Package: metavidence (via r-universe)

November 21, 2026

Type Package

Title No-Code 'shiny' Application for Meta-Analysis

Version 1.0.0

Description A 'shiny' application that guides researchers through meta-analysis in three steps: load the data, choose the parameters and review the results. Covers pairwise meta-analysis of binary and continuous outcomes, pre-calculated effect sizes, single-arm proportions and means, frequentist network meta-analysis and diagnostic test accuracy, producing forest plots, funnel plots, leave-one-out analyses, subgroup analyses, meta-regression and publication-ready exports. Pairwise and single-arm models use the methods implemented in 'meta' and 'metafor'; network meta-analysis follows Rucker (2012) <doi:10.1002/jrsm.1058> as implemented in 'netmeta'; diagnostic accuracy uses the bivariate model of Reitsma et al. (2005) <doi:10.1016/j.jclinepi.2005.02.022>, fitted with 'lme4' as a bivariate binomial generalized linear mixed model (Chu and Cole (2006) <doi:10.1016/j.jclinepi.2006.06.011>) following the Cochrane Handbook for Systematic Reviews of Diagnostic Test Accuracy. The development and validation of the application are described in Costa Filho et al. (2026) <doi:10.64898/2026.11.17.26368328>. The application runs locally and no data leaves the user's computer.

License GPL-3

Encoding UTF-8

URL https://metavidence.com, https://github.com/ValbertOCF/MetaVidence

BugReports https://github.com/ValbertOCF/MetaVidence/issues

Depends R (>= 4.1)

Imports shiny (>= 1.7.0), meta (>= 8.0-0), metafor (>= 4.0-0), netmeta (>= 2.8-0), lme4, lmtest, ggplot2, readxl, openxlsx, zip, stats, utils, grDevices, graphics, tools

Roxygen list(markdown = TRUE)

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Repository https://valbertocf.r-universe.dev

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RemoteSubdir pkg

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`run_app` *Run the MetaVidence application*

Description

Starts the MetaVidence 'shiny' application, a guided three-step interface for meta-analysis: load the data, choose the parameters, review and export the results. Everything runs locally; no data is sent anywhere.

Usage

```
run_app(...)
```

Arguments

`...`	Arguments passed to `shiny::runApp()`, for example `port` or `launch.browser`.

Value

Called for its side effect of launching the application. Returns, invisibly, the value passed to `shiny::stopApp()` when the application closes (`NULL` by default).

Examples

```
# The application blocks the console while it runs, so it is only started
# in an interactive session.
if (interactive()) {
  run_app()
}
```

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