

Package ‘CohortCosts’

August 30, 2026

Title Direct Medical Cost Extraction and Health Economics Costing on OMOP CDM

Version 0.6.1

Description Links polymorphic Observational Medical Outcomes Partnership (OMOP) COST records to clinical events and tracks medical expenditures, unit cost tariffs, and healthcare price indices for OMOP Common Data Model (CDM) cohorts following DARWIN EU standards.

License MIT + file LICENSE

Copyright IOMED, S.L.

URL <https://www.iomed.health/>, <https://github.com/iomedhealth/omopHeor>

BugReports <https://github.com/iomedhealth/omopHeor/issues>

Depends R (>= 4.1.0)

Imports CDMConnector (>= 1.4.0), omopgenerics (>= 0.3.0), dbplyr (>= 2.4.0), dplyr (>= 1.1.0), ggplot2, rlang, cli, glue

Suggests DBI, tibble, gt, PatientProfiles (>= 1.2.0), visOmopResults, duckdb, testthat (>= 3.0.0), withr

Config/testthat/edition 3

Config/roxygen2/version 8.1.0

Encoding UTF-8

NeedsCompilation no

Author Gabriel Maeztu [aut, cre]

Maintainer Gabriel Maeztu <gabriel@iomed.health>

Repository CRAN

Date/Publication 2026-08-30 09:00:07 UTC

Contents

addCosts	2
plotCosts	3
summariseCosts	3
tableCosts	4

addCosts	<i>Add Direct Medical Costs to a Cohort</i>
----------	---

Description

Add Direct Medical Costs to a Cohort

Usage

```
addCosts(  
  x,  
  indexDate = "cohort_start_date",  
  censorDate = NULL,  
  window = list(c(-365, -1), c(0, 365)),  
  costField = "total_paid",  
  domains = c("Inpatient", "Outpatient", "Drug", "Procedure"),  
  nameStyle = "cost_{domain}_{window_name}",  
  name = NULL  
)
```

Arguments

x	A cohort table or cdm_table.
indexDate	Date variable in x anchoring the observation window. Default: "cohort_start_date".
censorDate	Optional date variable in x to censor observation.
window	A named or unnamed list of 2-element numeric vectors. Default: list(c(-365, -1), c(0, 365)).
costField	Column name in cost table to aggregate. Default: "total_paid".
domains	Clinical domains to extract. Default: c("Inpatient", "Outpatient", "Drug", "Procedure").
nameStyle	Column naming pattern. Default: "cost_{domain}_{window_name}".
name	Name of the new table in the write schema. If NULL, a temporary table is returned.

Value

The cohort table x with added direct medical cost columns.

plotCosts	<i>Plot Summarised Direct Medical Costs</i>
-----------	---

Description

Plot Summarised Direct Medical Costs

Usage

```
plotCosts(result, costColumn = "cost_total", plotType = "barplot")
```

Arguments

result	A summarised_result object from summariseCosts().
costColumn	Cost column name pattern to plot. Default: "cost_total".
plotType	Visualization type: "barplot" or "boxplot". Default: "barplot".

Value

A ggplot2 visualization object.

summariseCosts	<i>Summarise Direct Medical Costs for a Cohort</i>
----------------	--

Description

Summarise Direct Medical Costs for a Cohort

Usage

```
summariseCosts(
  cohort,
  group = list("cohort_name"),
  strata = list(),
  costColumns = NULL,
  estimates = c("mean", "sd", "median", "q25", "q75", "min", "max")
)
```

Arguments

cohort	An enriched cohort table containing cost columns.
group	List of character vectors specifying grouping columns. Default: list("cohort_name").
strata	List of character vectors specifying stratification columns. Default: list().
costColumns	Character vector of cost columns to summarise. If NULL, selects all columns starting with cost_.
estimates	Summary estimators to compute. Default: c("mean", "sd", "median", "q25", "q75", "min", "max").

Value

An `omopgenerics::summarised_result` object.

Format Summarised Direct Costs as a Table

Description

Format Summarised Direct Costs as a Table

Usage

```
tableCosts(
  result,
  type = "gt",
  header = c("cdm_name", "cohort_name"),
  estimateName = c(N = "<count>", `Mean (SD)` = "<mean> (<sd>)", `Median (IQR)` =
    "<median> (<q25> - <q75>)", `Min - Max` = "<min> - <max>"),
  ...
)
```

Arguments

<code>result</code>	A <code>summarised_result</code> object from <code>summariseCosts()</code> .
<code>type</code>	Output table format: "gt", "flextable", or "tibble". Default: "gt".
<code>header</code>	Character vector of columns to include in the header. Default: <code>c("cdm_name", "cohort_name")</code> .
<code>estimateName</code>	Named character vector mapping estimate names.
<code>...</code>	Additional arguments passed to <code>visOmopResults::visOmopTable()</code> .

Value

A formatted table object (gt_tbl, flextable, or tibble).

Index

`addCosts`, [2](#)

`plotCosts`, [3](#)

`summariseCosts`, [3](#)

`tableCosts`, [4](#)