Package 'KeppraAngioedema'

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Title Keppra and the Risk of Angioedema
Version 0.1.1
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Description This study aims to evaluate angioedema risk in seizure disorder patients exposed to Keppra (levetiracetam) compared with those exposed to phenytoin sodium. A potential link between levetiracetam and angioedema has been recently raised by the Food and Drug Administration in their review of spontaneous reporting data. In this study, we will analyze data from a distributed network using the OHDSI CohortMethod package.
Depends R (>= 3.2.2), DatabaseConnector (>= 1.4.0)
Imports SqlRender (>= 1.1.3), FeatureExtraction (>= 1.0.0), CohortMethod (>= 2.0.2), EmpiricalCalibration, OhdsiSharing (>= 0.1.0), OhdsiRTools, RJDBC, Cyclops License Apache License 2.0
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LazyData true PowygonNeto 5 0 1
RoxygenNote 5.0.1
R topics documented:
createAnalysesDetails createCohorts createMetaData createTableAndFigures execute KeppraAngioedema packageResults submitResults

2 createCohorts

Index 7

createAnalysesDetails Create the analyses details

Description

Create the analyses details

Usage

createAnalysesDetails(outputFolder)

Arguments

outputFolder 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, workDatabaseSchema,
  studyCohortTable = "ohdsi_keppra_angioedema", oracleTempSchema,
  cdmVersion = 5, outputFolder)
```

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'.

workDatabaseSchema

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'.

studyCohortTable

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.

createMetaData 3

oracleTempSchema

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

for storing temporary tables.

cdmVersion Version of the CDM. Can be "4" or "5"

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

Details

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

createMetaData

Create metadata file

Description

Create metadata file

Usage

createMetaData(connectionDetails, cdmDatabaseSchema, exportFolder)

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'.

exportFolder The name of the folder where the metadata file should be created.

Details

Creates a file containing metadata about the source data (taken from the cdm_source table) and R package versions.

4 execute

createTableAndFigures Create tables and figures

Description

Create tables and figures

Usage

```
createTableAndFigures(exportFolder)
```

Arguments

exportFolder The path to the export folder containing the results.

Details

Creates tables and figures for viewing and interpreting the results. Requires that the execute function has completed first.

execute

Execute OHDSI Keppra and the Risk of Angioedema study

Description

Execute OHDSI Keppra and the Risk of Angioedema study

Usage

```
execute(connectionDetails, cdmDatabaseSchema,
  workDatabaseSchema = cdmDatabaseSchema,
  studyCohortTable = "ohdsi_keppra_angioedema",
  oracleTempSchema = workDatabaseSchema, cdmVersion = 5, outputFolder,
  createCohorts = TRUE, runAnalyses = TRUE, packageResults = 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'.

workDatabaseSchema

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'.

KeppraAngioedema 5

studyCohortTable

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.

cdmVersion Version of the CDM. Can be "4" or "5"

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

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

createCohorts Create the studyCohortTable table with the exposure and outcome cohorts?

runAnalyses Perform the cohort method analyses?

packageResults Package the results for sharing?

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

can speed up the analyses.

Details

This function executes the OHDSI Keppra and the Risk of Angioedema study.

Examples

KeppraAngioedema

CohortMethod

Description

CohortMethod

6 submitResults

packageResults Package the results for sharing with OHDSI researchers

Description

Package the results for sharing with OHDSI researchers

Usage

packageResults(connectionDetails, cdmDatabaseSchema, outputFolder)

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'.

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

Details

This function packages the results.

submitResults Submit the study results to the study coordinating center

Description

Submit the study results to the study coordinating center

Usage

```
submitResults(exportFolder, key, secret)
```

Arguments

exportFolder The path to the folder containing the StudyResults.zip file.

key The key string as provided by the study coordinator secret The secret string as provided by the study coordinator

Details

This will upload the file StudyResults.zip to the study coordinating center using Amazon S3. This requires an active internet connection.

Value

TRUE if the upload was successful.

Index