Package ‘AsthmaNHANES’

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Type Package

Title Asthma Data Sets from NHANES

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Description Data sets and examples from National Health and Nutritional Examination Survey (NHANES).

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Description

This package provides two datasets (metal and percent) that are related to the work of "Serum cadmium and lead, current wheeze, and lung function in a nationwide study of adults in the United States" (Journal of Allergy and Clinical Immunology: In Practice, DOI:10.1016/j.jai-p.2019.05.029).

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Source


Description

The metal data frame has 30,442 rows and 27 columns.

Usage

data(metal)

Format

This data frame contains the following columns:

- **RIAGENDR** Gender of the sample person
- **RIDAGEYR** Best age in years of the sample person at time of screening
- **RIDRETH1** Recode of reported race and ethnicity information
- **WTMEC5YR** Both interviewed and MEC examined sample persons
- **SDMVPUS** Masked Variance Unit Pseudo-PSU variable for variance estimation
SDMVSTRA  Masked variance unit pseudo-stratum variable for variance estimation
BMXBMI  Body mass index (kg/m^2)
LBXBPB  Lead (ug/dL)
LBXBCD  Cadmium (ug/L)
LBXCOT  Cotinine (ng/mL)
MCQ010  Ever been told you have asthma
RDQ070  Wheezing or whistling in chest - past year
SMQ040  Do you now smoke cigarettes?
SMQ020  Smoked at least 100 cigarettes in life
MCQ035  Still have asthma?
OCD390G  Kind of work you have done the longest
HIQ011  Covered by health insurance
MCQ300B  Close relative had asthma?
INDHHIN2  Annual household income
ENQ090  Close relative had asthma?
ENXTR1Q  Trial 1 FENO measurement (ppb)
SPXNFVC  Baseline 1st test spirometry, forced vital capacity
SPXNFEV1  Baseline 1st test spirometry, forced expiratory volume in the first 1 second
SPDBRONC  Best test FEV1/FVC ratio below Lower Limit of Normal and/or less than 0.7
SPXBFVC  Bronchodilator 2nd test spirometry, forced vital capacity
SPXBFEV1  Bronchodilator 2nd test spirometry, forced expiratory volume in the first 1 second
LBXVIDMS  25-hydroxyvitamin D2 and D3

Source

Examples
# Load data
data(metal)
# View data
summary(metal)
Description

The percent data frame has 40,979 rows and 6 columns.

Usage

data(percent)

Format

This data frame contains the following columns:

- **FEV1FVC_percent_predicted**: Percent predicted FEV1/FVC
- **FEV1FVC_z_score**: Z score of FEV1/FVC
- **FEV1_percent_predicted**: Percent predicted FEV1
- **FEV1_z_score**: Z score of FEV1
- **FVC_percent_predicted**: Percent predicted FVC
- **FVC_z_score**: Z score of FVC

Source


Examples

```r
# Load data
data(percent)
# View data
summary(percent)
```
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