# Package

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data.agespecificfert Age-specific fertility rate

# Description

Dataset containing age-specific fertility rate by country, age range, year and gender

# Usage

```
data.agespecificfert
```

### **Format**

A data frame with 20580 observations on the following 8 variables.

```
country_code_numeric a numeric vector
country_code country code
country name of country
age_from starting age
age_to end age
year year
gender gender
value fertility rate
```

# Source

data.births 3

data.births

Number of Births

# Description

Dataset containing number of births by country, age range, year and gender

# Usage

data.births

### **Format**

A data frame with 14700 observations on the following 8 variables.

```
country_code_numeric a numeric vector
country_code country code
country name of country
age_from starting age
age_to end age
year year
gender gender
value number of births
```

### Source

Demographic data from the Vaccine Impact Modelling Consortium (VIMC)

data.birthsbymaternalage

Number of births by age of mother

# Description

Dataset with the number of births by maternal by country, year and gender

# Usage

data.birthsbymaternalage

```
A data frame with 20580 observations on the following 8 variables.
```

```
country_code_numeric a numeric vector
country_code country code
country name of country
age_from starting age
age_to end age
year year
gender gender
value number of births
```

### Source

Demographic data from the Vaccine Impact Modelling Consortium (VIMC)

```
data.birthsquinquennial
```

Number of births - quinquennial

# Description

Dataset containing number of births occuring every 5 years by country, age range, year and gender

# Usage

```
data.birthsquinquennial
```

# Format

A data frame with 2940 observations on the following 8 variables.

```
country_code_numeric a numeric vector
country_code country code
country name of country
age_from starting age
age_to end age
year year
gender gender
value number of births occuring every 5 years
```

#### **Source**

data.cecx\_5y\_prevalence

5-year prevalence of cervical cancer

# Description

A dataset containing the 5-year prevalence (proportion) of cervical cancer in 185 countries, as reported by IARC's Globocan 2018 database.

# Usage

data.cecx\_5y\_prevalence

### **Format**

A data table with 185 observations of 103 variables.

Country Country name

**0..100** Age 0-100

iso3 ISO3 country code

### **Details**

As per IARC definition – The (5-year) prevalence of a given cancer is the number of individuals within a defined population who have been diagnosed with that cancer (within 5 years) and who are still alive at a given point in time (i.e. the survivors).

# Source

https://gco.iarc.fr/today/online-analysis-table

data.centraldeathrateASMR

Central death rate

# Description

Dataset containing central death rate by country, age range, year and gender

# Usage

data.centraldeathrateASMR

6 data.crudebirthrate

### **Format**

A data frame with 55860 observations on the following 8 variables.

```
country_code_numeric a numeric vector
country_code country code
country name of country
age_from starting age
age_to end age
year year
gender gender
value central death rate
```

# Source

Demographic data from the Vaccine Impact Modelling Consortium (VIMC)

### **Description**

Dataset containing crude birth rate by country, age range, year and gender

### Usage

data.crudebirthrate

### **Format**

A data frame with 14700 observations on the following 8 variables.

```
country_code_numeric a numeric vector
country_code country code
country name of country
age_from starting age
age_to end age
year year
gender gender
value crude birth rate
```

# Source

data.crudedeathrate 7

data.crudedeathrate Crude death rate

### **Description**

Dataset containing crude death rate (CDR) by country, age range, year and gender

### Usage

data.crudedeathrate

### **Format**

A data frame with 14700 observations on the following 8 variables.

```
country_code_numeric a numeric vector
country_code country code
country name of country
age_from starting age
age_to end age
year year
gender gender
value crude death rate
```

### **Source**

Demographic data from the Vaccine Impact Modelling Consortium (VIMC)

data.deathsbyage

Number of deaths by age

# Description

Dataset containing number of deaths by country, age range, year and gender

### Usage

data.deathsbyage

### **Format**

A data frame with 58800 observations on the following 8 variables.

```
country_code_numeric a numeric vector
country_code country code
country name of country
age_from starting age
age_to end age
year year
gender gender
value number of deaths
```

8 data.Hib\_DALY

#### **Source**

Demographic data from the Vaccine Impact Modelling Consortium (VIMC)

data.growthrate

Growth rate

### **Description**

Dataset containing growth rate by country, age range, year and gender

### Usage

data.growthrate

### **Format**

A data frame with 2940 observations on the following 8 variables.

```
country_code_numeric a numeric vector
country_code country code
country name of country
age_from starting age
age_to end age
year year
gender gender
value growth rate
```

# Source

Demographic data from the Vaccine Impact Modelling Consortium (VIMC)

data.Hib\_DALY

Disability weights for Haemophilus influenzae type B

# Description

Dataset disability weights for Haemophilus influenzae type B by condition/sequelae

# Usage

data.Hib\_DALY

### **Format**

A data frame with 24 observations on the following 3 variables.

Disease disease

Condition condition/sequelae

GBD\_2015\_mean Mean disability weight

data.interpolatedpop 9

### **Source**

General Guidance for DALYs calculation VIMC with input from DOVE 2017-11-24 11:03:46

### **Description**

Dataset containing population - interpolated (1-year time and age) by country, age range, year and gender

### Usage

```
data.interpolatedpop
```

### **Format**

A data frame with 170480 observations on the following 8 variables.

```
country_code_numeric a numeric vector
country_code country code
country name of country
age_from starting age
age_to end age
year year
gender gender
value population interpolated 1-year time and age
```

# Source

Demographic data from the Vaccine Impact Modelling Consortium (VIMC)

data.lifeexpectancy Life expectancy at birth

# Description

Dataset containing life expectancy at birth by country, age range, year and gender

### Usage

```
data.lifeexpectancy
```

```
A data frame with 1470 observations on the following 8 variables.
```

```
country_code_numeric a numeric vector
country_code country code
country name of country
age_from starting age
age_to end age
year year
gender gender
value expected remaining years of life
```

### **Source**

Demographic data from the Vaccine Impact Modelling Consortium (VIMC)

```
data.neonatalmortality
```

Neonatal mortality rate

# Description

Dataset containing 28-day neonatal mortality rate by country, age range, year and gender

# Usage

```
data.neonatalmortality
```

### **Format**

A data frame with 14700 observations on the following 8 variables.

```
country_code_numeric a numeric vector
country_code country code
country name of country
age_from starting age
age_to end age
year year
gender gender
value 28-day neonatal mortality rate
```

#### **Source**

data.netmigration 11

data.netmigration Net migration rate

### **Description**

Dataset containing net migration rate by country, age range, year and gender

### Usage

```
data.netmigration
```

### **Format**

A data frame with 2940 observations on the following 8 variables.

```
country_code_numeric a numeric vector
country_code country code
country name of country
age_from starting age
age_to end age
year year
gender gender
value net migration rate
```

### **Source**

Demographic data from the Vaccine Impact Modelling Consortium (VIMC)

data.PCV\_DALY

Disability weights for Pneumococcus (Pneumococcal conjugate vaccine)

# Description

Dataset disability weights for PCV by condition/sequelae

### Usage

```
data.PCV_DALY
```

#### **Format**

A data frame with 27 observations on the following 3 variables.

Disease disease
Condition condition/sequelae
GBD\_2015\_mean Mean disability weight

### Source

General Guidance for DALYs calculation VIMC with input from DOVE 2017-11-24 11:03:46

12 data.quinquennialpop

data.pdeathbyage

Probability of dying by age

# Description

Dataset containing probability of dying by age by country, age range, year and gender

# Usage

data.pdeathbyage

### **Format**

A data frame with 52920 observations on the following 8 variables.

```
country_code_numeric a numeric vector
country_code country code
country name of country
age_from starting age
age_to end age
year year
gender gender
value probability of dying
```

### **Source**

Demographic data from the Vaccine Impact Modelling Consortium (VIMC)

data.quinquennialpop

Quinquennial population (5-year time and age)

# Description

Dataset containing population - quinquennial population (5-year time and age) by country, age range, year and gender

# Usage

data.quinquennialpop

```
A data frame with 71442 observations on the following 8 variables.
```

```
country_code_numeric a numeric vector
country_code country code
country name of country
age_from starting age
age_to end age
year year
gender gender
value population quinquennial 5-year time and age
```

#### **Source**

Demographic data from the Vaccine Impact Modelling Consortium (VIMC)

```
data.remainingyearsoflife
```

Expected remaining years of life

### **Description**

Dataset containing expected remaining years of life by country, age range, year and gender

# Usage

```
data.remainingyearsoflife
```

# Format

A data frame with 64680 observations on the following 8 variables.

```
country_code_numeric a numeric vector
country_code country code
country name of country
age_from starting age
age_to end age
year year
gender gender
value expected remaining years of life
```

#### **Source**

data.rotacases\_nonsevereD1

Event rates (cases) for Rotavirus D1 non-severe RVGE

### **Description**

Dataset containing event rates (cases) for rotavirus D1 for non-severe RVGE

### Usage

data.rotacases\_nonsevereD1

### **Format**

A data frame with 195 observations on the following 8 variables.

Country country

WHO region WHO region

WHO region 2 WHO region country code

**Income** income level

Age age

Mid mid

Low low

High high

### Source

Bilcke J. et al. Estimating the Incidence of Symptomatic Rotavirus Infections: A Systematic Review and Meta-Analysis. PLOS One, June 2009, Volume 4, Issue 6, e6060. Note: random effects model resulted in a global incidence estimate of 0.24 [0.17; 0.34] symptomatic RV infections per person year of observation for children below 2 years of age. Crudely extrapolating to children aged <5yrs, and assuming minimal incidence aged 2+yrs, gives an under-five incidence rate of 0.10 [0.07 - 0.14] or 10,000 [7,000 - 14,000] per 100,000 per year <5yrs. Severe incidence rates derived from Fischer-Walker (see source for severe RVGE incidence), were then subtracted to give non-severe RVGE incidence.

data.rotacases\_severeD2

Event rates (cases) for Rotavirus D2 severe RVGE

### **Description**

Dataset containing event rates (cases) for rotavirus D2 for severe RVGE

### Usage

data.rotacases\_severeD2

A data frame with 195 observations on the following 8 variables.

**Country** country

WHO region WHO region

WHO region 2 WHO region country code

**Income** income level

Age age

Mid mid

Low low

High high

#### **Source**

Fischer-Walker C. et al, Table 1: Global and regional burden of diarrhoea and pneumonia per year in children aged 0–4 years, by WHO region. Global burden of childhood pneumonia and diarrhoea. Lancet 2013; 381: 1405–16. Notes: Episodes per child per year <5yrs (2010) by WHO region were multiplied by the proportion of episodes that were severe by WHO region (approximately 2 by the rotavirus-positive proportion <5yrs by WHO region, reported among hospitalised diarrhoea cases in CHERG (Lanata C. et al, Global Causes of Diarrheal Disease Mortality in Children <5 Years of Age: A Systematic Review. PLOS One. September 2013, Volume 8, Issue 9, e72788). The uncertainty range only reflects uncertainty in the incidence of diarrhoea episodes.

data.rotadeaths\_severeD2

Event rates (deaths) for Rotavirus D2 severe RVGE

### Description

Dataset containing event rates (deaths) for rotavirus D2 for severe RVGE

### Usage

data.rotadeaths\_severeD2

### **Format**

A data frame with 195 observations on the following 8 variables.

Country country

WHO region WHO region

WHO region 2 WHO region country code

Income income level

Age age

Mid mid

Low low

High high

### **Source**

See Clark et al, TRIVAC, Vaccine, Appendix

data.rotahosps\_severeD2

Event rates (hospital) for Rotavirus D2 severe RVGE

# Description

Dataset containing event rates (hospitals) for rotavirus D2 for severe RVGE

# Usage

```
data.rotahosps_severeD2
```

### **Format**

A data frame with 195 observations on the following 8 variables.

Country country

WHO region WHO region

WHO region 2 WHO region country code

**Income** income level

Age age

Mid mid

Low low

High high

### **Source**

See Clark et al, TRIVAC, Vaccine, Appendix

data.rotavisits\_nonsevereD1

Event rates (visits) for Rotavirus D1 non-severe RVGE

# Description

Dataset containing event rates (visits) for rotavirus D1 for non-severe RVGE

# Usage

data.rotavisits\_nonsevereD1

A data frame with 195 observations on the following 8 variables.

Country country

WHO region WHO region

WHO region 2 WHO region country code

**Income** income level

Age age

Mid mid

Low low

High high

### Source

Assume 1 visit for every 2 non-severe cases

data.rotavisits\_severeD2

Event rates (visits) for Rotavirus D2 severe RVGE

### **Description**

Dataset containing event rates (visits) for rotavirus D2 for severe RVGE

### Usage

```
data.rotavisits_severeD2
```

#### **Format**

A data frame with 195 observations on the following 8 variables.

Country country

WHO region WHO region

WHO region 2 WHO region country code

**Income** income level

Age age

Mid mid

Low low

High high

### **Source**

Clark A et al, unpublished update of the IHME/MCEE/WHOCDC estimates. Median/Min/Max 2015 estimates were used or the estimate for the most recent pre-vax year (using WUENIC 15th July 2017).

18 data.sexratio

data.Rota\_DALY

Disability weights for Rotavirus

### **Description**

Dataset disability weights for Rotavirus by condition/sequelae

# Usage

```
data.Rota_DALY
```

# **Format**

A data frame with 3 observations on the following 3 variables.

Disease disease

Condition condition/sequelae

GBD\_2015\_mean Mean disability weight

### **Source**

General Guidance for DALYs calculation VIMC with input from DOVE 2017-11-24 11:03:46

data.sexratio

Sex ratio at birth

# Description

Dataset containing sex-ratio at birth by country, age range, year and gender

### Usage

```
data.sexratio
```

### Format

A data frame with 2940 observations on the following 8 variables.

```
country_code_numeric a numeric vector
country_code country code
country name of country
age_from starting age
age_to end age
year year
gender gender
value sex-ratio
```

### **Source**

data.survival

data.survival

Survivors from a birth-cohort of 100k

### **Description**

A data frame with 64680 observations on the following 8 variables.

### Usage

data.survival

#### **Format**

A data frame with 20580 observations on the following 8 variables.

```
country_code_numeric a numeric vector
country_code country code
country name of country
age_from starting age
age_to end age
year year
gender gender
value number of survivors
```

### Source

Demographic data from the Vaccine Impact Modelling Consortium (VIMC)

data.totaldeaths

Deaths in total

# Description

Dataset containing total number of deaths by country, age range, year and gender

### Usage

data.totaldeaths

### **Format**

A data frame with 14700 observations on the following 8 variables.

```
country_code_numeric a numeric vector
country_code country code
country name of country
age_from starting age
age_to end age
year year
gender gender
value number of deaths
```

20 data.totalpop

### **Source**

Demographic data from the Vaccine Impact Modelling Consortium (VIMC)

data.totalfert

Total fertility rate

# Description

Dataset containing total fertility rate by country, age range, year and gender

### Usage

data.totalfert

### **Format**

A data frame with 14700 observations on the following 8 variables.

```
country_code_numeric a numeric vector
country_code country code
country name of country
age_from starting age
age_to end age
year year
gender gender
value total fertility rate
```

# Source

Demographic data from the Vaccine Impact Modelling Consortium (VIMC)

data.totalpop

Total population

# Description

Dataset containing total population country, age range, year and gender

# Usage

data.totalpop

data.u1mortality 21

### **Format**

```
A data frame with 14798 observations on the following 8 variables.
```

```
country_code_numeric a numeric vector
country_code country code
country name of country
age_from starting age
age_to end age
year year
gender gender
value total population
```

### **Source**

Demographic data from the Vaccine Impact Modelling Consortium (VIMC)

data.u1mortality

Under 1 mortality rate

### **Description**

Dataset containing under 1 mortality rate by country, age range, year and gender

### Usage

```
data.u1mortality
```

### **Format**

A data frame with 14700 observations on the following 8 variables.

```
country_code_numeric a numeric vector
country_code country code
country name of country
age_from starting age
age_to end age
year year
gender gender
value under 1 mortality rate
```

### Source

data.u5mortality

Under 5 mortality rate

### **Description**

Dataset containing under 5 mortality rate by country, age range, year and gender

# Usage

```
data.u5mortality
```

### **Format**

A data frame with 20580 observations on the following 8 variables.

```
country_code_numeric a numeric vector
country_code country code
country name of country
age_from starting age
age_to end age
year year
gender gender
value fertility rate
```

### **Source**

Demographic data from the Vaccine Impact Modelling Consortium (VIMC)

```
data.vaccine_schedules
```

Disability weights for Haemophilus influenzae type B

# Description

Dataset containing disability weights for Haemophilus influenzae type B by condition/sequelae (UNIVAC model)

### Usage

```
data.vaccine_schedules
```

### **Format**

A data frame with 195 observations on the following 6 variables.

```
Country country
```

**BCG** BCG target age in weeks

DTP1 DTP1 target age in weeks

DTP2 DTP2 target age in weeks

**DTP3** DTP3 target age in weeks

Meas1 Measles target age in weeks

# Source

www.who.int/immunization/monitoring\_surveillance/data/schedule\_data.xls

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