Package 'AsthmaNHANES'

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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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AsthmaNHANES-package Asthma Data Sets from National Health and Nutritional Examination Survey (NHANES)

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).

Author(s)

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Source

Centers for Disease Control and Prevention (CDC). National Center for Health Statistics (NCHS). National Health and Nutrition Examination Survey Data. Hyattsville, MD: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, [2021][https://www. cdc.gov/nchs/nhanes/].

metal metal

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

SDMVPSU Masked Variance Unit Pseudo-PSU variable for variance estimation

metal 3

SDMVSTRA Masked variance unit pseudo-stratum variable for variance estimation

BMXBMI Body mass index (kg/m²)

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

ENO090 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

Centers for Disease Control and Prevention (CDC). National Center for Health Statistics (NCHS). National Health and Nutrition Examination Survey Data. Hyattsville, MD: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, [2021][https://www.cdc.gov/nchs/nhanes/].

Examples

Load data
data(metal)
View data
summary(metal)

4 percent

percent

percent

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

Centers for Disease Control and Prevention (CDC). National Center for Health Statistics (NCHS). National Health and Nutrition Examination Survey Data. Hyattsville, MD: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, [2021][https://www.cdc.gov/nchs/nhanes/].

Examples

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

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