

Package ‘childhoodmortality’

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Type Package

Title Calculating Childhood Mortality Rates

Version 0.3.0

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Depends R(>= 2.10.0)

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Description Calculates childhood (neonatal, postneonatal, infant, child, and under-five) mortality rates using Demographic and Health Survey (DHS) microdata. The 'childhoodmortality' package was developed in accordance to the methodology outlined in the "DHS Guide to Statistics" (Rutstein 2006, <http://dhsprogram.com/pubs/pdf/DHSG1/Guide_to_DHS_Statistics_29Oct2012_DHSG1.pdf>) Specifically, the package uses a synthetic cohort life table approach, combining mortality probabilities for age segments with actual cohort mortality experience into more common age segments. Standard errors for mortality estimates are computed using the jackknife repeated replication method outlined in the "Estimates of Sampling Errors" appendix of DHS Final Reports (DHS 2004, <<http://dhsprogram.com/pubs/pdf/FR175/19AppendixB.pdf>>). This methodology controls for sample design.

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Encoding UTF-8

LazyData true

Imports plyr, matrixStats, dplyr

RoxygenNote 6.0.1

Suggests knitr, rmarkdown

VignetteBuilder knitr

NeedsCompilation no

Repository CRAN

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R topics documented:

childhoodmortality	2
model_ipums_dhs_dataset	2

Index	4
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childhoodmortality	<i>Calculates childhood mortality</i>
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Description

calculates childhood mortality & SE's

Usage

```
childhoodmortality(data, grouping = "year", rate_type = "underfive")
```

Arguments

data	dataframe object containing DHS variables YEAR, PSU, PERWEIGHT, KID-DOBCMC, INTDATECMC, KIDAGEDIEDIMP, and grouping var.
grouping	This character string gives the variable name of the variable denoting groups.
rate_type	This character string gives the type of mortality rate to be calculated (neonatal, postneonatal, infant, child, under-five)

Examples

```
data("model_ipums_dhs_dataset")
underfive_mortality_rates <- childhoodmortality(
  model_ipums_dhs_dataset,
  grouping = "wealthq",
  rate_type = "underfive"
)
```

model_ipums_dhs_dataset	<i>Model DHS dataset</i>
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Description

A model open-use dataset created by the DHS program for users to become familiar with datasets without having to register for access.

Usage

model_ipums_dhs_dataset

Format

A data frame with 8348 rows and 9 variables:

KIDDOBCMC KIDDOBCMC (B3) reports the century month code for the date of birth of the child.

YEAR YEAR reports the year when the survey was fielded

PSU PSU (V021) is the variable indicating the primary sampling unit or PSU

PERWEIGHT PERWEIGHT (V005) is a weighting factor to produce representative estimates

KIDAGEDIEDIMP KIDAGEDIEDIMP (B7) reports the age of the child at death in months (including imputed ages)

INTDATECMC INTDATECMC (V008) reports century month code for the date on which the interview took place)

WEALTHQ WEALTHQ (V190) refers to the relative wealth of the household where the woman lives, divided into quintiles from the poorest (code 1) to the richest (code 5)) ...

Source

<https://www.dhsprogram.com/data/Model-Datasets.cfm>

Index

*Topic **datasets**

model_ipums_dhs_dataset, [2](#)

childhoodmortality, [2](#)

model_ipums_dhs_dataset, [2](#)