

Package ‘condsurv’

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Title Conditional survival estimates and plots

Version 0.1.0

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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

RoxygenNote 5.0.1

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condKMapp	<i>Interactive conditional survival Shiny app</i>
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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

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	<i>Estimate conditional survival with a 95% confidence interval</i>
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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	<i>Generate conditional survival plots</i>
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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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