NHANES Data Dictionary

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| --- | --- | --- |
| Variable Name | Description | Code used to generate |
| SEQN | Participant ID |  |
| survyr.x | Survey year | demo\_table\_short$survyr <- ifelse(demo\_table\_short$SDDSRVYR==1,1999, ifelse(demo\_table\_short$SDDSRVYR==2,2001, ifelse(demo\_table\_short$SDDSRVYR==3,2003, ifelse(demo\_table\_short$SDDSRVYR==4,2005, ifelse(demo\_table\_short$SDDSRVYR==5,2007, ifelse(demo\_table\_short$SDDSRVYR==6,2009, ifelse(demo\_table\_short$SDDSRVYR==7,2011, ifelse(demo\_table\_short$SDDSRVYR==8,2013, ifelse(demo\_table\_short$SDDSRVYR==9,2015, ifelse(demo\_table\_short$SDDSRVYR==10,2017,'Missing')))))))))) |
| age | Age - continuous | demo\_table\_short$age <- demo\_table\_short$RIDAGEYR |
| age\_ge\_16 | Age 16 or older y/n | demo\_table\_short$age\_ge\_16 <- ifelse(demo\_table\_short$age >=16,1,0) |
| female | Gender=female y/n | demo\_table\_short$female <- ifelse(demo\_table\_short$RIAGENDR==2,1, ifelse(demo\_table\_short$RIAGENDR==1,0, 99)) |
| racecat | Race/ethnicity – category (NHW v NHB v NHAsian v Mexican-American v Other hispanic v Other/Multi-Racial), combined across all surveys, notably including the transition to RIDRETH3 in 2011 which separated NHAsian from Other/Multi-Racial) | demo\_table\_short$racecat <- ifelse(demo\_table\_short$RIDRETH1==3,'NHW', ifelse(demo\_table\_short$RIDRETH1==4,'NHB', ifelse(demo\_table\_short$RIDRETH1==1,'Mexican-American', ifelse(demo\_table\_short$RIDRETH1==2,'Other Hispanic', ifelse(demo\_table\_short$RIDRETH1==5 & demo\_table\_short$RIDRETH3==6,'NHAsian', ifelse(demo\_table\_short$RIDRETH1==5,'Other/Multi-Racial', 'Missing'))))))  demo\_table\_short$racecat <- ifelse(is.na(demo\_table\_short$racecat) | demo\_table\_short$racecat=='<NA',' Other/Multi-Racial', demo\_table\_short$racecat) |
| hreduc | Reference person educational attainment | demo\_table\_short$hreduc\_99\_16 <- ifelse(demo\_table\_short$DMDHREDU=='<NA>' | is.na(demo\_table\_short$DMDHREDU),'Missing', ifelse(demo\_table\_short$DMDHREDU==1,'Less Than 9th Grade', ifelse(demo\_table\_short$DMDHREDU==2,'9-11th Grade', ifelse(demo\_table\_short$DMDHREDU==3,'High School Degree or GED', ifelse(demo\_table\_short$DMDHREDU==4,'Some College or Associates Degree', ifelse(demo\_table\_short$DMDHREDU==5,'College Degree or Higher', ifelse(demo\_table\_short$DMDHREDU==7,'Refused', ifelse(demo\_table\_short$DMDHREDU==9,'Do not know', 'Missing'))))))))  demo\_table\_short$hreduc\_17\_18 <- ifelse(demo\_table\_short$DMDHREDZ=='<NA>' | is.na(demo\_table\_short$DMDHREDZ),'Missing', ifelse(demo\_table\_short$DMDHREDZ==1,'Less Than High School Degree', ifelse(demo\_table\_short$DMDHREDZ==2,'High School Degree or GED or Some College or Associates Degree', ifelse(demo\_table\_short$DMDHREDZ==3,'College Degree or Higher', ifelse(demo\_table\_short$DMDHREDZ==7,'Refused', ifelse(demo\_table\_short$DMDHREDZ==9,'Do not know', 'Missing'))))))  demo\_table\_short$hreduc <-ifelse(demo\_table\_short$survyr==2017, demo\_table\_short$hreduc\_17\_18, demo\_table\_short$hreduc\_99\_16) |
| hhinc | Annual household income - category | demo\_table\_short$hhinc\_99\_06 <- ifelse(demo\_table\_short$INDHHINC=='<NA>' | is.na(demo\_table\_short$INDHHINC),'Missing', ifelse(demo\_table\_short$INDHHINC==1,'$0-4,999', ifelse(demo\_table\_short$INDHHINC==2,'$5,000-9,999',  ifelse(demo\_table\_short$INDHHINC==3,'$10,000-14,999', ifelse(demo\_table\_short$INDHHINC==4,'$15,000-19,999', ifelse(demo\_table\_short$INDHHINC==5,'$20,000-24,999', ifelse(demo\_table\_short$INDHHINC==6,'$25,000-34,999',  ifelse(demo\_table\_short$INDHHINC==7,'$35,000-44,999', ifelse(demo\_table\_short$INDHHINC==8,'$45,000-54,999', ifelse(demo\_table\_short$INDHHINC==9,'$55,000-64,999', ifelse(demo\_table\_short$INDHHINC==10,'$65,000-74,999',  ifelse(demo\_table\_short$INDHHINC==11,'$75,000 or more', ifelse(demo\_table\_short$INDHHINC==12,'Over $20,000', ifelse(demo\_table\_short$INDHHINC==13,'Under $20,000', ifelse(demo\_table\_short$INDHHINC==77 | demo\_table\_short$INDHHINC==99,'Missing', 'Missing')))))))))))))))  demo\_table\_short$hhinc\_07\_18 <- ifelse(demo\_table\_short$INDHHIN2=='<NA>' | is.na(demo\_table\_short$INDHHIN2),'Missing', ifelse(demo\_table\_short$INDHHIN2==1,'$0-4,999', ifelse(demo\_table\_short$INDHHIN2==2,'$5,000-9,999',  ifelse(demo\_table\_short$INDHHIN2==3,'$10,000-14,999', ifelse(demo\_table\_short$INDHHIN2==4,'$15,000-19,999', ifelse(demo\_table\_short$INDHHIN2==5,'$20,000-24,999', ifelse(demo\_table\_short$INDHHIN2==6,'$25,000-34,999',  ifelse(demo\_table\_short$INDHHIN2==7,'$35,000-44,999', ifelse(demo\_table\_short$INDHHIN2==8,'$45,000-54,999', ifelse(demo\_table\_short$INDHHIN2==9,'$55,000-64,999', ifelse(demo\_table\_short$INDHHIN2==10,'$65,000-74,999',  ifelse(demo\_table\_short$INDHHIN2==14,'$75,000-99,999', ifelse(demo\_table\_short$INDHHIN2==15,'$100,000 or more', ifelse(demo\_table\_short$INDHHIN2==12,'Over $20,000', ifelse(demo\_table\_short$INDHHIN2==13,'Under $20,000', ifelse(demo\_table\_short$INDHHIN2==77 | demo\_table\_short$INDHHIN2==99,'Missing', 'Missing'))))))))))))))))  demo\_table\_short$hhinc <- ifelse(is.na(demo\_table\_short$INDHHINC), demo\_table\_short$hhinc\_07\_18, demo\_table\_short$hhinc\_99\_06) |
| inc\_to\_pov | Family income to poverty ratio – continuous, maximum value 5 | demo\_table\_short$inc\_to\_pov <- demo\_table\_short$INDFMPIR |
| working | Employment status – category (recode of OCD150) v age <16 | demo\_table\_all$working <- ifelse(demo\_table\_all$age<16,'Age <16', ifelse(demo\_table\_all$OCD150=='<NA>' | is.na(demo\_table\_all$OCD150),'Missing',  ifelse(demo\_table\_all$OCD150==1,'Working', ifelse(demo\_table\_all$OCD150==3,'Looking for work', ifelse(demo\_table\_all$OCD150==4,'Not Working', ifelse(demo\_table\_all$OCD150==2,'At a business but not at work',  ifelse(demo\_table\_all$OCD150==7,'Refused', ifelse(demo\_table\_all$OCD150==9,'Dont Know','Missing')))))))) |
| hoursworked\_cat | Hours worked provided by participant y/n – category, or age <16 | demo\_table\_all$hoursworked\_cat <- ifelse(demo\_table\_all$age<16,'Age <16', ifelse(demo\_table\_all$OCQ180=='<NA>' | is.na(demo\_table\_all$OCQ180),'Missing',  ifelse(demo\_table\_all$OCQ180==77777,'Refused', ifelse(demo\_table\_all$OCQ180==99999,'Dont Know', 'Hours Listed')))) |
| hoursworked\_num | Hours worked - continuous | demo\_table\_all$hoursworked\_num <- ifelse(demo\_table\_all$hoursworked\_cat=='Hours Listed', demo\_table\_all$OCQ180, NA) |
| work\_35hr | Hours worked – category (>/<35hr/wk) or age <16 | demo\_table\_all$work\_35hr <- ifelse(demo\_table\_all$age<16,'Age <16', ifelse(demo\_table\_all$OCQ210=='<NA>' | is.na(demo\_table\_all$OCQ210),'Missing',  ifelse(demo\_table\_all$OCQ210==1,1, ifelse(demo\_table\_all$OCQ210==2,0,  ifelse(demo\_table\_all$OCQ210==7,'Refused', ifelse(demo\_table\_all$OCQ210==9,'Dont Know','Missing')))))) |
| WTINT2YR | Directly from NHANES |  |
| WTINT4YR | Directly from NHANES |  |
| WTMEC2YR | Directly from NHANES |  |
| WTMEC4YR | Directly from NHANES |  |
| SDMVPSU | Directly from NHANES |  |
| SDMVSTRA | Directly from NHANES |  |
| BMXWT | Directly from NHANES |  |
| BMXHT | Directly from NHANES |  |
| BMXBMI | Directly from NHANES |  |
| BMXWAIST | Directly from NHANES |  |
| survyr.y | (duplicate) |  |
| BPXSY1 | Directly from NHANES |  |
| BPXDI1 | Directly from NHANES |  |
| BPXSY2 | Directly from NHANES |  |
| BPXDI2 | Directly from NHANES |  |
| BPXSY3 | Directly from NHANES |  |
| BPXDI3 | Directly from NHANES |  |
| BPXSY4 | Directly from NHANES |  |
| BPXDI4 | Directly from NHANES |  |
| told\_diab | DIQ010 |  |
| age\_diab | DIQ040G |  |
| yrs\_diab | DIQ040Q |  |
| insulin | DIQ050 |  |
| oad | DIQ070 |  |
| age\_diab2 | DID040 |  |
| told\_prediab | DIQ160 |  |
| told\_riskdiab | DIQ170 |  |
| oad2 | DID070 |  |
| feel\_riskdiab | DIQ172 |  |
| riskdiab\_fh | DIQ175A |  |
| riskdiab\_wt | DIQ175B |  |
| riskdiab\_age | DIQ175C |  |
| riskdiab\_diet | DIQ175D |  |
| riskdiab\_race | DIQ175E |  |
| riskdiab\_lgababy | DIQ175F |  |
| riskdiab\_sedent | DIQ175G |  |
| riskdiab\_htn | DIQ175H |  |
| riskdiab\_bg | DIQ175I |  |
| riskdiab\_chol | DIQ175J |  |
| riskdiab\_hypogly | DIQ175K |  |
| riskdiab\_hunger | DIQ175L |  |
| riskdiab\_pares | DIQ175M |  |
| riskdiab\_blurvis | DIQ175N |  |
| riskdiab\_fatigue | DIQ175O |  |
| riskdiab\_anyone | DIQ175P |  |
| riskdiab\_drwarn | DIQ175Q |  |
| riskdiab\_other | DIQ175R |  |
| riskdiab\_gdm | DIQ175S |  |
| riskdiab\_polyuria | DIQ175T |  |
| riskdiab\_polydips | DIQ175U |  |
| riskdiab\_craveswt | DIQ175V |  |
| riskdiab\_medrisk | DIQ175W |  |
| riskdiab\_pcos | DIQ175X |  |
| told\_overwt | MCQ080 |  |
| told\_htn | MCQ100 |  |
| med\_htn |  |  |
| told\_chd | MCQ160C |  |
| told\_angina | MCQ160D |  |
| told\_mi | MCQ160E |  |
| told\_cva | MCQ160F |  |
| told\_emphy | MCQ160G |  |
| told\_overwt2 | MCQ160J |  |
| told\_chronbronch | MCQ160K |  |
| med\_asthma | MCQ010 |  |
| told\_copd | MCQ160O |  |
| told\_htn\_x2. | BPQ030 |  |
| told\_kidfail | KIQ020 |  |
| told\_kidfail2 | KIQ022 |  |
| hd\_pastyr | KIQ025 |  |
| selfreport\_ht | WHD010 |  |
| selfreport\_wt | WHD020 |  |
| took\_wtlossrx | WHD080I |  |
| took\_wtlosssupp | WHD080J |  |
| med\_depress | CIQDPB |  |
| depress\_yesno | CIDDSCOR |  |
| phq9 | PHQ9 result - numeric | dpq\_df$phq9 <- rowSums(dpq\_df[,3:11]\*(dpq\_df[,3:11]<4))  summary(dpq\_df$phq9) |
| URXMBP | cv |  |
| URXMCP | Directly from NHANES |  |
| URXMEP | Directly from NHANES |  |
| URXMHP | Directly from NHANES |  |
| URXMNP | Directly from NHANES |  |
| URXMOP | Directly from NHANES |  |
| URXMZP | Directly from NHANES |  |
| URXDAZ | Directly from NHANES |  |
| URXDMA | Directly from NHANES |  |
| URXEQU | Directly from NHANES |  |
| URXETD | Directly from NHANES |  |
| URXETL | Directly from NHANES |  |
| URXGNS | Directly from NHANES |  |
| URXP09 | Directly from NHANES |  |
| URXUCR | Directly from NHANES |  |
| LBDHI | Directly from NHANES |  |
| LBXBPB | Directly from NHANES |  |
| LBXBCD | Directly from NHANES |  |
| LBDBCDSI | Directly from NHANES |  |
| LBXEPP | Directly from NHANES |  |
| LBXIRN | Directly from NHANES |  |
| LBDIRNSI | Directly from NHANES |  |
| LBXTIB | Directly from NHANES |  |
| LBDTIBSI | Directly from NHANES |  |
| LBXPCT | Directly from NHANES |  |
| LBXFER | Directly from NHANES |  |
| LBXFOL | Directly from NHANES |  |
| LBXB12 | Directly from NHANES |  |
| LBXHCY | Directly from NHANES |  |
| LBXMMA | Directly from NHANES |  |
| LBXTHG | Directly from NHANES |  |
| LBDTHGSI | Directly from NHANES |  |
| LBXIHG | Directly from NHANES |  |
| LBDIHGSI | Directly from NHANES |  |
| LBXRBF | Directly from NHANES |  |
| LBXCOT | Directly from NHANES |  |
| LBXSEL | Directly from NHANES |  |
| LBDSELSI | Directly from NHANES |  |
| LBXGTC | Directly from NHANES |  |
| LBDGTCSI | Directly from NHANES |  |
| LBXRPL | Directly from NHANES |  |
| LBDRPLSI | Directly from NHANES |  |
| LBXRST | Directly from NHANES |  |
| LBDRSTSI | Directly from NHANES |  |
| LBXVIA | Directly from NHANES |  |
| LBDVIASI | Directly from NHANES |  |
| LBXVIE | Directly from NHANES |  |
| LBDVIESI | Directly from NHANES |  |
| URXUHG | Directly from NHANES |  |
| LBXGH | Directly from NHANES |  |
| LBXGLU | Directly from NHANES |  |
| LBXCRP | Directly from NHANES |  |
| LBXFB | Directly from NHANES |  |
| LBDFBSI | Directly from NHANES |  |
| LBXBAP | Directly from NHANES |  |
| LBXTC | Directly from NHANES |  |
| LBXTR | Directly from NHANES |  |
| LBDLDL | Directly from NHANES |  |
| LBXSAL | Directly from NHANES |  |
| LBXSATSI | Directly from NHANES |  |
| LBXSASSI | Directly from NHANES |  |
| LBXSBU | Directly from NHANES |  |
| LBXSC3SI | Directly from NHANES |  |
| LBXSTB | Directly from NHANES |  |
| LBXSTP | Directly from NHANES |  |
| LBXSTR | Directly from NHANES |  |
| LBXSCR | Directly from NHANES |  |
| LBXSNASI | Directly from NHANES |  |
| LBXSKSI | Directly from NHANES |  |
| LBXSCLSI | Directly from NHANES |  |
| LBXWBCSI | Directly from NHANES |  |
| LBXLYPCT | Directly from NHANES |  |
| LBXNEPCT | Directly from NHANES |  |
| LBXEOPCT | Directly from NHANES |  |
| LBXHGB | Directly from NHANES |  |
| LBXHCT | Directly from NHANES |  |
| LBXMCVSI | Directly from NHANES |  |
| LBXMC | Directly from NHANES |  |
| LBXRDW | Directly from NHANES |  |
| LBXPLTSI | Directly from NHANES |  |
| HRXHG | Directly from NHANES |  |
| HRDHG | Directly from NHANES |  |
| LB2CRP | Directly from NHANES |  |
| LB2TC | Directly from NHANES |  |
| LB2HDL | Directly from NHANES |  |
| LB2TR | Directly from NHANES |  |
| LB2LDL | Directly from NHANES |  |
| LB2LYPCT | Directly from NHANES |  |
| LB2NEPCT | Directly from NHANES |  |
| LB2EOPCT | Directly from NHANES |  |
| LB2HCT | Directly from NHANES |  |
| LB2MCVSI | Directly from NHANES |  |
| LB2MC | Directly from NHANES |  |
| LB2RDW | Directly from NHANES |  |
| LB2PLTSI | Directly from NHANES |  |
| URXMNM | Directly from NHANES |  |
| URXMC1 | Directly from NHANES |  |
| URXMHH | Directly from NHANES |  |
| URXMOH | Directly from NHANES |  |
| URXMIB | Directly from NHANES |  |
| URXP01 | Directly from NHANES |  |
| URXP02 | Directly from NHANES |  |
| URXP03 | Directly from NHANES |  |
| URXP04 | Directly from NHANES |  |
| URXP05 | Directly from NHANES |  |
| URXP06 | Directly from NHANES |  |
| URXP07 | Directly from NHANES |  |
| URXP10 | Directly from NHANES |  |
| LBDHCY | Directly from NHANES |  |
| LBDBAP | Directly from NHANES |  |
| LBDSTB | Directly from NHANES |  |
| LBDSCR | Directly from NHANES |  |
| LB2BCD | Directly from NHANES |  |
| LB2BPB | Directly from NHANES |  |
| LB2RBF | Directly from NHANES |  |
| LB2THG | Directly from NHANES |  |
| LB2HCY | Directly from NHANES |  |
| LB2FER | Directly from NHANES |  |
| LB2B12 | Directly from NHANES |  |
| LB2FOL | Directly from NHANES |  |
| LB2MMA | Directly from NHANES |  |
| LB2COT | Directly from NHANES |  |
| LB2GLU | Directly from NHANES |  |
| LB2IN | Directly from NHANES |  |
| LB2SAL | Directly from NHANES |  |
| LB2SATSI | Directly from NHANES |  |
| LB2SASSI | Directly from NHANES |  |
| LB2SBU | Directly from NHANES |  |
| LB2SC3SI | Directly from NHANES |  |
| LB2SGL | Directly from NHANES |  |
| LB2STB | Directly from NHANES |  |
| LB2STP | Directly from NHANES |  |
| LB2STR | Directly from NHANES |  |
| LB2SCR | Directly from NHANES |  |
| LB2SNASI | Directly from NHANES |  |
| LB2SCLSI | Directly from NHANES |  |
| LBXPT21 | Directly from NHANES |  |
| URXECP | Directly from NHANES |  |
| URXCNP | Directly from NHANES |  |
| URXCOP | Directly from NHANES |  |
| LBDAPBSI | Directly from NHANES |  |
| LBDFOL | Directly from NHANES |  |
| LBXBSE | Directly from NHANES |  |
| LBDBSESI | Directly from NHANES |  |
| LBXBMN | Directly from NHANES |  |
| LBDBMNSI | Directly from NHANES |  |
| LBXBGE | Directly from NHANES |  |
| LBXBGM | Directly from NHANES |  |
| URXMHNC | Directly from NHANES |  |
| LBDB12 | Directly from NHANES |  |
| SSURMHBP | Directly from NHANES |  |
| SSURHIBP | Directly from NHANES |  |
| LBXHSCRP | Directly from NHANES |  |
| LBDHRPLC | Directly from NHANES |  |
| SSMHHT | Directly from NHANES |  |
| SSECPT | Directly from NHANES |  |
| SSMONP | Directly from NHANES |  |
| URXHIBP | Directly from NHANES |  |
| URXMCOH | Directly from NHANES |  |
| URXMHBP | Directly from NHANES |  |
| LBDBGESI | Directly from NHANES |  |
| LBDBGMSI | Directly from NHANES |  |
| URXECPT | Directly from NHANES |  |
| URXMHHT | Directly from NHANES |  |
| URXMONP | Directly from NHANES |  |
| survyr | Directly from NHANES | nhanes$survyr <- nhanes$survyr.x |
| diab | Diabetes y/n | nhanes$diab <- ifelse(nhanes$told\_diab==1 | nhanes$insulin==1 | nhanes$oad==1 | nhanes$oad2==1 | nhanes$LBXGH >6.4 | nhanes$LBXGLU >199 | nhanes$LB2GLU > 199 | nhanes$LB2SGL > 199, 1, 0) ###need to add a1c when lab data ready  nhanes$diab <- ifelse(is.na(nhanes$diab) | nhanes$diab=='<NA>',0,1) |
| bmi\_calc | Calculated BMI from measured weight and height | nhanes$bmi\_calc <- nhanes$BMXWT/(nhanes$BMXHT/100)^2 |
| obese | Obesity y/n | nhanes$obese <- ifelse(nhanes$told\_overwt==1 | nhanes$told\_overwt2==1 | nhanes$took\_wtlossrx==1 | nhanes$BMXBMI >= 30 | nhanes$bmi\_calc >=30, 1, 0)  nhanes$obese <- ifelse(is.na(nhanes$obese), 0, ifelse(nhanes$obese==1,1,0)) |
| cvd | Cardiovascular disease y/n | nhanes$cvd <- ifelse(nhanes$told\_chd==1 | nhanes$told\_angina==1 | nhanes$told\_cva==1 | nhanes$told\_mi==1,1,0)  nhanes$cvd <- ifelse(is.na(nhanes$cvd), 0, ifelse(nhanes$cvd==1,1,0)) |
| copd | COPD y/n | nhanes$copd <- ifelse(nhanes$told\_chronbronch==1 | nhanes$told\_copd==1 | nhanes$told\_emphy==1,1,0)  nhanes$copd <- ifelse(is.na(nhanes$copd), 0, ifelse(nhanes$copd==1,1,0)) |
| creatinine | Combined creatinine variable, across surveys | nhanes$creatinine <- ifelse(is.na(nhanes$LB2SCR) & is.na(nhanes$LBDSCR), nhanes$LBXSCR,  ifelse(is.na(nhanes$LB2SCR), nhanes$LBDSCR, nhanes$LB2SCR)) |
| ckd | CKD y/n | nhanes$ckd <- ifelse(nhanes$told\_kidfail==1 | nhanes$told\_kidfail2==1 | nhanes$creatinine >=1.4 | nhanes$hd\_pastyr==1, 1, 0)  nhanes$ckd <- ifelse(is.na(nhanes$ckd), 0, ifelse(nhanes$ckd==1,1,0)) |
| mdd | Depression y/n | nhanes$mdd <- ifelse(nhanes$depress\_yesno==1 | nhanes$med\_depress==1 | nhanes$phq9 >=10, 1, 0)  nhanes$mdd <- ifelse(is.na(nhanes$mdd), 0, ifelse(nhanes$mdd==1,1,0)) |
| sbp\_mean | Mean systolic blood pressure across multiple measures | nhanes$sbp\_mean <- rowMeans(nhanes[,c('BPXSY1','BPXSY2','BPXSY3','BPXSY4')], na.rm=T) |
| dbp\_mean | Mean diastolic blood pressure across multiple measures | nhanes$dbp\_mean <- rowMeans(nhanes[,c('BPXDI1','BPXDI2','BPXDI3','BPXDI4')], na.rm=T) |
| htn | Hypertension y/n | nhanes$htn <- ifelse(nhanes$told\_htn==1 | nhanes$med\_htn==1 | nhanes$sbp\_mean >=140 | nhanes$dbp\_mean>=90, 1, 0)  nhanes$htn <- ifelse(is.na(nhanes$htn), 0, ifelse(nhanes$htn==1,1,0)) |
| educ\_simple | Educational attainment - category (college v HS degree v some HS v less than 9th grade) | nhanes$educ\_simple <- ifelse(nhanes$hreduc=='College Degree or Higher','College Degree',  ifelse(nhanes$hreduc=='High School Degree or GED or Some College or Associates Degree' | nhanes$hreduc=='High School Degree or GED' | nhanes$hreduc=='Some College or Associates Degree', 'HS Degree',  ifelse(nhanes$hreduc=='9-11th Grade' | nhanes$hreduc=='Less Than High School Degree','Some HS', ifelse(nhanes$hreduc=='Less Than 9th Grade','No HS', NA)))) |
| educ\_num | Educational attainment - continuous | nhanes$educ\_num <- ifelse(nhanes$hreduc=='College Degree or Higher',7, ifelse(nhanes$hreduc=='Some College or Associates Degree',6, ifelse(nhanes$hreduc=='High School Degree or GED or Some College or Associates Degree',5, ifelse(nhanes$hreduc=='High School Degree or GED',4, ifelse(nhanes$hreduc=='9-11th Grade',3, ifelse(nhanes$hreduc=='Less Than High School Degree',2, ifelse(nhanes$hreduc=='Less Than 9th Grade',1, NA))))))) |
| inc\_simple | Median household income – category (>$75k v $45-75k v $20-45k v <$20k) | nhanes$inc\_simple <- ifelse(nhanes$hhinc=="$0-4,999" | nhanes$hhinc=="$5,000-9,999" | nhanes$hhinc=="$10,000-14,999" | nhanes$hhinc=="$15,000-19,999" | nhanes$hhinc=="Under $20,000" | nhanes$hhinc=="$20,000-24,999", 'Under $20,000',  ifelse(nhanes$hhinc=="Over $20,000" | nhanes$hhinc=="$25,000-34,999" | nhanes$hhinc=="$35,000-44,999", '$20,000-44,999',  ifelse(nhanes$hhinc=="$45,000-54,999" | nhanes$hhinc=="$55,000-64,999" | nhanes$hhinc=="$65,000-74,999", '$45,000-74,999',  ifelse(nhanes$hhinc=="$75,000-99,999" | nhanes$hhinc=="$75,000 or more", "More than $75,000", NA)))) |
| work\_yn | Employed y/n | nhanes$work\_yn <- ifelse(nhanes$working=='Working',1, ifelse(nhanes$working=='Looking for work' | nhanes$working=='Not Working',0, NA)) |