

Package ‘directAgeStd’

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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

<code>data</code>	Dataframe with observed values and population
<code>var</code>	One or more grouping variables (quoted or unquoted)
<code>ageband</code>	Column specifying age bands
<code>observed</code>	Column with observed counts
<code>population</code>	Column with denominator population
<code>multiplier</code>	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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