

Package ‘admiralped’

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Type Package

Title Pediatrics Extension Package for ADaM in 'R' Asset Library

Version 0.2.1

Description A toolbox for programming Clinical Data Standards Interchange Consortium (CDISC) compliant Analysis Data Model (ADaM) datasets in R. ADaM datasets are a mandatory part of any New Drug or Biologics License Application submitted to the United States Food and Drug Administration (FDA). Analysis derivations are implemented in accordance with the "Analysis Data Model Implementation Guide" (CDISC Analysis Data Model Team, 2021, <https://www.cdisc.org/standards/foundational/adam>). The package is an extension package of the 'admiral' package for pediatric clinical trials.

License Apache License (>= 2)

URL <https://pharmaverse.github.io/admiralped/>,
<https://github.com/pharmaverse/admiralped>

Depends R (>= 4.1)

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dplyr (>= 1.0.5), magrittr (>= 1.5), purrr (>= 0.3.3), rlang
(>= 0.4.4), tidyselect (>= 1.1.0), zoo (>= 1.8.12)

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Contents

adsl_peds	3
cdc_bmiage	3
cdc_htage	4
cdc_wtage	4
derive_interp_records	5
derive_params_growth_age	6
derive_params_growth_height	10
who_bmi_for_age_boys	14
who_bmi_for_age_girls	15
who_hc_for_age_boys	15
who_hc_for_age_girls	16
who_lgth_ht_for_age_boys	17
who_lgth_ht_for_age_girls	17
who_wt_for_age_boys	18
who_wt_for_age_girls	19
who_wt_for_lgth_boys	19
who_wt_for_lgth_girls	20

Index	21
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adsl_peds

*Subject Level Analysis Dataset-pediatrics***Description**

An updated ADaM ADSL dataset with pediatric patients

Usage

```
adsl_peds
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 5 rows and 35 columns.

cdc_bmiage

*CDC BMI-for-age-chart***Description**

BMI-for-age charts, 2 to 20.5 years

Usage

```
cdc_bmiage
```

Format

A data frame with 438 rows and 7 variables:

SEX Sex: 1 = male, 2 = female

AGE Age in months

L Box-Cox transformation for normality

M Median

S Coefficient of variation

Sigma Sigma

P95 95th Percentile

Source

https://www.cdc.gov/growthcharts/percentile_data_files.htm

See Also

Metadata `cdc_htage`, `cdc_wtage`, `derive_interp_records()`, `who_bmi_for_age_boys`, `who_bmi_for_age_girls`, `who_hc_for_age_boys`, `who_hc_for_age_girls`, `who_lgth_ht_for_age_boys`, `who_lgth_ht_for_age_girls`, `who_wt_for_age_boys`, `who_wt_for_age_girls`, `who_wt_for_lgth_boys`, `who_wt_for_lgth_girls`

cdc_htage	<i>CDC Height-for-age-chart</i>
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Description

Height-for-age charts, 2 to 20 years

Usage

cdc_htage

Format

A data frame with 436 rows and 5 variables:

- SEX Sex: 1 = male, 2 = female
- AGE Age in months
- L Box-Cox transformation for normality
- M Median
- S Coefficient of variation

Source

https://www.cdc.gov/growthcharts/percentile_data_files.htm

See Also

Metadata [cdc_bmiage](#), [cdc_wtage](#), [derive_interp_records\(\)](#), [who_bmi_for_age_boys](#), [who_bmi_for_age_girls](#), [who_hc_for_age_boys](#), [who_hc_for_age_girls](#), [who_lgth_ht_for_age_boys](#), [who_lgth_ht_for_age_girls](#), [who_wt_for_age_boys](#), [who_wt_for_age_girls](#), [who_wt_for_lgth_boys](#), [who_wt_for_lgth_girls](#)

cdc_wtage	<i>CDC Weight-for-age-chart</i>
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Description

Weight-for-age charts, 2 to 20 years

Usage

cdc_wtage

Format

A data frame with 436 rows and 5 variables:

SEX Sex: 1 = male, 2 = female

AGE Age in months

L Box-Cox transformation for normality

M Median

S Coefficient of variation

Source

https://www.cdc.gov/growthcharts/percentile_data_files.htm

See Also

Metadata `cdc_bmiage`, `cdc_htage`, `derive_interp_records()`, `who_bmi_for_age_boys`, `who_bmi_for_age_girls`, `who_hc_for_age_boys`, `who_hc_for_age_girls`, `who_lgth_ht_for_age_boys`, `who_lgth_ht_for_age_girls`, `who_wt_for_age_boys`, `who_wt_for_age_girls`, `who_wt_for_lgth_boys`, `who_wt_for_lgth_girls`

`derive_interp_records` *Derive interpolated rows for the CDC charts (>=2 yrs old)*

Description

Derive a linear interpolation of rows for the CDC charts (>=2 yrs old) by age in days for the following parameters: HEIGHT, WEIGHT and BMI

Usage

```
derive_interp_records(dataset, by_vars = NULL, parameter)
```

Arguments

dataset	Input metadataset The variables AGE, AGEU, SEX, L, M, S are expected to be in the dataset For BMI the additional variables P95 and Sigma are expected to be in the dataset Note that AGE must be in days so that AGEU is equal to "DAYS"
by_vars	Grouping variables The variable from dataset which identifies the group of observations to interpolate separately.
parameter	CDC/WHO metadata parameter <i>Permitted Values:</i> "WEIGHT", "HEIGHT" or "BMI" only - Must not be NULL e.g. parameter = "WEIGHT", parameter = "HEIGHT", or parameter = "BMI".

Value

The input dataset plus additional interpolated records: a record for each day from the minimum age to the maximum age.

If any variables in addition to the expected ones are in the input dataset, LOCF (Last Observation Carried Forward) is applied to populate them for the new records.

See Also

Metadata [cdc_bmiage](#), [cdc_htage](#), [cdc_wtage](#), [who_bmi_for_age_boys](#), [who_bmi_for_age_girls](#), [who_hc_for_age_boys](#), [who_hc_for_age_girls](#), [who_lgth_ht_for_age_boys](#), [who_lgth_ht_for_age_girls](#), [who_wt_for_age_boys](#), [who_wt_for_age_girls](#), [who_wt_for_lgth_boys](#), [who_wt_for_lgth_girls](#)

Examples

```
library(dplyr, warn.conflicts = FALSE)
library(rlang, warn.conflicts = FALSE)

cdc_htage <- admiralped::cdc_htage %>%
  mutate(
    SEX = case_when(
      SEX == 1 ~ "M",
      SEX == 2 ~ "F",
      TRUE ~ NA_character_
    ),
    # Ensure first that Age unit is "DAYS"
    AGE = round(AGE * 30.4375),
    AGEU = "DAYS"
  )

# Interpolate the AGE by SEX
derive_interp_records(
  dataset = cdc_htage,
  by_vars = exprs(SEX),
  parameter = "HEIGHT"
)
```

derive_params_growth_age

*Derive Anthropometric indicators (Z-Scores/Percentiles-for-Age)
based on Standard Growth Charts*

Description

Derive Anthropometric indicators (Z-Scores/Percentiles-for-Age) based on Standard Growth Charts for Height/Weight/BMI/Head Circumference by Age

Usage

```
derive_params_growth_age(
  dataset,
  sex,
  age,
  age_unit,
  meta_criteria,
  parameter,
  analysis_var,
  bmi_cdc_correction = FALSE,
  who_correction = FALSE,
  set_values_to_sds = NULL,
  set_values_to_pctl = NULL
)
```

Arguments

dataset	Input dataset The variables specified in sex, age, age_unit, parameter, analysis_var are expected to be in the dataset.
sex	Sex A character vector is expected. Expected Values: M, F
age	Current Age A numeric vector is expected. Note that this is the actual age at the current visit.
age_unit	Age Unit A character vector is expected. Expected values: days, weeks, months
meta_criteria	Metadata dataset A metadata dataset with the following expected variables: AGE, AGEU, SEX, L, M, S The dataset can be derived from CDC/WHO or user-defined datasets. The CDC/WHO growth chart metadata datasets are available in the package and will require small modifications. If the age value from dataset falls between two AGE values in meta_criteria, then the L/M/S values that are chosen/mapped will be the AGE that has the smaller absolute difference to the value in age. e.g. If dataset has a current age of 27.49 months, and the metadata contains records for 27 and 28 months, the L/M/S corresponding to the 27 months record will be used. • AGE - Age • AGEU - Age Unit • SEX - Sex • L - Power in the Box-Cox transformation to normality • M - Median • S - Coefficient of variation

parameter	Anthropometric measurement parameter to calculate z-score or percentile A condition is expected with the input dataset VSTESTCD/PARAMCD for which we want growth derivations: e.g. <code>parameter = VSTESTCD == "WEIGHT"</code>. There is CDC/WHO metadata available for Height, Weight, BMI, and Head Circumference available in the <code>admiralped</code> package.
analysis_var	Variable containing anthropometric measurement A numeric vector is expected, e.g. <code>AVAL</code>, <code>VSSTRESN</code>
bmi_cdc_correction	Extended CDC BMI-for-age correction A logical scalar, e.g. <code>TRUE/FALSE</code> is expected. CDC developed extended percentiles (>95%) to monitor high BMI values, if set to <code>TRUE</code> the CDC's correction is applied.
who_correction	WHO adjustment for weight-based indicators A logical scalar, e.g. <code>TRUE/FALSE</code> is expected. WHO constructed a restricted application of the LMS method for weight-based indicators. More details on these exact rules applied can be found at the document page 302 of the WHO Child Growth Standards Guidelines. If set to <code>TRUE</code> the WHO correction is applied.
set_values_to_sds	Variables to be set for Z-Scores The specified variables are set to the specified values for the new observations. For example, <code>set_values_to_sds(exprs(PARAMCD = "BMIASDS", PARAM = "BMI-for-age z-score"))</code> defines the parameter code and parameter. The formula to calculate the Z-score is as follows: $\frac{((\frac{obs}{M})^L - 1)}{L * S}$ where "obs" is the observed value for the respective anthropometric measure being calculated. <i>Permitted Values:</i> List of variable-value pairs If left as default value, <code>NULL</code>, then parameter not derived in output dataset
set_values_to_pctl	Variables to be set for Percentile The specified variables are set to the specified values for the new observations. For example, <code>set_values_to_pctl(exprs(PARAMCD = "BMIACTL", PARAM = "BMI-for-age percentile"))</code> defines the parameter code and parameter. <i>Permitted Values:</i> List of variable-value pair If left as default value, <code>NULL</code>, then parameter not derived in output dataset

Value

The input dataset additional records with the new parameter added.

See Also

Vital Signs Functions for adding Parameters/Records [derive_params_growth_height\(\)](#)

Examples

```

library(dplyr, warn.conflicts = FALSE)
library(lubridate, warn.conflicts = FALSE)
library(rlang, warn.conflicts = FALSE)
library(admiral, warn.conflicts = FALSE)
library(pharmaversesdtm, warn.conflicts = FALSE)

advs <- pharmaversesdtm::dm_peds %>%
  select(USUBJID, BRTHDTC, SEX) %>%
  right_join(., pharmaversesdtm::vs_peds, by = "USUBJID") %>%
  mutate(
    VSDT = ymd(VSDTC),
    BRTHDT = ymd(BRTHDTC)
  ) %>%
  derive_vars_duration(
    new_var = AGECUR_D,
    new_var_unit = CURU_D,
    start_date = BRTHDT,
    end_date = VSDT,
    out_unit = "days",
    trunc_out = FALSE
  ) %>%
  derive_vars_duration(
    new_var = AGECUR_M,
    new_var_unit = CURU_M,
    start_date = BRTHDT,
    end_date = VSDT,
    out_unit = "months",
    trunc_out = FALSE
  ) %>%
  mutate(
    AGECUR = ifelse(AGECUR_D >= 365.25 * 2, AGECUR_M, AGECUR_D),
    AGECURU = ifelse(AGECUR_D >= 365.25 * 2, CURU_M, CURU_D)
  )

# metadata is in months
cdc_meta_criteria <- admiralped::cdc_htage %>%
  mutate(
    age_unit = "months",
    SEX = ifelse(SEX == 1, "M", "F")
  )

# metadata is in days
who_meta_criteria <- bind_rows(
  (admiralped::who_lgth_ht_for_age_boys %>%
    mutate(
      SEX = "M",
      age_unit = "days"
    )
  ),
  (admiralped::who_lgth_ht_for_age_girls %>%
    mutate(

```

```

      SEX = "F",
      age_unit = "days"
    )
  )
) %>%
  rename(AGE = Day)

criteria <- bind_rows(
  cdc_meta_criteria,
  who_meta_criteria
) %>%
  rename(AGEU = age_unit)

derive_params_growth_age(
  advs,
  sex = SEX,
  age = AGECUR,
  age_unit = AGECURU,
  meta_criteria = criteria,
  parameter = VSTESTCD == "HEIGHT",
  analysis_var = VSSTRESN,
  set_values_to_sds = exprs(
    PARAMCD = "HGTSDS",
    PARAM = "Height-for-age z-score"
  ),
  set_values_to_pctl = exprs(
    PARAMCD = "HGTPCTL",
    PARAM = "Height-for-age percentile"
  )
)

```

```
derive_params_growth_height
```

Derive Anthropometric indicators (Z-Scores/Percentiles-for-Height/Length) based on Standard Growth Charts

Description

Derive Anthropometric indicators (Z-Scores/Percentiles-for-Height/Length) based on Standard Growth Charts for Weight by Height/Length

Usage

```

derive_params_growth_height(
  dataset,
  sex,
  height,
  height_unit,
  meta_criteria,

```

```

    parameter,
    analysis_var,
    who_correction = FALSE,
    set_values_to_sds = NULL,
    set_values_to_pctl = NULL
  )

```

Arguments

dataset	Input dataset The variables specified in sex, height, height_unit, parameter, analysis_var are expected to be in the dataset.
sex	Sex A character vector is expected. Expected Values: M, F
height	Current Height/length A numeric vector is expected. Note that this is the actual height/length at the current visit.
height_unit	Height/Length Unit A character vector is expected. Expected values: cm
meta_criteria	Metadata dataset A metadata dataset with the following expected variables: HEIGHT_LENGTH, HEIGHT_LENGTHU, SEX, L, M, S The dataset can be derived from WHO or user-defined datasets. The WHO growth chart metadata datasets are available in the package and will require small modifications. Datasets who_wt_for_lgth_boys/who_wt_for_lgth_girls are applicable for subject age < 730.5 days. If the height value from dataset falls between two HEIGHT_LENGTH values in meta_criteria, then the L/M/S values that are chosen/mapped will be the HEIGHT_LENGTH that has the smaller absolute difference to the value in height. e.g. If dataset has a current age of 50.49 cm, and the metadata contains records for 50 and 51 cm, the L/M/S corresponding to the 50 cm record will be used. • HEIGHT_LENGTH - Height/Length • HEIGHT_LENGTHU - Height/Length Unit • SEX - Sex • L - Power in the Box-Cox transformation to normality • M - Median • S - Coefficient of variation
parameter	Anthropometric measurement parameter to calculate z-score or percentile A condition is expected with the input dataset VSTESTCD/PARAMCD for which we want growth derivations: e.g. parameter = VSTESTCD == "WEIGHT". There is WHO metadata available for Weight available in the admiralped package. Weight measures are expected to be in the unit "kg".

analysis_var	Variable containing anthropometric measurement A numeric vector is expected, e.g. AVAL, VSSTRESN
who_correction	WHO adjustment for weight-based indicators A logical scalar, e.g. TRUE/FALSE is expected. WHO constructed a restricted application of the LMS method for weight-based indicators. More details on these exact rules applied can be found at the document page 302 of the WHO Child Growth Standards Guidelines . If set to TRUE the WHO correction is applied.
set_values_to_sds	Variables to be set for Z-Scores The specified variables are set to the specified values for the new observations. For example, <code>set_values_to_sds(exprs(PARAMCD = "WGTHSDS", PARAM = "Weight-for-height z-score"))</code> defines the parameter code and parameter. The formula to calculate the Z-score is as follows: $\frac{((\frac{obs}{M})^L - 1)}{L * S}$ where "obs" is the observed value for the respective anthropometric measure being calculated. <i>Permitted Values:</i> List of variable-value pairs If left as default value, NULL, then parameter not derived in output dataset
set_values_to_pctl	Variables to be set for Percentile The specified variables are set to the specified values for the new observations. For example, <code>set_values_to_pctl(exprs(PARAMCD = "WGTHPCTL", PARAM = "Weight-for-height percentile"))</code> defines the parameter code and parameter. <i>Permitted Values:</i> List of variable-value pair If left as default value, NULL, then parameter not derived in output dataset

Value

The input dataset additional records with the new parameter added.

See Also

Vital Signs Functions for adding Parameters/Records [derive_params_growth_age\(\)](#)

Examples

```
library(dplyr, warn.conflicts = FALSE)
library(lubridate, warn.conflicts = FALSE)
library(rlang, warn.conflicts = FALSE)
library(admiral, warn.conflicts = FALSE)
library(pharmaversesdtm, warn.conflicts = FALSE)

# derive weight for height/length only for those under 2 years old using WHO
# weight for length reference file
```

```

advs <- pharmaversesdtm::dm_peds %>%
  select(USUBJID, BRTHDTC, SEX) %>%
  right_join(., pharmaversesdtm::vs_peds, by = "USUBJID") %>%
  mutate(
    VSDT = ymd(VSDTC),
    BRTHDT = ymd(BRTHDTC)
  ) %>%
  derive_vars_duration(
    new_var = AAGECUR,
    new_var_unit = AAGECURU,
    start_date = BRTHDT,
    end_date = VSDT,
    out_unit = "days"
  )

heights <- pharmaversesdtm::vs_peds %>%
  filter(VSTESTCD == "HEIGHT") %>%
  select(USUBJID, VSSTRESN, VSSTRESU, VSDTC) %>%
  rename(
    HGTTMP = VSSTRESN,
    HGTTMPU = VSSTRESU
  )

advs <- advs %>%
  right_join(., heights, by = c("USUBJID", "VSDTC"))

advs_under2 <- advs %>%
  filter(AAGECUR < 730.5)

who_under2 <- bind_rows(
  (admiralped::who_wt_for_lgth_boys %>%
    mutate(
      SEX = "M",
      height_unit = "cm"
    )
  ),
  (admiralped::who_wt_for_lgth_girls %>%
    mutate(
      SEX = "F",
      height_unit = "cm"
    )
  )
) %>%
  rename(
    HEIGHT_LENGTH = Length,
    HEIGHT_LENGTHU = height_unit
  )

derive_params_growth_height(
  advs_under2,
  sex = SEX,
  height = HGTTMP,
  height_unit = HGTTMPU,

```

```

meta_criteria = who_under2,
parameter = VSTESTCD == "WEIGHT",
analysis_var = VSSTRESN,
who_correction = TRUE,
set_values_to_sds = exprs(
  PARAMCD = "WGTHSDS",
  PARAM = "Weight-for-height/length z-score"
),
set_values_to_pctl = exprs(
  PARAMCD = "WGTHPCTL",
  PARAM = "Weight-for-height/length percentile"
)
)

```

who_bmi_for_age_boys	<i>WHO BMI-for-age for boys</i>
----------------------	---------------------------------

Description

WHO BMI-for-age charts for boys from day 0 (birth) to day 1856

Usage

```
who_bmi_for_age_boys
```

Format

A data frame with 1857 rows and 4 variables:

Day Age in days

L Box-Cox transformation for normality

M Median

S Coefficient of variation

Source

<https://www.who.int/toolkits/child-growth-standards/standards/body-mass-index-for-age-bmi-for-age>

See Also

Metadata `cdc_bmiage`, `cdc_htage`, `cdc_wtage`, `derive_interp_records()`, `who_bmi_for_age_girls`, `who_hc_for_age_boys`, `who_hc_for_age_girls`, `who_lgth_ht_for_age_boys`, `who_lgth_ht_for_age_girls`, `who_wt_for_age_boys`, `who_wt_for_age_girls`, `who_wt_for_lgth_boys`, `who_wt_for_lgth_girls`

who_bmi_for_age_girls *WHO BMI-for-age for girls*

Description

WHO BMI-for-age charts for girls from day 0 (birth) to day 1856

Usage

who_bmi_for_age_girls

Format

A data frame with 1857 rows and 4 variables:

Day Age in days

L Box-Cox transformation for normality

M Median

S Coefficient of variation

Source

<https://www.who.int/toolkits/child-growth-standards/standards/body-mass-index-for-age-bmi-for-age>

See Also

Metadata [cdc_bmiage](#), [cdc_htage](#), [cdc_wtage](#), [derive_interp_records\(\)](#), [who_bmi_for_age_boys](#), [who_hc_for_age_boys](#), [who_hc_for_age_girls](#), [who_lgth_ht_for_age_boys](#), [who_lgth_ht_for_age_girls](#), [who_wt_for_age_boys](#), [who_wt_for_age_girls](#), [who_wt_for_lgth_boys](#), [who_wt_for_lgth_girls](#)

who_hc_for_age_boys *WHO Head circumference-for-age for boys*

Description

WHO Head circumference-for-age charts for boys from day 0 (birth) to day 1856

Usage

who_hc_for_age_boys

Format

A data frame with 1857 rows and 4 variables:

Day Age in days

L Box-Cox transformation for normality

M Median

S Coefficient of variation

Source

<https://www.who.int/toolkits/child-growth-standards/standards/head-circumference-for-age>

See Also

Metadata `cdc_bmiage`, `cdc_htage`, `cdc_wtage`, `derive_interp_records()`, `who_bmi_for_age_boys`, `who_bmi_for_age_girls`, `who_hc_for_age_girls`, `who_lgth_ht_for_age_boys`, `who_lgth_ht_for_age_girls`, `who_wt_for_age_boys`, `who_wt_for_age_girls`, `who_wt_for_lgth_boys`, `who_wt_for_lgth_girls`

who_hc_for_age_girls	<i>WHO Head circumference-for-age for girls</i>
----------------------	---

Description

WHO Head circumference-for-age charts for girls from day 0 (birth) to day 1856

Usage

```
who_hc_for_age_girls
```

Format

A data frame with 1857 rows and 4 variables:

Day Age in days

L Box-Cox transformation for normality

M Median

S Coefficient of variation

Source

<https://www.who.int/toolkits/child-growth-standards/standards/head-circumference-for-age>

See Also

Metadata `cdc_bmiage`, `cdc_htage`, `cdc_wtage`, `derive_interp_records()`, `who_bmi_for_age_boys`, `who_bmi_for_age_girls`, `who_hc_for_age_boys`, `who_lgth_ht_for_age_boys`, `who_lgth_ht_for_age_girls`, `who_wt_for_age_boys`, `who_wt_for_age_girls`, `who_wt_for_lgth_boys`, `who_wt_for_lgth_girls`

`who_lgth_ht_for_age_boys`*WHO Length/height-for-age for boys*

Description

WHO Length/height-for-age charts for boys from day 0 (birth) to day 1856

Usage`who_lgth_ht_for_age_boys`**Format**

A data frame with 1857 rows and 4 variables:

Day Age in days

L Box-Cox transformation for normality

M Median

S Coefficient of variation

Source

<https://www.who.int/tools/child-growth-standards/standards/length-height-for-age>

See Also

Metadata `cdc_bmiage`, `cdc_htage`, `cdc_wtage`, `derive_interp_records()`, `who_bmi_for_age_boys`, `who_bmi_for_age_girls`, `who_hc_for_age_boys`, `who_hc_for_age_girls`, `who_lgth_ht_for_age_girls`, `who_wt_for_age_boys`, `who_wt_for_age_girls`, `who_wt_for_lgth_boys`, `who_wt_for_lgth_girls`

`who_lgth_ht_for_age_girls`*WHO Length/height-for-age for girls*

Description

WHO Length/height-for-age charts for girls from day 0 (birth) to day 1856

Usage`who_lgth_ht_for_age_girls`

Format

A data frame with 1857 rows and 4 variables:

Day Age in days

L Box-Cox transformation for normality

M Median

S Coefficient of variation

Source

<https://www.who.int/tools/child-growth-standards/standards/length-height-for-age>

See Also

Metadata `cdc_bmiage`, `cdc_htage`, `cdc_wtage`, `derive_interp_records()`, `who_bmi_for_age_boys`, `who_bmi_for_age_girls`, `who_hc_for_age_boys`, `who_hc_for_age_girls`, `who_lgth_ht_for_age_boys`, `who_wt_for_age_boys`, `who_wt_for_age_girls`, `who_wt_for_lgth_boys`, `who_wt_for_lgth_girls`

who_wt_for_age_boys	<i>WHO Weight-for-age for boys</i>
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Description

WHO Weight-for-age charts for boys from day 0 (birth) to day 1856

Usage

```
who_wt_for_age_boys
```

Format

A data frame with 1857 rows and 4 variables:

Day Age in days

L Box-Cox transformation for normality

M Median

S Coefficient of variation

Source

<https://www.who.int/tools/child-growth-standards/standards/weight-for-age>

See Also

Metadata `cdc_bmiage`, `cdc_htage`, `cdc_wtage`, `derive_interp_records()`, `who_bmi_for_age_boys`, `who_bmi_for_age_girls`, `who_hc_for_age_boys`, `who_hc_for_age_girls`, `who_lgth_ht_for_age_boys`, `who_lgth_ht_for_age_girls`, `who_wt_for_age_girls`, `who_wt_for_lgth_boys`, `who_wt_for_lgth_girls`

who_wt_for_age_girls	<i>WHO Weight-for-age for girls</i>
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Description

WHO Weight-for-age charts for girls from day 0 (birth) to day 1856

Usage

who_wt_for_age_girls

Format

A data frame with 1857 rows and 4 variables:

Day Age in days

L Box-Cox transformation for normality

M Median

S Coefficient of variation

Source

<https://www.who.int/tools/child-growth-standards/standards/weight-for-age>

See Also

Metadata [cdc_bmiage](#), [cdc_htage](#), [cdc_wtage](#), [derive_interp_records\(\)](#), [who_bmi_for_age_boys](#), [who_bmi_for_age_girls](#), [who_hc_for_age_boys](#), [who_hc_for_age_girls](#), [who_lgth_ht_for_age_boys](#), [who_lgth_ht_for_age_girls](#), [who_wt_for_age_boys](#), [who_wt_for_lgth_boys](#), [who_wt_for_lgth_girls](#)

who_wt_for_lgth_boys	<i>WHO Weight-for-length for boys</i>
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Description

WHO Weight-for-length charts for boys from 45cm to 110cm

Usage

who_wt_for_lgth_boys

Format

A data frame with 651 rows and 4 variables:

Length Length in cm

L Box-Cox transformation for normality

M Median

S Coefficient of variation

Source

<https://www.who.int/tools/child-growth-standards/standards/weight-for-length-height>

See Also

Metadata `cdc_bmiage`, `cdc_htage`, `cdc_wtage`, `derive_interp_records()`, `who_bmi_for_age_boys`, `who_bmi_for_age_girls`, `who_hc_for_age_boys`, `who_hc_for_age_girls`, `who_lgth_ht_for_age_boys`, `who_lgth_ht_for_age_girls`, `who_wt_for_age_boys`, `who_wt_for_age_girls`, `who_wt_for_lgth_girls`

`who_wt_for_lgth_girls` *WHO Weight-for-length for girls*

Description

WHO Weight-for-length charts for girls from 45cm to 110cm

Usage

`who_wt_for_lgth_girls`

Format

A data frame with 651 rows and 4 variables:

Length Length in cm

L Box-Cox transformation for normality

M Median

S Coefficient of variation

Source

<https://www.who.int/tools/child-growth-standards/standards/weight-for-length-height>

See Also

Metadata `cdc_bmiage`, `cdc_htage`, `cdc_wtage`, `derive_interp_records()`, `who_bmi_for_age_boys`, `who_bmi_for_age_girls`, `who_hc_for_age_boys`, `who_hc_for_age_girls`, `who_lgth_ht_for_age_boys`, `who_lgth_ht_for_age_girls`, `who_wt_for_age_boys`, `who_wt_for_age_girls`, `who_wt_for_lgth_boys`

Index

- * **datasets**
 - adsl_peds, [3](#)
- * **der_prm_bds_vs**
 - derive_params_growth_age, [6](#)
 - derive_params_growth_height, [10](#)
- * **metadata**
 - cdc_bmiage, [3](#)
 - cdc_htage, [4](#)
 - cdc_wtage, [4](#)
 - derive_interp_records, [5](#)
 - who_bmi_for_age_boys, [14](#)
 - who_bmi_for_age_girls, [15](#)
 - who_hc_for_age_boys, [15](#)
 - who_hc_for_age_girls, [16](#)
 - who_lgth_ht_for_age_boys, [17](#)
 - who_lgth_ht_for_age_girls, [17](#)
 - who_wt_for_age_boys, [18](#)
 - who_wt_for_age_girls, [19](#)
 - who_wt_for_lgth_boys, [19](#)
 - who_wt_for_lgth_girls, [20](#)

adsl_peds, [3](#)

cdc_bmiage, [3](#), [4–6](#), [14–20](#)

cdc_htage, [3](#), [4](#), [5](#), [6](#), [14–20](#)

cdc_wtage, [3](#), [4](#), [6](#), [14–20](#)

derive_interp_records, [3–5](#), [5](#), [14–20](#)

derive_params_growth_age, [6](#), [12](#)

derive_params_growth_height, [8](#), [10](#)

who_bmi_for_age_boys, [3–6](#), [14](#), [15–20](#)

who_bmi_for_age_girls, [3–6](#), [14](#), [15](#), [16–20](#)

who_hc_for_age_boys, [3–6](#), [14](#), [15](#), [15](#), [16–20](#)

who_hc_for_age_girls, [3–6](#), [14–16](#), [16](#), [17–20](#)

who_lgth_ht_for_age_boys, [3–6](#), [14–16](#), [17](#), [18–20](#)

who_lgth_ht_for_age_girls, [3–6](#), [14–17](#), [17](#), [18–20](#)

who_wt_for_age_boys, [3–6](#), [14–18](#), [18](#), [19](#), [20](#)

who_wt_for_age_girls, [3–6](#), [14–18](#), [19](#), [20](#)

who_wt_for_lgth_boys, [3–6](#), [14–19](#), [19](#), [20](#)

who_wt_for_lgth_girls, [3–6](#), [14–20](#), [20](#)