Package 'TocilizumabCvRisk'

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Type Package
Title Estimating the effect of tocilizumb compared to etanerceot on cardiovascular risk in rheumatoid arthritis
Version 0.0.1
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Description A new-user cohort study comparing tocilizumb to etanerceot on cardiovascular risk in rheumatoid arthritis.
Depends DatabaseConnector
Imports SqlRender, EmpiricalCalibration, Cyclops, FeatureExtraction, CohortMethod, rmarkdown, ggplot2, ff, ffbase, MethodEvaluation, EvidenceSynthesis, OhdsiRTools (>= 1.5.0)
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LazyData TRUE
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createAnalysesDetails Create the analyses details

Description

Create the analyses details

Usage

createAnalysesDetails(workFolder)

Arguments

workFolder

Name of local folder to place results; make sure to use forward slashes (/)

Details

This function creates files specifying the analyses that will be performed.

createCohorts

Create the exposure and outcome cohorts

Description

Create the exposure and outcome cohorts

Usage

```
createCohorts(connectionDetails, cdmDatabaseSchema, cohortDatabaseSchema,
  cohortTable = "tocilizumb", oracleTempSchema, outputFolder)
```

Arguments

connectionDetails

An object of type connection Details as created using the createConnection Details function in the DatabaseConnector package.

cdmDatabaseSchema

Schema name where your patient-level data in OMOP CDM format resides. Note that for SQL Server, this should include both the database and schema name, for example 'cdm_data.dbo'.

cohortDatabaseSchema

Schema name where intermediate data can be stored. You will need to have write priviliges in this schema. Note that for SQL Server, this should include both the database and schema name, for example 'cdm_data.dbo'.

cohortTable

The name of the table that will be created in the work database schema. This table will hold the exposure and outcome cohorts used in this study.

oracleTempSchema

Should be used in Oracle to specify a schema where the user has write priviliges for storing temporary tables.

outputFolder

Name of local folder to place results; make sure to use forward slashes (/)

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Details

This function will create the exposure and outcome cohorts following the definitions included in this package.

execute

Execute Loop Diuretics Cohort Study

Description

Execute Loop Diuretics Cohort Study

Usage

```
execute(connectionDetails, cdmDatabaseSchema,
  cohortDatabaseSchema = cdmDatabaseSchema, cohortTable = "tocilizumab",
  oracleTempSchema = cohortDatabaseSchema, outputFolder,
  createCohorts = TRUE, synthesizePositiveControls = TRUE,
  runAnalyses = TRUE, runDiagnostics = TRUE, maxCores = 4)
```

Arguments

connectionDetails

An object of type connectionDetails as created using the createConnectionDetails function in the DatabaseConnector package.

cdmDatabaseSchema

Schema name where your patient-level data in OMOP CDM format resides. Note that for SQL Server, this should include both the database and schema name, for example 'cdm_data.dbo'.

cohortDatabaseSchema

Schema name where intermediate data can be stored. You will need to have write priviliges in this schema. Note that for SQL Server, this should include both the database and schema name, for example 'cdm_data.dbo'.

cohortTable The name of the table that will be created in the work database schema. This

table will hold the exposure and outcome cohorts used in this study.

oracleTempSchema

Should be used in Oracle to specify a schema where the user has write priviliges for storing temporary tables.

 $output Folder \qquad Name \ of \ local \ folder \ to \ place \ results; \ make \ sure \ to \ use \ forward \ slashes \ (\prime). \ Do$

not use a folder on a network drive since this greatly impacts performance.

runAnalyses Perform the cohort method analyses?

maxCores How many parallel cores should be used? If more cores are made available this

can speed up the analyses.

packageResults Package the results for sharing?

Details

This function executes the TocilizumabCvRisk Study.

Examples

generateDiagnostics

Generate diagnostics

Description

Generate diagnostics

Usage

generateDiagnostics(outputFolder)

Arguments

outputFolder

Name of local folder where the results were generated; make sure to use forward slashes (/). Do not use a folder on a network drive since this greatly impacts performance.

Details

This function generates analyses diagnostics. Requires the study to be executed first.

```
synthesizePositiveControls
```

Synthesize positive controls

Description

Synthesize positive controls

Usage

```
synthesizePositiveControls(connectionDetails, cdmDatabaseSchema,
  cohortDatabaseSchema, cohortTable = "cohort", oracleTempSchema,
  outputFolder, maxCores = 1)
```

Arguments

connectionDetails

An object of type connectionDetails as created using the createConnectionDetails function in the DatabaseConnector package.

cdmDatabaseSchema

Schema name where your patient-level data in OMOP CDM format resides. Note that for SQL Server, this should include both the database and schema name, for example 'cdm_data.dbo'.

cohortDatabaseSchema

Schema name where intermediate data can be stored. You will need to have write priviliges in this schema. Note that for SQL Server, this should include both the database and schema name, for example 'cdm_data.dbo'.

cohortTable The name of the table that will be created in the work database schema. This

table will hold the exposure and outcome cohorts used in this study.

oracleTempSchema

Should be used in Oracle to specify a schema where the user has write priviliges

for storing temporary tables.

outputFolder Name of local folder to place results; make sure to use forward slashes (/)

maxCores How many parallel cores should be used? If more cores are made available this

can speed up the analyses.

Details

This function will synthesize positive controls based on the negative controls. The simulated outcomes will be added to the cohort table.

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