Package 'CoxR2'

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Type Package
Title R-Squared Measure Based on Partial LR Statistic, for the Cox PH Regression Model
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Description Calculate the R-squared, aka explained randomness, based on the partial likelihood ra- tio statistic under the Cox Proportional Haz- ard model [J O'Quigley, R Xu, J Stare (2005) <doi:10.1002 sim.1946="">].</doi:10.1002>
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R topics documented:

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R-Squared under the Cox model

Description

Calculate the R-squared, aka explained randomness, based on the partial likelihood ratio statistic under the Cox model.

Usage

```
##object is the result of a 'coxph'
coxr2(object)
```

Arguments

object The result of a coxph fit

Details

Calculate the R-squared based on the partial likelihood ratio statistic under the Cox model. Difference in log partial likelihoods between the fitted model and the null model with no regressors is divided by the number of uncensored events, while the existing summary function divides it by the number of total observations.

Value

nevent	number of uncensored events
logtest	partial likelihood ratio test statistics
rsq	explained randomness

Author(s)

Hyeri You, Rounghui Xu

References

John O'Quigley, Ronghui Xu and Janez Stare, (2005), Explained randomness in proportional hazards models, STATISTICS IN MEDICINE, 24:479-489.

See Also

coxph, summary.coxph

Examples

```
coxmodel <- coxph(Surv(time, event ) ~ x , test)</pre>
```

coxr2(coxmodel)

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