

Package: PSS.Health (via r-universe)

May 27, 2026

Type Package

Title Power and Sample Size for Health Researchers via Shiny

Depends R (>= 4.1.0)

Version 1.1.5

Date 2025-11-23

Language pt

Description Power and Sample Size for Health Researchers is a Shiny application that brings together a series of functions related to sample size and power calculations for common analysis in the healthcare field. There are functionalities to calculate the power, sample size to estimate or test hypotheses for means and proportions (including test for correlated groups, equivalence, non-inferiority and superiority), association, correlations coefficients, regression coefficients (linear, logistic, gamma, and Cox), linear mixed model, Cronbach's alpha, interobserver agreement, intraclass correlation coefficients, limit of agreement on Bland-Altman plots, area under the curve, sensitivity and specificity incorporating the prevalence of disease. You can also use the online version at https://hcpa-unidade-bioestatistica.shinyapps.io/PSS_Health/.

URL https://hcpa-unidade-bioestatistica.shinyapps.io/PSS_Health/

Imports dplyr, DT, easypower, EnvStats, epiR, ggplot2, ICC.Sample.Size, kappaSize, longpower, plotly, powerMediation, powerSurvEpi, presize, pROC, pwr, pwr2, shiny, shinycssloaders, shinyFeedback, shinyhelper, writexl

License GPL (>= 2)

Encoding UTF-8

Contact 'mailto:psshealth@hcpa.edu.br'

Suggests rmarkdown, knitr, MESS, WebPower

RoxygenNote 7.3.3

VignetteBuilder knitr

NeedsCompilation no

Author Rogério Boff Borges [aut, cre] (ORCID:

<<https://orcid.org/0000-0002-2548-1889>>), Guilherme Serpa

Azambuja [aut] (ORCID:

<<https://orcid.org/0000-0001-6246-4538>>), Aline Castello Branco

Mancuso [aut] (ORCID: <<https://orcid.org/0000-0001-6033-8335>>),

Vanessa Bielefeldt Leotti [aut] (ORCID:

<<https://orcid.org/0000-0003-3860-9367>>), Vânia Naomi Hirakata

[aut] (ORCID: <<https://orcid.org/0000-0003-4645-2080>>), Suzi

Alves Camey [aut] (ORCID:

<<https://orcid.org/0000-0002-5564-081X>>), Stela Maris de Jesus

Castro [aut] (ORCID: <<https://orcid.org/0000-0001-5862-6709>>),

Gustavo Thomas [aut] (ORCID:

<<https://orcid.org/0000-0002-4327-8307>>), Hospital de Clínicas

de Porto Alegre [fnd]

Maintainer Rogério Boff Borges <roborges@hcpa.edu.br>

Config/pak/sysreqs libabsl-dev libcairo2-dev cmake libfontconfig1-dev libfreetype6-dev libfribidi-dev libgdal-dev gdal-bin libgeos-dev make libharfbuzz-dev libicu-dev libjpeg-dev libpng-dev libtiff-dev libuv1-dev libwebp-dev libxml2-dev libssl-dev libproj-dev libsqlite3-dev libudunits2-dev zlib1g-dev

Repository <https://cranhaven.r-universe.dev>

Date/Publication 2026-05-27 05:02:00 UTC

RemoteUrl <https://github.com/cranhaven/cranhaven.r-universe.dev>

RemoteRef package/PSS.Health

RemoteSha a56c150847905bcc7c76d75870e04d97bc7c1ae3

RemoteSubdir PSS.Health

Contents

PSS_Health	2
Index	4

PSS_Health

This function will start the Shiny application

Description

Run locally an interactive Shiny application for Power and Sample Size determination.

Usage

PSS_Health()

Author(s)

Unidade de Bioestatística, Diretoria de Pesquisa, Hospital de Clínicas de Porto Alegre.

See Also

Borges, R., Mancuso, A., Camey, S., Leotti, V., Hirakata, V., Azambuja, G., & Castro, S. (2021). Power and Sample Size for Health Researchers: uma ferramenta para cálculo de tamanho amostral e poder do teste voltado a pesquisadores da área da saúde. *Clinical & Biomedical Research*, 40(4). Retrieved from <https://seer.ufrgs.br/hcpa/article/view/109542>

Castro, S. M. de J., Branco, A. C., Camey, S. A., Leotti, V. B., Hirakata, V. N., & Borges, R. B. (2021). PSS Health: como calcular tamanho de amostra para estimar média, proporção e correlação. *Clinical and Biomedical Research*, 41(3). Retrieved from de <https://seer.ufrgs.br/index.php/hcpa/article/view/112466>

Hirakata, V. N., Mancuso, A. C. B., Castro, S. M. de J., Camey, S. A., Leotti, V. B., & Borges, R. B. (2022). PSS Health: como calcular tamanho de amostra para testes de comparação de médias de dois grupos. *Clinical and Biomedical Research*, 42(2). Retrieved from de <https://seer.ufrgs.br/index.php/hcpa/article/view/120997>

Leotti, V. B., Castro, S. M. de J., Mancuso, A. C. B., S. A. & Borges, Hirakata, V. N., Camey, R. B. (2023). PSS Health: como calcular tamanho de amostra para testar relações de variáveis com um desfecho binário. *Clinical and Biomedical Research*, 42(4). Retrieved from de <https://seer.ufrgs.br/index.php/hcpa/article/view/126843>

Examples

```
if(interactive()){
PSS_Health()
}
```

Index

PSS_Health, 2