Package ‘RcmdrPlugin.RMTCJags’

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Type Package
Title R MTC Jags Rcmdr Plugin
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Imports Rcmdr, runjags, rmeta, igraph, coda, rjags
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Description This package provides an Rcmdr "plug-in" for perform Mixed Treatment Comparison for binary outcome using BUGS code from Bristol University (Lu and Ades)
License GPL (>= 2)
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R topics documented:

RcmdrPlugin.RMTCJags-package ............................................ 1
database-structure ......................................................... 2

Index 4

RcmdrPlugin.RMTCJags-package

R MTC Jags plugin

Description

This package provides an Rcmdr "plug-in" for perform Mixed Treatment Comparison for binary outcome using BUGS code from Bristol University
Details

Package: RcmdrPlugin.RMTCJags
Type: Package
Version: 1.0
Date: 2013-12-05
License: GPL version 2 or newer

Author(s)

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See Also

Rcmdr.

Description

Manual to build database for RcmdrPlugin.RMTCJags

Details

Fixed Effect Model (FE Model), Random Effect Model (RE Model) Ignoring multi-arm trials and Random Effect Model (RE Model) for 2- and 3-arms trials:

A database with six (6) variables:

s  -> Study index (Number)
t  -> Treatment index (Number)
r  -> Number of cases on the treatment
n  -> Total population on the treatment
b  -> Baseline treatment
m  -> Arm index - Only needed on RE Model for 2- and 3-arms trials, where 1 is the baseline treatment and 2,...,n are for the other treatments.

Each line on the database is a treatment of a trial (study), for example:

s  t  r  n  b  m
1  1  40 100 1 1
1  3  15  90 1 2
1  4  10  75 1 3
Random Effect Model (RE Model) for multi-arm trial:
A database with \(N \times 3 + 1\) columns, where \(N\) is the highest number of arms from a trial collection.

- \(t[1..N,] \rightarrow\) Treatment index
- \(r[1..N,] \rightarrow\) Number of cases on the treatment
- \(n[1..N,] \rightarrow\) Total population on the treatment
- \(na \rightarrow\) Number of arms on the study

Each line on the database is a trial. For example, if we collect 10 trials and after check them we have the biggest trial with 5 arms our database structure is:

```
1  2  3  4  5  20 30 10  5  14  100 90 80 110 50  5
1  3  4  5  NA 10 50 60 15 NA 150 200 340 165  1  4
2  4  5  NA NA 40 70 80 NA NA 70 190 500 1  1  3
...```

```
3  4  NA NA 80 90  NA NA NA 250 580 1  1  2
```
Index

*Topic package
  RcmdrPlugin.RMTCJags-package, 1
*Topic read.data
  database-structure, 2

database-structure, 2

Rcmdr, 2
RcmdrPlugin.RMTCJags
  (RcmdrPlugin.RMTCJags-package),
  1
RcmdrPlugin.RMTCJags-package, 1
read.data(database-structure), 2