

Package ‘condsurv’

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Title Conditional survival estimates and plots

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Description This package contains functions to produce conditional survival estimates with 95% confidence intervals, and to plot Kaplan-Meier conditional survival estimates over a range of conditioned times.

Depends R (>= 3.1.0)

License GPL-2

LazyData TRUE

Imports survival, shiny

RoxxygenNote 5.0.1

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condKMapp

Interactive conditional survival Shiny app

Description

condKMapp produces an interactive Shiny app containing output from both the condKMest function and the condKMplot function.

Usage

condKMapp(.basekm)

Arguments

.basekm	survfit object
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Value

The output includes 1) a plot with one overall Kaplan-Meier survival curve and an additional Kaplan-Meier survival curve for each time on which you are conditioning and 2) a table with conditional survival estimates at the specified survival time along with their associated confidence intervals, with one row for each time on which you are conditioning.

condKMest

Estimate conditional survival with a 95% confidence interval

Description

condKMest estimates the Kaplan-Meier conditional survival at fixed time points and produces a 95% confidence interval

Usage

```
condKMest(.basekm, .t1, .t2)
```

Arguments

.basekm	survfit object
.t1	the time on which to condition
.t2	the survival time to estimate

Details

For example, if .t1 = 2 and .t2 = 5, the function will return the probability of surviving to year 5 conditioned on having already survived to year 2

Value

A list where cs is the conditional survival estimate, cilow is the lower bound of the 95 cihigh is the upper bound of the 95

condKMplot*Generate conditional survival plots*

Description

condKMplot produces a Kaplan-Meier plot for a variety of times on which to condition

Usage

```
condKMplot(.basekm, .at, .main = NULL, .xlab = NULL,  
           .ylab = "Survival probability", .lwd = 1, .mark = F)
```

Arguments

.basekm	survfit object
.at	vector of times on which to condition
.main	plot title
.xlab	x-axis label
.ylab	y-axis label, defaults to "Survival probability"
.lwd	plot line width, defaults to 1
.mark	controls whether censoring times are marked on curves, defaults to F

Value

A plot with a line for the overall Kaplan-Meier plot and one additional line for each value in .at

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