

# Package ‘adepro’

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**Type** Package

**Title** A 'shiny' Application for the (Audio-)Visualization of Adverse Event Profiles

**Version** 3.0.0

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**Description** Contains a 'shiny' application called AdEPro (Animation of Adverse Event Profiles) which (audio-)visualizes adverse events occurring in clinical trials. As this data is usually considered sensitive, this tool is provided as a stand-alone application that can be launched from any local machine on which the data is stored.

**Depends** R (>= 3.5.0), shinyBS, seriation

**License** GPL-3

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 6.1.1

**Imports** graphics, MASS, jsonlite, V8, utils, shinyjs, shiny, audio, shape, Cairo, dplyr, readr, rlang, tidyr, haven, stats, shinyWidgets, gclus, TeachingDemos

**Suggests** knitr, rmarkdown, testthat

**VignetteBuilder** knitr

**NeedsCompilation** no

**Repository** CRAN

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example\_aedata

*Example data set with simulated adverse event information*

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### **Description**

Example data set with simulated adverse event information

### **Usage**

example\_aedata

### **Format**

A data frame with the following variables (in this order):

**SUBJIDN** subject ID

**AEDECOD** adverse event (AE) term

**AESTDY** study day of start of the adverse event

**AEENDY** study day of end of the adverse event

**AESEVN** severity of the adverse event (1-mild, 2-moderate, 3-severe)

**AESERN** serious adverse event

**AETRTEMN** treatment-emergent adverse event (1-yes, 0-no)

**AERELN** serious adverse event (1-yes, 0-no)

**TRT01A** treatment group

**TRTSDT** study day of treatment start

**LVDT** study day of drop out

**DTHDT** study day of death

**AGE** subject age

**SEX** subject sex

**REGION** subject region

**SAFFN** safety flag (numeric)

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example_sldata	<i>Example data set with simulated subject level information</i>
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**Description**

Example data set with simulated subject level information

**Usage**

example\_sldata

**Format**

A data frame with the following variables (in this order):

**SUBJIDN** subject ID

**TRT01A** treatment group

**TRTSDT** study day of treatment start

**LVDT** study day of drop out

**DTHDT** study day of death

**AGE** subject age

**SEX** subject sex

**REGION** subject region

**SAFFN** safety flag (numeric)

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launch_adepro	<i>launch_adepro - Launches the AdEPro application</i>
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**Description**

Starts the AdEPro application in the client's browser.

**Usage**

launch\_adepro(host = "127.0.0.1", port = NULL, browser = NULL)

**Arguments**

host	host link (defaults to the local machine "127.0.0.1")
port	port number (randomly chosen unless specified as a certain number)
browser	path to browser exe (defaults to standard browser)

**Details**

Further information on how to use this application can be found in the vignette of this package.

**Value**

A shiny app

**Examples**

```
## Not run:
## Launch application on localhost (127.0.0.1)
## -----
## By default launch_adepto starts the application on localhost
## and a randomly selected port (e.g. 9876), in which case you can connect
## to the running application by navigating your browser to
## http://localhost:9876.
launch_adepto()

## Launch application on a different host
## -----
## You can also run the application on a different host
## by specifying a hostname and port. Just make sure to
## use an open port on your machine. Here "open" means
## that the port should not be used by another service
## and the port is opened by your firewall.
launch_adepto(host="your-hostname", port=8888)

## Make the application available to your coworkers
## -----
## within your local area network even without a
## dedicated Shiny server. The value set through the
## host argument says to accept any connection (not just from localhost).
## Then take note of your local IP (if you are under linux,
## you can see it through ifconfig). Say your IP is 192.168.1.70.
## Your colleagues can use your app by inserting in the address
## bar of their browser 192.168.1.70:8888, i.e. your IP followed
## by : and the port number you selected.
launch_adepto(host="0.0.0.0", port=8888)

## Launch application on a different browser
## -----
## To run the shiny app on a different browser than your standard browser
## use the "browser" argument to set the path to the respective .exe file.
launch_adepto(browser = "C:/Program Files/Mozilla Firefox/firefox.exe")

## Running AdEPro on test data
## -----
write.csv(example_aedata, file=paste(tempdir(), "\\example_aedata.csv", sep=""), row.names=FALSE)
write.csv(example_sldata, file=paste(tempdir(), "\\example_sldata.csv", sep=""), row.names=FALSE)
## Load example_aedata.csv (and example_sldata.csv) in the Upload data panel after
```

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```
## launching the application.
```

```
## End(Not run)
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