inferiority Tests for the Ratio of Two Means (Normal Data)
248	515	Non-Inferiority Tests for the Ratio of Two Means in a 2x2 Cross-Over Design (Log-Normal Data)
259	535	Non-Inferiority Tests for the Ratio of Two Means in a Higher-Order Cross-Over Design (Log-Normal Data)
432	458	Non-Inferiority Tests for the Ratio of Two Negative Binomial Rates
430	456	Non-Inferiority Tests for the Ratio of Two Poisson Rates
459	516	Non-Inferiority Tests for the Ratio of Two Poisson Rates in a 2x2 Cross-Over Design
718	248	Non-Inferiority Tests for the Ratio of Two Poisson Rates in a Cluster-Randomized Design
224	211	Non-Inferiority Tests for the Ratio of Two Proportions
232	236	Non-Inferiority Tests for the Ratio of Two Proportions in a Cluster-Randomized Design
587	137	Non-Inferiority Tests for the Ratio of Two Variances
563	142	Non-Inferiority Tests for the Ratio of Two Within-Subject Variances in a 2x2M Replicated Cross-Over Design
556	473	Non-Inferiority Tests for the Ratio of Two Within-Subject Variances in a Parallel Design
615	318	Non-Inferiority Tests for Two Between Variances in a Replicated Design
592	302	Non-Inferiority Tests for Two Between-Subject Variances in a 2x2M Replicated Cross-Over Design
342	483	Non-Inferiority Tests for Two Means in a Cluster-Randomized Design
905	154	Non-Inferiority Tests for Two Means in a Cluster-Randomized Design with Clustering in Only One Arm
906	186	Non-Inferiority Tests for Two Proportions in a Cluster-Randomized Design with Clustering in Only One Arm
93	731	Non-Inferiority Tests for Two Survival Curves using Cox's Proportional Hazards Model
879	623	Non-Inferiority Tests for Two Survival Curves using Cox's Proportional Hazards Model in a Cluster-Randomized Design
611	314	Non-Inferiority Tests for Two Total Variances in a 2x2 Cross-Over Design
599	306	Non-Inferiority Tests for Two Total Variances in a 2x2M Replicated Cross-Over Design
607	310	Non-Inferiority Tests for Two Total Variances in a Replicated Design
737	735	Non-Inferiority Tests for Vaccine Efficacy using the Hazard Ratio (Cox's Proportional Hazards Model)
722	358	Non-Inferiority Tests for Vaccine Efficacy using the Ratio of Two Negative Binomial Rates
714	188	Non-Inferiority Tests for Vaccine Efficacy using the Ratio of Two Poisson Rates

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720	239	Non-Inferiority Tests for Vaccine Efficacy using the Ratio of Two Poisson Rates in a Cluster-Randomized Design
710	192	Non-Inferiority Tests for Vaccine Efficacy using the Ratio of Two Proportions
712	190	Non-Inferiority Tests for Vaccine Efficacy using the Ratio of Two Proportions in a Cluster-Randomized Design
743	111	Non-Inferiority Tests for Vaccine Efficacy with Extremely Low Incidence
542	813	Nonparametric Reference Intervals for Non-Normal Data
222	207	Non-Unity Null Tests for the Odds Ratio of Two Proportions
221	206	Non-Unity Null Tests for the Ratio of Two Proportions
147	234	Non-Unity Null Tests for the Ratio of Two Proportions in a Cluster-Randomized Design
586	136	Non-Unity Null Tests for the Ratio of Two Variances
566	141	Non-Unity Null Tests for the Ratio of Within-Subject Variances in a 2×2M Replicated Cross-Over Design
559	479	Non-Unity Null Tests for the Ratio of Within-Subject Variances in a Parallel Design
614	317	Non-Unity Null Tests for Two Between Variances in a Replicated Design
591	301	Non-Unity Null Tests for Two Between-Subject Variances in a 2×2M Replicated Cross-Over Design
610	313	Non-Unity Null Tests for Two Total Variances in a 2×2 Cross-Over Design
598	304	Non-Unity Null Tests for Two Total Variances in a 2×2M Replicated Cross-Over Design
606	309	Non-Unity Null Tests for Two Total Variances in a Replicated Design
690	584	Non-Zero Null Studentized Range Tests
692	587	Non-Zero Null Tests for One-Way Analysis of Variance Assuming Equal Variances
620	741	Non-Zero Null Tests for Simple Linear Regression
515	848	Non-Zero Null Tests for Simple Linear Regression using p^2
220	205	Non-Zero Null Tests for the Difference Between Two Proportions
146	233	Non-Zero Null Tests for the Difference of Two Proportions in a Cluster-Randomized Design
571	146	Non-Zero Null Tests for the Difference of Two Within-Subject CV's in a Parallel Design
289	670	Normality Tests (Simulation)
363	713	One-Sample Cure Model Tests
348	714	One-Sample Logrank Tests Assuming a Weibull Model (Wu)
653	712	One-Sample Tests for Exponential Hazard Rate
700	698	One-Sample Tests of Weibull Hazard Rates
553	400	One-Sample T-Tests
369	518	One-Sample T-Tests for Equivalence
204	415	One-Sample T-Tests for Non-Inferiority
148	413	One-Sample T-Tests for Superiority by a Margin
400	418	One-Sample T-Tests using Effect Size
555	414	One-Sample Z-Tests
569	517	One-Sample Z-Tests for Equivalence
567	447	One-Sample Z-Tests for Non-Inferiority
568	449	One-Sample Z-Tests for Superiority by a Margin
694	589	One-Way Analysis of Variance Allowing Unequal Variances
727	543	One-Way Analysis of Variance Assuming Equal Variances (F-Tests)

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724	594	One-Way Analysis of Variance Contrasts Allowing Unequal Variances
728	539	One-Way Analysis of Variance Contrasts Assuming Equal Variances
301	555	One-Way Analysis of Variance F-Tests (Simulation)
729	597	One-Way Analysis of Variance F-Tests using Effect Size
356	569	One-Way Repeated Measures
350	434	One-Way Repeated Measures Contrasts
371	286	Operating Characteristic Curves for Acceptance Sampling for Attributes
575	485	Paired T-Tests
364	519	Paired T-Tests for Equivalence
576	480	Paired T-Tests for Non-Inferiority
577	488	Paired T-Tests for Superiority by a Margin
401	417	Paired T-Tests using Effect Size
582	493	Paired Wilcoxon Signed-Rank Tests
583	499	Paired Wilcoxon Signed-Rank Tests for Non-Inferiority
584	502	Paired Wilcoxon Signed-Rank Tests for Superiority by a Margin
578	492	Paired Z-Tests
581	512	Paired Z-Tests for Equivalence
579	494	Paired Z-Tests for Non-Inferiority
580	498	Paired Z-Tests for Superiority by a Margin
242	580	Pair-Wise Multiple Comparisons (Simulation)
120	800	Pearson's Correlation Tests
311	802	Pearson's Correlation Tests (Simulation)
547	684	Pilot Study Sample Size Rules of Thumb
315	807	Point Biserial Correlation Tests
163	870	Poisson Regression
314	806	Power Comparison of Correlation Tests (Simulation)
300	559	Power Comparison of Tests of Means in One-Way Designs (Simulation)
310	562	Power Comparison of Tests of Variances (Simulation)
67	720	Probit Analysis
671	880	Randomization Lists
125	565	Randomized Block Analysis of Variance
723	357	Randomized Phase II Selection Designs for Binary Data (Simon)
340	821	Reference Intervals for Clinical and Lab Medicine
541	814	Reference Intervals for Normal Data
424	835	Reliability Demonstration Tests of One Proportion
425	836	Reliability Demonstration Tests of One Proportion with Adverse Events
390	570	Repeated Measures Analysis
546	683	Required Sample Size to Detect a Problem in a Pilot Study
31	885	Response Surface Designs
545	682	Sample Size of a Pilot Study using the Non-Central t to Allow for Uncertainty in the SD
544	681	Sample Size of a Pilot Study using the Upper Confidence Limit of the SD
32	886	Screening Designs
619	740	Simple Linear Regression
511	841	Simple Linear Regression using R^2
160	120	Single-Stage Phase II Clinical Trials
312	803	Spearman's Rank Correlation Tests (Simulation)
750	254	Stratified Wilcoxon-Mann-Whitney (van Elteren) Test

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Proc. #	Chapter #	Name
691	586	Studentized Range Tests
689	583	Studentized Range Tests for Equivalence
354	103	Superiority by a Margin Tests for One Proportion
492	509	Superiority by a Margin Tests for Pairwise Mean Differences in a Williams Cross-Over Design
468	184	Superiority by a Margin Tests for Pairwise Proportion Differences in a Williams Cross-Over Design
622	743	Superiority by a Margin Tests for Simple Linear Regression
151	508	Superiority by a Margin Tests for the Difference Between Two Means in a 2x2 Cross-Over Design
716	246	Superiority by a Margin Tests for the Difference Between Two Poisson Rates in a Cluster-Randomized Design
217	195	Superiority by a Margin Tests for the Difference Between Two Proportions
97	704	Superiority by a Margin Tests for the Difference of Two Hazard Rates Assuming an Exponential Model
153	528	Superiority by a Margin Tests for the Difference of Two Means in a Higher-Order Cross-Over Design
456	176	Superiority by a Margin Tests for the Difference of Two Proportions in a 2x2 Cross-Over Design
229	237	Superiority by a Margin Tests for the Difference of Two Proportions in a Cluster-Randomized Design
573	148	Superiority by a Margin Tests for the Difference of Two Within-Subject CV's in a Parallel Design
464	180	Superiority by a Margin Tests for the Generalized Odds Ratio for Ordinal Data in a 2x2 Cross-Over Design
219	197	Superiority by a Margin Tests for the Odds Ratio of Two Proportions
452	172	Superiority by a Margin Tests for the Odds Ratio of Two Proportions in a 2x2 Cross-Over Design
150	453	Superiority by a Margin Tests for the Ratio of Two Means (Log-Normal Data)
679	573	Superiority by a Margin Tests for the Ratio of Two Means (Normal Data)
152	513	Superiority by a Margin Tests for the Ratio of Two Means in a 2x2 Cross-Over Design (Log-Normal Data)
154	533	Superiority by a Margin Tests for the Ratio of Two Means in a Higher-Order Cross-Over Design (Log-Normal Data)
433	459	Superiority by a Margin Tests for the Ratio of Two Negative Binomial Rates
431	457	Superiority by a Margin Tests for the Ratio of Two Poisson Rates
460	514	Superiority by a Margin Tests for the Ratio of Two Poisson Rates in a 2x2 Cross-Over Design
717	247	Superiority by a Margin Tests for the Ratio of Two Poisson Rates in a Cluster-Randomized Design
218	196	Superiority by a Margin Tests for the Ratio of Two Proportions
230	238	Superiority by a Margin Tests for the Ratio of Two Proportions in a Cluster-Randomized Design
588	138	Superiority by a Margin Tests for the Ratio of Two Variances
564	143	Superiority by a Margin Tests for the Ratio of Two Within-Subject Variances in a 2x2M Replicated Cross-Over Design
557	474	Superiority by a Margin Tests for the Ratio of Two Within-Subject Variances in a Parallel Design

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Proc. #	Chapter #	Name
616	319	Superiority by a Margin Tests for Two Between Variances in a Replicated Design
593	303	Superiority by a Margin Tests for Two Between-Subject Variances in a 2×2M Replicated Cross-Over Design
343	484	Superiority by a Margin Tests for Two Means in a Cluster-Randomized Design
94	732	Superiority by a Margin Tests for Two Survival Curves using Cox's Proportional Hazards Model
880	624	Superiority by a Margin Tests for Two Survival Curves using Cox's Proportional Hazards Model in a Cluster-Randomized Design
612	315	Superiority by a Margin Tests for Two Total Variances in a 2×2 Cross-Over Design
600	307	Superiority by a Margin Tests for Two Total Variances in a 2×2M Replicated Cross-Over Design
608	311	Superiority by a Margin Tests for Two Total Variances in a Replicated Design
736	734	Superiority by a Margin Tests for Vaccine Efficacy using the Hazard Ratio (Cox's Proportional Hazards Model)
721	359	Superiority by a Margin Tests for Vaccine Efficacy using the Ratio of Two Negative Binomial Rates
713	189	Superiority by a Margin Tests for Vaccine Efficacy using the Ratio of Two Poisson Rates
719	249	Superiority by a Margin Tests for Vaccine Efficacy using the Ratio of Two Poisson Rates in a Cluster-Randomized Design
709	193	Superiority by a Margin Tests for Vaccine Efficacy using the Ratio of Two Proportions
711	191	Superiority by a Margin Tests for Vaccine Efficacy using the Ratio of Two Proportions in a Cluster-Randomized Design
742	104	Superiority by a Margin Tests for Vaccine Efficacy with Extremely Low Incidence
33	887	Taguchi Designs
303	557	Terry-Hoeffding Normal-Scores Tests of Means (Simulation)
382	446	Tests for Fold Change of Two Means (Log-Normal Data)
128	810	Tests for Intraclass Correlation
494	151	Tests for Multiple Correlated Proportions (McNemar-Bowker Test of Symmetry)
651	549	Tests for Multiple Poisson Rates in a One-Way Design
650	548	Tests for Multiple Proportions in a One-Way Design
254	815	Tests for One Coefficient Alpha
164	405	Tests for One Exponential Mean
645	410	Tests for One Mean (Simulation)
187	412	Tests for One Poisson Rate
656	132	Tests for One Poisson Rate with Known Background Incidence (Post-Marketing Surveillance)
655	131	Tests for One Poisson Rate with No Background Incidence (Post-Marketing Surveillance)
351	100	Tests for One Proportion
403	198	Tests for One Proportion using Effect Size
158	260	Tests for One ROC Curve
142	650	Tests for One Variance
182	270	Tests for One-Sample Sensitivity and Specificity
646	550	Tests for Paired Means (Simulation)
200	490	Tests for Paired Means (Simulation) (Legacy)

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Proc. #	Chapter #	Name
181	276	Tests for Paired Sensitivities
870	232	Tests for Paired Specificities
490	501	Tests for Pairwise Mean Differences in a Williams Cross-Over Design
466	182	Tests for Pairwise Proportion Differences in a Williams Cross-Over Design
861	354	Tests for the Difference Between Treatment and Control Means in a Balanced Single-Case (AB) ^K Design with Multiple Cases
362	853	Tests for the Difference Between Two Linear Regression Intercepts
361	854	Tests for the Difference Between Two Linear Regression Slopes
206	500	Tests for the Difference Between Two Means in a 2x2 Cross-Over Design
349	436	Tests for the Difference Between Two Poisson Rates
347	439	Tests for the Difference Between Two Poisson Rates in a Cluster-Randomized Design
632	244	Tests for the Difference Between Two Poisson Rates in a Cluster-Randomized Design with Adjustment for Varying Cluster Sizes
99	707	Tests for the Difference of Two Hazard Rates Assuming an Exponential Model
380	527	Tests for the Difference of Two Means in a Higher-Order Cross-Over Design
454	174	Tests for the Difference of Two Proportions in a 2x2 Cross-Over Design
570	145	Tests for the Difference of Two Within-Subject CV's in a Parallel Design
462	178	Tests for the Generalized Odds Ratio for Ordinal Data in a 2x2 Cross-Over Design
386	863	Tests for the Interaction Odds Ratio in Logistic Regression with Two Binary X's (Wald Test)
436	487	Tests for the Matched-Pair Difference of Two Event Rates in a Cluster-Randomized Design
438	491	Tests for the Matched-Pair Difference of Two Means in a Cluster-Randomized Design
437	158	Tests for the Matched-Pair Difference of Two Proportions in a Cluster-Randomized Design
418	156	Tests for the Odds Ratio in a Matched Case-Control Design with a Binary X
419	157	Tests for the Odds Ratio in a Matched Case-Control Design with a Quantitative X
384	861	Tests for the Odds Ratio in Logistic Regression with One Binary X (Wald Test)
442	872	Tests for the Odds Ratio in Logistic Regression with One Binary X and Other X's (Wald Test)
440	859	Tests for the Odds Ratio in Logistic Regression with One Normal X (Wald Test)
441	871	Tests for the Odds Ratio in Logistic Regression with One Normal X and Other X's (Wald Test)
385	862	Tests for the Odds Ratio in Logistic Regression with Two Binary X's (Wald Test)
450	170	Tests for the Odds Ratio of Two Proportions in a 2x2 Cross-Over Design
251	445	Tests for the Ratio of Two Means (Log-Normal Data)
702	128	Tests for the Ratio of Two Means (Normal Data)
252	505	Tests for the Ratio of Two Means in a 2x2 Cross-Over Design (Log-Normal Data)
381	526	Tests for the Ratio of Two Means in a Higher-Order Cross-Over Design (Log-Normal Data)
346	438	Tests for the Ratio of Two Negative Binomial Rates
186	437	Tests for the Ratio of Two Poisson Rates (Gu)
822	546	Tests for the Ratio of Two Poisson Rates (Zhu)
458	506	Tests for the Ratio of Two Poisson Rates in a 2x2 Cross-Over Design
585	134	Tests for the Ratio of Two Variances

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Proc. #	Chapter #	Name
565	140	Tests for the Ratio of Two Within-Subject Variances in a 2×2M Replicated Cross-Over Design
558	467	Tests for the Ratio of Two Within-Subject Variances in a Parallel Design
613	316	Tests for Two Between Variances in a Replicated Design
590	300	Tests for Two Between-Subject Variances in a 2×2M Replicated Cross-Over Design
255	820	Tests for Two Coefficient Alphas
648	150	Tests for Two Correlated Proportions (McNemar Test)
115	155	Tests for Two Correlated Proportions in a Matched Case-Control Design
643	537	Tests for Two Correlated Proportions with Incomplete Observations
121	805	Tests for Two Correlations
165	435	Tests for Two Exponential Means
548	423	Tests for Two Groups Assuming a Two-Part Model
549	425	Tests for Two Groups Assuming a Two-Part Model with Detection Limits
108	432	Tests for Two Groups of Pre-Post Scores
860	352	Tests for Two Groups using the Win-Ratio Composite Endpoint
862	353	Tests for Two Groups using the Win-Ratio Composite Endpoint in a Stratified Design
183	275	Tests for Two Independent Sensitivities
871	274	Tests for Two Independent Specificities
647	440	Tests for Two Means (Simulation)
733	123	Tests for Two Means Assuming Equal Variances using a Bayesian Approach
341	482	Tests for Two Means in a Cluster-Randomized Design
903	152	Tests for Two Means in a Cluster-Randomized Design with Clustering in Only One Arm
324	481	Tests for Two Means in a Multicenter Randomized Design
291	431	Tests for Two Means in a Repeated Measures Design
416	489	Tests for Two Means in a Stepped-Wedge Cluster-Randomized Design
184	253	Tests for Two Ordered Categorical Variables (Legacy)
698	251	Tests for Two Ordered Categorical Variables (Non-Proportional Odds)
669	252	Tests for Two Ordered Categorical Variables (Proportional Odds)
658	135	Tests for Two Poisson Rates in a Matched Case-Control Design (Post-Marketing Surveillance)
417	441	Tests for Two Poisson Rates in a Stepped-Wedge Cluster-Randomized Design
657	133	Tests for Two Poisson Rates with Background Incidence Estimated by the Control (Post-Marketing Surveillance)
359	200	Tests for Two Proportions
366	230	Tests for Two Proportions in a Cluster-Randomized Design
904	153	Tests for Two Proportions in a Cluster-Randomized Design with Clustering in Only One Arm
296	201	Tests for Two Proportions in a Repeated Measures Design
415	231	Tests for Two Proportions in a Stepped-Wedge Cluster-Randomized Design
630	242	Tests for Two Proportions in a Stratified Cluster-Randomized Design (Cochran-Mantel-Haenszel Test)
253	225	Tests for Two Proportions in a Stratified Design (Cochran-Mantel-Haenszel Test)
402	199	Tests for Two Proportions using Effect Size
159	265	Tests for Two ROC Curves
92	730	Tests for Two Survival Curves using Cox's Proportional Hazards Model

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Proc. #	Chapter #	Name
878	622	Tests for Two Survival Curves using Cox's Proportional Hazards Model in a Cluster-Randomized Design
609	312	Tests for Two Total Variances in a 2×2 Cross-Over Design
594	305	Tests for Two Total Variances in a 2×2M Replicated Cross-Over Design
605	308	Tests for Two Total Variances in a Replicated Design
746	122	Tests for Vaccine Efficacy with Composite Efficacy Measure using the Difference of Two Means
744	121	Tests for Vaccine Efficacy with Composite Efficacy Measure using the Ratio of Two Means
740	109	Tests for Vaccine Efficacy with Extremely Low Incidence
538	825	Tests of Mediation Effect in Cox Regression
535	824	Tests of Mediation Effect in Linear Regression
536	823	Tests of Mediation Effect in Logistic Regression
537	826	Tests of Mediation Effect in Poisson Regression
534	822	Tests of Mediation Effect using the Sobel Test
162	130	Three-Stage Phase II Clinical Trials
412	831	Tolerance Intervals for Any Data (Nonparametric)
413	832	Tolerance Intervals for Exponential Data
414	833	Tolerance Intervals for Gamma Data
411	830	Tolerance Intervals for Normal Data
410	695	Two-Group Survival Comparison Tests (Simulation)
27	881	Two-Level Designs
389	424	Two-Sample T-Tests Allowing Unequal Variance
388	422	Two-Sample T-Tests Assuming Equal Variance
617	529	Two-Sample T-Tests for Equivalence Allowing Unequal Variance
245	460	Two-Sample T-Tests for Equivalence Assuming Equal Variance
602	522	Two-Sample T-Tests for Non-Inferiority Allowing Unequal Variance
601	450	Two-Sample T-Tests for Non-Inferiority Assuming Equal Variance
604	523	Two-Sample T-Tests for Superiority by a Margin Allowing Unequal Variance
603	448	Two-Sample T-Tests for Superiority by a Margin Assuming Equal Variance
399	419	Two-Sample T-Tests using Effect Size
395	428	Two-Sample Z-Tests Allowing Unequal Variance
394	426	Two-Sample Z-Tests Assuming Equal Variance
652	125	Two-Stage Designs for Tests of One Proportion (Simon)
543	680	UCL of the Standard Deviation from a Pilot Study
304	558	Van der Waerden Normal Quantiles Tests of Means (Simulation)
554	411	Wilcoxon Signed-Rank Tests
560	416	Wilcoxon Signed-Rank Tests for Non-Inferiority
561	429	Wilcoxon Signed-Rank Tests for Superiority by a Margin
185	595	Williams' Test for the Minimum Effective Dose

List of Procedures Sorted by Procedure Number

The following is a list of all **PASS** procedures (with Procedure Number, Documentation Chapter Number, and Name) sorted by procedure number. Procedure settings files have the extension ***.t[Procedure Number]**, where [Procedure Number] is replaced by the number of the procedure given below.

Proc. #	Chapter #	Name
5	706	Non-Inferiority Logrank Tests
6	421	Confidence Intervals for One Mean with Tolerance Probability
7	420	Confidence Intervals for One Mean
8	497	Confidence Intervals for Paired Means with Tolerance Probability
9	496	Confidence Intervals for Paired Means
10	472	Confidence Intervals for the Difference Between Two Means with Tolerance Probability
11	471	Confidence Intervals for the Difference Between Two Means
12	640	Confidence Intervals for One Standard Deviation using Standard Deviation
13	642	Confidence Intervals for One Standard Deviation using Relative Error
14	656	Confidence Intervals for the Ratio of Two Variances using Variances
15	657	Confidence Intervals for the Ratio of Two Variances using Relative Error
16	115	Confidence Intervals for One Proportion
18	641	Confidence Intervals for One Standard Deviation with Tolerance Probability
19	651	Confidence Intervals for One Variance using Variance
20	653	Confidence Intervals for One Variance using Relative Error
21	652	Confidence Intervals for One Variance with Tolerance Probability
22	216	Confidence Intervals for the Difference Between Two Proportions
23	217	Confidence Intervals for the Ratio of Two Proportions
24	218	Confidence Intervals for the Odds Ratio of Two Proportions
25	856	Confidence Intervals for Linear Regression Slope
26	801	Confidence Intervals for Pearson's Correlation
27	881	Two-Level Designs
28	882	Fractional Factorial Designs
29	883	Balanced Incomplete Block Designs
30	884	Latin Square Designs
31	885	Response Surface Designs
32	886	Screening Designs
33	887	Taguchi Designs
34	888	D-Optimal Designs
35	889	Design Generator
40	255	Cochran-Armitage Test for Trend in Proportions
41	811	Kappa Test for Agreement Between Two Raters
43	476	Group-Sequential Tests for Two Means (Simulation) (Legacy)
44	478	Group-Sequential Non-Inferiority Tests for Two Means (Simulation) (Legacy)
45	477	Group-Sequential Tests for Two Means Assuming Normality (Simulation) (Legacy)
46	221	Group-Sequential Tests for Two Proportions (Simulation) (Legacy)
51	226	Group-Sequential Non-Inferiority Tests for the Difference of Two Proportions (Simulation) (Legacy)
52	227	Group-Sequential Non-Inferiority Tests for the Ratio of Two Proportions (Simulation)

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Proc. #	Chapter #	Name
53	228	Group-Sequential Non-Inferiority Tests for the Odds Ratio of Two Proportions (Simulation)
55	222	Group-Sequential Superiority by a Margin Tests for the Difference of Two Proportions (Simulation) (Legacy)
56	223	Group-Sequential Superiority by a Margin Tests for the Ratio of Two Proportions (Simulation)
57	224	Group-Sequential Superiority by a Margin Tests for the Odds Ratio of Two Proportions (Simulation)
63	290	Control Charts for Means (Simulation)
64	295	Control Charts for Variability (Simulation)
67	720	Probit Analysis
68	812	Lin's Concordance Correlation Coefficient
69	716	Logrank Tests Accounting for Competing Risks
92	730	Tests for Two Survival Curves using Cox's Proportional Hazards Model
93	731	Non-Inferiority Tests for Two Survival Curves using Cox's Proportional Hazards Model
94	732	Superiority by a Margin Tests for Two Survival Curves using Cox's Proportional Hazards Model
95	733	Equivalence Tests for Two Survival Curves using Cox's Proportional Hazards Model
96	703	Equivalence Tests for the Difference of Two Hazard Rates Assuming an Exponential Model
97	704	Superiority by a Margin Tests for the Difference of Two Hazard Rates Assuming an Exponential Model
98	708	Non-Inferiority Tests for the Difference of Two Hazard Rates Assuming an Exponential Model
99	707	Tests for the Difference of Two Hazard Rates Assuming an Exponential Model
100	701	Conditional Power and Sample Size Reestimation of Logrank Tests
101	202	Conditional Power and Sample Size Reestimation of Tests for the Difference Between Two Proportions
102	101	Conditional Power and Sample Size Reestimation of Tests for One Proportion
103	401	Conditional Power and Sample Size Reestimation of Tests for Two Means in a 2x2 Cross-Over Design
104	403	Conditional Power and Sample Size Reestimation of Paired T-Tests
105	433	Conditional Power and Sample Size Reestimation of Two-Sample T-Tests
106	402	Conditional Power and Sample Size Reestimation of One-Sample T-Tests
107	551	Analysis of Covariance (ANCOVA) (Legacy)
108	432	Tests for Two Groups of Pre-Post Scores
114	250	Chi-Square Tests
115	155	Tests for Two Correlated Proportions in a Matched Case-Control Design
119	705	Logrank Tests (Lachin and Foulkes)
120	800	Pearson's Correlation Tests
121	805	Tests for Two Correlations
123	860	Logistic Regression (Legacy)
124	560	Factorial Analysis of Variance
125	565	Randomized Block Analysis of Variance
128	810	Tests for Intraclass Correlation
131	116	Confidence Intervals for One Proportion from a Finite Population

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Proc. #	Chapter #	Name
135	700	Logrank Tests (Freedman) (Legacy)
139	475	Group-Sequential Tests for Two Means (Legacy)
140	220	Group-Sequential Tests for Two Proportions (Legacy)
141	710	Group-Sequential Logrank Tests (Legacy)
142	650	Tests for One Variance
146	233	Non-Zero Null Tests for the Difference of Two Proportions in a Cluster-Randomized Design
147	234	Non-Unity Null Tests for the Ratio of Two Proportions in a Cluster-Randomized Design
148	413	One-Sample T-Tests for Superiority by a Margin
150	453	Superiority by a Margin Tests for the Ratio of Two Means (Log-Normal Data)
151	508	Superiority by a Margin Tests for the Difference Between Two Means in a 2x2 Cross-Over Design
152	513	Superiority by a Margin Tests for the Ratio of Two Means in a 2x2 Cross-Over Design (Log-Normal Data)
153	528	Superiority by a Margin Tests for the Difference of Two Means in a Higher-Order Cross-Over Design
154	533	Superiority by a Margin Tests for the Ratio of Two Means in a Higher-Order Cross-Over Design (Log-Normal Data)
157	575	Multiple Comparisons
158	260	Tests for One ROC Curve
159	265	Tests for Two ROC Curves
160	120	Single-Stage Phase II Clinical Trials
161	850	Cox Regression
162	130	Three-Stage Phase II Clinical Trials
163	870	Poisson Regression
164	405	Tests for One Exponential Mean
165	435	Tests for Two Exponential Means
167	605	Multivariate Analysis of Variance (MANOVA)
169	600	Hotelling's Two-Sample T^2
181	276	Tests for Paired Sensitivities
182	270	Tests for One-Sample Sensitivity and Specificity
183	275	Tests for Two Independent Sensitivities
184	253	Tests for Two Ordered Categorical Variables (Legacy)
185	595	Williams' Test for the Minimum Effective Dose
186	437	Tests for the Ratio of Two Poisson Rates (Gu)
187	412	Tests for One Poisson Rate
199	920	Data Simulator
200	490	Tests for Paired Means (Simulation) (Legacy)
201	495	Equivalence Tests for Paired Means (Simulation)
203	465	Equivalence Tests for Two Means (Simulation)
204	415	One-Sample T-Tests for Non-Inferiority
206	500	Tests for the Difference Between Two Means in a 2x2 Cross-Over Design
207	510	Non-Inferiority Tests for the Difference Between Two Means in a 2x2 Cross-Over Design
217	195	Superiority by a Margin Tests for the Difference Between Two Proportions
218	196	Superiority by a Margin Tests for the Ratio of Two Proportions
219	197	Superiority by a Margin Tests for the Odds Ratio of Two Proportions

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Proc. #	Chapter #	Name
220	205	Non-Zero Null Tests for the Difference Between Two Proportions
221	206	Non-Unity Null Tests for the Ratio of Two Proportions
222	207	Non-Unity Null Tests for the Odds Ratio of Two Proportions
223	210	Non-Inferiority Tests for the Difference Between Two Proportions
224	211	Non-Inferiority Tests for the Ratio of Two Proportions
225	212	Non-Inferiority Tests for the Odds Ratio of Two Proportions
226	213	Equivalence Tests for the Difference Between Two Proportions
227	214	Equivalence Tests for the Ratio of Two Proportions
228	215	Equivalence Tests for the Odds Ratio of Two Proportions
229	237	Superiority by a Margin Tests for the Difference of Two Proportions in a Cluster-Randomized Design
230	238	Superiority by a Margin Tests for the Ratio of Two Proportions in a Cluster-Randomized Design
231	235	Non-Inferiority Tests for the Difference of Two Proportions in a Cluster-Randomized Design
232	236	Non-Inferiority Tests for the Ratio of Two Proportions in a Cluster-Randomized Design
233	240	Equivalence Tests for the Difference of Two Proportions in a Cluster-Randomized Design
234	241	Equivalence Tests for the Ratio of Two Proportions in a Cluster-Randomized Design
235	160	Non-Inferiority Tests for the Difference Between Two Correlated Proportions
236	161	Non-Inferiority Tests for the Ratio of Two Correlated Proportions
237	165	Equivalence Tests for the Difference Between Two Correlated Proportions
238	166	Equivalence Tests for the Ratio of Two Correlated Proportions
242	580	Pair-Wise Multiple Comparisons (Simulation)
243	585	Multiple Comparisons of Treatments vs. a Control (Simulation)
244	590	Multiple Contrasts (Simulation)
245	460	Two-Sample T-Tests for Equivalence Assuming Equal Variance
246	520	Equivalence Tests for the Difference Between Two Means in a 2x2 Cross-Over Design
247	525	Equivalence Tests for the Ratio of Two Means in a 2x2 Cross-Over Design (Log-Normal Data)
248	515	Non-Inferiority Tests for the Ratio of Two Means in a 2x2 Cross-Over Design (Log-Normal Data)
249	470	Equivalence Tests for the Ratio of Two Means (Log-Normal Data)
250	455	Non-Inferiority Tests for the Ratio of Two Means (Log-Normal Data)
251	445	Tests for the Ratio of Two Means (Log-Normal Data)
252	505	Tests for the Ratio of Two Means in a 2x2 Cross-Over Design (Log-Normal Data)
253	225	Tests for Two Proportions in a Stratified Design (Cochran-Mantel-Haenszel Test)
254	815	Tests for One Coefficient Alpha
255	820	Tests for Two Coefficient Alphas
256	540	Equivalence Tests for the Difference of Two Means in a Higher-Order Cross-Over Design
257	545	Equivalence Tests for the Ratio of Two Means in a Higher-Order Cross-Over Design (Log-Normal Data)
258	530	Non-Inferiority Tests for the Difference of Two Means in a Higher-Order Cross-Over Design

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Proc. #	Chapter #	Name
259	535	Non-Inferiority Tests for the Ratio of Two Means in a Higher-Order Cross-Over Design (Log-Normal Data)
288	571	Mixed Models (Simulation)
289	670	Normality Tests (Simulation)
291	431	Tests for Two Means in a Repeated Measures Design
292	610	Multiple Testing for One Mean (One-Sample or Paired Data)
293	615	Multiple Testing for Two Means
296	201	Tests for Two Proportions in a Repeated Measures Design
297	601	Hotelling's One-Sample T^2
300	559	Power Comparison of Tests of Means in One-Way Designs (Simulation)
301	555	One-Way Analysis of Variance F-Tests (Simulation)
302	556	Kruskal-Wallis Tests (Simulation)
303	557	Terry-Hoeffding Normal-Scores Tests of Means (Simulation)
304	558	Van der Waerden Normal Quantiles Tests of Means (Simulation)
306	552	Bartlett Test of Variances (Simulation)
307	553	Levene Test of Variances (Simulation)
308	554	Brown-Forsythe Test of Variances (Simulation)
309	561	Conover Test of Variances (Simulation)
310	562	Power Comparison of Tests of Variances (Simulation)
311	802	Pearson's Correlation Tests (Simulation)
312	803	Spearman's Rank Correlation Tests (Simulation)
313	804	Kendall's Tau-b Correlation Tests (Simulation)
314	806	Power Comparison of Correlation Tests (Simulation)
315	807	Point Biserial Correlation Tests
316	808	Confidence Intervals for Spearman's Rank Correlation
317	809	Confidence Intervals for Kendall's Tau-b Correlation
318	816	Confidence Intervals for Point Biserial Correlation
319	817	Confidence Intervals for Intraclass Correlation
320	818	Confidence Intervals for Coefficient Alpha
321	819	Confidence Intervals for Kappa
322	261	Confidence Intervals for the Area Under an ROC Curve
323	857	Confidence Intervals for Michaelis-Menten Parameters
324	481	Tests for Two Means in a Multicenter Randomized Design
325	296	Confidence Intervals for C_p
326	297	Confidence Intervals for C_{pk}
327	406	Confidence Intervals for the Exponential Lifetime Mean
328	407	Confidence Intervals for an Exponential Lifetime Percentile
329	408	Confidence Intervals for Exponential Reliability
330	409	Confidence Intervals for the Exponential Hazard Rate
340	821	Reference Intervals for Clinical and Lab Medicine
341	482	Tests for Two Means in a Cluster-Randomized Design
342	483	Non-Inferiority Tests for Two Means in a Cluster-Randomized Design
343	484	Superiority by a Margin Tests for Two Means in a Cluster-Randomized Design
344	486	Equivalence Tests for Two Means in a Cluster-Randomized Design
345	699	Logrank Tests in a Cluster-Randomized Design
346	438	Tests for the Ratio of Two Negative Binomial Rates
347	439	Tests for the Difference Between Two Poisson Rates in a Cluster-Randomized Design

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Proc. #	Chapter #	Name
348	714	One-Sample Logrank Tests Assuming a Weibull Model (Wu)
349	436	Tests for the Difference Between Two Poisson Rates
350	434	One-Way Repeated Measures Contrasts
351	100	Tests for One Proportion
352	105	Non-Inferiority Tests for One Proportion
353	110	Equivalence Tests for One Proportion
354	103	Superiority by a Margin Tests for One Proportion
355	442	Confidence Intervals for One-Way Repeated Measures Contrasts
356	569	One-Way Repeated Measures
357	568	MxM Cross-Over Designs
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573	148	Superiority by a Margin Tests for the Difference of Two Within-Subject CV's in a Parallel Design
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