Package 'TreatmentPatterns'

May 28, 2025

```
Type Package
Title Analyzes Real-World Treatment Patterns of a Study Population of Interest
Version 3.1.0
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Description Computes treatment patterns within a given cohort using the Observational
     Medical Outcomes Partnership (OMOP) common data model (CDM). As described
     in Markus, Verhamme, Kors, and Rijnbeek (2022) <doi:10.1016/j.cmpb.2022.107081>.
URL https://github.com/darwin-eu/TreatmentPatterns, https:
     //darwin-eu-dev.github.io/TreatmentPatterns/
BugReports https://github.com/darwin-eu/TreatmentPatterns/issues
Language en-US
Depends R (>= 4.2)
Imports checkmate,
     dplyr,
     stringr,
     utils,
     stats,
     Andromeda,
     tidyr,
     R6,
     sunburstR,
     networkD3,
     htmlwidgets,
     ggplot2,
     dbplyr,
     jsonlite
Suggests knitr,
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     testthat (>= 3.0.0),
     usethis,
     Eunomia,
     CDMConnector,
     DatabaseConnector (>= 6.0.0),
     SqlRender,
     CohortGenerator,
```

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Collate 'CDMInterface.R' 'TreatmentPatterns-package.R' 'attrition.R' 'computePathways.R' 'constructPathways.R' 'createSankeyDiagram.R' 'createSunburstPlot.R' 'executeTreatmentPatterns.R' 'export.R' 'exportPatientLevel.R' 'getResultsDataModelSpecification.R' 'ggSunburst.R' 'plotEventDuration.R'
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computePathways

computePathways

Description

Compute treatment patterns according to the specified parameters within specified cohorts.

Usage

```
computePathways(
  cohorts,
  cohortTableName,
  cdm = NULL,
  connectionDetails = NULL,
  cdmSchema = NULL,
  resultSchema = NULL,
  analysisId = 1,
  description = "",
  tempEmulationSchema = NULL,
 startAnchor = "startDate",
 windowStart = 0,
  endAnchor = "endDate",
 windowEnd = 0,
 minEraDuration = 0,
  splitEventCohorts = NULL,
  splitTime = NULL,
 eraCollapseSize = 30,
 combinationWindow = 30,
 minPostCombinationDuration = 30,
  filterTreatments = "First",
 maxPathLength = 5,
 overlapMethod = "truncate",
  concatTargets = TRUE
)
```

Arguments

```
cohorts

(data.frame())

Data frame containing the following columns and data types:

cohortId numeric(1) Cohort ID's of the cohorts to be used in the cohort table.

cohortName character(1) Cohort names of the cohorts to be used in the cohort table.

type character(1) ["target", "event', "exit" ] Cohort type, describing if the cohort is a target, event, or exit cohort

cohortTableName

(character(1))

Cohort table name.

cdm

(CDMConnector::cdm_from_con(): NULL)

Optional; Ignores connectionDetails, cdmSchema, and resultSchema.
```

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connectionDetails

(DatabaseConnector::createConnectionDetails(): NULL)

Optional; In congruence with cdmSchema and resultSchema. Ignores cdm.

cdmSchema (character(1): NULL)

Optional; In congruence with connectionDetails and resultSchema. Ignores

cdm.

resultSchema (character(1): NULL)

Optional; In congruence with connectionDetails and cdmSchema. Ignores

cdm.

analysisId (character(1)) Identifier for the TreatmentPatterns analysis.

description (character(1)) Description of the analysis.

tempEmulationSchema

Schema used to emulate temp tables

startAnchor (character(1): "startDate") Start date anchor. One of: "startDate", "endDate"

windowStart (numeric(1): 0) Offset for startAnchor in days.

endAnchor (character(1): "endDate") End date anchor. One of: "startDate", "endDate"

windowEnd (numeric(1): 0) Offset for endAnchor in days.

minEraDuration (integer(1): 0)

Minimum time an event era should last to be included in analysis

splitEventCohorts

(character(n): "")

Specify event cohort to split in acute (< X days) and therapy (>= X days)

splitTime (integer(1): 30)

Specify number of days (X) at which each of the split event cohorts should be

split in acute and therapy

eraCollapseSize

(integer(1): 30)

Window of time between which two eras of the same event cohort are collapsed

into one era

combinationWindow

(integer(1): 30)

Window of time two event cohorts need to overlap to be considered a combina-

tion treatment

minPostCombinationDuration

(integer(1): 30)

Minimum time an event era before or after a generated combination treatment

should last to be included in analysis

filter Treatments

(character(1): "First" ["first", "Changes", "all"])

Select first occurrence of ('First'); changes between ('Changes'); or all event

cohorts ('All').

maxPathLength (integer(1): 5)

Maximum number of steps included in treatment pathway

overlapMethod (character(1): "truncate") Method to decide how to deal with overlap that

is not significant enough for combination. "keep" will keep the dates as is. "truncate" truncates the first occurring event to the start date of the next event.

concatTargets (logical(1): TRUE) Should multiple target cohorts for the same person be con-

catenated or not?

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Value

(Andromeda::andromeda()) andromeda object containing non-sharable patient level data outcomes.

```
ableToRun <- all(</pre>
  require("CirceR", character.only = TRUE, quietly = TRUE),
  require("CDMConnector", character.only = TRUE, quietly = TRUE),
  require("TreatmentPatterns", character.only = TRUE, quietly = TRUE),
  require("dplyr", character.only = TRUE, quietly = TRUE)
)
if (ableToRun) {
  library(TreatmentPatterns)
  library(CDMConnector)
  library(dplyr)
  withr::local_envvar(
    R_USER_CACHE_DIR = tempfile(),
    EUNOMIA_DATA_FOLDER = Sys.getenv("EUNOMIA_DATA_FOLDER", unset = tempfile())
  )
  tryCatch(
    {
      if (Sys.getenv("skip_eunomia_download_test") != "TRUE") {
        CDMConnector::downloadEunomiaData(overwrite = TRUE)
      }
    },
    error = function(e) NA
  )
  con <- DBI::dbConnect(duckdb::duckdb(), dbdir = eunomiaDir())</pre>
  cdm <- cdmFromCon(con, cdmSchema = "main", writeSchema = "main")</pre>
  cohortSet <- readCohortSet(</pre>
    path = system.file(package = "TreatmentPatterns", "exampleCohorts")
  )
  cdm <- generateCohortSet(</pre>
    cdm = cdm,
    cohortSet = cohortSet,
    name = "cohort_table"
  cohorts <- cohortSet %>%
    # Remove 'cohort' and 'json' columns
    select(-"cohort", -"json") %>%
  mutate(type = c("event", "event", "event", "event", "event", "event", "event", "event", "target")) %>%
    rename(
      cohortId = "cohort_definition_id",
      cohortName = "cohort_name",
    select("cohortId", "cohortName", "type")
  outputEnv <- computePathways(</pre>
    cohorts = cohorts,
```

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```
cohortTableName = "cohort_table",
  cdm = cdm
)

Andromeda::close(outputEnv)
  DBI::dbDisconnect(con, shutdown = TRUE)
}
```

createSankeyDiagram

createSankeyDiagram

Description

Create sankey diagram.

Usage

```
createSankeyDiagram(
  treatmentPathways,
  groupCombinations = FALSE,
  colors = NULL,
  ...
)
```

Arguments

```
treatmentPathways

(data.frame())
The contents of the treatmentPathways.csv-file as a data.frame().

groupCombinations
(logical(1): FALSE)

TRUE Group all combination treatments in category "Combination".
FALSE Do not group combination treatments.

colors
(character(n)) Vector of hex color codes.
...
Paramaters for sankeyNetwork.
```

Value

(htmlwidget)

createSunburstPlot 7

```
) \label{lem:createSankeyDiagram(treatmentPathways)} createSankeyDiagram(treatmentPathways)
```

createSunburstPlot

createSunburstPlot

Description

New sunburstPlot function

Usage

```
createSunburstPlot(treatmentPathways, groupCombinations = FALSE, ...)
```

Arguments

```
treatmentPathways

(data.frame())

The contents of the treatmentPathways.csv-file as a data.frame().

groupCombinations

(logical(1): FALSE)

TRUE Group all combination treatments in category "Combination".

FALSE Do not group combination treatments.

... Paramaters for sunburst.
```

Value

```
(htmlwidget)
```

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```
executeTreatmentPatterns
```

executeTreatmentPatterns

Description

Compute treatment patterns according to the specified parameters within specified cohorts. For more customization, or investigation of patient level outcomes, you can run computePathways and export separately.

Usage

```
executeTreatmentPatterns(
  cohorts,
  cohortTableName,
  cdm = NULL,
  connectionDetails = NULL,
  cdmSchema = NULL,
  resultSchema = NULL,
  tempEmulationSchema = NULL,
  minEraDuration = 0,
  eraCollapseSize = 30,
  combinationWindow = 30,
  minCellCount = 5
)
```

Arguments

cohorts (data.frame())

Data frame containing the following columns and data types:

cohortId numeric(1) Cohort ID's of the cohorts to be used in the cohort table. **cohortName** character(1) Cohort names of the cohorts to be used in the cohort table.

type character(1) ["target", "event', "exit"] Cohort type, describing if the cohort is a target, event, or exit cohort

cohortTableName

(character(1))
Cohort table name.

cdm (CDMConnector::cdm_from_con(): NULL)

Optional; Ignores connectionDetails, cdmSchema, and resultSchema.

connectionDetails

(DatabaseConnector::createConnectionDetails(): NULL)

Optional; In congruence with ${\tt cdmSchema}$ and ${\tt resultSchema}$. Ignores ${\tt cdm}$.

cdmSchema (character(1): NULL)

Optional; In congruence with connectionDetails and resultSchema. Ignores

cdm.

resultSchema (character(1): NULL)

Optional; In congruence with connectionDetails and cdmSchema. Ignores

cdm.

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```
tempEmulationSchema
                  (character(1)) Schema to emulate temp tables.
minEraDuration (integer(1): 0)
                  Minimum time an event era should last to be included in analysis
eraCollapseSize
                  (integer(1): 30)
                  Window of time between which two eras of the same event cohort are collapsed
                  into one era
combinationWindow
                  (integer(1): 30)
                  Window of time two event cohorts need to overlap to be considered a combina-
                  tion treatment
minCellCount
                  (integer(1): 5)
                  Minimum count required per pathway. Censors data below x as <x. This mini-
                  mum value will carry over to the sankey diagram and sunburst plot.
```

Value

TreatmentPatternsResults

```
ableToRun <- all(
  require("CirceR", character.only = TRUE, quietly = TRUE),
  require("CDMConnector", character.only = TRUE, quietly = TRUE),
  require("TreatmentPatterns", character.only = TRUE, quietly = TRUE),
  require("dplyr", character.only = TRUE, quietly = TRUE)
)
if (require("CirceR", character.only = TRUE, quietly = TRUE)) {
  library(TreatmentPatterns)
  library(CDMConnector)
  library(dplyr)
  withr::local_envvar(
    R_USER_CACHE_DIR = tempfile(),
    EUNOMIA_DATA_FOLDER = Sys.getenv("EUNOMIA_DATA_FOLDER", unset = tempfile())
  )
  tryCatch(
    {
      if (Sys.getenv("skip_eunomia_download_test") != "TRUE") {
        CDMConnector::downloadEunomiaData(overwrite = TRUE)
      }
    },
    error = function(e) NA
  con <- DBI::dbConnect(duckdb::duckdb(), dbdir = eunomiaDir())</pre>
  cdm <- cdmFromCon(con, cdmSchema = "main", writeSchema = "main")</pre>
  cohortSet <- readCohortSet(</pre>
    path = system.file(package = "TreatmentPatterns", "exampleCohorts")
```

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```
cdm <- generateCohortSet(</pre>
  cdm = cdm,
  cohortSet = cohortSet,
  name = "cohort_table"
cohorts <- cohortSet %>%
  # Remove 'cohort' and 'json' columns
  select(-"cohort", -"json") %>%
mutate(type = c("event", "event", "event", "event", "event", "event", "event", "event", "target")) %>%
    cohortId = "cohort_definition_id",
    cohortName = "cohort_name",
  ) %>%
  select("cohortId", "cohortName", "type")
executeTreatmentPatterns(
  cohorts = cohorts,
  cohortTableName = "cohort_table",
  cdm = cdm
DBI::dbDisconnect(con, shutdown = TRUE)
```

export

export

Description

Export andromeda generated by computePathways object to sharable csv-files and/or a zip archive.

Usage

```
export(
  andromeda,
  outputPath = NULL,
  ageWindow = 10,
  minCellCount = 5,
  censorType = "minCellCount",
  archiveName = NULL,
  nonePaths = FALSE,
  stratify = FALSE
)
```

Arguments

andromeda (Andromeda::andromeda()) Andromeda object.

outputPath (character: NULL) Output path where to write output files to. When set to NULL

no files will be written, and only the results object is returned.

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ageWindow (integer(n): 10) Number of years to bin age groups into. It may also be a vector of integers. I.e. c(0, 18, 150) which will results in age group 0-18 which includes subjects < 19. And age group 18-150 which includes subjects > 18. minCellCount (integer(1): 5) Minimum count required per pathway. Censors data below x as <x. This minimum value will carry over to the sankey diagram and sunburst plot. censorType (character(1)) "minCellCount" Censors pathways <minCellCount to minCellCount. "remove" Censors pathways <minCellCount by removing them completely. "mean" Censors pathways <minCellCount to the mean of all frequencies below minCellCount (character(1): NULL) archiveName If not NULL adds the exported files to a ZIP-file with the specified archive name. (logical(1)) Should None paths be included? This will fetch all persons innonePaths cluded in the target cohort and assign them a "None" pathway. Significantly impacts performance. (logical(1)) Should pathways be stratified? This will perform pairwise stratistratify fication between age, sex, and index year. Significantly impacts performance.

Value

TreatmentPatternsResults object

```
ableToRun <- all(</pre>
  require("CirceR", character.only = TRUE, quietly = TRUE),
  require("CDMConnector", character.only = TRUE, quietly = TRUE),
  require("TreatmentPatterns", character.only = TRUE, quietly = TRUE),
  require("dplyr", character.only = TRUE, quietly = TRUE)
)
if (ableToRun) {
  library(TreatmentPatterns)
  library(CDMConnector)
  library(dplyr)
  withr::local_envvar(
    R_USER_CACHE_DIR = tempfile(),
    EUNOMIA_DATA_FOLDER = Sys.getenv("EUNOMIA_DATA_FOLDER", unset = tempfile())
  tryCatch({
    if (Sys.getenv("skip_eunomia_download_test") != "TRUE") {
      CDMConnector::downloadEunomiaData(overwrite = TRUE)
    }
  }, error = function(e) NA)
  con <- DBI::dbConnect(duckdb::duckdb(), dbdir = eunomiaDir())</pre>
  cdm <- cdmFromCon(con, cdmSchema = "main", writeSchema = "main")</pre>
```

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```
cohortSet <- readCohortSet(</pre>
  path = system.file(package = "TreatmentPatterns", "exampleCohorts")
cdm <- generateCohortSet(</pre>
 cdm = cdm,
 cohortSet = cohortSet,
 name = "cohort_table"
)
cohorts <- cohortSet %>%
  # Remove 'cohort' and 'json' columns
  select(-"cohort", -"json") %>%
mutate(type = c("event", "event", "event", "event", "event", "event", "event", "event", "target")) %>%
 rename(
   cohortId = "cohort_definition_id",
   cohortName = "cohort_name",
  ) %>%
  select("cohortId", "cohortName", "type")
outputEnv <- computePathways(</pre>
  cohorts = cohorts,
  cohortTableName = "cohort_table",
  cdm = cdm
results <- export(</pre>
  andromeda = outputEnv
Andromeda::close(outputEnv)
DBI::dbDisconnect(con, shutdown = TRUE)
```

exportPatientLevel

exportPatientLevel

Description

Exports patient-level files for custom data analysis.

Usage

```
exportPatientLevel(andromeda, outputPath)
```

Arguments

```
andromeda (Andromeda) Andromeda object from computePathways().

outputPath (character(1)) Directory where to write output files to.
```

Value

NULL

Examples

```
if (interactive()) {
  library(CDMConnector)
  library(DBI)
  library(TreatmentPatterns)
  con <- DBI::dbConnect(duckdb::duckdb(), dbdir = CDMConnector::eunomiaDir())</pre>
  cdm <- cdmFromCon(con, cdmSchema = "main", writeSchema = "main")</pre>
  cohortSet <- readCohortSet(</pre>
    path = system.file(package = "TreatmentPatterns", "exampleCohorts")
  cdm <- generateCohortSet(</pre>
    cdm = cdm,
    cohortSet = cohortSet,
    name = "cohort_table"
  )
  cohorts <- cohortSet %>%
    # Remove 'cohort' and 'json' columns
    select(-"cohort", -"json") %>%
  mutate(type = c("event", "event", "event", "event", "event", "event", "event", "target")) %>%
    rename(
      cohortId = "cohort_definition_id",
      cohortName = "cohort_name",
    select("cohortId", "cohortName", "type")
  outputEnv <- computePathways(</pre>
    cohorts = cohorts,
    cohortTableName = "cohort_table",
    cdm = cdm
  )
 exportPatientLevel(outputEnv, tempdir())
}
```

 ${\it get} Results Data Model Specifications \\ {\it get} Results Data Model Specifications$

Description

 $Gets\ the\ results\ data\ model\ specifications\ of\ {\tt TreatmentPatterns}.$

Usage

```
getResultsDataModelSpecifications()
```

Value

```
data.frame
```

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Examples

```
{
getResultsDataModelSpecifications()
}
```

ggSunburst

ggSunburst

Description

ggSunburst

Usage

```
ggSunburst(treatmentPathways, groupCombinations = FALSE, unit = "percent")
```

Arguments

```
treatmentPathways

(data.frame())
The contents of the treatmentPathways.csv-file as a data.frame().

groupCombinations
(logical(1): FALSE)

TRUE Group all combination treatments in category "Combination".
FALSE Do not group combination treatments.

unit (character(1)) Either "count" or "percent", to scale the plot to.
```

Value

```
(gg, ggplot)
```

plotEventDuration 15

plotEventDuration

plotEventDuration

Description

plotEventDuration

Usage

```
plotEventDuration(
  eventDurations,
  minCellCount = 0,
  treatmentGroups = "both",
  eventLines = NULL,
  includeOverall = TRUE
)
```

Arguments

```
eventDurations (data.frame) Contents of summaryEventDuration.csv file.

minCellCount (numeric(1): 0) Min Cell Count per event group.

treatmentGroups

(character(1): "both") "group": Only mono-, and combination-events. "individual":
Only individual (combination) events. "both": Both mono-, and combination-events, and individual (combination) events.

eventLines (numeric(n): NULL) Event lines to include, i.e. c(1, 2, 3) includes first (1), second (2), and third (3) lines of events. NULL will include all eventLines.

includeOverall (logical(1): TRUE) TRUE: Include an overall column with the eventLines.

FALSE: Exclude the overall column.
```

Value

ggplot

```
ableToRun <- all(
  require("CirceR", character.only = TRUE, quietly = TRUE),
  require("CDMConnector", character.only = TRUE, quietly = TRUE),
  require("TreatmentPatterns", character.only = TRUE, quietly = TRUE),
  require("dplyr", character.only = TRUE, quietly = TRUE)
)

if (ableToRun) {
  withr::local_envvar(
    R_USER_CACHE_DIR = tempfile(),
    EUNOMIA_DATA_FOLDER = Sys.getenv("EUNOMIA_DATA_FOLDER", unset = tempfile())
  )

tryCatch({
  if (Sys.getenv("skip_eunomia_download_test") != "TRUE") {</pre>
```

```
CDMConnector::downloadEunomiaData(overwrite = TRUE)
  }, error = function(e) NA)
  con <- DBI::dbConnect(duckdb::duckdb(), dbdir = eunomiaDir())</pre>
  cdm <- cdmFromCon(con, cdmSchema = "main", writeSchema = "main")</pre>
  cohortSet <- readCohortSet(</pre>
    path = system.file(package = "TreatmentPatterns", "exampleCohorts")
  cdm <- generateCohortSet(</pre>
    cdm = cdm,
    cohortSet = cohortSet,
    name = "cohort_table"
  )
  cohorts <- cohortSet %>%
    \mbox{\tt\#} Remove 'cohort' and 'json' columns
    select(-"cohort", -"json") %>%
  mutate(type = c("event", "event", "event", "event", "event", "event", "event", "event", "target")) %>%
    rename(
      cohortId = "cohort_definition_id",
      cohortName = "cohort_name",
    ) %>%
    select("cohortId", "cohortName", "type")
  outputEnv <- computePathways(</pre>
    cohorts = cohorts,
    cohortTableName = "cohort_table",
    cdm = cdm
  results <- export(outputEnv)</pre>
  plotEventDuration(
    eventDurations = results$summary_event_duration,
    minCellCount = 5,
    treatmentGroups = "group",
    eventLines = 1:4,
    includeOverall = FALSE
  Andromeda::close(outputEnv)
 DBI::dbDisconnect(con, shutdown = TRUE)
}
```

TreatmentPatternsResults

TreatmentPatternsResults Class

Description

Houses the results of a TreatmentPatterns analysis. Each field corresponds to a file. Plotting methods are provided.

Active bindings

```
attrition (data.frame)
metadata (data.frame)
treatment_pathways (data.frame)
summary_event_duration (data.frame)
counts_age (data.frame)
counts_sex (data.frame)
counts_year (data.frame)
cdm_source_info (data.frame)
analyses (data.frame)
arguments (list)
```

Methods

Public methods:

- TreatmentPatternsResults\$new()
- TreatmentPatternsResults\$saveAsZip()
- TreatmentPatternsResults\$saveAsCsv()
- TreatmentPatternsResults\$uploadResultsToDb()
- TreatmentPatternsResults\$load()
- TreatmentPatternsResults\$plotSunburst()
- TreatmentPatternsResults\$plotSankey()
- TreatmentPatternsResults\$plotEventDuration()
- TreatmentPatternsResults\$clone()

```
Method new(): Initializer method
```

```
Usage:
TreatmentPatternsResults$new(
  attrition = NULL,
  metadata = NULL,
  treatmentPathways = NULL,
  summaryEventDuration = NULL,
  countsAge = NULL,
  countsSex = NULL,
  countsYear = NULL,
  cdmSourceInfo = NULL,
  analyses = NULL,
  arguments = NULL,
  filePath = NULL
)
Arguments:
attrition (data.frame) attrition result.
metadata (data.frame)) metadata result.
treatmentPathways (data.frame)) treatmentPathways result.
summaryEventDuration (data.frame)) summaryEventDuration result.
countsAge (data.frame)) countsAge result.
```

```
countsSex (data.frame)) countsSex result.
 countsYear (data.frame)) countsYear result.
 cdmSourceInfo (data.frame) cdmSourceInfo result.
 analyses (data.frame) Analyses result.
 arguments (list) Named list of arguments used.
 filePath (character) File path to either a directory or zip-file, containing the csv-files.
Method saveAsZip(): Save the results as a zip-file.
 Usage:
 TreatmentPatternsResults$saveAsZip(path, name, verbose = TRUE)
 Arguments:
 path (character(1)) Path to write to.
 name (character(1)) File name.
 verbose (logical: TRUE) Verbose messaging.
 Returns: self
Method saveAsCsv(): Save the results as csv-files.
 Usage:
 TreatmentPatternsResults$saveAsCsv(path, verbose = TRUE)
 Arguments:
 path (character(1)) Path to write to.
 verbose (logical: TRUE) Verbose messaging.
 Returns: self
Method uploadResultsToDb(): Upload results to a resultsDatabase using ResultModelManager.
 Usage:
 TreatmentPatternsResults$uploadResultsToDb(
   connectionDetails,
   schema,
   prefix = "tp_",
   overwrite = TRUE,
   purgeSiteDataBeforeUploading = FALSE
 )
 Arguments:
 connection Details\ (Connection Details)\ Connection Details\ object\ from\ Database Connector.
 schema (character(1)) Schema to write tables to.
 prefix (character(1): "tp_") Table prefix.
 overwrite (logical(1): TRUE) Should tables be overwritten?
 purgeSiteDataBeforeUploading (logical: FALSE) Should site data be purged before up-
     loading?
 Returns: self
Method load(): Load data from files.
 Usage:
 TreatmentPatternsResults$load(filePath)
 Arguments:
```

```
filePath (character(1)) Path to a directory or zip-file containing the result csv-files.
 Returns: self
Method plotSunburst(): Wrapper for TreatmentPatterns::createSunburstPlot(), but
with data filtering step.
 Usage:
 TreatmentPatternsResults$plotSunburst(
   age = "all",
   sex = "all",
   indexYear = "all",
   nonePaths = FALSE,
 )
 Arguments:
 age (character(1)) Age group.
 sex (character(1)) Sex group.
 indexYear (character(1)) Index year group.
 nonePaths (logical(1)) Should None paths be included?
 ... Parameters for TreatmentPatterns::createSunburstPlot()
 Returns: htmlwidget
Method plotSankey(): Wrapper for TreatmentPatterns::createSankeyDiagram(), but
with data filtering step.
 Usage:
 TreatmentPatternsResults$plotSankey(
   age = "all",
   sex = "all",
   indexYear = "all",
   nonePaths = FALSE,
 )
 Arguments:
 age (character(1)) Age group.
 sex (character(1)) Sex group.
 indexYear (character(1)) Index year group.
 nonePaths (logical(1)) Should None paths be included?
 ... Parameters for TreatmentPatterns::createSankeyDiagram()
 Returns: htmlwidget
Method plotEventDuration(): Wrapper for TreatmentPatterns::plotEventDuration().
 Usage:
 TreatmentPatternsResults$plotEventDuration(...)
 Arguments:
 ... Parameters for TreatmentPatterns::plotEventDuration()
 Returns: ggplot
```

Method clone(): The objects of this class are cloneable with this method.

Usage:

TreatmentPatternsResults\$clone(deep = FALSE)

Arguments:

deep Whether to make a deep clone.

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