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
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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

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<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>outcome</td>
<td>the outcome variable</td>
</tr>
<tr>
<td>exposure</td>
<td>the exposure variable</td>
</tr>
<tr>
<td>covar</td>
<td>a covariates list</td>
</tr>
<tr>
<td>ref</td>
<td>reference value for the continuous variable</td>
</tr>
<tr>
<td>knum</td>
<td>number of knots</td>
</tr>
<tr>
<td>data</td>
<td>name of a dataset</td>
</tr>
</tbody>
</table>

Examples

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