

Package: AsthmaNHANES (via r-universe)

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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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AsthmaNHANES-package	<i>Asthma Data Sets from National Health and Nutritional Examination Survey (NHANES)</i>
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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).

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	<i>metal</i>
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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

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
ENQ090 Close relative had asthma?
ENXTRI1Q 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)
```

percent	<i>percent</i>
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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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