Package 'nlrr'

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Title Non-Linear Relative Risk Estimation and Plotting

Version 0.1

Description Estimate the non-linear odds ratio and plot it against a continuous exposure.

Depends R (>= 3.2.2)

Imports rms, Hmisc

License GPL (>= 2)

LazyData true

NeedsCompilation no

Author Yiqiang Zhan [aut, cre]

Maintainer Yiqiang Zhan <zhanyiqiang@gmail.com>

Repository CRAN

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R topics documented:

Lipid   *Lipid and diabetes*

Description

This data set gives the simulated data for lipid, age, gender, and diabetes.

Usage

```
Lipid
```

Format

A data frame containing 2000 observations.

Source

simulated

References

Not applicable

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nlor   *Odds ratio plot for dose - response non-linear continuous exposure.*

Description

Calculates non-linear odds ratio and plot OR vs. a continuous variable.

Usage

```
nlor(outcome, exposure, covar = NULL, ref = NULL, knum = 4, data)
```

Arguments

outcome	the outcome variable
exposure	the exposure variable
covar	a covariats list
ref	reference value for the continuous variable
knum	number of knots
data	name of a dataset

Examples

```
sum1 <- nlor('dm', 'lipid', covar = c('age', 'gender'), 0.6, data = Lipid)
head(sum1)
```

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nlorplot	*Odds ratio plot for dose - response non-linear continuous exposure.*

Description

Calculates non-linear odds ratio and plot OR vs. a continuous variable.

Usage

```
nlorplot(exposure, or, data, xlab = NULL)
```

Arguments

exposure	the exposure variable
or	odds ratio
data	name of a dataset
xlab	x-axis

Examples

```
sum1 <- nlor('dm', 'lipid', covar = c('age', 'gender'), 0.6, data = Lipid)
head(sum1)
nlorplot('lipid', 'or', data = sum1, xlab = 'Lipid')
```

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