

Package ‘IncidencePrevalence’

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Title Estimate Incidence and Prevalence using the OMOP Common Data Model

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Description Calculate incidence and prevalence using data mapped to the Observational Medical Outcomes Partnership (OMOP) common data model. Incidence and prevalence can be estimated for the total population in a database or for a stratification cohort.

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benchmarkIncidencePrevalence

Run benchmark of incidence and prevalence analyses

Description

Run benchmark of incidence and prevalence analyses

Usage

```
benchmarkIncidencePrevalence(
  cdm,
  cohortDateRange = NULL,
  temporary = TRUE,
  returnParticipants = FALSE,
  nOutcomes = 1,
  prevOutcomes = 0.25,
  analysisType = "all",
  outputFolder = NULL,
  fileName = NULL
)
```

Arguments

cdm	A CDM reference object
cohortDateRange	Two dates. The first indicating the earliest cohort start date and the second indicating the latest possible cohort end date. If NULL or the first date is set as missing, the earliest observation_start_date in the observation_period table will be used for the former. If NULL or the second date is set as missing, the latest observation_end_date in the observation_period table will be used for the latter.
temporary	If TRUE, temporary tables will be used throughout. If FALSE, permanent tables will be created in the write_schema of the cdm using the write_prefix (if specified). Note existing permanent tables in the write schema starting with the write_prefix will be at risk of being dropped or overwritten.
returnParticipants	Whether to return participants (requires temporary to be FALSE)
nOutcomes	An integer specifying the number of outcomes to create in the denominator cohort
prevOutcomes	An array of integers for the prevalence of the outcomes in the population (in %). If the user wants all the outcomes with the same prevalence, they can also provide a single integer
analysisType	A string of the following: "all", "only incidence", "only prevalence"
outputFolder	Folder to save results as CSV
fileName	Name given to CSV with results

Value

a tibble with time taken for different analyses

Examples

```
cdm <- mockIncidencePrevalenceRef(
  sampleSize = 10000,
  earliestObservationStartDate = as.Date("2010-01-01"),
  latestObservationStartDate = as.Date("2018-01-01")
)
timings <- IncidencePrevalence::benchmarkIncidencePrevalence(cdm)
```

bindIncidenceEstimates

Bind multiple incidence estimates into a single set of estimates

Description

Bind multiple incidence estimates into a single set of estimates

Usage

```
bindIncidenceEstimates(...)
```

Arguments

... Multiple incidence estimates, generated from estimateIncidence()

Value

Bound incidence estimates

Examples

```
cdm <- mockIncidencePrevalenceRef(sampleSize = 10000)
cdm <- generateDenominatorCohortSet(
  cdm = cdm, name = "denominator"
)
inc1 <- estimateIncidence(
  cdm = cdm,
  denominatorTable = "denominator",
  outcomeTable = "outcome"
)
inc2 <- estimateIncidence(
  cdm = cdm,
  denominatorTable = "denominator",
  outcomeTable = "outcome"
)
incCombined <- bindIncidenceEstimates(inc1, inc2)
```

bindPrevalenceEstimates

Bind multiple prevalence estimates into a single set of estimates

Description

Bind multiple prevalence estimates into a single set of estimates

Usage

```
bindPrevalenceEstimates(...)
```

Arguments

... Multiple prevalence estimates, generated from estimatePeriodPrevalence() or estimatePointPrevalence()

Value

Bound prevalence estimates

Examples

```
cdm <- mockIncidencePrevalenceRef(sampleSize = 10000)
cdm <- generateDenominatorCohortSet(
  cdm = cdm, name = "denominator"
)
prev1 <- estimatePeriodPrevalence(
  cdm = cdm,
  denominatorTable = "denominator",
  outcomeTable = "outcome"
)
prev2 <- estimatePointPrevalence(
  cdm = cdm,
  denominatorTable = "denominator",
  outcomeTable = "outcome"
)
prevCombined <- bindPrevalenceEstimates(prev1, prev2)
```

estimateIncidence	<i>Collect population incidence estimates</i>
-------------------	-----------------------------------------------

Description

Collect population incidence estimates

Usage

```
estimateIncidence(
  cdm,
  denominatorTable,
  outcomeTable,
  denominatorCohortId = NULL,
  outcomeCohortId = NULL,
  interval = "years",
  completeDatabaseIntervals = TRUE,
  outcomeWashout = Inf,
  repeatedEvents = FALSE,
  minCellCount = 5,
  temporary = TRUE,
  returnParticipants = FALSE
)
```

Arguments

cdm	A CDM reference object
denominatorTable	A cohort table with a set of denominator cohorts (for example, created using the generateDenominatorCohortSet() function).
outcomeTable	A cohort table in the cdm reference containing a set of outcome cohorts.
denominatorCohortId	The cohort definition ids of the denominator cohorts of interest. If NULL all cohorts will be considered in the analysis.
outcomeCohortId	The cohort definition ids of the outcome cohorts of interest. If NULL all cohorts will be considered in the analysis.
interval	Time intervals over which incidence is estimated. Can be "weeks", "months", "quarters", "years", or "overall". ISO weeks will be used for weeks. Calendar months, quarters, or years can be used, or an overall estimate for the entire time period observed (from earliest cohort start to last cohort end) can also be estimated. If more than one option is chosen then results will be estimated for each chosen interval.
completeDatabaseIntervals	TRUE/ FALSE. Where TRUE, incidence will only be estimated for those intervals where the database captures all the interval (based on the earliest and latest observation period start dates, respectively).
outcomeWashout	The number of days used for a 'washout' period between the end of one outcome and an individual starting to contribute time at risk. If Inf, no time can be contributed after an event has occurred (whether during the study period or if occurring beforehand).
repeatedEvents	TRUE/ FALSE. If TRUE, an individual will be able to contribute multiple events during the study period (time while they are present in an outcome cohort and any subsequent washout will be excluded). If FALSE, an individual will only contribute time up to their first event during the study period.
minCellCount	The minimum number of events to reported, below which results will be obscured. If 0, all results will be reported.
temporary	If TRUE, temporary tables will be used throughout. If FALSE, permanent tables will be created in the write_schema of the cdm using the write_prefix (if specified). Note existing permanent tables in the write schema starting with the write_prefix will be at risk of being dropped or overwritten.
returnParticipants	Either TRUE or FALSE. If TRUE references to participants from the analysis will be returned allowing for further analysis. Note, if using permanent tables and returnParticipants is TRUE, one table per analysis will be kept in the cdm write schema.

Value

Incidence estimates

Examples

```
cdm <- mockIncidencePrevalenceRef(sampleSize = 10000)
cdm <- generateDenominatorCohortSet(
  cdm = cdm, name = "denominator",
  cohortDateRange = c(as.Date("2008-01-01"), as.Date("2018-01-01"))
)
inc <- estimateIncidence(
  cdm = cdm,
  denominatorTable = "denominator",
  outcomeTable = "outcome"
)
```

estimatePeriodPrevalence
Estimate period prevalence

Description

Estimate period prevalence

Usage

```
estimatePeriodPrevalence(
  cdm,
  denominatorTable,
  outcomeTable,
  denominatorCohortId = NULL,
  outcomeCohortId = NULL,
  outcomeLookbackDays = 0,
  interval = "years",
  completeDatabaseIntervals = TRUE,
  fullContribution = FALSE,
  minCellCount = 5,
  temporary = TRUE,
  returnParticipants = FALSE
)
```

Arguments

cdm	A CDM reference object
denominatorTable	A cohort table with a set of denominator cohorts (for example, created using the generateDenominatorCohortSet() function).
outcomeTable	A cohort table in the cdm reference containing a set of outcome cohorts.

denominatorCohortId	The cohort definition ids of the denominator cohorts of interest. If NULL all cohorts will be considered in the analysis.
outcomeCohortId	The cohort definition ids of the outcome cohorts of interest. If NULL all cohorts will be considered in the analysis.
outcomeLookbackDays	Days lookback when considering an outcome as prevalent. If NULL any prior outcome will be considered as prevalent. If 0, only ongoing outcomes will be considered as prevalent.
interval	Time intervals over which period prevalence is estimated. This can be "weeks", "months", "quarters", "years", or "overall". ISO weeks will be used for weeks. Calendar months, quarters, or years can be used as the period. If more than one option is chosen then results will be estimated for each chosen interval.
completeDatabaseIntervals	TRUE/ FALSE. Where TRUE, prevalence will only be estimated for those intervals where the database captures all the interval (based on the earliest and latest observation period start dates, respectively).
fullContribution	TRUE/ FALSE. Where TRUE, individuals will only be included if they in the database for the entire interval of interest. If FALSE they are only required to present for one day of the interval in order to contribute.
minCellCount	Minimum number of events to report- results lower than this will be obscured. If NULL all results will be reported.
temporary	If TRUE, temporary tables will be used throughout. If FALSE, permanent tables will be created in the write_schema of the cdm using the write_prefix (if specified). Note existing permanent tables in the write schema starting with the write_prefix will be at risk of being dropped or overwritten.
returnParticipants	Either TRUE or FALSE. If TRUE references to participants from the analysis will be returned allowing for further analysis. Note, if using permanent tables and returnParticipants is TRUE, one table per analysis will be kept in the cdm write schema.

Value

Period prevalence estimates

Examples

```

cdm <- mockIncidencePrevalenceRef(sampleSize = 10000)
cdm <- generateDenominatorCohortSet(
  cdm = cdm, name = "denominator",
  cohortDateRange = c(as.Date("2008-01-01"), as.Date("2018-01-01"))
)
estimatePeriodPrevalence(
  cdm = cdm,

```



```

denominatorTable = "denominator",
outcomeTable = "outcome",
interval = "months"
)

```

estimatePointPrevalence

Estimate point prevalence

Description

Estimate point prevalence

Usage

```

estimatePointPrevalence(
  cdm,
  denominatorTable,
  outcomeTable,
  denominatorCohortId = NULL,
  outcomeCohortId = NULL,
  outcomeLookbackDays = 0,
  interval = "years",
  timePoint = "start",
  minCellCount = 5,
  temporary = TRUE,
  returnParticipants = FALSE
)

```

Arguments

cdm	A CDM reference object
denominatorTable	A cohort table with a set of denominator cohorts (for example, created using the generateDenominatorCohortSet() function).
outcomeTable	A cohort table in the cdm reference containing a set of outcome cohorts.
denominatorCohortId	The cohort definition ids of the denominator cohorts of interest. If NULL all cohorts will be considered in the analysis.
outcomeCohortId	The cohort definition ids of the outcome cohorts of interest. If NULL all cohorts will be considered in the analysis.
outcomeLookbackDays	Days lookback when considering an outcome as prevalent. If NULL any prior outcome will be considered as prevalent. If 0, only ongoing outcomes will be considered as prevalent.

interval	Time intervals over which period prevalence is estimated. Can be "weeks", "months", "quarters", or "years". ISO weeks will be used for weeks. Calendar months, quarters, or years can be used as the period. If more than one option is chosen then results will be estimated for each chosen interval.
timePoint	where to compute the point prevalence
minCellCount	Minimum number of events to report- results lower than this will be obscured. If NULL all results will be reported.
temporary	If TRUE, temporary tables will be used throughout. If FALSE, permanent tables will be created in the write_schema of the cdm using the write_prefix (if specified). Note existing permanent tables in the write schema starting with the write_prefix will be at risk of being dropped or overwritten.
returnParticipants	Either TRUE or FALSE. If TRUE references to participants from the analysis will be returned allowing for further analysis. Note, if using permanent tables and returnParticipants is TRUE, one table per analysis will be kept in the cdm write schema.

Value

Point prevalence estimates

Examples

```

cdm <- mockIncidencePrevalenceRef(sampleSize = 10000)
cdm <- generateDenominatorCohortSet(
  cdm = cdm, name = "denominator",
  cohortDateRange = c(as.Date("2008-01-01"), as.Date("2018-01-01"))
)
estimatePointPrevalence(
  cdm = cdm,
  denominatorTable = "denominator",
  outcomeTable = "outcome",
  interval = "months"
)

```

exportIncidencePrevalenceResults

Export IncidencePrevalence results

Description

Export IncidencePrevalence results

Usage

```
exportIncidencePrevalenceResults(resultList, zipName, outputFolder)
```

Arguments

resultList	Named list with results from estimateIncidence, estimatePointPrevalence, or estimatePeriodPrevalence
zipName	name to give zip folder
outputFolder	directory to save zip folder containing results as a set of CSV files

Value

zip folder of results saved in the outputFolder

Examples

```
cdm <- mockIncidencePrevalenceRef(sampleSize = 10000)
cdm <- generateDenominatorCohortSet(
  cdm = cdm, name = "denominator"
)
prev <- estimatePointPrevalence(
  cdm = cdm,
  denominatorTable = "denominator",
  outcomeTable = "outcome"
)
exportIncidencePrevalenceResults(
  resultList = list("prevalence" = prev),
  zipName = "test",
  outputFolder = tempdir()
)
```

generateDenominatorCohortSet

Identify a set of denominator populations

Description

generateDenominatorCohortSet() creates a set of cohorts that can be used for the denominator population in analyses of incidence, using estimateIncidence(), or prevalence, using estimatePointPrevalence() or estimatePeriodPrevalence().

Usage

```
generateDenominatorCohortSet(
  cdm,
  name = "denominator",
  cohortDateRange = NULL,
  ageGroup = list(c(0, 150)),
  sex = "Both",
```

```

daysPriorHistory = 0,
requirementInteractions = TRUE,
strataTable = NULL,
strataCohortId = NULL,
closedCohort = FALSE,
temporary = TRUE
)

```

Arguments

<code>cdm</code>	A CDM reference object
<code>name</code>	Name of the cohort table to be created.
<code>cohortDateRange</code>	Two dates. The first indicating the earliest cohort start date and the second indicating the latest possible cohort end date. If NULL or the first date is set as missing, the earliest <code>observation_start_date</code> in the <code>observation_period</code> table will be used for the former. If NULL or the second date is set as missing, the latest <code>observation_end_date</code> in the <code>observation_period</code> table will be used for the latter.
<code>ageGroup</code>	A list of age groups for which cohorts will be generated. A value of <code>list(c(0, 17), c(18, 30))</code> would, for example, lead to the creation of cohorts for those aged from 0 to 17 (up to the day before their 18th birthday), and from 18 (starting the day of their 18th birthday) to 30 (up to the day before their 31st birthday).
<code>sex</code>	Sex of the cohorts. This can be one or more of: "Male", "Female", or "Both".
<code>daysPriorHistory</code>	The number of days of prior history observed in the database required for an individual to start contributing time in a cohort.
<code>requirementInteractions</code>	If TRUE, cohorts will be created for all combinations of <code>ageGroup</code> , <code>sex</code> , and <code>daysPriorHistory</code> . If FALSE, only the first value specified for the other factors will be used. Consequently, order of values matters when <code>requirementInteractions</code> is FALSE.
<code>strataTable</code>	A cohort table in the <code>cdm</code> reference to use to limit cohort entry and exit (with individuals only contributing to a cohort when they are contributing to the cohort in the strata table).
<code>strataCohortId</code>	The cohort definition id for the cohort of interest in the strata table. If <code>strataTable</code> is specified, a single <code>strataCohortId</code> must also be specified.
<code>closedCohort</code>	If TRUE, a closed cohort will be defined where only those individuals satisfying eligibility criteria on the start date given in <code>cohortDateRange</code> are included.
<code>temporary</code>	If TRUE, temporary tables will be used throughout. If FALSE, permanent tables will be created in the <code>write_schema</code> of the <code>cdm</code> using the <code>write_prefix</code> (if specified). Note existing permanent tables in the write schema starting with the <code>write_prefix</code> will be at risk of being dropped or overwritten.

Value

A cohort reference

Examples

```
cdm <- mockIncidencePrevalenceRef(sampleSize = 10000)
cdm$denominator <- generateDenominatorCohortSet(
  cdm = cdm,
  cohortDateRange = as.Date(c("2008-01-01", "2018-01-01"))
)
```

incidenceAttrition	<i>Attrition associated with an incidence analysis</i>
--------------------	--------------------------------------------------------

Description

Attrition associated with an incidence analysis

Usage

```
incidenceAttrition(result)
```

Arguments

result Result for which to get attrition

Value

tibble with counts and reasons for attrition.

Examples

```
cdm <- mockIncidencePrevalenceRef(sampleSize = 200)
cdm <- generateDenominatorCohortSet(cdm, name = "denominator")
inc <- estimateIncidence(
  cdm = cdm,
  denominatorTable = "denominator",
  outcomeTable = "outcome",
  interval = "overall"
)
incidenceAttrition(inc)
```

incidenceSet	<i>Settings associated with an incidence analysis</i>
--------------	-------------------------------------------------------

Description

Settings associated with an incidence analysis

Usage

```
incidenceSet(result)
```

Arguments

result	Result for which to get settings
--------	----------------------------------

Value

tibble with settings used when estimating incidence

Examples

```
cdm <- mockIncidencePrevalenceRef(sampleSize = 200)
cdm <- generateDenominatorCohortSet(cdm, name = "denominator")
inc <- estimateIncidence(
  cdm = cdm,
  denominatorTable = "denominator",
  outcomeTable = "outcome",
  interval = "overall"
)
incidenceSet(inc)
```

mockIncidencePrevalenceRef

Generate example subset of the OMOP CDM for estimating incidence and prevalence

Description

Generate example subset of the OMOP CDM for estimating incidence and prevalence

Usage

```

mockIncidencePrevalenceRef(
  personTable = NULL,
  observationPeriodTable = NULL,
  strataTable = NULL,
  outcomeTable = NULL,
  sampleSize = 1,
  outPre = 1,
  seed = 444,
  ageBeta = NULL,
  genderBeta = NULL,
  intercept = NULL,
  earliestDateOfBirth = NULL,
  latestDateOfBirth = NULL,
  earliestObservationStartDate = NULL,
  latestObservationStartDate = NULL,
  minDaysToObservationEnd = NULL,
  maxDaysToObservationEnd = NULL,
  minOutcomeDays = 1,
  maxOutcomeDays = 10,
  maxOutcomes = 1
)

```

Arguments

personTable	A tibble in the format of the person table.
observationPeriodTable	A tibble in the format of the observation period table.
strataTable	A tibble in the format of a cohort table which can be used for stratification
outcomeTable	A tibble in the format of a cohort table which can be used for outcomes
sampleSize	The number of unique patients.
outPre	The fraction of patients with an event.
seed	The seed for simulating the data set. Use the same seed to get same data set.
ageBeta	The beta for the standardised age in a logistic regression outcome model.
genderBeta	The beta for the gender flag in a logistic regression outcome model.
intercept	The beta for the intercept in a logistic regression outcome model.
earliestDateOfBirth	The earliest date of birth of a patient in person table.
latestDateOfBirth	The latest date of birth of a patient in person table.
earliestObservationStartDate	The earliest observation start date for patient format.
latestObservationStartDate	The latest observation start date for patient format.

`minDaysToObservationEnd` The minimum number of days of the observational integer.

`maxDaysToObservationEnd` The maximum number of days of the observation period integer.

`minOutcomeDays` The minimum number of days of the outcome period default set to 1.

`maxOutcomeDays` The maximum number of days of the outcome period default set to 10.

`maxOutcomes` The maximum possible number of outcomes per person can have default set to 1.

Value

A cdm reference to a duckdb database with mock data.

Examples

```
cdm <- mockIncidencePrevalenceRef(sampleSize = 100)
cdm
```

participants	<i>Participants contributing to an analysis</i>
--------------	-------------------------------------------------

Description

Participants contributing to an analysis

Usage

```
participants(result, analysisId)
```

Arguments

`result` Result object

`analysisId` ID of a specific analysis to return participants for

Value

References to tables with the study participants contributing to a given analysis

Examples

```
cdm <- mockIncidencePrevalenceRef(sampleSize = 200)
cdm <- generateDenominatorCohortSet(cdm, name = "denominator")
incidence <- estimateIncidence(
  cdm = cdm,
  denominatorTable = "denominator",
  outcomeTable = "outcome",
  interval = "overall"
)
participants(result = incidence, analysisId = 1)
```

plotIncidence	<i>Plot incidence results</i>
---------------	-------------------------------

Description

Plot incidence results

Usage

```
plotIncidence(
  result,
  x = "incidence_start_date",
  ylim = c(0, NA),
  ribbon = TRUE,
  facet = NULL,
  colour = NULL,
  colour_name = NULL
)
```

Arguments

result	Incidence results
x	Variable to plot on x axis
ylim	Limits for the Y axis
ribbon	If TRUE, the plot will join points using a ribbon
facet	Variables to use for facets
colour	Variables to use for colours
colour_name	Colour legend name

Value

A ggplot with the incidence results plotted

Examples

```

cdm <- mockIncidencePrevalenceRef(sampleSize = 10000)
cdm <- generateDenominatorCohortSet(
  cdm = cdm, name = "denominator",
  cohortDateRange = c(as.Date("2008-01-01"), as.Date("2018-01-01"))
)
inc <- estimateIncidence(
  cdm = cdm,
  denominatorTable = "denominator",
  outcomeTable = "outcome"
)
plotIncidence(inc)

```

plotPrevalence

Plot prevalence results

Description

Plot prevalence results

Usage

```

plotPrevalence(
  result,
  x = "prevalence_start_date",
  ylim = c(0, NA),
  ribbon = TRUE,
  facet = NULL,
  colour = NULL,
  colour_name = NULL
)

```

Arguments

result	Prevalence results
x	Variable to plot on x axis
ylim	Limits for the Y axis
ribbon	If TRUE, the plot will join points using a ribbon
facet	Variables to use for facets
colour	Variables to use for colours
colour_name	Colour legend name

Value

A ggplot with the prevalence results plotted

Examples

```
cdm <- mockIncidencePrevalenceRef(sampleSize = 10000)
cdm <- generateDenominatorCohortSet(
  cdm = cdm, name = "denominator",
  cohortDateRange = c(as.Date("2014-01-01"), as.Date("2018-01-01"))
)
prev <- estimatePointPrevalence(
  cdm = cdm,
  denominatorTable = "denominator",
  outcomeTable = "outcome"
)
plotPrevalence(prev)
```

prevalenceAttrition *Attrition associated with an prevalence analysis*

Description

Attrition associated with an prevalence analysis

Usage

```
prevalenceAttrition(result)
```

Arguments

result Result for which to get attrition

Value

tibble with counts and reasons for attrition.

Examples

```
cdm <- mockIncidencePrevalenceRef(sampleSize = 200)
cdm <- generateDenominatorCohortSet(cdm, name = "denominator")
prev <- estimatePointPrevalence(
  cdm = cdm,
  denominatorTable = "denominator",
  outcomeTable = "outcome"
)
prevalenceAttrition(prev)
```

prevalenceSet	<i>Settings associated with a prevalence analysis</i>
---------------	-------------------------------------------------------

Description

Settings associated with a prevalence analysis

Usage

```
prevalenceSet(result)
```

Arguments

result Result for which to get settings

Value

tibble with settings used when estimating prevalence

Examples

```
cdm <- mockIncidencePrevalenceRef(sampleSize = 200)
cdm <- generateDenominatorCohortSet(cdm, name = "denominator")
prev <- estimatePointPrevalence(
  cdm = cdm,
  denominatorTable = "denominator",
  outcomeTable = "outcome"
)
prevalenceSet(prev)
```

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