

Package ‘DiagnostySize’

October 10, 2026

Type Package

Title App for Calculating the Sample Size in a Diagnostic Study

Version 0.1.0

Description We developed a 'shiny' app for the optimal sample size calculations for diagnostic accuracy studies proposed in Stark and Zapf (2020) <[doi:10.1177/0962280220913588](https://doi.org/10.1177/0962280220913588)>, and Stark et al. (2022) <[doi:10.1186/s12874-022-01564-2](https://doi.org/10.1186/s12874-022-01564-2)>, so people without programming skills can use this approach as well. Until now, this approach was just available via 'R' scripts. This app, 'DiagnostySize', lets users apply the optimal sample size calculation approach, ensuring that no endpoint (sensitivity or specificity) is overpowered. Within the app, users can run the optimal sample size and power calculations for different study designs through a user interface.

Imports shiny, shinydashboard, shinyBS, markdown, DT, htmltools, stats

License GPL-3

Encoding UTF-8

NeedsCompilation no

Author Jana Wiesner [aut, cre] (ORCID: <<https://orcid.org/0009-0001-7031-7850>>),
Maria Stark [ctb] (ORCID: <<https://orcid.org/0000-0002-1463-0885>>)

Maintainer Jana Wiesner <wiesner1@uni-bremen.de>

Config/roxygen2/version 8.1.0

VignetteBuilder knitr

Suggests knitr, rmarkdown

URL https://github.com/JanaW09/DiagnostySize_App

Repository CRAN

Date/Publication 2026-10-10 10:10:30 UTC

Contents

run_app	2
Index	3

`run_app`*Run the app*

Description

This function starts Shiny application.

Usage

```
run_app()
```

Value

No return value, starts the shiny app.

Examples

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

Index

run_app, [2](#)