

Package: intervalcalc (via r-universe)

September 1, 2024

Title Calculations for Epidemiological Intervals
Version 0.0.1.9001
Description Calculating epidemiological intervals
License MIT + file LICENSE
Encoding UTF-8
LazyData true
Roxygen list(markdown = TRUE)
RoxygenNote 7.1.1
Suggests covr, knitr, rmarkdown, testthat (>= 3.0.0), cmdstanr
Depends R (>= 2.10)
Imports staninside, checkmate, rappdirs, cli, loo
Additional_repositories <https://mc-stan.org/r-packages/>,
<https://medewitt.r-universe.dev>
SystemRequirements CmdStan
(<https://mc-stan.org/users/interfaces/cmdstan>)
VignetteBuilder knitr
Repository <https://medewitt.r-universe.dev>
RemoteUrl <https://github.com/medewitt/intervalcalc>
RemoteRef HEAD
RemoteSha 2b759d5ac483e1358ac3bd02b0148bd805db603b

Contents

fit_interval_data	2
nishiura	2
prep_interval_data	3

Index	4
--------------	----------

fit_interval_data *Fitting Data for Interval Calculation*

Description

This function takes data from the prep_interval_data function and fits it to a series of specified distributions

Usage

```
fit_interval_data(
  interval_data,
  distribution = c("gamma", "gamma-trunc"),
  stan_opts = list(),
  return_raw = FALSE
)
```

Arguments

interval_data a named list containing the interval data
distribution a string vector indicating the distributions with which to fit the data
stan_opts a named list with additional options passed to CmdStanR
return_raw a logical, should the samples be returned

nishiura *Serial Interval Data from Nishiura et al*

Description

Serial Interval Data from Nishiura et al

Usage

```
nishiura
```

Format

a data.frame with 28 rows and 10 columns

V1 Row number

SIClassification Certainty of the Classification

DiagnosisCounty County of Diagnosis

InfectiorOnset Onset for index case

InfecteeOnset Onset for infected individual

ER Symptom interval for infector

EL Symptom interval for infector

SL Symptom interval for infectee

SR Symptom interval for infectee

Source Source for the data

Source

Supporting materials for Nishiura H, Linton NM, Akhmetzhanov AR 2020 "Serial interval of novel coronavirus (COVID-19) infections" International journal of infectious diseases 93: 284–6 ([doi:10.1016/j.ijid.2020.02.060](https://doi.org/10.1016/j.ijid.2020.02.060))

prep_interval_data *Prepare Interval Data*

Description

This function can be used to prepare data for fitting

Usage

```
prep_interval_data(dat)
```

Arguments

dat a data.frame with columns named er, el sl,sr

Value

a named list for use with `fit_interval_data`

Index

* **datasets**

nishiura, [2](#)

fit_interval_data, [2](#)

nishiura, [2](#)

prep_interval_data, [3](#)