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| --- | --- | --- |
| Health Indicator | Variable name | Value recode to 1 (ref) |
| Dental visit | LASTDEN4 | 1 |
| Number of permanent teeth removed | RMVTETH4 | 1,8 |
| Tobacco Use | SMOKE100 | 1 |
| Heat attack | CVDINFR4 | 1 |
| Heart disease | CVDCRHD4 | 1 |
| Stroke | CVDSTRK3 | 1 |
| Asthma | ASTHMA3 | 1 |
| Skin cancer | CHCSCNCR | 1 |
| Cancer | CHCOCNCR | 1 |
| Chronic obstructive pulmonary disease | CHCCOPD2 | 1 |
| Arthritis | HAVARTH4 | 1 |
| Kidney disease | CHCKDNY2 | 1 |
| Diabetes | DIABETE4 | 1 |
| Age | X\_AGEG5YR | 1 (> 65 yr) |
| Gender | SEXVAR | 1 (male) |
| Race | X\_IMPRACE | category |
| Income level | INCOME2 | 7 & 8 (>$50000 yr) |
| Have healthcare coverage | HLTHPLN1 | 1 |
| BMI (overweight/obese) | X\_RFBMI5 | 1 |
| Education level | EDUCA | category |

\*Last Dental visit

Value 1: within past year, 2: within past 2 years, 3: within past 5 years, 4: 5 or more years, 8: never, 9: refused, blank: missing

🡪 1 = within past year, good dental visit frequency, 0 = 2-8, poor dental visit frequency, missing data: 9 and blank

\*Number of Permanent teeth removed

Value 1: 1-5, 2: 6 or more not all, 3: all, 7: don’t know/not sure, 8: none, 9: refused, blank: missing

🡪 1 = 1 & 8, <5 teeth removed, good teeth, 0 = 2-3, >5 teeth removed, poor teeth, missing data: 7, 9, and blank

\*Tobacco Use/ smoked at least 100 cigarettes

Value 1: yes, 2: no, 7: don’t know/not sure, 9: refused, blank: missing

🡪 1 = yes, 0 = no, missing data: 7, 9, and blank

\*Diagnosed with heart attack

Value 1: yes, 2: no, 7: don’t know/not sure, 9: refused, blank: missing

🡪 1 = yes, 0 = no, missing data: 7, 9, and blank

\*Diagnosed with angina or coronary heart disease

Value 1: yes, 2: no, 7: don’t know/not sure, 9: refused, blank: missing

🡪 1 = yes, 0 = no, missing data: 7, 9, and blank

\*Diagnosed with stroke

Value 1: yes, 2: no, 7: don’t know/not sure, 9: refused, blank: missing

🡪 1 = yes, 0 = no, missing data: 7, 9, and blank

\*Ever told had asthma

Value 1: yes, 2: no, 7: don’t know/not sure, 9: refused, blank: missing

🡪 1 = yes, 0 = no, missing data: 7, 9, and blank

\*Ever told had skin cancer

Value 1: yes, 2: no, 7: don’t know/not sure, 9: refused, blank: missing

🡪 1 = yes, 0 = no, missing data: 7, 9, and blank

\*Ever told had any other type of cancer

Value 1: yes, 2: no, 7: don’t know/not sure, 9: refused, blank: missing

🡪 1 = yes, 0 = no, missing data: 7, 9, and blank

\*Ever told had chronic obstructive pulmonary disease, C.O.P.D, emphysema or chronic bronchitis

Value 1: yes, 2: no, 7: don’t know/not sure, 9: refused, blank: missing

🡪 1 = yes, 0 = no, missing data: 7, 9, and blank

\*Ever told had arthritis

Value 1: yes, 2: no, 7: don’t know/not sure, 9: refused, blank: missing

🡪 1 = yes, 0 = no, missing data: 7, 9, and blank

\*Ever told had kidney disease

Value 1: yes, 2: no, 7: don’t know/not sure, 9: refused, blank: missing

🡪 1 = yes, 0 = no, missing data: 7, 9, and blank

\*Ever told had diabetes

Value 1: yes, 2: no, 7: don’t know/not sure, 9: refused, blank: missing

🡪 1 = yes, 0 = no, missing data: 7, 9, and blank

\*Age

Value 1: age 18-24, 2: 25-29, 3: 30-34, 4: 35-39, 5: 40-44, 6: 45-49, 7: 50-54, 8: 55-59, 9: 60-64, 10: 65-69, 11: 70-74, 12: 75-79, 13: >80, 14: missing

🡪 1 = > 65, 10-13, 0 = < 65, 1-9, missing data: 14

\*Sex/ Gender

Value 1: male, 2: female

🡪 1 = male, 0 = female, missing data: 7, 9, and blank

\*Race/ ethnicity

Value 1: white, non-Hispanic, 2: black, non-Hispanic, 3: Asian, non-Hispanic, 4: American Indian/ Alaskan native, non-Hispanic, 5: Hispanic, 6: other race, non-Hispanic

\*Income level

Value 1: <10000, 2: 10000 - <15000, 3: 15000 - <20000, 4: 20000 - <25000, 5: 25000 - <35000, 6: 35000 - <50000, 7: 50000 - <75000, 8: >75000, 77: don’t know/not sure, 99: refused, blank: missing

🡪 1 = 7 & 8, above average, 0 = 1-6, below average, missing data: 77, 99, blank

\*Health care coverage

Value 1: yes, 2: no, 7: don’t know/not sure, 9: refused, blank: missing

🡪 1 = yes, 0 = no, missing data: 7, 9, and blank

\*BMI, overweight or obsess

Value 1: yes, 2: no, 7: don’t know/not sure, 9: refused

🡪 1 = yes, 0 = no, missing data: 9

\*Education level

Value 1: never attended school or kindergarten, 2: grade 1-8 (elementary), 3: grade 9-11 (some high school), 4: grade 12 or GED (high school graduate), 5: college 1-3 yr (some college or technical school), 6: college 4 yr or more (college graduate), 9: refused, blank: missing

Missing data: 9 & blank

Missing data 🡪 complete case analysis, remove rows with NA

Create oral\_health = 1 for good oral health status where there is good dental visit frequency and teeth extraction (ref), i.e. have dental visit within past year (good dental visit frequency) and < 5 teeth extracted

Create chronic\_health for having good chronic health status where there is no diagnosis of heart disease, stroke, asthma, cancer, COPD, kidney disease, diabetes

CVDCRHD4, CVDSTRK3, ASTHMA3, CHCOCNCR, CHCCOPD2, CHCKDNY2, DIABETE4 = 0