

Package ‘directAgeStd’

January 23, 2026

Type Package

Title Direct Age Standardisation with Confidence Intervals

Version 0.0.2

Description Provides tools to compute directly age-standardised rates using the 2013 European Standard Population. Includes variance estimation and 95% confidence intervals for population health applications. Functions are flexible to handle any grouping variable and age bands, allowing reproducible and automated analyses.

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Encoding UTF-8

RoxygenNote 7.3.3

LazyData true

Imports dplyr, rlang, magrittr, stats

Depends R (>= 3.5)

URL <https://github.com/JoeBlackford/directAgeStd/>

BugReports <https://github.com/JoeBlackford/directAgeStd/issues>

NeedsCompilation no

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Repository CRAN

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direct_age_standardise

Direct Age Standardisation with Confidence Intervals

Description

Computes directly age-standardised rates with 95% confidence intervals using the 2013 European Standard Population and Byar's method.

Usage

```
direct_age_standardise(
  data,
  var,
  ageband,
  observed,
  population,
  multiplier = 1000
)
```

Arguments

data	Dataframe with observed values and population
var	One or more grouping variables (quoted or unquoted)
ageband	Column specifying age bands
observed	Column with observed counts
population	Column with denominator population
multiplier	Scale for rates (default = 1,000)

Value

A tibble with directly standardised rates and 95% confidence intervals

Examples

```
example_data <- data.frame(
  variable = c("A", "A", "B", "B"),
  ageband = c("0-4", "5-9", "0-4", "5-9"),
  observed = c(10, 20, 15, 25),
  population = c(1000, 1200, 1100, 1300)
)

direct_age_standardise(
  data = example_data,
  var = "variable",
  ageband = "ageband",
  observed = "observed",
```

```
  population = "population"  
)
```

ref_population	<i>European Standard Population 2013 (abridged)</i>
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Description

A dataset containing abridged ESP 2013 standard population counts for use in age standardisation.

Usage

```
ref_population
```

Format

A data frame with 19 rows and 2 variables:

AgeBand Age group (character, e.g. "0-4", "5-9")

StdPopulation Standard population count for that age band

Source

Eurostat ESP 2013

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