

Data-analyysi R-ohjelmistolla

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National Health and Nutrition Examination Survey (NHANES)

- ▶ The NHANES ¹ has been designed to collect information about the health and diet of people in the United States.
- ▶ The Third National Health and Nutrition Examination Survey (NHANES III), 1988-94, contains data for 33,994 persons ages 2 months and older who participated in the survey.
- ▶ In this example 49 variables and 2,000 observations are being used.

¹<http://dataferrett.census.gov/datasets.html#hanes>

Sisältö

NHANES-väestötutkimus

Variables of NHANES

Race-ethnicity	Other than pregnant, doctor told diabetes
Race	Age first told you had diabetes – yrs
Ethnicity	Are you now taking insulin
Sex	How long since doctor took blood press
Age at interview (screener) - qty	Doctor ever told had hypertension/HBP
Family size (persons in family)	Told 2+ times you had hypertension/HBP
Household size (persons in dwelling)	Now taking prescribed medicine for HBP
FIPS code for State	Ever had blood cholesterol checked
Anyone living here smoke cigs in home	Doctor told blood cholesterol level high
Do you have enough food to eat	Take prescribed med to lower cholesterol
Doctor ever told you had: arthritis	Ever had any pain or discomfort in chest
Type arthritis:rheumatoid,osteoarthritis	Get chest pain when walk uphill or hurry
Doctor told: congestive heart failure	Get chest pain if walk at ordinary pace
Doctor ever told you had: stroke	Doctor ever told you had a heart attack
Doctor ever told you had: asthma	How many heart attacks have you had
Doctor ever told had: chronic bronchitis	Age when you had 1st heart attack – yrs
Age when first told you had arth – yrs	Age when had last heart attack – yrs
Age 1st told had cong heart fail – yrs	How tall are you without shoes - inches
Age when 1st told you had stroke – yrs	How much do you weigh w/out clothes -lbs
Did mother have diabetes	Have you smoked 100+ cigarettes in life
Did father have diabetes	Age when you started smoking regularly
Did mother have heart attack	Do you smoke cigarettes now
Did father have heart attack	# cigarettes smoked per day
Ever been told you have sugar/diabetes	How many yrs have you smoked this amount
Were you pregnant when told had diabetes	Ever period of 1+ years when smoked more

Value labels of NHANES in file `nhanes.txt`

Nhanes documentation

R command to create value labels

DMAETHNR

Ethnicity

With the following Ranges:

- 1 Mexican-American
- 2 Other Hispanic
- 3 Not Hispanic

```
nhanes[,"dmaethnr"] <-  
  factor(nhanes[,"dmaethnr"],  
        levels=c("1","2","3"),  
        label=c("Mexican-American",  
                "Other Hispanic",  
                "Not Hispanic"))
```

HSSEX

Sex

With the following Ranges:

- 1 Male
- 2 Female

```
nhanes[,"hssex"] <-  
  factor(nhanes[,"hssex"],  
        levels=c("1","2"),  
        label=c("Male", "Female"))
```