

BRFSS 2024 Variable Documentation

Behavioral Risk Factor Surveillance System

Centers for Disease Control and Prevention

Generated on: October 03, 2025

This document provides comprehensive documentation for all variables extracted from the CDC BRFSS 2024 dataset, based on the '2024_CDC_DATA_CODEBOOK.HTML' file and mapped to the generated CSV columns in 'BRFSS_2024_Readable_Columns.csv'.

Data Source Information

- **Dataset**: Behavioral Risk Factor Surveillance System (BRFSS) 2024
- **Source**: Centers for Disease Control and Prevention (CDC)
- **Original File**: LLCP2024.XPT (SAS Transport Format)
- **Codebook**: 2024_CDC_DATA_CODEBOOK.HTML
- **Processed CSV**: BRFSS_2024_Readable_Columns.csv

Variable Mapping and Documentation

Core Variables Extracted

The following 29 variables were extracted from the original BRFSS 2024 dataset and given readable column names:

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1. Patient Identification

CSV Column: **‘Patient_ID’**

- Original SAS Variable**: ‘SEQNO’
- Data Type**: Character (Column 36-45)
- Description**: Annual Sequence Number - Unique identifier for each survey respondent
- Section**: Record Identification
- Question**: Annual Sequence Number
- Use**: Primary key for linking records and statistical analysis

2. Demographics

CSV Column: `Age_Group_5yr`

Original SAS Variable: `_AGEG5YR`

Data Type: Numeric (Calculated Variable)

Description: Age groups categorized in 5-year intervals

Section: Calculated Demographics

Question: Derived from reported age

Categories:

- 18-24 years
- 25-29 years
- 30-34 years
- (continues in 5-year increments)
- 80+ years

CSV Column: `Sex`

Original SAS Variable: `SEXVAR`

Data Type: Numeric (Column 88)

Description: Sex of Respondent

Section: Respondent Sex

Question: Sex of Respondent (determined from landline/cell phone introductions)

Values:

- 1 = Male
- 2 = Female

CSV Column: `Household_Income_Category`

Original SAS Variable: `INCOME3`

Data Type: Numeric (Column 204-205)

Description: Annual household income from all sources

Section: Demographics (Core Section 7)

Question: "Is your annual household income from all sources:"

Categories:

- Less than \$15,000
- \$15,000 to less than \$25,000
- \$25,000 to less than \$35,000

- \$35,000 to less than \$50,000
- \$50,000 to less than \$100,000
- \$100,000 to less than \$200,000
- \$200,000 or more
- Refused/Don't know

CSV Column: `Weight_Pounds`

Original SAS Variable: `WEIGHT2`

Data Type: Numeric (Column 207-210)

Description: Reported weight in pounds without shoes

Section: Demographics (Core Section 7)

Question: "About how much do you weigh without shoes?"

Note: If respondent answers in metrics, 9 is placed in first column

CSV Column: `Height_Feet_Inches`

Original SAS Variable: `HEIGHT3`

Data Type: Numeric (Column 211-214)

Description: Reported height in feet and inches without shoes

Section: Demographics (Core Section 7)

Question: "About how tall are you without shoes?"

Note: If respondent answers in metrics, 9 is placed in first column

3. Health Status

CSV Column: `General_Health_Status`

Original SAS Variable: `GENHLTH`

Data Type: Numeric (Column 101)

Description: Self-reported general health status

Section: Health Status (Core Section 1)

Question: "Would you say that in general your health is:"

Values:

- 1 = Excellent
- 2 = Very good
- 3 = Good

- 4 = Fair
- 5 = Poor

CSV Column: `Mental_Health_Days`

Original SAS Variable: `MENTHLTH`

Data Type: Numeric (Column 104-105)

Description: Number of days mental health was not good in past 30 days

Section: Healthy Days (Core Section 2)

Question: "Now thinking about your mental health, which includes stress, depression, and problems with emotions, for how many days during the past 30 days was your mental health not good?"

Range: 1-30 days, 88 = None, 77 = Don't know/Not sure, 99 = Refused

CSV Column: `Poor_Physical_Health_Days`

Original SAS Variable: `POORHLTH`

Data Type: Numeric (Column 106-107)

Description: Days poor physical or mental health kept from usual activities

Section: Healthy Days (Core Section 2)

Question: "During the past 30 days, for about how many days did poor physical or mental health keep you from doing your usual activities, such as self-care, work, or recreation?"

Range: 1-30 days, 88 = None, 77 = Don't know/Not sure, 99 = Refused

4. Chronic Health Conditions

CSV Column: `Diabetes_Status`

Original SAS Variable: `DIABETE4`

Data Type: Numeric (Column 149)

Description: Ever told you had diabetes

Section: Chronic Health Conditions (Core Section 6)

Question: "(Ever told) (you had) diabetes?"

Values:

- 1 = Yes
- 2 = Yes, but female told only during pregnancy
- 3 = No
- 4 = No, pre-diabetes or borderline diabetes
- 7 = Don't know/Not sure

■ 9 = Refused

CSV Column: `CVD_Stroke_History`

Original SAS Variable: `CVDSTRK3`

Data Type: Numeric (Column 140)

Description: Ever diagnosed with a stroke

Section: Chronic Health Conditions (Core Section 6)

Question: "(Ever told) (you had) a stroke."

Values:

■ 1 = Yes

■ 2 = No

■ 7 = Don't know/Not sure

■ 9 = Refused

CSV Column: `Heart_Attack_History`

Original SAS Variable: `CVDINFR4`

Data Type: Numeric (Column 138)

Description: Ever diagnosed with heart attack

Section: Chronic Health Conditions (Core Section 6)

Question: "(Ever told) you had a heart attack, also called a myocardial infarction?"

Values:

■ 1 = Yes

■ 2 = No

■ 7 = Don't know/Not sure

■ 9 = Refused

CSV Column: `Coronary_Heart_Disease`

Original SAS Variable: `CVDCRHD4`

Data Type: Numeric (Column 139)

Description: Ever diagnosed with angina or coronary heart disease

Section: Chronic Health Conditions (Core Section 6)

Question: "(Ever told) (you had) angina or coronary heart disease?"

Values:

■ 1 = Yes

■ 2 = No

■ 7 = Don't know/Not sure

■ 9 = Refused

5. Tobacco Use

CSV Column: `Smoked_100_Cigarettes_Lifetime`

Original SAS Variable: `SMOKE100`

Data Type: Numeric (Column 241)

Description: Smoked at least 100 cigarettes in entire life

Section: Tobacco Use (Core Section 11)

Question: "Have you smoked at least 100 cigarettes in your entire life? [Note: 5 packs = 100 cigarettes]"

Values:

- 1 = Yes
- 2 = No
- 7 = Don't know/Not sure
- 9 = Refused

CSV Column: `Smoking_Frequency`

Original SAS Variable: `SMOKDAY2`

Data Type: Numeric (Column 242)

Description: Frequency of days now smoking

Section: Tobacco Use (Core Section 11)

Question: "Do you now smoke cigarettes every day, some days, or not at all?"

Values:

- 1 = Every day
- 2 = Some days
- 3 = Not at all
- 7 = Don't know/Not sure
- 9 = Refused

CSV Column: `Smoking_Status`

Original SAS Variable: `_RFSMOK3`

Data Type: Numeric (Calculated Variable)

Description: Current smoking status (calculated variable)

Section: Calculated Risk Factors

Values:

- 1 = Current smoker
- 2 = Former smoker
- 3 = Never smoked

■ 9 = Don't know/Refused/Missing

6. Alcohol Consumption

CSV Column: `Alcohol_Days_Per_Month`

Original SAS Variable: `ALCDAY4`

Data Type: Numeric (Column varies)

Description: Days per month when alcohol was consumed

Section: Alcohol Consumption

Question: Number of days in past 30 days when had alcoholic beverages

Range: 101-199 = Days per week, 201-299 = Days per month, 888 = No drinks, 777 = Don't know, 999 = Refused

CSV Column: `Binge_Drinking_Episodes`

Original SAS Variable: `DRNK3GE5`

Data Type: Numeric (Column varies)

Description: Binge drinking frequency (5+ drinks for men, 4+ for women)

Section: Alcohol Consumption

Question: How many times in past 30 days had 5 or more drinks (men) or 4 or more drinks (women)

Range: 1-76 times, 88 = None, 77 = Don't know, 99 = Refused

CSV Column: `Max_Drinks_Single_Occasion`

Original SAS Variable: `MAXDRNKS`

Data Type: Numeric (Column varies)

Description: Maximum number of drinks on any occasion in past 30 days

Section: Alcohol Consumption

Question: Maximum number of alcoholic drinks consumed on any single occasion

Range: 1-76 drinks, 77 = Don't know, 99 = Refused

7. Physical Activity and Exercise

CSV Column: `Exercise_Past_30_Days`

Original SAS Variable: `EXERANY2`

Data Type: Numeric (Column 113)

Description: Exercise in past 30 days

Section: Exercise (Physical Activity) (Core Section 4)

Question: "During the past month, other than your regular job, did you participate in any physical activities or exercises such as running, calisthenics, golf, gardening, or walking for exercise?"

Values:

- 1 = Yes
- 2 = No
- 7 = Don't know/Not sure
- 9 = Refused

CSV Column: `Exercise_Guidelines_Met`

Original SAS Variable: `_TOTINDA`

Data Type: Numeric (Calculated Variable)

Description: Meets aerobic physical activity guidelines

Section: Calculated Physical Activity

Values:

- 1 = Meets guidelines
- 2 = Does not meet guidelines
- 9 = Don't know/Refused/Missing

CSV Column: `Difficulty_Walking_Stairs`

Original SAS Variable: `DIFFWALK`

Data Type: Numeric (Column 218)

Description: Difficulty walking or climbing stairs

Section: Disability (Core Section 8)

Question: "Do you have serious difficulty walking or climbing stairs?"

Values:

- 1 = Yes
- 2 = No
- 7 = Don't know/Not sure
- 9 = Refused

8. Body Mass Index (BMI)

CSV Column: `BMI_Category`

Original SAS Variable: `_BMI5`
Data Type: Numeric (Calculated Variable)
Description: Body Mass Index categories
Section: Calculated BMI
Categories:
■ Underweight (BMI < 18.5)
■ Normal weight (BMI 18.5-24.9)
■ Overweight (BMI 25.0-29.9)
■ Obese (BMI ≥ 30.0)

CSV Column: `BMI_Category_Alt`

Original SAS Variable: `_BMI5CAT`
Data Type: Numeric (Calculated Variable)
Description: Alternative BMI categorization
Section: Calculated BMI
Note: Alternative categorization system for BMI ranges

CSV Column: `BMI_Risk_Factor`

Original SAS Variable: `_RFBMI5`
Data Type: Numeric (Calculated Variable)
Description: BMI risk factor classification
Section: Calculated Risk Factors
Values:
■ 1 = Normal weight
■ 2 = Overweight or obese
■ 9 = Don't know/Refused/Missing

9. Preventive Care

CSV Column: `Flu_Vaccination`

Original SAS Variable: `FLUSHOT7`

Data Type: Numeric (Column varies)

Description: Received flu vaccination in past 12 months

Section: Immunization

Question: "During the past 12 months, have you had either a flu shot or a flu vaccine that was sprayed in your nose?"

Values:

- 1 = Yes
 - 2 = No
 - 7 = Don't know/Not sure
 - 9 = Refused
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10. Geographic and Survey Administration

CSV Column: `State_Code`

Original SAS Variable: `_STATE`

Data Type: Numeric (Column 1-2)

Description: State FIPS Code

Section: Record Identification

Question: State FIPS Code

Use: Identifies the state where the survey was conducted

Range: Standard FIPS state codes (01-56)

CSV Column: `Primary_Sampling_Unit`

Original SAS Variable: `_PSU`

Data Type: Numeric (Column 36-45)

Description: Primary Sampling Unit (Equal to Annual Sequence Number)

Section: Record Identification

Question: Primary Sampling Unit for statistical sampling

Use: Used for complex survey design analysis and weighting

CSV Column: `Regional_Health_Prevalence`

Original SAS Variable: `_RFHLTH`
Data Type: Numeric (Calculated Variable)
Description: Regional health prevalence indicator
Section: Calculated Risk Factors
Use: Derived measure for regional health comparisons

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Data Quality and Missing Values

Standard Missing Value Codes Across Variables:

- ****7 or 77**:** Don't know/Not sure
- ****9 or 99**:** Refused to answer
- ****88**:** None/Never (for count variables)
- ****Blank**:** Not applicable/System missing

Survey Design Considerations:

- ****Sample Design**:** Complex multistage probability sampling
- ****Weighting**:** Data should be weighted for population estimates
- ****Geographic Coverage**:** All 50 states, DC, and territories
- ****Survey Mode**:** Landline and cellular telephone interviews

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Usage Notes

For Analysis:

1. **Always use appropriate survey weights** when making population estimates
2. **Account for complex survey design** in statistical analyses
3. **Consider missing data patterns** when interpreting results
4. **State-level estimates** require adequate sample sizes

Variable Relationships:

- `Patient_ID` and `Primary_Sampling_Unit` are identical (both use SEQNO)
- BMI variables (`BMI_Category`, `BMI_Category_Alt`, `BMI_Risk_Factor`) are calculated from height and weight
- `Smoking_Status` is derived from `Smoked_100_Cigarettes_Lifetime` and `Smoking_Frequency`
- Age groupings are calculated from individual age responses

Data Linkage:

- Use `Patient_ID` (SEQNO) for linking with other BRFSS modules
- `State_Code` for linking with state-level geographic or policy data
- Survey year is 2024 for temporal analyses

References

- **CDC BRFSS Website**: <https://www.cdc.gov/brfss/>
- **2024 BRFSS Overview**: https://www.cdc.gov/brfss/annual_data/annual_2024.html
- **BRFSS Methodology**: https://www.cdc.gov/brfss/data_documentation/index.htm
- **Original Codebook**: 2024_CDC_DATA_CODEBOOK.HTML

BRFSS 2024 Variable Documentation

This documentation was generated based on the CDC BRFSS 2024 Codebook and the variable extraction process documented in [xpt_to_csv_data_sample.py](#). For the most current information, always refer to the official CDC BRFSS documentation.