Package ‘asymptor’

December 14, 2020

Title Estimate Asymptomatic Cases via Capture/Recapture Methods

Version 1.0


License GPL-3


BugReports https://github.com/bisaloo/asymptor/issues

Depends R (>= 3.5)

Suggests covr, ggplot2, knitr, markdown, spelling, testthat(>= 3.0.0)

VignetteBuilder knitr

Encoding UTF-8

Language en-GB

RoxygenNote 7.1.1.9000

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NeedsCompilation no

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estimate_asympto

Estimate the proportion of asymptomatic cases by capture/recapture

Description

Estimate the proportion of asymptomatic cases by capture/recapture

Usage

```r
estimate_asympto(date, cases, deaths, bounds = c("lower", "upper"))
```

Arguments

- `date`: A vector containing the dates
- `cases`: A numeric vector containing the number of new cases at each date (not the cumulative number of cases).
- `deaths`: A numeric vector containing the number of new deaths at each date (not the cumulative number of cases).
- `bounds`: "lower", "upper", or both c("lower", "upper") (the default), telling which bounds of the number of asymptomatic cases are computed. associated with the lower and upper bounds. estimation. FALSE is never the recommended setting ex-

Value

A data.frame with two or three columns (depending on the value of the bounds argument):

- `date`: the original date column
- `lower`: the lower bound of asymptomatic cases
- `upper`: the upper bound of asymptomatic cases

References


Examples

```r
d <- readRDS(system.file("extdata", "covid19_italy.rds", package = "asymptor"))
head(d)
estimate_asympto(d$date, d$new_cases, d$new_deaths)
```
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