

Package ‘RcmdrPlugin.EZR’

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Type Package

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Description

EZR (Easy R) adds a variety of statistical functions, including survival analyses, ROC analyses, metaanalyses, sample size calculation, and so on, to the R commander. EZR enables point-and-click easy access to statistical functions, especially for medical statistics. EZR is platform-independent and runs on Windows, Mac OS X, and UNIX. Its complete manual is available only in Japanese (Chugai Igakusha, ISBN: 978-4-498-10901-8 or Nankodo, ISBN: 978-4-524-26158-1), but an report that introduced the investigation of EZR was published in Bone Marrow Transplantation (Nature Publishing Group) as an Open article. This report can be used as a simple manual. It can be freely downloaded from the journal website as shown below. This report has been cited in more than 2,000 scientific articles.

Copyright The functions in EZR package were programmed by Y. Kanda, except for the following functions. dot.plot(), prop.conf(), Cochran.Q.test(), pairwise.prop2.test(), pairwise.pairedt.test(), pairwise.kruskal.test(), pairwise.friedman.test(), pairwise.logrank.test(), pairwise.gray.test(), Steel.Dwass(), Steel(), pdunnet(), Mantel.Byar() were modified from the corresponding functions distributed by professor Aoki (<http://aoki2.si.gunma-u.ac.jp/R>). crr() and cuminc() were derived from cmprsk package. nrisk() was modified from survplot package (<http://www.cbs.dtu.dk/~eklund/survplot/>). epi.test() and epi.kappa() were derived from epiR package.

jonckheere.test(), ph2simon() and ph2single() were derived from clinfun package. Functions of meta-analysis were derived from meta and metatest packages. Functions of matched-pair analysis were derived from Matching. Functions of receiver-operating characteristics curve analyses were derived from pROC package. Many dialog functions in EZR were modified from the corresponding functions in Rcmdr package and RcmdrPlugin.survivalT package.

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URL <http://www.nature.com/bmt/journal/vaop/ncurrent/pdf/bmt2012244a.pdf>
<http://www.jichi.ac.jp/saitama-sct/SaitamaHP.files/statmedEN.html>

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EZR	<i>Rcmdr Plug-In Package for the EZR (Easy R especially for medical statistics)</i>
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Description

This package provides an R Commander plug-in EZR (Easy R), which adds a variety of statistical functions, including survival analyses, ROC analyses, metaanalyses, sample size calculation, and so on, to the R commander. EZR enables point-and-click easy access to a variety of statistical functions as shown below, especially for medical statistics. A report that introduced the investigation of EZR was published in *Bone Marrow Transplantation* (Nature Publishing Group) as an Open article. This report can be used as a simple manual. It can be freely downloaded from the journal website (URL: <http://www.nature.com/bmt/journal/vaop/ncurrent/pdf/bmt2012244a.pdf>). A complete manual of EZR is available only in Japanese (Chugai Igakusha, ISBN: 978-4-498-10901-8, URL: <http://www.chugaiigaku.jp/item/detail.php?id=1660> or Nankodo, ISBN: 978-4-524-26158-1, URL: <http://www.nankodo.co.jp/g/9784524261581/>)

Details

```

Package: RcmdrPlugin.EZR
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```

Installation of EZR

See <http://www.jichi.ac.jp/saitama-sct/SaitamaHP.files/statmedEN.html> for detailed information. Briefly, EZR is platform-independent. RcmdrPlugin.EZR should be installed with R commander (Rcmdr) and the other packages that Rcmdr or EZR depends on. Packages required by EZR can be easily installed at the same time with the installation of EZR by copying and pasting the following command to the R console window after ">".

```
install.packages(pkgs="RcmdrPlugin.EZR",dependencies=TRUE)
```

After installation, R commander can be started by the command, `library(Rcmdr)` from the R console. Packages required by Rcmdr are installed at the first start-up of R commander. EZR can be loaded by selecting RcmdrPlugin.EZR from the "Tools" > "Load Rcmdr plug-in(s)" menu. Answer "Yes" to "Restart now?".

On Windows, EZR plugin package will be loaded when R commander is started, if the following sentence is added to the Rprofile.site file in etc folder in the R folder (C:\Program Files\R\R-X.XX.X\etc).

```
options(Rcmdr=list(plugins="RcmdrPlugin.EZR"))
```

In addition, if the following phrase is added to the command in "Target:" column on the "Shortcut" tab of the "Property" of "R" shortcut on the desktop (which can be opened by right-clicking on the shortcut), R commander will start at the same time with launching R.

```
R_DEFAULT_PACKAGES="Rcmdr"
```

Therefore, if these two options were added, EZR can be started just by double-clicking on the "R" shortcut on the desktop.

In OS X, these can be done by opening the Terminal.app located in the Utilities folder, followed by copying and pasting the following command.

```

echo "options(Rcmdr=list(plugins='RcmdrPlugin.EZR'))" >> ~/.Rprofile
echo "library(Rcmdr)" >> ~/.Rprofile
echo "local{" >> ~/.Rprofile
echo "old<-getOption('defaultPackages')" >> ~/.Rprofile
echo "options(defaultPackages = c(old,'Rcmdr'))" >> ~/.Rprofile

```

```
echo "})" >> ~/.Rprofile
```

The default data folder of Windows EZR can be changed by right-clicking on this "R" shortcut on the desktop, selecting "Properties", and replacing the folder name in the "Start in:" column on the "Shortcut" tab.

EZR statistical functions

EZR includes following statistical functions.

For discrete variables

- Frequency distributions/cr Confidence interval for a proportion
- One sample proportion test
- Confidence interval for a difference between two proportions
- Confidence interval for a ratio of two proportions
- Compare two proportions (Fisher's exact test and Chi-square test)
- Compare proportions of two paired samples (McNemar test)
- Compare proportions of more than two paired samples (Cochran Q test)
- Cochran-Armitage test for trend in proportions
- Logistic regression

For continuous variables

- Numerical summaries
- Smirnov-Grubbs test for outliers
- Kolmogorov-Smimov test for normal distribution
- Confidence interval for a mean
- Single-sample t-test
- Two-variances F-test
- Two-sample t-test
- Paired t-test
- Bartlett's test
- One-way ANOVA
- Repeated-measures ANOVA
- Multi-way ANOVA
- ANCOVA
- Test for Pearson's correlation
- Linear regression

For nonparametric tests for continuous variables

- Mann-Whitney U test
- Wilcoxon's signed rank test
- Kruskal-Wallis test
- Friedman test
- Jonckheere-Terpstra test

Spearman's rank correlation test

For survival analysis

Kaplan-Meier survival curve and logrank test

Logrank trend test

Cox proportional hazard regression

Cox proportional hazard regression with time-dependent covariate

Cumulative incidence of competing events and Gray test

Fine-Gray proportional hazard regression for competing events

For diagnostic test analysis

Accuracy of qualitative test

Kappa statistics for agreement of two tests

Compute positive and negative predictive values

ROC curve analysis for quantitative test

Compare two ROC curves

Cronbach's alpha coefficient for reliability

For matched-pair analysis

Extract matched controls

Mantel-Haenzel test for matched proportions

Conditional logistic regression for matched-pair analysis

Stratified Cox proportional hazard regression for matched-pair analysis

For meta-analysis and meta-regression test

Meta-analysis and meta-regression test for proportions

Meta-analysis and meta-regression test for means

Meta-analysis and meta-regression test for hazard ratios

For sample size and power calculation

Calculate sample size from control and desired response rates

Calculate sample size from proportion and confidence interval

Calculate sample size or power for comparison with specified proportion

Calculate sample size or power for comparison between two proportions

Calculate sample size for non-inferiority trial of two proportions

Calculate sample size from standard deviation and confidence interval

Calculate sample size or power for comparison between two means

Calculate sample size for non-inferiority trial of two means

Calculate sample size or power for comparison between two paired means

Calculate sample size or power for comparison between two survival curves

Calculate sample size for non-inferiority trial of two survival curves

For drawing graphs

- Bar graph(Frequencies)
- Pie chart(Frequencies)
- Stem-and-leaf display
- Histogram
- QQ plot
- Bar graph(Means)
- Line graph(Means)
- Line graph(Repeated measures)
- Boxplot
- Dot chart
- Ordered chart
- Scatterplot
- Scatterplot matrix
- Adjusted survival curve
- Stacked cumulative incidences

Statistical functions from original R commander

- Principal-components analysis
- Factor analysis
- k-means cluster analysis
- Hierarchical cluster analysis
- Summarize hierarchical clustering
- Add hierarchical clustering to data set
- Linear hypothesis
- Variance-inflation factor
- Breusch-Pagan test for heteroscedasticity
- Durbin-Watson test for autocorrelation
- RESET test for nonlinearity
- Bonferroni outlier test
- Basic diagnostic plots
- Residual quantile-comparison plot
- Component+residual plots
- Added-variable plots
- Influence plot
- Effect plots

Basic operations in EZR

These EZR functions can be started by point-and-click access using the items on the menu bar. See [EZRdialogs](#) for details. R commander automatically creates and executes corresponding R commands that appear in the "Script window". Results are shown in the "Output window". If any errors or warnings are noted, messages will appear in the "Message window". The created commands can be saved by selecting "File" > "Save script" on the menu bar. The output can be saved by selecting "File" > "Save output". By saving the commands, users can reproduce the analyses and can also share the procedure with the other investigators.

The following EZR functions can be executed by typing the commands in the "Script window" and clicking on the "Submit" button.

Following functions are built to create a formatted table for presentation.

`w.twoway(table, filename)` function copies the results of two-way table analyses to the clipboard or text file.

`w.ttest(table, filename)` function copies the results of t-test to the clipboard or text file.

`w.survival(table, filename)` function copies the results of survival analyses to the clipboard or text file.

`w.ci(table, filename)` function copies the results of cumulative incidence analyses to the clipboard or text file.

`w.multi(table, filename)` function copies the results of multivariate regression analyses to the clipboard or text file.

"table" can be omitted except for logistic regression analysis and Fine & Gray proportional hazard regression analysis, in which "odds" and "crr.table" should be specified for "table"(default is "cox.table" to copy the results of Cox proportional hazard regression analysis).

If "filename" is omitted, the formatted table will be copied to the clipboard, which can be pasted into a spreadsheet.

`Mantel.Byar()` function is for Mantel-Byar test and Simon and Makuch plot, which should be performed after executing "Cox proportional hazard modeling with time-dependent covariate".

`rmean.table()` function is for restricted mean survival time analysis, that should be used after "Kaplan-Meier survival curve and logrank test" analysis.

`rmean.table.adjusted()` function is for adjusted restricted mean survival time analysis, that should be used after "Adjusted survival curve" analysis.

Translations

EZR comes with translations from English into Japanese.

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References

Its complete manual is available only in Japanese (Chugai Igakusha, ISBN: 978-4-498-10901-8, URL: <http://www.chugaiigaku.jp/item/detail.php?id=1660> or Nankodo, ISBN: 978-4-524-26158-1, URL: <http://www.nankodo.co.jp/g/g9784524261581/>), but a report that introduced the investigation of EZR was published in *Bone Marrow Transplantation* (Nature Publishing Group) as an Open article. This report can be used as a simple manual. It can be freely downloaded from the journal website as shown below.

Yoshinobu Kanda (2013). Investigation of the freely available easy-to-use software EZR for medical statistics. *Bone Marrow Transplantation* (Open article, URL: <http://www.nature.com/bmt/journal/vaop/ncurrent/pdf/bmt2012244a.pdf>).

EZR web site: Division of Hematology, Saitama Medical Center, Jichi Medical University. URL: <http://www.jichi.ac.jp/saitama-sct/SaitamaHP.files/statmedEN.html>

EZR dialogs

EZR dialogs

Description

EZR dialogs enable point-and-click easy access to a variety of statistical functions.

Details

EZR dialogs enable point-and-click easy access to a variety of statistical functions.

To select more than one variable in the list box, click on variables pressing Ctrl key, and to deselect one of the selected variables, click on the variable to deselect pressing Ctrl key.

To perform analyses in a subset of the samples, type an R expression into the box labelled "Condition to limit samples for analysis". For example, to perform analysis in male patients aged at least 60 years old, type `Age >= 60 & Sex == "Male"` into the box, assuming that Age and Sex variables indicate age and sex of the patients, respectively.

Cautions in multivariate analyses using EZR

When a categorical variable with more than two categories is to be analyzed in Fine and Gray regression modeling, dummy variables should be created before an analysis, although such dummy variables are automatically created in multiple regression, logistic regression and Cox proportional hazards regression in R. For example, if a user wants to evaluate the effect of three types (A, B, and C) of treatments, information for which is included in the categorical variable Tx as "A", "B" and "C", they would select "Active data set" > "Variables" > "Create dummy variables" from the EZR menu to make three categorical variables named Tx.Dummy.A, Tx.Dummy.B, and Tx.Dummy.C.

Tx.Dummy.A has a value of 1 for patients who received treatment A and 0 for others. Users should choose one of the three categories as a reference and input dummy variables for the other two categories into the regression model.

The stepwise selection function of explanatory variables based on Akaike information criterion and Bayesian information criterion only accepts dummy variables automatically created by R, whereas stepwise selection based on P-value also accepts dummy variables created by a user using EZR. If the option for a "Wald test for overall P-value for factors with >2 levels" is selected in the dialog of the regression analyses, the overall P-value for the categorical variable will be calculated.

Survival curves adjusted for other factors by the mean of covariates method, in which average values of covariates are entered into the Cox proportional hazards model, can be drawn by selecting "Graphs" > "Adjusted survival curve".

References

Read following article for details. It can be freely downloaded from the journal website as shown below.

Yoshinobu Kanda (2012). Investigation of the freely available easy-to-use software EZR for medical statistics. *Bone Marrow Transplantation* (Open article, URL: <http://www.nature.com/bmt/journal/vaop/ncurrent/pdf/bmt2012244a.pdf>).

hist2

Modified version of hist()

Description

The modified points from the original hist() are 1) hist2() uses Scott algorithm instead of Sturges. 2) hist2() adds a group below the lowest group created by hist().

Usage

```
hist2(x, breaks="scott", plot=TRUE, ...)
```

Arguments

x	a vector of values for which the histogram is desired.
breaks	see hist() for details.
plot	logical. If TRUE (default), a histogram is plotted.
...	further arguments and graphical parameters passed to plot.histogram and thence to title and axis (if plot = TRUE).

Details

See `hist()` for details.

See Also

[hist](#)

HistEZR

Plot a Histogram

Description

This function is a wrapper for the [hist](#) function in the base package, permitting percentage scaling of the vertical axis in addition to frequency and density scaling. This function is modified from the `Hist()` function in the `Rcmdr` package. `HistEZR()` package in `RcmdrPlugin.EZR` uses `hist2()` instead of `hist()`. In `hist2()`, the method to set breakpoints between histogram cells was changed from "Sturges" to "Scott".

Usage

```
HistEZR(x, scale=c("frequency", "percent", "density"), xlab=deparse(substitute(x)),
        ylab=scale, main="", ...)
```

Arguments

<code>x</code>	a vector of values for which a histogram is to be plotted.
<code>scale</code>	the scaling of the vertical axis: "frequency" (the default), "percent", or "density".
<code>xlab</code>	x-axis label, defaults to name of variable.
<code>ylab</code>	y-axis label, defaults to value of scale.
<code>main</code>	main title for graph, defaults to empty.
<code>...</code>	arguments to be passed to <code>hist</code> .

Value

This function returns `NULL`, and is called for its side effect — plotting a histogram.

See Also

[hist](#)

Examples

```
data(iris, package="datasets")
HistEZR(iris$Petal.Length, scale="percent")
```

`ifelse2`*Conditional Element Selection*

Description

`ifelse2` returns a value with the same shape as `test` which is filled with elements selected from either `yes` or `no` depending on whether the element of `test` is TRUE or FALSE. Modified from `ifelse`.

Usage

```
ifelse2(test, yes, no)
```

Arguments

<code>test</code>	an object which can be coerced to logical mode.
<code>yes</code>	return values for true elements of <code>test</code> .
<code>no</code>	return values for false elements of <code>test</code> .

Details

The only difference from `ifelse` is that, when missing values in `test`, `ifelse` gives missing values in the result, whereas `ifelse2` gives values for false elements of `test`.

See Also

[ifelse](#)

`Mantel.Byar`*mantel-Byar test*

Description

Performs Mantel-Byar test for comparison of survival data with a time-dependent covariate.

Usage

```
Mantel.Byar(Group = TempTD$covariate_td, Event = TempTD$endpoint_td,  
StartTime = TempTD$start_td, StopTime = TempTD$stop_td,  
method = c("SAS", "Tominaga"), plot=0, landmark=0)
```

Arguments

Group	Time-dependent covariate.
Event	a vector for event.
StartTime	a vector for starting time.
StopTime	a vector for stopping time.
method	method for analysis. "SAS" or "Tominaga"
plot	plot=1, 2, or 3 to plot Simon and Makuch survival curves. Line discrimination with colors (plot=1), line types (plot=2), or width (plot=3).
landmark	landmark for Simon and Makuch plot.

Details

Performs Mantel-Byar test for comparison of survival data with a time-dependent covariate. This function should be performed after executing "Cox proportional hazard modeling with time-dependent covariate" from the EZR menu. If plot is set to 1, Simon and Makuch plot is drawn with a landmark as specified.

rmean.table	<i>caluculation of restricted mean survival</i>
-------------	---

Description

Calculate and compare restricted mean survival.

Usage

```
rmean.table(x=km, tau=NULL)
rmean.table.adjusted(x=coxmodel, tau=NULL)
```

Arguments

x	survfit object
tau	specify a value of the truncation time point for the restricted mean survival calculation, e.g.,tau=365. When tau=NULL, the default value (i.e., the minimum of the largest observed "event" time in each of the two groups) is used.

Details

rmean.table() function calculates restricted mean survival with a truncation time point as specified by tau option. Also tests the difference in the restricted mean survival, if there are only two groups. This function should be performed after "Kaplan-Meier survival curve and logrank test" function of EZR (or after executing survfit() command). rmean.table() function does not support stratified analysis. rmean.table.adjusted() function calculates adjusted restricted mean survival. This function should be performed after "Adjusted survival curve" function of EZR.

w.multi

Create a formatted table for presentation

Description

Creates a formatted table for presentation and outputs to a file or clipboard.

Usage

```
w.multireg(table = multireg.table, filename = "clipboard", CI = 0, signif = 0, en = 1)
w.multi(table = cox.table, filename = "clipboard", CI = 0, signif = 0, en = 1)
w.tway(table = Fisher.summary.table, filename = "clipboard", en = 1)
w.ttest(table = summary.ttest, filename = "clipboard", en = 1)
w.survival(table = km.summary.table, filename = "clipboard", en = 1)
w.ci(table = ci.summary.table, filename = "clipboard", en = 1)
```

Arguments

table	a table to output.
filename	a filename for output. If omitted, a formatted table is copied to the clipboard.
CI	If 0, confidence intervals are shown in parentheses.
signif	Number of significant digits.
en	If 1, creat a table in English.

Details

w.tway(table, filename) function copies the results of two-way table analyses to the clipboard or text file.

w.ttest(table, filename) function copies the results of t-test to the clipboard or text file.

w.survival(table, filename) function copies the results of survival analyses to the clipboard or text file.

w.ci(table, filename) function copies the results of cumulative incidence analyses to the clipboard or text file.

w.multireg(table, filename) function copies the results of multiple regression to the clipboard or text file.

w.multi(table, filename) function copies the results of multivariate regression analyses to the clipboard or text file.

"table" can be omitted except for logistic regression analysis and Fine & Gray proportinal hazard regression analysis, in which "odds" and "crr.table" should be specified for "table"(default is "cox.table" to copy the results of Cox proportional hazard regression analysis).

If "filename" is omitted, the formatted table will be copied to the clipboard, which can be pasted into a spreadsheet.

These functions should be performed after executing corresponding analyses from the EZR menu.

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