

Package ‘EpiSimR’

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Title A 'Shiny' App to Simulate the Dynamics of Epidemic and Endemic Diseases Spread

Version 1.1

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Description

The 'EpiSimR' package provides an interactive 'shiny' app based on deterministic compartmental mathematical modeling for simulating and visualizing the dynamics of epidemic and endemic disease spread.

It allows users to explore various intervention strategies, including vaccination and isolation, by adjusting key epidemiological parameters. The methodology follows the approach described by Brauer (2008) <[doi:10.1007/978-3-540-78911-6_2](https://doi.org/10.1007/978-3-540-78911-6_2)>. Thanks to 'shiny' package.

Depends R (>= 4.1.1), shiny (>= 1.10.0), deSolve (>= 1.40), openxlsx (>= 4.2.8)

Imports dplyr, DT, shinythemes

License GPL (>= 3)

Encoding UTF-8

RoxygenNote 7.3.2

Suggests knitr, rmarkdown, testthat (>= 3.0.0)

VignetteBuilder knitr

Config/testthat/edition 3

NeedsCompilation no

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`run_app`*Launch the shiny app of the package EpiSimR*

Description

Launch the shiny app of the package EpiSimR

Usage

```
run_app()
```

Value

No return value, called for side effects. This function launches a Shiny application.

Examples

```
if (interactive()) {  
  library(EpiSimR)  
  run_app()  
}
```

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