Package ‘IncidencePrevalence’

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Title Estimate Incidence and Prevalence using the OMOP Common Data Model

Version 0.4.0

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.

Encoding UTF-8

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benchmarkIncidencePrevalence

Run benchmark of incidence and prevalence analyses

Description

Run benchmark of incidence and prevalence analyses

Usage

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

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Repository  CRAN
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bindIncidenceEstimates

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

```r
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
bindPrevalenceEstimates

**Bind multiple prevalence estimates into a single set of estimates**

**Description**

Bind multiple prevalence estimates into a single set of estimates

**Usage**

```r
text <- bindPrevalenceEstimates(...)```

**Arguments**

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

**Examples**

```r
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)
```
estimateIncidence

Value

Bound prevalence estimates

Examples

```r
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  Collect population incidence estimates

Description

Collect population incidence estimates

Usage

```r
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
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.  

Examples

```r
  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"
  )
```
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,
**estimatePointPrevalence**

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

---

**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

```r
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**

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

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", zipName = "test", outputFolder = tempdir())

Note: The usage example shows how to call the function with the specified arguments.
generateDenominatorCohortSet

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

Arguments

cdm | A CDM reference object
name | Name of the cohort table to be created.
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.
ageGroup | A list of age groups for which cohorts will be generated. A value of list(c(0,17), c(18,30)) 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).
sex | Sex of the cohorts. This can be one or more of: "Male", "Female", or "Both".
daysPriorHistory | The number of days of prior history observed in the database required for an individual to start contributing time in a cohort.
requirementInteractions | If TRUE, cohorts will be created for all combinations of ageGroup, sex, and daysPriorHistory. If FALSE, only the first value specified for the other factors will be used. Consequently, order of values matters when requirementInteractions is FALSE.
strataTable | A cohort table in the cdm 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).
strataCohortId | The cohort definition id for the cohort of interest in the strata table. If strataTable is specified, a single strataCohortId must also be specified.
strataRequirementsAtEntry | If TRUE, individuals will only be included if they satisfy time varying requirements on their strata cohort start date. If FALSE, individuals will enter the denominator cohort once they satisfy requirements.
closedCohort | If TRUE, a closed cohort will be defined where only those individuals satisfying eligibility criteria on the start date given in cohortDateRange are included.
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.
incidenceAttrition

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  Attrition associated with an incidence analysis

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  

**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**

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

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.
participants

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

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

<table>
<thead>
<tr>
<th>participants</th>
<th>Participants contributing to an analysis</th>
</tr>
</thead>
</table>

Description

Participants contributing to an analysis

Usage

```r
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  
Plot incidence results

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

```r
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)
```

### Description

Plot prevalence results

### Usage

```r
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 a prevalence analysis

Description

Attrition associated with a 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  

*Settings associated with a prevalence analysis*

**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**

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