Package 'ParCC'

March 30, 2026

Title Parameter Converter and Calculator for Health Technology
Assessment

Version 1.4.0

Description An interactive 'shiny' application for Health Technology
Assessment (HTA) parameter estimation. Converts between rates,
probabilities, odds, and hazard ratios (HR); extrapolates survival
curves (Exponential, Weibull, Log-Logistic); fits probabilistic
sensitivity analysis (PSA) distributions (Beta, Gamma, LogNormal,
Dirichlet) via the method of moments; calculates incremental
cost-effectiveness ratios (ICERs), net monetary benefit (NMB),
value-based pricing, and budget impact; adjusts costs for inflation,
discounting, and purchasing power parity (PPP) across 30 countries;
and adjusts background mortality using life-table methods. Designed
for researchers building cost-effectiveness and budget-impact models
who need auditable, formula-documented parameter transformations.
Methods include Zhang and Yu (1998)
<doi:10.1001/jama.280.19.1690> for odds ratio (OR) to relative
risk (RR) conversion and Chinn (2000, Statistics in Medicine, 19,
3127-3131) for effect-size transformations.

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Encoding UTF-8

Imports shiny, shinythemes, ggplot2, plotly, DT, rmarkdown, magrittr

RoxygenNote 7.3.3

URL https://drpakhare.github.io/ParCC/,
https://github.com/drpakhare/ParCC

BugReports https://github.com/drpakhare/ParCC/issues

VignetteBuilder knitr

Config/testthat/edition 3

Suggests knitr, testthat (>= 3.0.0)

NeedsCompilation no

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Repository CRAN

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run_app *Run the ParCC Application*

Description

Launches the ParCC Shiny application in the default web browser. The application provides interactive tools for Health Technology Assessment parameter conversions, survival extrapolation, PSA distribution fitting, economic evaluation, and more.

Usage

```
run_app()
```

Value

A Shiny application object (invisibly). Called for its side effect of launching the application.

Examples

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

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