

Package ‘PSS.Health’

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Type Package

Title Power and Sample Size for Health Researchers via Shiny

Version 0.5.1

Date 2022-07-06

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 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/>.

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

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Encoding UTF-8

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Suggests rmarkdown, knitr, MESS, WebPower

VignetteBuilder knitr

RoxygenNote 7.2.0

NeedsCompilation no

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PSS_Health	<i>This function will start the Shiny application</i>
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Description

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

Usage

```
PSS_Health()
```

Author(s)

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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>

Examples

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

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