Child height and weight measurements for all data from three studies at one year of age.

The data is called days_365.

Description

A subset of measurements from the three studies.

The source of this data is < https://github.com/stefvanbuuren/brokenstick, https://github.com/hafen/hbgd, and https://clinepidb.org/ce/app/record/dataset/DS_5c41b87221 >

Data format

A data frame with columns:

variable	class	description
subjid	character	unique identifyer of each child
sex	character	Male or Female
htcm	numeric	Height in cm
wtkg	numeric	Weight measurement in kg (0.8-20.5)
haz	numeric	Height for age in SDS relative to WHO child growth standard
waz	numeric	Weight for age in SDS relative to WHO child growth standard
country	character	Label for the varied countries

Child height and weight measurements

The data is called childhealth_dutch.

Description

Longitudinal height and weight measurements during ages 0-2 years for a representative sample of 1,933 Dutch children born in 1988-1989.

The source of this data is < https://github.com/stefvanbuuren/brokenstick >

Data format

A data frame with columns:

variable	class	description
subjid	numeric	unique identifyer of each child
sex	character	Male or Female
agedays	numeric	Age in days
gagebrth	numeric	Gestational age at birth (days)
htcm	numeric	Length/height in cm (34-102)
wtkg	numeric	Weight measurement in kg (0.8-20.5)
haz	numeric	Height in SDS relative to WHO child growth standard
waz	numeric	Weight in SDS relative to WHO child growth standard

Child height and weight measurements

The data is called childhealth_us.

Description

Subset of growth data from the collaborative perinatal project (CPP).

The source of this data is < https://github.com/hafen/hbgd >

Data format

A data frame with columns:

variable	class	description
subjid	integer	unique identifyer of each child
sex	character	Male or Female
agedays	integer	Age in days
gagebrth	numeric	Gestational age at birth (days)
htcm	integer	Length/height in cm (34-102)
wtkg	numeric	Weight measurement in kg (0.8-20.5)
haz	numeric	Height in SDS relative to WHO child growth standard
waz	numeric	Weight in SDS relative to WHO child growth standard
mrace	character	Race of the mother
mage	integer	Mother age at child birth
meducyrs	integer	Educational years of mother
ses	character	Socioeconomic status of mother

Child height, weight, head circumference measurements

The data is called childhealth_maled.

Description

Subset of growth data from the Malnutrition and Enteric Disease Study (MAL-ED).

The source of this data is < https://www.fic.nih.gov/About/Staff/Pages/mal-ed.aspx and https://clinepidb.org/ce/app/record/dataset/DS_5c41b87221 >

Data format

A data frame with columns:

variable	class	description
subjid	character	unique identifyer of each child
sex	character	Male or Female
country	character	Label for the varied countries
agedays	numeric	Age in days
wtkg	numeric	Weight measurement in kg (0.8-20.5)
stcm	numeric	Stature either Length or height in cm
htcm	numeric	Height in cm
lncm	numeric	Length in cm
lh_used	character	Lenght or Height used for stature
hccm	numeric	Head Circumference in cm
lhaz	numeric	Length or Height for age in SDS relative to WHO child growth standard
haz	numeric	Height for age in SDS relative to WHO child growth standard
laz	numeric	Length for age in SDS relative to WHO child growth standard
waz	numeric	Weight for age in SDS relative to WHO child growth standard
hcaz	numeric	Head cirumference for age in SDS relative to WHO child growth standard

variable	class	description
whz	numeric	Weight for height or lenght in SDS relative to WHO child growth standard

Child birth data

The data is called birth_us.

Description

Subset of growth data from the collaborative perinatal project (CPP).

The source of this data is < https://github.com/hafen/hbgd >

Data format

A data frame with columns:

variable	class	description
subjid	integer	unique identifyer of each child
sex	character	Male or Female
birthwt	integer	Birthweight of the child
birthlen	integer	Birth length of the child
apgar1	integer	a quick test performed on a baby at 1 minute after birth. https://medlineplus.gov/ency/article/003402.htm
apgar5	integer	a quick test performed on a baby at 5 minutes after birth. https://medlineplus.gov/ency/article/003402.htm
mrace	character	Race of the mother
mage	integer	Mother age at child birth
smoked	integer	If the mother smoked (1) or didn't smoke (0)
meducyrs	integer	Educational years of mother
ses	character	Socioeconomic status of mother

Child birth data

The data is called birth_dutch.

Description

Measurements during ages 0-2 years for a representative sample of 1,933 Dutch children born in 1988-1989

The source of this data is < https://github.com/stefvanbuuren/brokenstick >

Data format

A data frame with columns:

variable	class	description
subjid	numeric	unique identifyer of each child
sex	character	Male or Female
birthwt	numeric	Birthweight of the child

WHO coeficients for weight Z-score calculations

The data is called weight_coef.

Description

See https://www.cdc.gov/nchs/data/nhsr/nhsr063.pdf for a desciption on how calculations are made. However, the CDC has different coefficients.

The source of this data is < https://github.com/hafen/growthstandards >

Data format

A data frame with columns:

variable	class	description
agedays	numeric	Age of child in days
sex	character	The gender of the child
mean	numeric	The mean for a child at agedays
sd	numeric	The standard deviation of weights for children at agedays
cv	numeric	The coefficient of variation for children at agedays - https://en.wikipedia.org/wiki/Coefficient_of_variation
l	numeric	The box-cox tranformation for children at agedays - https://www.cdc.gov/nchs/data/nhsr/nhsr063.pdf

WHO coeficients for height Z-score calculations

The data is called height_coef.

Description

See https://www.cdc.gov/nchs/data/nhsr/nhsr063.pdf for a desciption on how calculations are made. However, the CDC has different coefficients. The l values were all 1 so they were removed

The source of this data is < https://github.com/hafen/growthstandards >

Data format

A data frame with columns:

variable	class	description
agedays	numeric	Age of child in days
sex	character	The gender of the child
mean	numeric	The mean for a child at agedays
sd	numeric	The standard deviation of weights for children at agedays
cv	numeric	The coefficient of variation for children at agedays - https://en.wikipedia.org/wiki/Coefficient_of_variation
l	integer	The box-cox tranformation for children at agedays - https://www.cdc.gov/nchs/data/nhsr/nhsr063.pdf

Child height and weight HAZ summaries

The data is called childhealth_summary.

Description

For all data from three studies

The source of this data is < https://github.com/stefvanbuuren/brokenstick, https://github.com/hafen/hbgd, and https://clinepidb.org/ce/app/record/dataset/DS_5c41b87221 >

Data format

A data frame with columns:

variable	class	description
subjid	character	unique identifyer of each child
sex	character	Male or Female
country	character	Label for the varied countries
haz_mean	numeric	The average HAZ score over all measurements
waz_mean	numeric	The average WAZ score over all measurements
observations	integer	Number of observations for that subject
agedays_last	numeric	The age in days for the HAZ and WAZ last variable
agedays_first	numeric	The age in days for the HAZ and WAZ first variable
haz_last	numeric	The first HAZ measurement on the subject for age in days
haz_first	numeric	The last HAZ measurement on the subject for age in days
waz_first	numeric	The first WAZ measurement on the subject for age in days
waz_last	numeric	The last WAZ measurement on the subject for age in days