

Package ‘nose’

February 20, 2015

Type Package

Title nose Package for R

Version 1.0

Date 2012-12-04

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Description The nose package consists of a collection of three functions for classifying sparseness in typical 2 x 2 data sets with at least one cell should have zero count. These functions are based on the three widely applied summary measures for 2 x 2 categorical data viz, Risk Difference (RD), Relative Risk (RR), Odds Ratio (OR). This package helps to identify suitable continuity correction for zero cells when a multi centre analysis or a meta analysis is carried out. Further, it can be considered as a tool for sensitivity analysis for adding a continuity correction and to identify the presence of Simpson's paradox.

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Repository CRAN

Date/Publication 2012-12-19 11:39:43

NeedsCompilation no

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References

- Skene, A.M., Wakefield, J.C., 1990. Hierarchical models for multicentre binary response studies. *Statistics in Medicine* 9, 919-929.
- Freidlin, B., Gastwirth, J.L., 1999. Unconditional versions of several tests commonly used in the analysis of contingency tables. *Biometrics* 55, 264-267.
- Agresti, A., 2000. Strategies for comparing treatments on a binary response with multi-centre data. *Statistics in Medicine* 19, 1115-1139.
- Subbiah, M., Srinivasan, M.R., 2008 Classification of 2 x 2 sparse data sets with zero cells. *Statistics and Probability Letters* 78, 3212-3215.

nose.or

nose.or

Description

A function to classify the nature of sparseness in 2 x 2 categorical data sets using the summary measure Odds Ratio (OR)

Usage

```
nose.or(nos, cc)
```

Arguments

nos	data in matrix form
cc	continuity correction factor

Value

nature of sparseness

Author(s)

Subbiah M <sisufive@gmail.com>

See Also

[nose.rf](#), [nose.rr](#)

Examples

```
## Not run:  
s=read.table(file.choose())  
nose.or(s,0.5)  
  
## End(Not run)
```

nose.rf	<i>nose.rf</i>
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Description

A function to classify the nature of sparseness in 2 x 2 categorical data sets using the summary measure Risk Difference (RF)

Usage

```
nose.rf(nos, cc)
```

Arguments

nos	data in matrix form
cc	continuity correction factor

Value

nature of sparseness

Author(s)

Subbiah M <sisufive@gmail.com>

See Also

[nose.or](#), [nose.rr](#)

Examples

```
## Not run:  
s=read.table(file.choose())  
nose.rf(s,0.5)  
  
## End(Not run)
```

`nose.rr`*nose.rr*

Description

A function to classify the nature of sparseness in 2 x 2 categorical data sets using the summary measure Relative Risk (RR)

Usage

```
nose.rr(nos, cc)
```

Arguments

<code>nos</code>	data in matrix form
<code>cc</code>	continuity correction factor

Value

nature of sparseness

Author(s)

Subbiah M <sisufive@gmail.com>

See Also

[nose.or](#), [nose.rf](#)

Examples

```
## Not run:  
s=read.table(file.choose())  
nose.rr(s,0.5)  
  
## End(Not run)
```

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