| PFAS | Potential confounders | Factors | Coefficients | SE | P | Adjusted P | R-Squared | AdP<0.05 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| pf\_do\_a\_scld | age\_at\_enrollment | age\_at\_enrollment | 0.00666942172 | 0.0056039695 | 0.23478386028671305 | 1.0000000000000000 | 0.00392988905 |  |
| pf\_do\_a\_scld | bmi | bmi | -0.02691555479 | 0.0076926413 | 0.00053014713321087 | 0.0291580923265976 | 0.03515397553 | \* |
| pf\_do\_a\_scld | trig\_mg\_d\_l | trig\_mg\_d\_l | -0.00088518107 | 0.0006758031 | 0.19110820055049224 | 1.0000000000000000 | 0.00483663711 |  |
| pf\_do\_a\_scld | source | sourceDUKE | 0.00341597575 | 0.1495724659 | 0.98179146397574657 | 1.0000000000000000 | 0.01349376310 |  |
| pf\_do\_a\_scld | source | sourceNCSU | 0.04502069166 | 0.1275646863 | 0.72434393181777690 | 1.0000000000000000 | 0.01349376310 |  |
| pf\_do\_a\_scld | source | sourceUNC | -0.51200370343 | 0.2570105601 | 0.04708117779278184 | 1.0000000000000000 | 0.01349376310 |  |
| pf\_do\_a\_scld | sex | sexMale | -0.02359390772 | 0.1078415566 | 0.82693773382376023 | 1.0000000000000000 | 0.00012728708 |  |
| pf\_do\_a\_scld | race\_eth\_label | race\_eth\_labelNHB | 0.06086368697 | 0.2555347904 | 0.81187103175202535 | 1.0000000000000000 | 0.01300609138 |  |
| pf\_do\_a\_scld | race\_eth\_label | race\_eth\_labelNHO | 0.28356857907 | 0.3491793750 | 0.41725220517750161 | 1.0000000000000000 | 0.01300609138 |  |
| pf\_do\_a\_scld | race\_eth\_label | race\_eth\_labelNHW | 0.17080174030 | 0.2449429802 | 0.48604179615837562 | 1.0000000000000000 | 0.01300609138 |  |
| pf\_do\_a\_scld | race\_eth\_label | race\_eth\_labelUnknown/Not Reported | -0.23994111834 | 0.3062505710 | 0.43384263785675281 | 1.0000000000000000 | 0.01300609138 |  |
| pf\_do\_a\_scld | race\_final\_label | race\_final\_labelAmerican Indian | -0.46259942334 | 0.7104415541 | 0.51535911876491247 | 1.0000000000000000 | 0.02037517635 |  |
| pf\_do\_a\_scld | race\_final\_label | race\_final\_labelAmerican Indian/Alaskan Native | -0.48699606048 | 0.5044912053 | 0.33501616397590472 | 1.0000000000000000 | 0.02037517635 |  |
| pf\_do\_a\_scld | race\_final\_label | race\_final\_labelAsian | 0.00662795737 | 0.5813059877 | 0.99090900750855360 | 1.0000000000000000 | 0.02037517635 |  |
| pf\_do\_a\_scld | race\_final\_label | race\_final\_labelAsian/Pacific Islander | 0.76233095269 | 0.4136497323 | 0.06613992103282181 | 1.0000000000000000 | 0.02037517635 |  |
| pf\_do\_a\_scld | race\_final\_label | race\_final\_labelBlack | -0.10757306829 | 0.1157337805 | 0.35324429414612923 | 1.0000000000000000 | 0.02037517635 |  |
| pf\_do\_a\_scld | race\_final\_label | race\_final\_labelMore than one race | -0.15142758139 | 1.0025761083 | 0.88002788778056229 | 1.0000000000000000 | 0.02037517635 |  |
| pf\_do\_a\_scld | race\_final\_label | race\_final\_labelOther | -0.07631609842 | 0.2961432522 | 0.79678214569844263 | 1.0000000000000000 | 0.02037517635 |  |
| pf\_do\_a\_scld | race\_final\_label | race\_final\_labelUnknown/Not Reported | -0.54040796213 | 0.3837655826 | 0.15992207734304267 | 1.0000000000000000 | 0.02037517635 |  |
| pf\_do\_a\_scld | ethnicity | ethnicityNot Hispanic | 0.14262137861 | 0.2414026362 | 0.55500838863838109 | 1.0000000000000000 | 0.00996569620 |  |
| pf\_do\_a\_scld | ethnicity | ethnicityUnknown/Not Reported | -0.23994111834 | 0.3059028860 | 0.43331808561261076 | 1.0000000000000000 | 0.00996569620 |  |
| pf\_do\_a\_scld | rural | ruralLiving in rural area | -0.13286357000 | 0.1862432249 | 0.47604978557855959 | 1.0000000000000000 | 0.00138362470 |  |
| pf\_do\_a\_scld | rural | ruralUnknown/Not Reported | 0.00406386978 | 0.1632814657 | 0.98015694799679176 | 1.0000000000000000 | 0.00138362470 |  |
| pf\_do\_a\_scld | smoking | smokingSmoke or use vape | -0.33925333501 | 0.1804656583 | 0.06089981157603477 | 1.0000000000000000 | 0.01206915711 |  |
| pf\_do\_a\_scld | smoking | smokingUnknown/Not Reported | -0.16043150025 | 0.1164496715 | 0.16912075431887635 | 1.0000000000000000 | 0.01206915711 |  |
| pf\_do\_a\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholNo, former drinker (stopped) | 0.03369684146 | 0.1553909181 | 0.82844187593956276 | 1.0000000000000000 | 0.02566693492 |  |
| pf\_do\_a\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholUnknown/Not Reported | 0.03928903694 | 0.1439918320 | 0.78511449567257685 | 1.0000000000000000 | 0.02566693492 |  |
| pf\_do\_a\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholYes, current drinker | 0.37799051426 | 0.1436964068 | 0.00887878150753327 | 0.4883329829143301 | 0.02566693492 |  |
| pf\_do\_a\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day1-2 alcoholic drinks per day | -0.14649866148 | 0.2573185881 | 0.56947537328377917 | 1.0000000000000000 | 0.02630219482 |  |
| pf\_do\_a\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day3-4 alcoholic drinks per day | -0.00615415023 | 0.4186517935 | 0.98827941703331035 | 1.0000000000000000 | 0.02630219482 |  |
| pf\_do\_a\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayUnknown/Not Reported | -0.37744411216 | 0.1237733300 | 0.00245565678435985 | 0.1350611231397920 | 0.02630219482 |  |
| pf\_do\_a\_scld | sq\_self\_hep\_b | sq\_self\_hep\_bUnknown/Not Reported | -0.14105158765 | 0.1135487301 | 0.21493465638586645 | 1.0000000000000000 | 0.00441715933 |  |
| pf\_do\_a\_scld | sq\_self\_hep\_b | sq\_self\_hep\_bYes | 0.04210692449 | 0.2508224343 | 0.86677177612829825 | 1.0000000000000000 | 0.00441715933 |  |
| pf\_do\_a\_scld | sq\_self\_hep\_c | sq\_self\_hep\_cUnknown/Not Reported | -0.09979353088 | 0.1134826988 | 0.37976264387495307 | 1.0000000000000000 | 0.01163710789 |  |
| pf\_do\_a\_scld | sq\_self\_hep\_c | sq\_self\_hep\_cYes | 0.42840676793 | 0.2433279416 | 0.07911871955041586 | 1.0000000000000000 | 0.01163710789 |  |
| pf\_do\_a\_scld | supp\_meds\_tylenol | supp\_meds\_tylenolUnknown/Not Reported | -0.24174331541 | 0.3804290635 | 0.52552310304422201 | 1.0000000000000000 | 0.01115141599 |  |
| pf\_do\_a\_scld | supp\_meds\_tylenol | supp\_meds\_tylenolYes | 0.74300215321 | 0.6249384791 | 0.23522327501678239 | 1.0000000000000000 | 0.01115141599 |  |
| pf\_do\_a\_scld | supp\_meds\_steroids | supp\_meds\_steroidsUnknown/Not Reported | -0.21852365905 | 0.3377093683 | 0.51797858027497301 | 1.0000000000000000 | 0.00339029426 |  |
| pf\_do\_a\_scld | supp\_meds\_steroids | supp\_meds\_steroidsYes | 0.71454274816 | 1.0551066073 | 0.49868186690490035 | 1.0000000000000000 | 0.00339029426 |  |
| pf\_do\_a\_scld | sq\_water\_well | sq\_water\_wellUnknown/Not Reported | 0.01168605994 | 0.1123518452 | 0.91721458430984049 | 1.0000000000000000 | 0.00187821934 |  |
| pf\_do\_a\_scld | sq\_water\_well | sq\_water\_wellYes | 0.12608602047 | 0.1533769897 | 0.41156166219780010 | 1.0000000000000000 | 0.00187821934 |  |
| pf\_do\_a\_scld | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredUnknown/Not Reported | -0.09220049374 | 0.1404236535 | 0.51184853848187739 | 1.0000000000000000 | 0.00124897184 |  |
| pf\_do\_a\_scld | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredYes | -0.07543539858 | 0.1336463231 | 0.57279182355582148 | 1.0000000000000000 | 0.00124897184 |  |
| pf\_do\_a\_scld | sq\_water\_house\_filtration | sq\_water\_house\_filtrationUnknown/Not Reported | -0.01192867507 | 0.1092352326 | 0.91310090818639877 | 1.0000000000000000 | 0.00134012634 |  |
| pf\_do\_a\_scld | sq\_water\_house\_filtration | sq\_water\_house\_filtrationYes | -0.12977075568 | 0.1839401056 | 0.48093371950682218 | 1.0000000000000000 | 0.00134012634 |  |
| pf\_do\_a\_scld | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterUnknown/Not Reported | -0.02728505772 | 0.1213286133 | 0.82219076468470564 | 1.0000000000000000 | 0.00130376026 |  |
| pf\_do\_a\_scld | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterYes | -0.09022857915 | 0.1308096420 | 0.49076539977288947 | 1.0000000000000000 | 0.00130376026 |  |
| pf\_do\_a\_scld | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterUnknown/Not Reported | 0.03682718974 | 0.1117249956 | 0.74186846476577573 | 1.0000000000000000 | 0.00035779013 |  |
| pf\_do\_a\_scld | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterYes | 0.04040313633 | 0.1568683716 | 0.79688719547918652 | 1.0000000000000000 | 0.00035779013 |  |
| pf\_do\_a\_scld | sq\_water\_bottled | sq\_water\_bottledUnknown/Not Reported | -0.17773609857 | 0.1408965278 | 0.20792533592251639 | 1.0000000000000000 | 0.01082869129 |  |
| pf\_do\_a\_scld | sq\_water\_bottled | sq\_water\_bottledYes | -0.27538320757 | 0.1359937008 | 0.04357849187013037 | 1.0000000000000000 | 0.01082869129 |  |
| pf\_do\_a\_scld | sq\_water\_none | sq\_water\_noneUnknown/Not Reported | 0.02229770786 | 0.1071362656 | 0.83524455521134733 | 1.0000000000000000 | 0.00098736972 |  |
| pf\_do\_a\_scld | sq\_water\_none | sq\_water\_noneYes | -0.12918736057 | 0.2461285846 | 0.59997849432490002 | 1.0000000000000000 | 0.00098736972 |  |
| pf\_do\_a\_scld | sq\_water\_other\_type | sq\_water\_other\_typeUnknown/Not Reported | -0.06032328779 | 0.1085959550 | 0.57889504928244273 | 1.0000000000000000 | 0.00173620331 |  |
| pf\_do\_a\_scld | sq\_water\_other\_type | sq\_water\_other\_typeYes | 0.09236555500 | 0.2050407445 | 0.65262891764171804 | 1.0000000000000000 | 0.00173620331 |  |
| pf\_hp\_a\_scld | age\_at\_enrollment | age\_at\_enrollment | 0.00610856935 | 0.0055307635 | 0.27012846280853531 | 1.0000000000000000 | 0.00338642292 |  |
| pf\_hp\_a\_scld | bmi | bmi | -0.00353210464 | 0.0074606468 | 0.63621285405847949 | 1.0000000000000000 | 0.00066663065 |  |
| pf\_hp\_a\_scld | trig\_mg\_d\_l | trig\_mg\_d\_l | -0.00037474559 | 0.0006731862 | 0.57810255513241993 | 1.0000000000000000 | 0.00087709557 |  |
| pf\_hp\_a\_scld | source | sourceDUKE | 0.10434243584 | 0.1480619670 | 0.48142224323953187 | 1.0000000000000000 | 0.03331816491 |  |
| pf\_hp\_a\_scld | source | sourceNCSU | -0.25317070261 | 0.1262764391 | 0.04569477728082912 | 1.0000000000000000 | 0.03331816491 |  |
| pf\_hp\_a\_scld | source | sourceUNC | 0.36671855653 | 0.2544150680 | 0.15030326977519787 | 1.0000000000000000 | 0.03331816491 |  |
| pf\_hp\_a\_scld | sex | sexMale | 0.04753972206 | 0.1078205507 | 0.65952777755572933 | 1.0000000000000000 | 0.00051677066 |  |
| pf\_hp\_a\_scld | race\_eth\_label | race\_eth\_labelNHB | -0.29217269122 | 0.2512308959 | 0.24558725047749871 | 1.0000000000000000 | 0.04597337940 |  |
| pf\_hp\_a\_scld | race\_eth\_label | race\_eth\_labelNHO | 0.25904064681 | 0.3432982532 | 0.45098650537993790 | 1.0000000000000000 | 0.04597337940 |  |
| pf\_hp\_a\_scld | race\_eth\_label | race\_eth\_labelNHW | 0.19739330324 | 0.2408174802 | 0.41292192888074941 | 1.0000000000000000 | 0.04597337940 |  |
| pf\_hp\_a\_scld | race\_eth\_label | race\_eth\_labelUnknown/Not Reported | -0.00442983508 | 0.3010924860 | 0.98826938151728350 | 1.0000000000000000 | 0.04597337940 |  |
| pf\_hp\_a\_scld | race\_final\_label | race\_final\_labelAmerican Indian | 2.99035334157 | 0.6731259823 | 0.00001177078990472 | 0.0006473934447598 | 0.12058113202 | \* |
| pf\_hp\_a\_scld | race\_final\_label | race\_final\_labelAmerican Indian/Alaskan Native | -0.75076319456 | 0.4779930681 | 0.11711937574190467 | 1.0000000000000000 | 0.12058113202 |  |
| pf\_hp\_a\_scld | race\_final\_label | race\_final\_labelAsian | -0.21362555587 | 0.5507731942 | 0.69833970735643969 | 1.0000000000000000 | 0.12058113202 |  |
| pf\_hp\_a\_scld | race\_final\_label | race\_final\_labelAsian/Pacific Islander | -0.20106093275 | 0.3919229960 | 0.60825038534995124 | 1.0000000000000000 | 0.12058113202 |  |
| pf\_hp\_a\_scld | race\_final\_label | race\_final\_labelBlack | -0.52810627333 | 0.1096549241 | 0.00000214067537662 | 0.0001177371457143 | 0.12058113202 | \* |
| pf\_hp\_a\_scld | race\_final\_label | race\_final\_labelMore than one race | 0.14446620325 | 0.9499163215 | 0.87920452393557480 | 1.0000000000000000 | 0.12058113202 |  |
| pf\_hp\_a\_scld | race\_final\_label | race\_final\_labelOther | -0.54187633507 | 0.2805884825 | 0.05422224390061022 | 1.0000000000000000 | 0.12058113202 |  |
| pf\_hp\_a\_scld | race\_final\_label | race\_final\_labelUnknown/Not Reported | -0.64172021528 | 0.3636084957 | 0.07841348875071134 | 1.0000000000000000 | 0.12058113202 |  |
| pf\_hp\_a\_scld | ethnicity | ethnicityNot Hispanic | 0.05211948502 | 0.2425770232 | 0.82999524103981692 | 1.0000000000000000 | 0.00030953323 |  |
| pf\_hp\_a\_scld | ethnicity | ethnicityUnknown/Not Reported | -0.00442983508 | 0.3073910570 | 0.98850968884498225 | 1.0000000000000000 | 0.00030953323 |  |
| pf\_hp\_a\_scld | rural | ruralLiving in rural area | 0.03981842586 | 0.1863228485 | 0.83089199323123042 | 1.0000000000000000 | 0.00052957578 |  |
| pf\_hp\_a\_scld | rural | ruralUnknown/Not Reported | 0.06732367912 | 0.1633512726 | 0.68047191960674125 | 1.0000000000000000 | 0.00052957578 |  |
| pf\_hp\_a\_scld | smoking | smokingSmoke or use vape | -0.25860857221 | 0.1810712357 | 0.15406242068696158 | 1.0000000000000000 | 0.00542775707 |  |
| pf\_hp\_a\_scld | smoking | smokingUnknown/Not Reported | -0.04266261101 | 0.1168404344 | 0.71521597801003944 | 1.0000000000000000 | 0.00542775707 |  |
| pf\_hp\_a\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholNo, former drinker (stopped) | 0.13586280492 | 0.1572627960 | 0.38818440115655084 | 1.0000000000000000 | 0.00205142645 |  |
| pf\_hp\_a\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholUnknown/Not Reported | 0.04809961613 | 0.1457263937 | 0.74153340009344393 | 1.0000000000000000 | 0.00205142645 |  |
| pf\_hp\_a\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholYes, current drinker | 0.06560293585 | 0.1454274097 | 0.65217578709575408 | 1.0000000000000000 | 0.00205142645 |  |
| pf\_hp\_a\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day1-2 alcoholic drinks per day | 0.34358261099 | 0.2578943894 | 0.18358567488178576 | 1.0000000000000000 | 0.02193963636 |  |
| pf\_hp\_a\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day3-4 alcoholic drinks per day | 1.13305976415 | 0.4195886097 | 0.00724023699402287 | 0.3982130346712577 | 0.02193963636 |  |
| pf\_hp\_a\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayUnknown/Not Reported | 0.11291955180 | 0.1240502973 | 0.36326518486072301 | 1.0000000000000000 | 0.02193963636 |  |
| pf\_hp\_a\_scld | sq\_self\_hep\_b | sq\_self\_hep\_bUnknown/Not Reported | -0.00524517482 | 0.1137408248 | 0.96324302106208015 | 1.0000000000000000 | 0.00104577873 |  |
| pf\_hp\_a\_scld | sq\_self\_hep\_b | sq\_self\_hep\_bYes | -0.15705182864 | 0.2512467602 | 0.53229219046349652 | 1.0000000000000000 | 0.00104577873 |  |
| pf\_hp\_a\_scld | sq\_self\_hep\_c | sq\_self\_hep\_cUnknown/Not Reported | 0.07666664632 | 0.1139399111 | 0.50144498984545860 | 1.0000000000000000 | 0.00365700207 |  |
| pf\_hp\_a\_scld | sq\_self\_hep\_c | sq\_self\_hep\_cYes | 0.25616463159 | 0.2443082895 | 0.29506967023341613 | 1.0000000000000000 | 0.00365700207 |  |
| pf\_hp\_a\_scld | supp\_meds\_tylenol | supp\_meds\_tylenolUnknown/Not Reported | 0.14236624332 | 0.3824935767 | 0.70995004114878091 | 1.0000000000000000 | 0.00038972346 |  |
| pf\_hp\_a\_scld | supp\_meds\_tylenol | supp\_meds\_tylenolYes | 0.09558088307 | 0.6283298964 | 0.87917492730682845 | 1.0000000000000000 | 0.00038972346 |  |
| pf\_hp\_a\_scld | supp\_meds\_steroids | supp\_meds\_steroidsUnknown/Not Reported | 0.10616093523 | 0.3382334652 | 0.75379520356562613 | 1.0000000000000000 | 0.00029458321 |  |
| pf\_hp\_a\_scld | supp\_meds\_steroids | supp\_meds\_steroidsYes | -0.00628231156 | 1.0567440450 | 0.99525978948954863 | 1.0000000000000000 | 0.00029458321 |  |
| pf\_hp\_a\_scld | sq\_water\_well | sq\_water\_wellUnknown/Not Reported | -0.07901703786 | 0.1123832567 | 0.48242764822962969 | 1.0000000000000000 | 0.00132002685 |  |
| pf\_hp\_a\_scld | sq\_water\_well | sq\_water\_wellYes | -0.02984035320 | 0.1534198712 | 0.84588876056705242 | 1.0000000000000000 | 0.00132002685 |  |
| pf\_hp\_a\_scld | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredUnknown/Not Reported | 0.03916307547 | 0.1404742139 | 0.78055819320376185 | 1.0000000000000000 | 0.00052962829 |  |
| pf\_hp\_a\_scld | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredYes | 0.05959691935 | 0.1336944433 | 0.65602092727267491 | 1.0000000000000000 | 0.00052962829 |  |
| pf\_hp\_a\_scld | sq\_water\_house\_filtration | sq\_water\_house\_filtrationUnknown/Not Reported | -0.06483291389 | 0.1092328989 | 0.55318487403520389 | 1.0000000000000000 | 0.00138279761 |  |
| pf\_hp\_a\_scld | sq\_water\_house\_filtration | sq\_water\_house\_filtrationYes | 0.04468035213 | 0.1839361758 | 0.80820617839498143 | 1.0000000000000000 | 0.00138279761 |  |
| pf\_hp\_a\_scld | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterUnknown/Not Reported | 0.04534724923 | 0.1211792386 | 0.70845488436320547 | 1.0000000000000000 | 0.00376135167 |  |
| pf\_hp\_a\_scld | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterYes | 0.15306167211 | 0.1306485947 | 0.24212063939652043 | 1.0000000000000000 | 0.00376135167 |  |
| pf\_hp\_a\_scld | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterUnknown/Not Reported | -0.08703304619 | 0.1115953656 | 0.43594263519054810 | 1.0000000000000000 | 0.00267613287 |  |
| pf\_hp\_a\_scld | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterYes | -0.13294540628 | 0.1566863636 | 0.39671140672906335 | 1.0000000000000000 | 0.00267613287 |  |
| pf\_hp\_a\_scld | sq\_water\_bottled | sq\_water\_bottledUnknown/Not Reported | -0.16259904098 | 0.1411792593 | 0.25016970657882531 | 1.0000000000000000 | 0.00685484669 |  |
| pf\_hp\_a\_scld | sq\_water\_bottled | sq\_water\_bottledYes | -0.21830266548 | 0.1362665939 | 0.10999177430940106 | 1.0000000000000000 | 0.00685484669 |  |
| pf\_hp\_a\_scld | sq\_water\_none | sq\_water\_noneUnknown/Not Reported | -0.05212974655 | 0.1071457102 | 0.62687470346804519 | 1.0000000000000000 | 0.00081122510 |  |
| pf\_hp\_a\_scld | sq\_water\_none | sq\_water\_noneYes | 0.04128376170 | 0.2461502822 | 0.86689577335487455 | 1.0000000000000000 | 0.00081122510 |  |
| pf\_hp\_a\_scld | sq\_water\_other\_type | sq\_water\_other\_typeUnknown/Not Reported | -0.08433147055 | 0.1085706380 | 0.43780014503922282 | 1.0000000000000000 | 0.00220160029 |  |
| pf\_hp\_a\_scld | sq\_water\_other\_type | sq\_water\_other\_typeYes | 0.05985138573 | 0.2049929433 | 0.77047252115801956 | 1.0000000000000000 | 0.00220160029 |  |
| pf\_hp\_s\_scld | age\_at\_enrollment | age\_at\_enrollment | 0.03647003290 | 0.0052091223 | 0.00000000001254972 | 0.0000000006902348 | 0.12013384287 | \* |
| pf\_hp\_s\_scld | bmi | bmi | -0.00498536122 | 0.0073462229 | 0.49783998070122160 | 1.0000000000000000 | 0.00136877143 |  |
| pf\_hp\_s\_scld | trig\_mg\_d\_l | trig\_mg\_d\_l | 0.00035106604 | 0.0006595736 | 0.59487932766741591 | 1.0000000000000000 | 0.00080191431 |  |
| pf\_hp\_s\_scld | source | sourceDUKE | 0.06168004872 | 0.1486590769 | 0.67844612713381902 | 1.0000000000000000 | 0.02550550139 |  |
| pf\_hp\_s\_scld | source | sourceNCSU | 0.22832573243 | 0.1267856915 | 0.07252736028874485 | 1.0000000000000000 | 0.02550550139 |  |
| pf\_hp\_s\_scld | source | sourceUNC | -0.45648133987 | 0.2554410826 | 0.07474208092999160 | 1.0000000000000000 | 0.02550550139 |  |
| pf\_hp\_s\_scld | sex | sexMale | 0.30350051034 | 0.1067066148 | 0.00469493718683770 | 0.2582215452760735 | 0.02106218517 |  |
| pf\_hp\_s\_scld | race\_eth\_label | race\_eth\_labelNHB | 0.17144822696 | 0.2551165248 | 0.50197497862570550 | 1.0000000000000000 | 0.01623451881 |  |
| pf\_hp\_s\_scld | race\_eth\_label | race\_eth\_labelNHO | -0.08286614721 | 0.3486078296 | 0.81223970154000491 | 1.0000000000000000 | 0.01623451881 |  |
| pf\_hp\_s\_scld | race\_eth\_label | race\_eth\_labelNHW | 0.35914307931 | 0.2445420515 | 0.14277455985685836 | 1.0000000000000000 | 0.01623451881 |  |
| pf\_hp\_s\_scld | race\_eth\_label | race\_eth\_labelUnknown/Not Reported | 0.17094081549 | 0.3057492925 | 0.57643705503039200 | 1.0000000000000000 | 0.01623451881 |  |
| pf\_hp\_s\_scld | race\_final\_label | race\_final\_labelAmerican Indian | -0.35595703100 | 0.7114163388 | 0.61712705883957342 | 1.0000000000000000 | 0.01768507901 |  |
| pf\_hp\_s\_scld | race\_final\_label | race\_final\_labelAmerican Indian/Alaskan Native | -0.75988071120 | 0.5051834091 | 0.13339352193114282 | 1.0000000000000000 | 0.01768507901 |  |
| pf\_hp\_s\_scld | race\_final\_label | race\_final\_labelAsian | -0.06325872262 | 0.5821035878 | 0.91352122741302155 | 1.0000000000000000 | 0.01768507901 |  |
| pf\_hp\_s\_scld | race\_final\_label | race\_final\_labelAsian/Pacific Islander | -0.37547025156 | 0.4142172940 | 0.36528543014309145 | 1.0000000000000000 | 0.01768507901 |  |
| pf\_hp\_s\_scld | race\_final\_label | race\_final\_labelBlack | -0.16785923828 | 0.1158925768 | 0.14835335109303602 | 1.0000000000000000 | 0.01768507901 |  |
| pf\_hp\_s\_scld | race\_final\_label | race\_final\_labelMore than one race | 1.00801708607 | 1.0039517259 | 0.31601277293424263 | 1.0000000000000000 | 0.01768507901 |  |
| pf\_hp\_s\_scld | race\_final\_label | race\_final\_labelOther | -0.25448828409 | 0.2965495853 | 0.39135877967638943 | 1.0000000000000000 | 0.01768507901 |  |
| pf\_hp\_s\_scld | race\_final\_label | race\_final\_labelUnknown/Not Reported | -0.27232894289 | 0.3842921408 | 0.47898862867843928 | 1.0000000000000000 | 0.01768507901 |  |
| pf\_hp\_s\_scld | ethnicity | ethnicityNot Hispanic | 0.28253434133 | 0.2421018142 | 0.24394937568137418 | 1.0000000000000000 | 0.00422248887 |  |
| pf\_hp\_s\_scld | ethnicity | ethnicityUnknown/Not Reported | 0.17094081549 | 0.3067888771 | 0.57772753504935903 | 1.0000000000000000 | 0.00422248887 |  |
| pf\_hp\_s\_scld | rural | ruralLiving in rural area | -0.15330859096 | 0.1861902019 | 0.41080517756177970 | 1.0000000000000000 | 0.00195215121 |  |
| pf\_hp\_s\_scld | rural | ruralUnknown/Not Reported | -0.05287271038 | 0.1632349799 | 0.74619014229260427 | 1.0000000000000000 | 0.00195215121 |  |
| pf\_hp\_s\_scld | smoking | smokingSmoke or use vape | -0.59743152776 | 0.1788867452 | 0.00092276549007707 | 0.0507521019542388 | 0.02928055694 |  |
| pf\_hp\_s\_scld | smoking | smokingUnknown/Not Reported | -0.12179225914 | 0.1154308410 | 0.29205421769068646 | 1.0000000000000000 | 0.02928055694 |  |
| pf\_hp\_s\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholNo, former drinker (stopped) | -0.06535445769 | 0.1565648928 | 0.67660542380994215 | 1.0000000000000000 | 0.01088919501 |  |
| pf\_hp\_s\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholUnknown/Not Reported | 0.01175053534 | 0.1450796869 | 0.93549031572167918 | 1.0000000000000000 | 0.01088919501 |  |
| pf\_hp\_s\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholYes, current drinker | 0.20806866087 | 0.1447820298 | 0.15152091369328727 | 1.0000000000000000 | 0.01088919501 |  |
| pf\_hp\_s\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day1-2 alcoholic drinks per day | 0.01595902681 | 0.2594405305 | 0.95098333148843639 | 1.0000000000000000 | 0.01017705069 |  |
| pf\_hp\_s\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day3-4 alcoholic drinks per day | 0.06376641718 | 0.4221041479 | 0.88000354530749192 | 1.0000000000000000 | 0.01017705069 |  |
| pf\_hp\_s\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayUnknown/Not Reported | -0.21608972737 | 0.1247940098 | 0.08417452030592833 | 1.0000000000000000 | 0.01017705069 |  |
| pf\_hp\_s\_scld | sq\_self\_hep\_b | sq\_self\_hep\_bUnknown/Not Reported | -0.02247278890 | 0.1137365701 | 0.84347580470059136 | 1.0000000000000000 | 0.00112051368 |  |
| pf\_hp\_s\_scld | sq\_self\_hep\_b | sq\_self\_hep\_bYes | 0.14660302112 | 0.2512373618 | 0.55989141502025297 | 1.0000000000000000 | 0.00112051368 |  |
| pf\_hp\_s\_scld | sq\_self\_hep\_c | sq\_self\_hep\_cUnknown/Not Reported | -0.02853443225 | 0.1141360249 | 0.80272136125276106 | 1.0000000000000000 | 0.00022423186 |  |
| pf\_hp\_s\_scld | sq\_self\_hep\_c | sq\_self\_hep\_cYes | 0.02671288685 | 0.2447287939 | 0.91313950657492171 | 1.0000000000000000 | 0.00022423186 |  |
| pf\_hp\_s\_scld | supp\_meds\_tylenol | supp\_meds\_tylenolUnknown/Not Reported | 0.30269349191 | 0.3817767865 | 0.42836384684072104 | 1.0000000000000000 | 0.00413273777 |  |
| pf\_hp\_s\_scld | supp\_meds\_tylenol | supp\_meds\_tylenolYes | 0.78143889628 | 0.6271524108 | 0.21353816457676289 | 1.0000000000000000 | 0.00413273777 |  |
| pf\_hp\_s\_scld | supp\_meds\_steroids | supp\_meds\_steroidsUnknown/Not Reported | -0.10559143425 | 0.3381803122 | 0.75503614022516952 | 1.0000000000000000 | 0.00060876360 |  |
| pf\_hp\_s\_scld | supp\_meds\_steroids | supp\_meds\_steroidsYes | -0.46625437338 | 1.0565779789 | 0.65925938965952646 | 1.0000000000000000 | 0.00060876360 |  |
| pf\_hp\_s\_scld | sq\_water\_well | sq\_water\_wellUnknown/Not Reported | -0.06777253946 | 0.1122912153 | 0.54651262733604811 | 1.0000000000000000 | 0.00295518661 |  |
| pf\_hp\_s\_scld | sq\_water\_well | sq\_water\_wellYes | -0.15540013737 | 0.1532942210 | 0.31136152736212841 | 1.0000000000000000 | 0.00295518661 |  |
| pf\_hp\_s\_scld | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredUnknown/Not Reported | -0.00727570282 | 0.1404949008 | 0.95872659269934801 | 1.0000000000000000 | 0.00023523443 |  |
| pf\_hp\_s\_scld | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredYes | 0.02603227415 | 0.1337141317 | 0.84574417416999270 | 1.0000000000000000 | 0.00023523443 |  |
| pf\_hp\_s\_scld | sq\_water\_house\_filtration | sq\_water\_house\_filtrationUnknown/Not Reported | -0.03605705995 | 0.1092926376 | 0.74164992928474538 | 1.0000000000000000 | 0.00029022524 |  |
| pf\_hp\_s\_scld | sq\_water\_house\_filtration | sq\_water\_house\_filtrationYes | -0.01642026493 | 0.1840367692 | 0.92895252444544685 | 1.0000000000000000 | 0.00029022524 |  |
| pf\_hp\_s\_scld | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterUnknown/Not Reported | -0.07838889488 | 0.1212524696 | 0.51835547757238953 | 1.0000000000000000 | 0.00255689486 |  |
| pf\_hp\_s\_scld | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterYes | -0.12496215620 | 0.1307275482 | 0.33973975540600310 | 1.0000000000000000 | 0.00255689486 |  |
| pf\_hp\_s\_scld | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterUnknown/Not Reported | -0.04281037697 | 0.1117102651 | 0.70176869616976578 | 1.0000000000000000 | 0.00062137021 |  |
| pf\_hp\_s\_scld | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterYes | 0.02425610311 | 0.1568476891 | 0.87718241871528879 | 1.0000000000000000 | 0.00062137021 |  |
| pf\_hp\_s\_scld | sq\_water\_bottled | sq\_water\_bottledUnknown/Not Reported | -0.34343405338 | 0.1397124054 | 0.01441692733043675 | 0.7929310031740212 | 0.02738520981 |  |
| pf\_hp\_s\_scld | sq\_water\_bottled | sq\_water\_bottledYes | -0.43313180106 | 0.1348507827 | 0.00143238137611300 | 0.0787809756862150 | 0.02738520981 |  |
| pf\_hp\_s\_scld | sq\_water\_none | sq\_water\_noneUnknown/Not Reported | -0.03958620288 | 0.1069442622 | 0.71147423698221934 | 1.0000000000000000 | 0.00456490551 |  |
| pf\_hp\_s\_scld | sq\_water\_none | sq\_water\_noneYes | -0.32045363493 | 0.2456874873 | 0.19292650115117382 | 1.0000000000000000 | 0.00456490551 |  |
| pf\_hp\_s\_scld | sq\_water\_other\_type | sq\_water\_other\_typeUnknown/Not Reported | -0.04449232868 | 0.1085866516 | 0.68223041086397185 | 1.0000000000000000 | 0.00190723712 |  |
| pf\_hp\_s\_scld | sq\_water\_other\_type | sq\_water\_other\_typeYes | -0.16656898382 | 0.2050231788 | 0.41705478475211033 | 1.0000000000000000 | 0.00190723712 |  |
| pf\_hx\_a\_scld | age\_at\_enrollment | age\_at\_enrollment | -0.00767217344 | 0.0055499450 | 0.16771220778328327 | 1.0000000000000000 | 0.00529491942 |  |
| pf\_hx\_a\_scld | bmi | bmi | 0.00258183929 | 0.0077135567 | 0.73804930867047069 | 1.0000000000000000 | 0.00033332278 |  |
| pf\_hx\_a\_scld | trig\_mg\_d\_l | trig\_mg\_d\_l | -0.00082944038 | 0.0006658466 | 0.21370329383697809 | 1.0000000000000000 | 0.00437665591 |  |
| pf\_hx\_a\_scld | source | sourceDUKE | 0.51882522422 | 0.1438738289 | 0.00035296753016782 | 0.0194132141592298 | 0.08723257710 | \* |
| pf\_hx\_a\_scld | source | sourceNCSU | 0.27329328029 | 0.1227045349 | 0.02652537691163277 | 1.0000000000000000 | 0.08723257710 |  |
| pf\_hx\_a\_scld | source | sourceUNC | 1.36562416595 | 0.2472185849 | 0.00000006218287011 | 0.0000034200578559 | 0.08723257710 | \* |
| pf\_hx\_a\_scld | sex | sexMale | -0.15256425529 | 0.1075610431 | 0.15690319949754505 | 1.0000000000000000 | 0.00532218740 |  |
| pf\_hx\_a\_scld | race\_eth\_label | race\_eth\_labelNHB | -0.09961913738 | 0.2568307816 | 0.69832721067772541 | 1.0000000000000000 | 0.00296926566 |  |
| pf\_hx\_a\_scld | race\_eth\_label | race\_eth\_labelNHO | -0.28068732935 | 0.3509503017 | 0.42434022335421961 | 1.0000000000000000 | 0.00296926566 |  |
| pf\_hx\_a\_scld | race\_eth\_label | race\_eth\_labelNHW | -0.15502571296 | 0.2461852531 | 0.52926880834615642 | 1.0000000000000000 | 0.00296926566 |  |
| pf\_hx\_a\_scld | race\_eth\_label | race\_eth\_labelUnknown/Not Reported | -0.24017983164 | 0.3078037765 | 0.43570815119399686 | 1.0000000000000000 | 0.00296926566 |  |
| pf\_hx\_a\_scld | race\_final\_label | race\_final\_labelAmerican Indian | 0.36314576107 | 0.7100853406 | 0.60936886944372626 | 1.0000000000000000 | 0.02135729243 |  |
| pf\_hx\_a\_scld | race\_final\_label | race\_final\_labelAmerican Indian/Alaskan Native | -0.12549586113 | 0.5042382548 | 0.80359047025394681 | 1.0000000000000000 | 0.02135729243 |  |
| pf\_hx\_a\_scld | race\_final\_label | race\_final\_labelAsian | 0.08595421817 | 0.5810145225 | 0.88247237807532541 | 1.0000000000000000 | 0.02135729243 |  |
| pf\_hx\_a\_scld | race\_final\_label | race\_final\_labelAsian/Pacific Islander | -0.55771131397 | 0.4134423295 | 0.17818156233011151 | 1.0000000000000000 | 0.02135729243 |  |
| pf\_hx\_a\_scld | race\_final\_label | race\_final\_labelBlack | 0.05714150773 | 0.1156757519 | 0.62161421926663007 | 1.0000000000000000 | 0.02135729243 |  |
| pf\_hx\_a\_scld | race\_final\_label | race\_final\_labelMore than one race | 2.15432621489 | 1.0020734194 | 0.03221506802430414 | 1.0000000000000000 | 0.02135729243 |  |
| pf\_hx\_a\_scld | race\_final\_label | race\_final\_labelOther | -0.13260894822 | 0.2959947668 | 0.65440808798253147 | 1.0000000000000000 | 0.02135729243 |  |
| pf\_hx\_a\_scld | race\_final\_label | race\_final\_labelUnknown/Not Reported | 0.32256034411 | 0.3835731636 | 0.40092858744280124 | 1.0000000000000000 | 0.02135729243 |  |
| pf\_hx\_a\_scld | ethnicity | ethnicityNot Hispanic | -0.14391451569 | 0.2424170154 | 0.55309406174542874 | 1.0000000000000000 | 0.00162792304 |  |
| pf\_hx\_a\_scld | ethnicity | ethnicityUnknown/Not Reported | -0.24017983164 | 0.3071882967 | 0.43478718661802029 | 1.0000000000000000 | 0.00162792304 |  |
| pf\_hx\_a\_scld | rural | ruralLiving in rural area | -0.03072806294 | 0.1858656632 | 0.86877802201807885 | 1.0000000000000000 | 0.00542841218 |  |
| pf\_hx\_a\_scld | rural | ruralUnknown/Not Reported | 0.22724981485 | 0.1629504533 | 0.16396371383201136 | 1.0000000000000000 | 0.00542841218 |  |
| pf\_hx\_a\_scld | smoking | smokingSmoke or use vape | 0.38382346020 | 0.1778615463 | 0.03156290235866580 | 1.0000000000000000 | 0.04037504949 |  |
| pf\_hx\_a\_scld | smoking | smokingUnknown/Not Reported | 0.42443224230 | 0.1147693075 | 0.00024963802756887 | 0.0137300915162876 | 0.04037504949 | \* |
| pf\_hx\_a\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholNo, former drinker (stopped) | -0.10651007576 | 0.1552010573 | 0.49296709044419185 | 1.0000000000000000 | 0.02804641240 |  |
| pf\_hx\_a\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholUnknown/Not Reported | 0.29694661582 | 0.1438158989 | 0.03963369285390450 | 1.0000000000000000 | 0.02804641240 |  |
| pf\_hx\_a\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholYes, current drinker | -0.08549871620 | 0.1435208347 | 0.55172036530077662 | 1.0000000000000000 | 0.02804641240 |  |
| pf\_hx\_a\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day1-2 alcoholic drinks per day | -0.10442762134 | 0.2597928761 | 0.68793945814009794 | 1.0000000000000000 | 0.00748667208 |  |
| pf\_hx\_a\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day3-4 alcoholic drinks per day | -0.27319094465 | 0.4226774067 | 0.51845922867124128 | 1.0000000000000000 | 0.00748667208 |  |
| pf\_hx\_a\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayUnknown/Not Reported | 0.13982610455 | 0.1249634923 | 0.26388573205592636 | 1.0000000000000000 | 0.00748667208 |  |
| pf\_hx\_a\_scld | sq\_self\_hep\_b | sq\_self\_hep\_bUnknown/Not Reported | 0.33867951731 | 0.1121541562 | 0.00270288931958967 | 0.1486589125774316 | 0.02872192683 |  |
| pf\_hx\_a\_scld | sq\_self\_hep\_b | sq\_self\_hep\_bYes | -0.23822011787 | 0.2477419031 | 0.33688740607011625 | 1.0000000000000000 | 0.02872192683 |  |
| pf\_hx\_a\_scld | sq\_self\_hep\_c | sq\_self\_hep\_cUnknown/Not Reported | 0.38630395960 | 0.1122650665 | 0.00064482875448686 | 0.0354655814967774 | 0.03273294493 | \* |
| pf\_hx\_a\_scld | sq\_self\_hep\_c | sq\_self\_hep\_cYes | 0.33973550067 | 0.2407171122 | 0.15897129077815536 | 1.0000000000000000 | 0.03273294493 |  |
| pf\_hx\_a\_scld | supp\_meds\_tylenol | supp\_meds\_tylenolUnknown/Not Reported | -0.03979105231 | 0.3823628772 | 0.91717244608161719 | 1.0000000000000000 | 0.00107274772 |  |
| pf\_hx\_a\_scld | supp\_meds\_tylenol | supp\_meds\_tylenolYes | -0.35438704003 | 0.6281151938 | 0.57295049357703465 | 1.0000000000000000 | 0.00107274772 |  |
| pf\_hx\_a\_scld | supp\_meds\_steroids | supp\_meds\_steroidsUnknown/Not Reported | 0.17348130782 | 0.3380581521 | 0.60813457682162686 | 1.0000000000000000 | 0.00133064883 |  |
| pf\_hx\_a\_scld | supp\_meds\_steroids | supp\_meds\_steroidsYes | 0.65707774780 | 1.0561963137 | 0.53424295732899529 | 1.0000000000000000 | 0.00133064883 |  |
| pf\_hx\_a\_scld | sq\_water\_well | sq\_water\_wellUnknown/Not Reported | 0.28458588928 | 0.1112517404 | 0.01091883956148439 | 0.6005361758816412 | 0.02132894923 |  |
| pf\_hx\_a\_scld | sq\_water\_well | sq\_water\_wellYes | -0.05692071246 | 0.1518751831 | 0.70803138909271612 | 1.0000000000000000 | 0.02132894923 |  |
| pf\_hx\_a\_scld | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredUnknown/Not Reported | 0.37268296635 | 0.1390426816 | 0.00767897644492330 | 0.4223437044707815 | 0.02079646358 |  |
| pf\_hx\_a\_scld | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredYes | 0.13244034482 | 0.1323320017 | 0.31755980881213985 | 1.0000000000000000 | 0.02079646358 |  |
| pf\_hx\_a\_scld | sq\_water\_house\_filtration | sq\_water\_house\_filtrationUnknown/Not Reported | 0.27652632056 | 0.1082183842 | 0.01100469577269840 | 0.6052582674984122 | 0.01984623041 |  |
| pf\_hx\_a\_scld | sq\_water\_house\_filtration | sq\_water\_house\_filtrationYes | -0.06234680346 | 0.1822278447 | 0.73243980970183031 | 1.0000000000000000 | 0.01984623041 |  |
| pf\_hx\_a\_scld | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterUnknown/Not Reported | 0.33122239842 | 0.1201303546 | 0.00611511609349293 | 0.3363313851421113 | 0.02093288239 |  |
| pf\_hx\_a\_scld | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterYes | 0.09641517113 | 0.1295177473 | 0.45709065759293344 | 1.0000000000000000 | 0.02093288239 |  |
| pf\_hx\_a\_scld | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterUnknown/Not Reported | 0.28947527111 | 0.1104202005 | 0.00910866204875724 | 0.5009764126816483 | 0.02357035545 |  |
| pf\_hx\_a\_scld | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterYes | -0.08575238784 | 0.1550363636 | 0.58051667684539865 | 1.0000000000000000 | 0.02357035545 |  |
| pf\_hx\_a\_scld | sq\_water\_bottled | sq\_water\_bottledUnknown/Not Reported | 0.32964303863 | 0.1403114933 | 0.01932347445562221 | 1.0000000000000000 | 0.01902616747 |  |
| pf\_hx\_a\_scld | sq\_water\_bottled | sq\_water\_bottledYes | 0.06993004302 | 0.1354290239 | 0.60590779765292924 | 1.0000000000000000 | 0.01902616747 |  |
| pf\_hx\_a\_scld | sq\_water\_none | sq\_water\_noneUnknown/Not Reported | 0.27947592083 | 0.1059188158 | 0.00867219569146533 | 0.4769707630305930 | 0.02356305335 |  |
| pf\_hx\_a\_scld | sq\_water\_none | sq\_water\_noneYes | -0.22926941595 | 0.2433316869 | 0.34669199788674454 | 1.0000000000000000 | 0.02356305335 |  |
| pf\_hx\_a\_scld | sq\_water\_other\_type | sq\_water\_other\_typeUnknown/Not Reported | 0.33721476837 | 0.1066199578 | 0.00169010311525126 | 0.0929556713388194 | 0.03773423221 |  |
| pf\_hx\_a\_scld | sq\_water\_other\_type | sq\_water\_other\_typeYes | 0.56525519790 | 0.2013098511 | 0.00524748730281680 | 0.2886118016549238 | 0.03773423221 |  |
| pf\_hx\_s\_scld | age\_at\_enrollment | age\_at\_enrollment | 0.02303963456 | 0.0054381415 | 0.00002886969906048 | 0.0015878334483265 | 0.04761755639 | \* |
| pf\_hx\_s\_scld | bmi | bmi | -0.01294812141 | 0.0077596332 | 0.09611802745084295 | 1.0000000000000000 | 0.00821878730 |  |
| pf\_hx\_s\_scld | trig\_mg\_d\_l | trig\_mg\_d\_l | 0.00006026119 | 0.0006752609 | 0.92894071463283046 | 1.0000000000000000 | 0.00002256045 |  |
| pf\_hx\_s\_scld | source | sourceDUKE | 0.20089579824 | 0.1489265714 | 0.17816637785405615 | 1.0000000000000000 | 0.02199536955 |  |
| pf\_hx\_s\_scld | source | sourceNCSU | 0.28773100400 | 0.1270138274 | 0.02406241741592427 | 1.0000000000000000 | 0.02199536955 |  |
| pf\_hx\_s\_scld | source | sourceUNC | -0.24039891626 | 0.2559007188 | 0.34812012829126060 | 1.0000000000000000 | 0.02199536955 |  |
| pf\_hx\_s\_scld | sex | sexMale | 0.18719769132 | 0.1074154665 | 0.08219582251875361 | 1.0000000000000000 | 0.00801282305 |  |
| pf\_hx\_s\_scld | race\_eth\_label | race\_eth\_labelNHB | 0.05078849200 | 0.2551613436 | 0.84233629638900953 | 1.0000000000000000 | 0.01588883363 |  |
| pf\_hx\_s\_scld | race\_eth\_label | race\_eth\_labelNHO | -0.11510427163 | 0.3486690728 | 0.74149107535181924 | 1.0000000000000000 | 0.01588883363 |  |
| pf\_hx\_s\_scld | race\_eth\_label | race\_eth\_labelNHW | 0.27422981845 | 0.2445850125 | 0.26292213105598811 | 1.0000000000000000 | 0.01588883363 |  |
| pf\_hx\_s\_scld | race\_eth\_label | race\_eth\_labelUnknown/Not Reported | 0.03888580877 | 0.3058030064 | 0.89888254812528012 | 1.0000000000000000 | 0.01588883363 |  |
| pf\_hx\_s\_scld | race\_final\_label | race\_final\_labelAmerican Indian | -0.12541197098 | 0.7125052103 | 0.86037830965615614 | 1.0000000000000000 | 0.01467577717 |  |
| pf\_hx\_s\_scld | race\_final\_label | race\_final\_labelAmerican Indian/Alaskan Native | -0.56765432777 | 0.5059566269 | 0.26261635127196636 | 1.0000000000000000 | 0.01467577717 |  |
| pf\_hx\_s\_scld | race\_final\_label | race\_final\_labelAsian | -0.09411026424 | 0.5829945372 | 0.87184652297268461 | 1.0000000000000000 | 0.01467577717 |  |
| pf\_hx\_s\_scld | race\_final\_label | race\_final\_labelAsian/Pacific Islander | -0.40797332376 | 0.4148512820 | 0.32604479871633008 | 1.0000000000000000 | 0.01467577717 |  |
| pf\_hx\_s\_scld | race\_final\_label | race\_final\_labelBlack | -0.20988620230 | 0.1160699584 | 0.07137795642001048 | 1.0000000000000000 | 0.01467577717 |  |
| pf\_hx\_s\_scld | race\_final\_label | race\_final\_labelMore than one race | -0.26436616917 | 1.0054883428 | 0.79275654669035089 | 1.0000000000000000 | 0.01467577717 |  |
| pf\_hx\_s\_scld | race\_final\_label | race\_final\_labelOther | -0.29339427221 | 0.2970034748 | 0.32387441802348305 | 1.0000000000000000 | 0.01467577717 |  |
| pf\_hx\_s\_scld | race\_final\_label | race\_final\_labelUnknown/Not Reported | -0.14073047032 | 0.3848803263 | 0.71483775593414878 | 1.0000000000000000 | 0.01467577717 |  |
| pf\_hx\_s\_scld | ethnicity | ethnicityNot Hispanic | 0.18917716778 | 0.2422635959 | 0.43536968718843172 | 1.0000000000000000 | 0.00289121098 |  |
| pf\_hx\_s\_scld | ethnicity | ethnicityUnknown/Not Reported | 0.03888580877 | 0.3069938852 | 0.89927233218110325 | 1.0000000000000000 | 0.00289121098 |  |
| pf\_hx\_s\_scld | rural | ruralLiving in rural area | -0.24655106670 | 0.1857908175 | 0.18530426138296391 | 1.0000000000000000 | 0.00622925230 |  |
| pf\_hx\_s\_scld | rural | ruralUnknown/Not Reported | -0.14787709652 | 0.1628848353 | 0.36453370981273614 | 1.0000000000000000 | 0.00622925230 |  |
| pf\_hx\_s\_scld | smoking | smokingSmoke or use vape | -0.32381027411 | 0.1801411527 | 0.07305486987872799 | 1.0000000000000000 | 0.01561887240 |  |
| pf\_hx\_s\_scld | smoking | smokingUnknown/Not Reported | -0.22948580632 | 0.1162402767 | 0.04908826819920185 | 1.0000000000000000 | 0.01561887240 |  |
| pf\_hx\_s\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholNo, former drinker (stopped) | -0.09194220808 | 0.1567145960 | 0.55776878080576808 | 1.0000000000000000 | 0.00899676755 |  |
| pf\_hx\_s\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholUnknown/Not Reported | -0.22484955476 | 0.1452184083 | 0.12238274703819219 | 1.0000000000000000 | 0.00899676755 |  |
| pf\_hx\_s\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholYes, current drinker | -0.00556695961 | 0.1449204665 | 0.96937817849957508 | 1.0000000000000000 | 0.00899676755 |  |
| pf\_hx\_s\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day1-2 alcoholic drinks per day | 0.11608471601 | 0.2602215802 | 0.65578352846413657 | 1.0000000000000000 | 0.00420832520 |  |
| pf\_hx\_s\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day3-4 alcoholic drinks per day | -0.26182699346 | 0.4233748990 | 0.53666952886876229 | 1.0000000000000000 | 0.00420832520 |  |
| pf\_hx\_s\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayUnknown/Not Reported | -0.10529965991 | 0.1251697041 | 0.40074255201137199 | 1.0000000000000000 | 0.00420832520 |  |
| pf\_hx\_s\_scld | sq\_self\_hep\_b | sq\_self\_hep\_bUnknown/Not Reported | -0.14193861153 | 0.1134265348 | 0.21157942812386105 | 1.0000000000000000 | 0.00655879636 |  |
| pf\_hx\_s\_scld | sq\_self\_hep\_b | sq\_self\_hep\_bYes | 0.19215207005 | 0.2505525121 | 0.44361557003895957 | 1.0000000000000000 | 0.00655879636 |  |
| pf\_hx\_s\_scld | sq\_self\_hep\_c | sq\_self\_hep\_cUnknown/Not Reported | -0.14660686900 | 0.1138662237 | 0.19870154554602260 | 1.0000000000000000 | 0.00494529842 |  |
| pf\_hx\_s\_scld | sq\_self\_hep\_c | sq\_self\_hep\_cYes | -0.15523926134 | 0.2441502901 | 0.52527191567200049 | 1.0000000000000000 | 0.00494529842 |  |
| pf\_hx\_s\_scld | supp\_meds\_tylenol | supp\_meds\_tylenolUnknown/Not Reported | 0.30494095510 | 0.3822150382 | 0.42547659640687141 | 1.0000000000000000 | 0.00184506040 |  |
| pf\_hx\_s\_scld | supp\_meds\_tylenol | supp\_meds\_tylenolYes | 0.41908332375 | 0.6278723357 | 0.50488516530129868 | 1.0000000000000000 | 0.00184506040 |  |
| pf\_hx\_s\_scld | supp\_meds\_steroids | supp\_meds\_steroidsUnknown/Not Reported | 0.04092410029 | 0.3380592368 | 0.90371151384786230 | 1.0000000000000000 | 0.00132423966 |  |
| pf\_hx\_s\_scld | supp\_meds\_steroids | supp\_meds\_steroidsYes | -0.65705384429 | 1.0561997028 | 0.53425913283768089 | 1.0000000000000000 | 0.00132423966 |  |
| pf\_hx\_s\_scld | sq\_water\_well | sq\_water\_wellUnknown/Not Reported | -0.20912105580 | 0.1118256103 | 0.06225382264052396 | 1.0000000000000000 | 0.01120634995 |  |
| pf\_hx\_s\_scld | sq\_water\_well | sq\_water\_wellYes | -0.21812448525 | 0.1526586009 | 0.15388307408751842 | 1.0000000000000000 | 0.01120634995 |  |
| pf\_hx\_s\_scld | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredUnknown/Not Reported | -0.02362122330 | 0.1393547181 | 0.86549139364514827 | 1.0000000000000000 | 0.01639651761 |  |
| pf\_hx\_s\_scld | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredYes | 0.24293059625 | 0.1326289783 | 0.06779584280841820 | 1.0000000000000000 | 0.01639651761 |  |
| pf\_hx\_s\_scld | sq\_water\_house\_filtration | sq\_water\_house\_filtrationUnknown/Not Reported | -0.16476832282 | 0.1089627926 | 0.13133740209378553 | 1.0000000000000000 | 0.00631536377 |  |
| pf\_hx\_s\_scld | sq\_water\_house\_filtration | sq\_water\_house\_filtrationYes | -0.01594137263 | 0.1834813466 | 0.93081104646967838 | 1.0000000000000000 | 0.00631536377 |  |
| pf\_hx\_s\_scld | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterUnknown/Not Reported | -0.13799983326 | 0.1209923956 | 0.25477840057299572 | 1.0000000000000000 | 0.00683113088 |  |
| pf\_hx\_s\_scld | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterYes | 0.05896978212 | 0.1304471511 | 0.65148799314023809 | 1.0000000000000000 | 0.00683113088 |  |
| pf\_hx\_s\_scld | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterUnknown/Not Reported | -0.15783530672 | 0.1112958742 | 0.15697464465805316 | 1.0000000000000000 | 0.00802203737 |  |
| pf\_hx\_s\_scld | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterYes | 0.07812098769 | 0.1562658603 | 0.61742210595572367 | 1.0000000000000000 | 0.00802203737 |  |
| pf\_hx\_s\_scld | sq\_water\_bottled | sq\_water\_bottledUnknown/Not Reported | -0.48924546335 | 0.1391420472 | 0.00049146516070939 | 0.0270305838390163 | 0.03531015416 | \* |
| pf\_hx\_s\_scld | sq\_water\_bottled | sq\_water\_bottledYes | -0.42565285199 | 0.1343002715 | 0.00165296201584316 | 0.0909129108713738 | 0.03531015416 |  |
| pf\_hx\_s\_scld | sq\_water\_none | sq\_water\_noneUnknown/Not Reported | -0.15570725838 | 0.1066091610 | 0.14497821238538158 | 1.0000000000000000 | 0.01079336236 |  |
| pf\_hx\_s\_scld | sq\_water\_none | sq\_water\_noneYes | -0.40194594145 | 0.2449176455 | 0.10160522807343024 | 1.0000000000000000 | 0.01079336236 |  |
| pf\_hx\_s\_scld | sq\_water\_other\_type | sq\_water\_other\_typeUnknown/Not Reported | -0.14423859690 | 0.1083890750 | 0.18408036183404880 | 1.0000000000000000 | 0.00553605067 |  |
| pf\_hx\_s\_scld | sq\_water\_other\_type | sq\_water\_other\_typeYes | -0.17196169235 | 0.2046501331 | 0.40129154196832417 | 1.0000000000000000 | 0.00553605067 |  |
| pf\_pe\_a\_scld | age\_at\_enrollment | age\_at\_enrollment | 0.00422728729 | 0.0052040186 | 0.41715088028540981 | 1.0000000000000000 | 0.00183465280 |  |
| pf\_pe\_a\_scld | bmi | bmi | -0.00405085209 | 0.0078799036 | 0.60753830998090086 | 1.0000000000000000 | 0.00078590533 |  |
| pf\_pe\_a\_scld | trig\_mg\_d\_l | trig\_mg\_d\_l | -0.00053365608 | 0.0006217180 | 0.39127771559889879 | 1.0000000000000000 | 0.00208283977 |  |
| pf\_pe\_a\_scld | source | sourceDUKE | -0.59790103757 | 0.1460935228 | 0.00005228868616012 | 0.0028758777388064 | 0.05885085700 | \* |
| pf\_pe\_a\_scld | source | sourceNCSU | -0.26557025946 | 0.1245976276 | 0.03370576474755375 | 1.0000000000000000 | 0.05885085700 |  |
| pf\_pe\_a\_scld | source | sourceUNC | 0.32661198117 | 0.2510326877 | 0.19403427471930992 | 1.0000000000000000 | 0.05885085700 |  |
| pf\_pe\_a\_scld | sex | sexMale | -0.15368685249 | 0.1075567926 | 0.15386599131093590 | 1.0000000000000000 | 0.00540079892 |  |
| pf\_pe\_a\_scld | race\_eth\_label | race\_eth\_labelNHB | 0.07231545684 | 0.2553045050 | 0.77714097293777329 | 1.0000000000000000 | 0.01478422792 |  |
| pf\_pe\_a\_scld | race\_eth\_label | race\_eth\_labelNHO | 0.47425865769 | 0.3488646980 | 0.17483025510465880 | 1.0000000000000000 | 0.01478422792 |  |
| pf\_pe\_a\_scld | race\_eth\_label | race\_eth\_labelNHW | 0.08698417548 | 0.2447222400 | 0.72246058781372169 | 1.0000000000000000 | 0.01478422792 |  |
| pf\_pe\_a\_scld | race\_eth\_label | race\_eth\_labelUnknown/Not Reported | 0.45767860326 | 0.3059745810 | 0.13554981673753960 | 1.0000000000000000 | 0.01478422792 |  |
| pf\_pe\_a\_scld | race\_final\_label | race\_final\_labelAmerican Indian | 0.34729696079 | 0.7059440523 | 0.62303943070382883 | 1.0000000000000000 | 0.03273908862 |  |
| pf\_pe\_a\_scld | race\_final\_label | race\_final\_labelAmerican Indian/Alaskan Native | 1.65297624760 | 0.5012974872 | 0.00107063992871887 | 0.0588851960795378 | 0.03273908862 |  |
| pf\_pe\_a\_scld | race\_final\_label | race\_final\_labelAsian | -0.07238566712 | 0.5776259881 | 0.90034178273734011 | 1.0000000000000000 | 0.03273908862 |  |
| pf\_pe\_a\_scld | race\_final\_label | race\_final\_labelAsian/Pacific Islander | -0.04129806505 | 0.4110310927 | 0.92002234501068081 | 1.0000000000000000 | 0.03273908862 |  |
| pf\_pe\_a\_scld | race\_final\_label | race\_final\_labelBlack | 0.06298670916 | 0.1150011194 | 0.58422548881022029 | 1.0000000000000000 | 0.03273908862 |  |
| pf\_pe\_a\_scld | race\_final\_label | race\_final\_labelMore than one race | -0.25891127952 | 0.9962292276 | 0.79509259208137861 | 1.0000000000000000 | 0.03273908862 |  |
| pf\_pe\_a\_scld | race\_final\_label | race\_final\_labelOther | -0.20709863531 | 0.2942684959 | 0.48201712804660735 | 1.0000000000000000 | 0.03273908862 |  |
| pf\_pe\_a\_scld | race\_final\_label | race\_final\_labelUnknown/Not Reported | -0.22782367745 | 0.3813361268 | 0.55058320024782048 | 1.0000000000000000 | 0.03273908862 |  |
| pf\_pe\_a\_scld | ethnicity | ethnicityNot Hispanic | 0.09994099180 | 0.2415315669 | 0.67927159271312165 | 1.0000000000000000 | 0.00890787897 |  |
| pf\_pe\_a\_scld | ethnicity | ethnicityUnknown/Not Reported | 0.45767860326 | 0.3060662657 | 0.13566211156981897 | 1.0000000000000000 | 0.00890787897 |  |
| pf\_pe\_a\_scld | rural | ruralLiving in rural area | -0.14723144214 | 0.1856425798 | 0.42822635251511909 | 1.0000000000000000 | 0.00781442803 |  |
| pf\_pe\_a\_scld | rural | ruralUnknown/Not Reported | -0.26072761706 | 0.1627548737 | 0.11000532282995749 | 1.0000000000000000 | 0.00781442803 |  |
| pf\_pe\_a\_scld | smoking | smokingSmoke or use vape | 0.21611201277 | 0.1810586886 | 0.23338823688726526 | 1.0000000000000000 | 0.00556558746 |  |
| pf\_pe\_a\_scld | smoking | smokingUnknown/Not Reported | -0.06618776224 | 0.1168323381 | 0.57137978178831528 | 1.0000000000000000 | 0.00556558746 |  |
| pf\_pe\_a\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholNo, former drinker (stopped) | 0.10156874252 | 0.1570588349 | 0.51822776011725313 | 1.0000000000000000 | 0.00463831551 |  |
| pf\_pe\_a\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholUnknown/Not Reported | -0.00190253764 | 0.1455373947 | 0.98957692131135044 | 1.0000000000000000 | 0.00463831551 |  |
| pf\_pe\_a\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholYes, current drinker | 0.15143861403 | 0.1452387985 | 0.29776677122813072 | 1.0000000000000000 | 0.00463831551 |  |
| pf\_pe\_a\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day1-2 alcoholic drinks per day | 0.05748739112 | 0.2601033248 | 0.82519940509489453 | 1.0000000000000000 | 0.00511317715 |  |
| pf\_pe\_a\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day3-4 alcoholic drinks per day | -0.34492434674 | 0.4231825000 | 0.41554963544339829 | 1.0000000000000000 | 0.00511317715 |  |
| pf\_pe\_a\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayUnknown/Not Reported | -0.13243173333 | 0.1251128218 | 0.29051139953655003 | 1.0000000000000000 | 0.00511317715 |  |
| pf\_pe\_a\_scld | sq\_self\_hep\_b | sq\_self\_hep\_bUnknown/Not Reported | -0.12772680791 | 0.1135543263 | 0.26138986317014279 | 1.0000000000000000 | 0.00431902216 |  |
| pf\_pe\_a\_scld | sq\_self\_hep\_b | sq\_self\_hep\_bYes | -0.18926614933 | 0.2508347961 | 0.45099558920554317 | 1.0000000000000000 | 0.00431902216 |  |
| pf\_pe\_a\_scld | sq\_self\_hep\_c | sq\_self\_hep\_cUnknown/Not Reported | -0.12436403200 | 0.1139071736 | 0.27562127705553680 | 1.0000000000000000 | 0.00422946404 |  |
| pf\_pe\_a\_scld | sq\_self\_hep\_c | sq\_self\_hep\_cYes | -0.19167028106 | 0.2442380942 | 0.43308498300754394 | 1.0000000000000000 | 0.00422946404 |  |
| pf\_pe\_a\_scld | supp\_meds\_tylenol | supp\_meds\_tylenolUnknown/Not Reported | 0.25950328321 | 0.3822704557 | 0.49765332661943340 | 1.0000000000000000 | 0.00155559370 |  |
| pf\_pe\_a\_scld | supp\_meds\_tylenol | supp\_meds\_tylenolYes | 0.07771900517 | 0.6279633712 | 0.90156876480204828 | 1.0000000000000000 | 0.00155559370 |  |
| pf\_pe\_a\_scld | supp\_meds\_steroids | supp\_meds\_steroidsUnknown/Not Reported | 0.21785483823 | 0.3379829720 | 0.51959775927009866 | 1.0000000000000000 | 0.00177478383 |  |
| pf\_pe\_a\_scld | supp\_meds\_steroids | supp\_meds\_steroidsYes | -0.29015095263 | 1.0559614282 | 0.78364104048900063 | 1.0000000000000000 | 0.00177478383 |  |
| pf\_pe\_a\_scld | sq\_water\_well | sq\_water\_wellUnknown/Not Reported | -0.03539646609 | 0.1124416777 | 0.75308976935880034 | 1.0000000000000000 | 0.00028145563 |  |
| pf\_pe\_a\_scld | sq\_water\_well | sq\_water\_wellYes | -0.00403742287 | 0.1534996245 | 0.97903005717147185 | 1.0000000000000000 | 0.00028145563 |  |
| pf\_pe\_a\_scld | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredUnknown/Not Reported | -0.22763959852 | 0.1399252884 | 0.10460564698569111 | 1.0000000000000000 | 0.00832554850 |  |
| pf\_pe\_a\_scld | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredYes | -0.20965868166 | 0.1331720108 | 0.11625097875513281 | 1.0000000000000000 | 0.00832554850 |  |
| pf\_pe\_a\_scld | sq\_water\_house\_filtration | sq\_water\_house\_filtrationUnknown/Not Reported | 0.03180003008 | 0.1082034664 | 0.76900375265055310 | 1.0000000000000000 | 0.02011643848 |  |
| pf\_pe\_a\_scld | sq\_water\_house\_filtration | sq\_water\_house\_filtrationYes | 0.49963711198 | 0.1822027248 | 0.00639538693209372 | 0.3517462812651548 | 0.02011643848 |  |
| pf\_pe\_a\_scld | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterUnknown/Not Reported | -0.00731918832 | 0.1213352277 | 0.95193128359767076 | 1.0000000000000000 | 0.00119486529 |  |
| pf\_pe\_a\_scld | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterYes | 0.07300597137 | 0.1308167734 | 0.57712410414268367 | 1.0000000000000000 | 0.00119486529 |  |
| pf\_pe\_a\_scld | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterUnknown/Not Reported | -0.02645028662 | 0.1117193995 | 0.81297502605540750 | 1.0000000000000000 | 0.00045792781 |  |
| pf\_pe\_a\_scld | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterYes | 0.03855810651 | 0.1568605143 | 0.80596269263470566 | 1.0000000000000000 | 0.00045792781 |  |
| pf\_pe\_a\_scld | sq\_water\_bottled | sq\_water\_bottledUnknown/Not Reported | -0.12807664111 | 0.1415043026 | 0.36598943670439332 | 1.0000000000000000 | 0.00227645678 |  |
| pf\_pe\_a\_scld | sq\_water\_bottled | sq\_water\_bottledYes | -0.10002749761 | 0.1365803267 | 0.46439951786494849 | 1.0000000000000000 | 0.00227645678 |  |
| pf\_pe\_a\_scld | sq\_water\_none | sq\_water\_noneUnknown/Not Reported | -0.00134633678 | 0.1069193876 | 0.98995994083384609 | 1.0000000000000000 | 0.00502791543 |  |
| pf\_pe\_a\_scld | sq\_water\_none | sq\_water\_noneYes | -0.33307110634 | 0.2456303420 | 0.17591982687334426 | 1.0000000000000000 | 0.00502791543 |  |
| pf\_pe\_a\_scld | sq\_water\_other\_type | sq\_water\_other\_typeUnknown/Not Reported | 0.02991785344 | 0.1086115393 | 0.78311655900996846 | 1.0000000000000000 | 0.00144966581 |  |
| pf\_pe\_a\_scld | sq\_water\_other\_type | sq\_water\_other\_typeYes | 0.14932828872 | 0.2050701694 | 0.46695697882131204 | 1.0000000000000000 | 0.00144966581 |  |
| pf\_pe\_s\_scld | age\_at\_enrollment | age\_at\_enrollment | 0.00723125430 | 0.0054321564 | 0.18396989965273475 | 1.0000000000000000 | 0.00491190342 |  |
| pf\_pe\_s\_scld | bmi | bmi | -0.02551872568 | 0.0075545675 | 0.00081610677927414 | 0.0448858728600776 | 0.03284399762 | \* |
| pf\_pe\_s\_scld | trig\_mg\_d\_l | trig\_mg\_d\_l | -0.00011850725 | 0.0006750068 | 0.86073672780481414 | 1.0000000000000000 | 0.00008730939 |  |
| pf\_pe\_s\_scld | source | sourceDUKE | 0.12846146544 | 0.1482855096 | 0.38687468700134564 | 1.0000000000000000 | 0.03039698759 |  |
| pf\_pe\_s\_scld | source | sourceNCSU | 0.39720909646 | 0.1264670901 | 0.00181891699048696 | 0.1000404344767829 | 0.03039698759 |  |
| pf\_pe\_s\_scld | source | sourceUNC | 0.04155554741 | 0.2547991814 | 0.87053458291733876 | 1.0000000000000000 | 0.03039698759 |  |
| pf\_pe\_s\_scld | sex | sexMale | 0.08119651991 | 0.1077670989 | 0.45165441374253601 | 1.0000000000000000 | 0.00150750724 |  |
| pf\_pe\_s\_scld | race\_eth\_label | race\_eth\_labelNHB | -0.00586181941 | 0.2548955701 | 0.98166500714231375 | 1.0000000000000000 | 0.01793784655 |  |
| pf\_pe\_s\_scld | race\_eth\_label | race\_eth\_labelNHO | 0.07238360316 | 0.3483059026 | 0.83548591495916558 | 1.0000000000000000 | 0.01793784655 |  |
| pf\_pe\_s\_scld | race\_eth\_label | race\_eth\_labelNHW | 0.27902406267 | 0.2443302552 | 0.25418843077719411 | 1.0000000000000000 | 0.01793784655 |  |
| pf\_pe\_s\_scld | race\_eth\_label | race\_eth\_labelUnknown/Not Reported | 0.04716044722 | 0.3054844851 | 0.87739425723636211 | 1.0000000000000000 | 0.01793784655 |  |
| pf\_pe\_s\_scld | race\_final\_label | race\_final\_labelAmerican Indian | 1.36028732641 | 0.7037444088 | 0.05400990074290221 | 1.0000000000000000 | 0.03875745357 |  |
| pf\_pe\_s\_scld | race\_final\_label | race\_final\_labelAmerican Indian/Alaskan Native | -0.67792247840 | 0.4997354997 | 0.17574960546629939 | 1.0000000000000000 | 0.03875745357 |  |
| pf\_pe\_s\_scld | race\_final\_label | race\_final\_labelAsian | -0.05066729394 | 0.5758261694 | 0.92993187406726230 | 1.0000000000000000 | 0.03875745357 |  |
| pf\_pe\_s\_scld | race\_final\_label | race\_final\_labelAsian/Pacific Islander | -0.43348449368 | 0.4097503653 | 0.29078243295853851 | 1.0000000000000000 | 0.03875745357 |  |
| pf\_pe\_s\_scld | race\_final\_label | race\_final\_labelBlack | -0.30480826458 | 0.1146427886 | 0.00818424840147474 | 0.4501336620811106 | 0.03875745357 |  |
| pf\_pe\_s\_scld | race\_final\_label | race\_final\_labelMore than one race | 0.21183589124 | 0.9931250876 | 0.83120895797991856 | 1.0000000000000000 | 0.03875745357 |  |
| pf\_pe\_s\_scld | race\_final\_label | race\_final\_labelOther | -0.36639427441 | 0.2933515878 | 0.21245914434554627 | 1.0000000000000000 | 0.03875745357 |  |
| pf\_pe\_s\_scld | race\_final\_label | race\_final\_labelUnknown/Not Reported | -0.37159837289 | 0.3801479256 | 0.32895717410028713 | 1.0000000000000000 | 0.03875745357 |  |
| pf\_pe\_s\_scld | ethnicity | ethnicityNot Hispanic | 0.18359567650 | 0.2423033832 | 0.44910052978292048 | 1.0000000000000000 | 0.00256367133 |  |
| pf\_pe\_s\_scld | ethnicity | ethnicityUnknown/Not Reported | 0.04716044722 | 0.3070443032 | 0.87801175679233379 | 1.0000000000000000 | 0.00256367133 |  |
| pf\_pe\_s\_scld | rural | ruralLiving in rural area | -0.29369835283 | 0.1853835734 | 0.11397432465805926 | 1.0000000000000000 | 0.01058106850 |  |
| pf\_pe\_s\_scld | rural | ruralUnknown/Not Reported | -0.22595188987 | 0.1625277999 | 0.16528201759409997 | 1.0000000000000000 | 0.01058106850 |  |
| pf\_pe\_s\_scld | smoking | smokingSmoke or use vape | -0.32812133861 | 0.1807361545 | 0.07025007004597797 | 1.0000000000000000 | 0.00910536009 |  |
| pf\_pe\_s\_scld | smoking | smokingUnknown/Not Reported | -0.08647518574 | 0.1166242155 | 0.45886310938747255 | 1.0000000000000000 | 0.00910536009 |  |
| pf\_pe\_s\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholNo, former drinker (stopped) | 0.00872138962 | 0.1564562359 | 0.95557605731020900 | 1.0000000000000000 | 0.01226161562 |  |
| pf\_pe\_s\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholUnknown/Not Reported | 0.05329752766 | 0.1449790008 | 0.71336276014425226 | 1.0000000000000000 | 0.01226161562 |  |
| pf\_pe\_s\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholYes, current drinker | 0.26418668784 | 0.1446815502 | 0.06864932704252635 | 1.0000000000000000 | 0.01226161562 |  |
| pf\_pe\_s\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day1-2 alcoholic drinks per day | 0.34598625878 | 0.2585667038 | 0.18167914444426966 | 1.0000000000000000 | 0.01683350589 |  |
| pf\_pe\_s\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day3-4 alcoholic drinks per day | -0.07706509184 | 0.4206824507 | 0.85474769829995156 | 1.0000000000000000 | 0.01683350589 |  |
| pf\_pe\_s\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayUnknown/Not Reported | -0.18716258000 | 0.1243736886 | 0.13320907616193359 | 1.0000000000000000 | 0.01683350589 |  |
| pf\_pe\_s\_scld | sq\_self\_hep\_b | sq\_self\_hep\_bUnknown/Not Reported | -0.04384126872 | 0.1137332794 | 0.70010452722554173 | 1.0000000000000000 | 0.00117831228 |  |
| pf\_pe\_s\_scld | sq\_self\_hep\_b | sq\_self\_hep\_bYes | -0.14852356441 | 0.2512300929 | 0.55475236942286110 | 1.0000000000000000 | 0.00117831228 |  |
| pf\_pe\_s\_scld | sq\_self\_hep\_c | sq\_self\_hep\_cUnknown/Not Reported | -0.00850483650 | 0.1141036990 | 0.94062361844988573 | 1.0000000000000000 | 0.00079047021 |  |
| pf\_pe\_s\_scld | sq\_self\_hep\_c | sq\_self\_hep\_cYes | -0.13325302642 | 0.2446594811 | 0.58632012495494368 | 1.0000000000000000 | 0.00079047021 |  |
| pf\_pe\_s\_scld | supp\_meds\_tylenol | supp\_meds\_tylenolUnknown/Not Reported | 0.18150755550 | 0.3824530643 | 0.63535705748587723 | 1.0000000000000000 | 0.00060146278 |  |
| pf\_pe\_s\_scld | supp\_meds\_tylenol | supp\_meds\_tylenolYes | 0.16741359119 | 0.6282633459 | 0.79002340503005719 | 1.0000000000000000 | 0.00060146278 |  |
| pf\_pe\_s\_scld | supp\_meds\_steroids | supp\_meds\_steroidsUnknown/Not Reported | 0.16256745203 | 0.3380378693 | 0.63085743718607123 | 1.0000000000000000 | 0.00145048121 |  |
| pf\_pe\_s\_scld | supp\_meds\_steroids | supp\_meds\_steroidsYes | -0.40299902397 | 1.0561329442 | 0.70298916766313346 | 1.0000000000000000 | 0.00145048121 |  |
| pf\_pe\_s\_scld | sq\_water\_well | sq\_water\_wellUnknown/Not Reported | -0.03177598964 | 0.1122907938 | 0.77734871293318042 | 1.0000000000000000 | 0.00296267194 |  |
| pf\_pe\_s\_scld | sq\_water\_well | sq\_water\_wellYes | -0.16152694531 | 0.1532936455 | 0.29269446086609541 | 1.0000000000000000 | 0.00296267194 |  |
| pf\_pe\_s\_scld | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredUnknown/Not Reported | 0.13088726281 | 0.1397398372 | 0.34954163790135262 | 1.0000000000000000 | 0.01095245577 |  |
| pf\_pe\_s\_scld | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredYes | 0.26544081020 | 0.1329955101 | 0.04667168825859383 | 1.0000000000000000 | 0.01095245577 |  |
| pf\_pe\_s\_scld | sq\_water\_house\_filtration | sq\_water\_house\_filtrationUnknown/Not Reported | 0.03539716070 | 0.1092398960 | 0.74609488302110494 | 1.0000000000000000 | 0.00125485645 |  |
| pf\_pe\_s\_scld | sq\_water\_house\_filtration | sq\_water\_house\_filtrationYes | 0.12286695845 | 0.1839479582 | 0.50458013295510473 | 1.0000000000000000 | 0.00125485645 |  |
| pf\_pe\_s\_scld | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterUnknown/Not Reported | 0.07422498204 | 0.1213464924 | 0.54112145438894954 | 1.0000000000000000 | 0.00100940035 |  |
| pf\_pe\_s\_scld | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterYes | 0.04600188469 | 0.1308289183 | 0.72532178061484442 | 1.0000000000000000 | 0.00100940035 |  |
| pf\_pe\_s\_scld | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterUnknown/Not Reported | -0.01701590491 | 0.1117415311 | 0.87904866822130390 | 1.0000000000000000 | 0.00006186971 |  |
| pf\_pe\_s\_scld | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterYes | -0.00714787774 | 0.1568915884 | 0.96368572588700163 | 1.0000000000000000 | 0.00006186971 |  |
| pf\_pe\_s\_scld | sq\_water\_bottled | sq\_water\_bottledUnknown/Not Reported | -0.30337952011 | 0.1387869973 | 0.02943808106098152 | 1.0000000000000000 | 0.04022708694 |  |
| pf\_pe\_s\_scld | sq\_water\_bottled | sq\_water\_bottledYes | -0.52713535708 | 0.1339575763 | 0.00009910794049467 | 0.0054509367272068 | 0.04022708694 | \* |
| pf\_pe\_s\_scld | sq\_water\_none | sq\_water\_noneUnknown/Not Reported | 0.03220906487 | 0.1069569994 | 0.76347440250852572 | 1.0000000000000000 | 0.00432777549 |  |
| pf\_pe\_s\_scld | sq\_water\_none | sq\_water\_noneYes | -0.28637917545 | 0.2457167491 | 0.24456352714546090 | 1.0000000000000000 | 0.00432777549 |  |
| pf\_pe\_s\_scld | sq\_water\_other\_type | sq\_water\_other\_typeUnknown/Not Reported | -0.00069820403 | 0.1086820296 | 0.99487761581831213 | 1.0000000000000000 | 0.00015310175 |  |
| pf\_pe\_s\_scld | sq\_water\_other\_type | sq\_water\_other\_typeYes | 0.04767553387 | 0.2052032625 | 0.81640595739469646 | 1.0000000000000000 | 0.00015310175 |  |
| pf\_un\_a\_scld | age\_at\_enrollment | age\_at\_enrollment | 0.01474075004 | 0.0055531351 | 0.00829630670610244 | 0.4562968688356341 | 0.01924981816 |  |
| pf\_un\_a\_scld | bmi | bmi | -0.02788390573 | 0.0073054643 | 0.00016089041529066 | 0.0088489728409862 | 0.04155648504 | \* |
| pf\_un\_a\_scld | trig\_mg\_d\_l | trig\_mg\_d\_l | -0.00105386273 | 0.0006736822 | 0.11863558257777872 | 1.0000000000000000 | 0.00688466679 |  |
| pf\_un\_a\_scld | source | sourceDUKE | -0.12233567491 | 0.1475030347 | 0.40741994614468358 | 1.0000000000000000 | 0.04060281688 |  |
| pf\_un\_a\_scld | source | sourceNCSU | 0.16665102186 | 0.1257997469 | 0.18606871857653695 | 1.0000000000000000 | 0.04060281688 |  |
| pf\_un\_a\_scld | source | sourceUNC | -0.71085759563 | 0.2534546538 | 0.00529967763418086 | 0.2914822698799476 | 0.04060281688 |  |
| pf\_un\_a\_scld | sex | sexMale | -0.08107283790 | 0.1077673466 | 0.45234435016075591 | 1.0000000000000000 | 0.00150291814 |  |
| pf\_un\_a\_scld | race\_eth\_label | race\_eth\_labelNHB | 0.38843641214 | 0.2541014539 | 0.12719466758624104 | 1.0000000000000000 | 0.02404745939 |  |
| pf\_un\_a\_scld | race\_eth\_label | race\_eth\_labelNHO | 0.75496304658 | 0.3472207706 | 0.03031047612559701 | 1.0000000000000000 | 0.02404745939 |  |
| pf\_un\_a\_scld | race\_eth\_label | race\_eth\_labelNHW | 0.30938744827 | 0.2435690548 | 0.20479634375196532 | 1.0000000000000000 | 0.02404745939 |  |
| pf\_un\_a\_scld | race\_eth\_label | race\_eth\_labelUnknown/Not Reported | -0.06964204857 | 0.3045327613 | 0.81923914578153800 | 1.0000000000000000 | 0.02404745939 |  |
| pf\_un\_a\_scld | race\_final\_label | race\_final\_labelAmerican Indian | -0.54217003211 | 0.7013474731 | 0.43999328372661040 | 1.0000000000000000 | 0.04529423837 |  |
| pf\_un\_a\_scld | race\_final\_label | race\_final\_labelAmerican Indian/Alaskan Native | -0.49473597649 | 0.4980334131 | 0.32117620165951011 | 1.0000000000000000 | 0.04529423837 |  |
| pf\_un\_a\_scld | race\_final\_label | race\_final\_labelAsian | 0.31984176703 | 0.5738649200 | 0.57762843834789201 | 1.0000000000000000 | 0.04529423837 |  |
| pf\_un\_a\_scld | race\_final\_label | race\_final\_labelAsian/Pacific Islander | 1.39032924586 | 0.4083547659 | 0.00073512345398631 | 0.0404317899692472 | 0.04529423837 | \* |
| pf\_un\_a\_scld | race\_final\_label | race\_final\_labelBlack | 0.08140436173 | 0.1142523182 | 0.47660773266544987 | 1.0000000000000000 | 0.04529423837 |  |
| pf\_un\_a\_scld | race\_final\_label | race\_final\_labelMore than one race | 0.53300229345 | 0.9897425285 | 0.59053852024600917 | 1.0000000000000000 | 0.04529423837 |  |
| pf\_un\_a\_scld | race\_final\_label | race\_final\_labelOther | -0.22594287753 | 0.2923524397 | 0.44010936421997648 | 1.0000000000000000 | 0.04529423837 |  |
| pf\_un\_a\_scld | race\_final\_label | race\_final\_labelUnknown/Not Reported | -0.56024015523 | 0.3788531514 | 0.14005245576397632 | 1.0000000000000000 | 0.04529423837 |  |
| pf\_un\_a\_scld | ethnicity | ethnicityNot Hispanic | 0.35330235643 | 0.2406435037 | 0.14289994452075006 | 1.0000000000000000 | 0.01618257500 |  |
| pf\_un\_a\_scld | ethnicity | ethnicityUnknown/Not Reported | -0.06964204857 | 0.3049409213 | 0.81947623415181903 | 1.0000000000000000 | 0.01618257500 |  |
| pf\_un\_a\_scld | rural | ruralLiving in rural area | -0.21079073860 | 0.1860471455 | 0.25793964453798679 | 1.0000000000000000 | 0.00348523152 |  |
| pf\_un\_a\_scld | rural | ruralUnknown/Not Reported | -0.04719442936 | 0.1631095608 | 0.77247965322541445 | 1.0000000000000000 | 0.00348523152 |  |
| pf\_un\_a\_scld | smoking | smokingSmoke or use vape | -0.55938000641 | 0.1781023241 | 0.00181874007453686 | 0.1000307040995273 | 0.03777513131 |  |
| pf\_un\_a\_scld | smoking | smokingUnknown/Not Reported | -0.32017764170 | 0.1149246750 | 0.00560773476027302 | 0.3084254118150160 | 0.03777513131 |  |
| pf\_un\_a\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholNo, former drinker (stopped) | -0.17786232689 | 0.1536502098 | 0.24777442714207512 | 1.0000000000000000 | 0.04737386670 |  |
| pf\_un\_a\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholUnknown/Not Reported | -0.16663937622 | 0.1423788177 | 0.24258750496615397 | 1.0000000000000000 | 0.04737386670 |  |
| pf\_un\_a\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholYes, current drinker | 0.34004163394 | 0.1420867019 | 0.01719459843915620 | 0.9457029141535912 | 0.04737386670 |  |
| pf\_un\_a\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day1-2 alcoholic drinks per day | 0.16709286937 | 0.2549800164 | 0.51266621906039722 | 1.0000000000000000 | 0.04392015963 |  |
| pf\_un\_a\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day3-4 alcoholic drinks per day | 0.03513635302 | 0.4148469877 | 0.93254748917459640 | 1.0000000000000000 | 0.04392015963 |  |
| pf\_un\_a\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayUnknown/Not Reported | -0.42766182037 | 0.1226484489 | 0.00054676111079222 | 0.0300718610935722 | 0.04392015963 | \* |
| pf\_un\_a\_scld | sq\_self\_hep\_b | sq\_self\_hep\_bUnknown/Not Reported | -0.22785512960 | 0.1129453935 | 0.04436660508739628 | 1.0000000000000000 | 0.01496902888 |  |
| pf\_un\_a\_scld | sq\_self\_hep\_b | sq\_self\_hep\_bYes | 0.24387552625 | 0.2494896995 | 0.32895313970867956 | 1.0000000000000000 | 0.01496902888 |  |
| pf\_un\_a\_scld | sq\_self\_hep\_c | sq\_self\_hep\_cUnknown/Not Reported | -0.23110609461 | 0.1132996989 | 0.04207291408647388 | 1.0000000000000000 | 0.01482216684 |  |
| pf\_un\_a\_scld | sq\_self\_hep\_c | sq\_self\_hep\_cYes | 0.22064001249 | 0.2429355558 | 0.36434293822168251 | 1.0000000000000000 | 0.01482216684 |  |
| pf\_un\_a\_scld | supp\_meds\_tylenol | supp\_meds\_tylenolUnknown/Not Reported | -0.32443230158 | 0.3815158269 | 0.39565811530909123 | 1.0000000000000000 | 0.00549370224 |  |
| pf\_un\_a\_scld | supp\_meds\_tylenol | supp\_meds\_tylenolYes | 0.26527944634 | 0.6267237272 | 0.67233383417726300 | 1.0000000000000000 | 0.00549370224 |  |
| pf\_un\_a\_scld | supp\_meds\_steroids | supp\_meds\_steroidsUnknown/Not Reported | -0.43690149238 | 0.3374566723 | 0.19622409137501412 | 1.0000000000000000 | 0.00488119228 |  |
| pf\_un\_a\_scld | supp\_meds\_steroids | supp\_meds\_steroidsYes | -0.02186261809 | 1.0543171081 | 0.98346705424688374 | 1.0000000000000000 | 0.00488119228 |  |
| pf\_un\_a\_scld | sq\_water\_well | sq\_water\_wellUnknown/Not Reported | -0.12817120720 | 0.1122552769 | 0.25427262322351152 | 1.0000000000000000 | 0.00359328660 |  |
| pf\_un\_a\_scld | sq\_water\_well | sq\_water\_wellYes | -0.02495098293 | 0.1532451596 | 0.87074988658916408 | 1.0000000000000000 | 0.00359328660 |  |
| pf\_un\_a\_scld | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredUnknown/Not Reported | -0.22205510583 | 0.1399736296 | 0.11348990546404761 | 1.0000000000000000 | 0.00764022510 |  |
| pf\_un\_a\_scld | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredYes | -0.07001753613 | 0.1332180189 | 0.59948647097832886 | 1.0000000000000000 | 0.00764022510 |  |
| pf\_un\_a\_scld | sq\_water\_house\_filtration | sq\_water\_house\_filtrationUnknown/Not Reported | -0.13263834075 | 0.1090922884 | 0.22481218952720550 | 1.0000000000000000 | 0.00395209136 |  |
| pf\_un\_a\_scld | sq\_water\_house\_filtration | sq\_water\_house\_filtrationYes | -0.03978205473 | 0.1836994032 | 0.82866854646978583 | 1.0000000000000000 | 0.00395209136 |  |
| pf\_un\_a\_scld | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterUnknown/Not Reported | -0.13144880015 | 0.1211023463 | 0.27842603953196615 | 1.0000000000000000 | 0.00502524504 |  |
| pf\_un\_a\_scld | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterYes | 0.02976012029 | 0.1305656937 | 0.81982321014451420 | 1.0000000000000000 | 0.00502524504 |  |
| pf\_un\_a\_scld | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterUnknown/Not Reported | -0.11479817257 | 0.1115133450 | 0.30392858519815302 | 1.0000000000000000 | 0.00414162409 |  |
| pf\_un\_a\_scld | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterYes | 0.05286413942 | 0.1565712019 | 0.73582611255727159 | 1.0000000000000000 | 0.00414162409 |  |
| pf\_un\_a\_scld | sq\_water\_bottled | sq\_water\_bottledUnknown/Not Reported | -0.35114193595 | 0.1404337704 | 0.01283108050418380 | 0.7057094277301088 | 0.01731564483 |  |
| pf\_un\_a\_scld | sq\_water\_bottled | sq\_water\_bottledYes | -0.28139780657 | 0.1355470462 | 0.03857335714816601 | 1.0000000000000000 | 0.01731564483 |  |
| pf\_un\_a\_scld | sq\_water\_none | sq\_water\_noneUnknown/Not Reported | -0.09645572879 | 0.1070037554 | 0.36794161779746204 | 1.0000000000000000 | 0.00345707472 |  |
| pf\_un\_a\_scld | sq\_water\_none | sq\_water\_noneYes | -0.20912526088 | 0.2458241635 | 0.39547290349843378 | 1.0000000000000000 | 0.00345707472 |  |
| pf\_un\_a\_scld | sq\_water\_other\_type | sq\_water\_other\_typeUnknown/Not Reported | -0.13920849554 | 0.1084508236 | 0.20007125981871401 | 1.0000000000000000 | 0.00440264862 |  |
| pf\_un\_a\_scld | sq\_water\_other\_type | sq\_water\_other\_typeYes | -0.07811881114 | 0.2047667210 | 0.70304722582391288 | 1.0000000000000000 | 0.00440264862 |  |
| pfba\_scld | age\_at\_enrollment | age\_at\_enrollment | 0.00156141004 | 0.0051006435 | 0.75969057121585326 | 1.0000000000000000 | 0.00026096135 |  |
| pfba\_scld | bmi | bmi | -0.00261010632 | 0.0077804848 | 0.73748118274195495 | 1.0000000000000000 | 0.00033482538 |  |
| pfba\_scld | trig\_mg\_d\_l | trig\_mg\_d\_l | -0.00015137036 | 0.0006264002 | 0.80919075133267548 | 1.0000000000000000 | 0.00016539844 |  |
| pfba\_scld | source | sourceDUKE | -0.50659899172 | 0.1440971189 | 0.00049247622953313 | 0.0270861926243221 | 0.08439717570 | \* |
| pfba\_scld | source | sourceNCSU | -0.71331858138 | 0.1228949705 | 0.00000001380182137 | 0.0000007591001753 | 0.08439717570 | \* |
| pfba\_scld | source | sourceUNC | -0.67687749138 | 0.2476022644 | 0.00655977315886617 | 0.3607875237376396 | 0.08439717570 |  |
| pfba\_scld | sex | sexMale | 0.31907869439 | 0.1065856808 | 0.00293897166877725 | 0.1616434417827485 | 0.02327985055 |  |
| pfba\_scld | race\_eth\_label | race\_eth\_labelNHB | -0.38456128103 | 0.2535157231 | 0.13013569457742086 | 1.0000000000000000 | 0.02854162174 |  |
| pfba\_scld | race\_eth\_label | race\_eth\_labelNHO | -0.01545994530 | 0.3464203899 | 0.96442794455498793 | 1.0000000000000000 | 0.02854162174 |  |
| pfba\_scld | race\_eth\_label | race\_eth\_labelNHW | -0.17734261188 | 0.2430076023 | 0.46598140195591820 | 1.0000000000000000 | 0.02854162174 |  |
| pfba\_scld | race\_eth\_label | race\_eth\_labelUnknown/Not Reported | 0.28233582862 | 0.3038307810 | 0.35335867587746195 | 1.0000000000000000 | 0.02854162174 |  |
| pfba\_scld | race\_final\_label | race\_final\_labelAmerican Indian | 1.13561169417 | 0.7049771609 | 0.10806768285307439 | 1.0000000000000000 | 0.03538687857 |  |
| pfba\_scld | race\_final\_label | race\_final\_labelAmerican Indian/Alaskan Native | -0.42530906633 | 0.5006108885 | 0.39610942244147207 | 1.0000000000000000 | 0.03538687857 |  |
| pfba\_scld | race\_final\_label | race\_final\_labelAsian | -0.47144851746 | 0.5768348466 | 0.41428300467104739 | 1.0000000000000000 | 0.03538687857 |  |
| pfba\_scld | race\_final\_label | race\_final\_labelAsian/Pacific Islander | 0.30627546779 | 0.4104681268 | 0.45604501729654012 | 1.0000000000000000 | 0.03538687857 |  |
| pfba\_scld | race\_final\_label | race\_final\_labelBlack | -0.30743253810 | 0.1148436089 | 0.00776078864512350 | 0.4268433754817926 | 0.03538687857 |  |
| pfba\_scld | race\_final\_label | race\_final\_labelMore than one race | -0.47144851746 | 0.9948647491 | 0.63586430273091588 | 1.0000000000000000 | 0.03538687857 |  |
| pfba\_scld | race\_final\_label | race\_final\_labelOther | -0.42074996522 | 0.2938654531 | 0.15305394925530741 | 1.0000000000000000 | 0.03538687857 |  |
| pfba\_scld | race\_final\_label | race\_final\_labelUnknown/Not Reported | -0.16756226591 | 0.3808138324 | 0.66018676901762929 | 1.0000000000000000 | 0.03538687857 |  |
| pfba\_scld | ethnicity | ethnicityNot Hispanic | -0.23273436513 | 0.2403337671 | 0.33347886020210904 | 1.0000000000000000 | 0.01871352372 |  |
| pfba\_scld | ethnicity | ethnicityUnknown/Not Reported | 0.28233582862 | 0.3045484263 | 0.35448966539951243 | 1.0000000000000000 | 0.01871352372 |  |
| pfba\_scld | rural | ruralLiving in rural area | -0.01757076775 | 0.1862604188 | 0.92489389560955348 | 1.0000000000000000 | 0.00119923225 |  |
| pfba\_scld | rural | ruralUnknown/Not Reported | -0.10951764199 | 0.1632965398 | 0.50284536393231494 | 1.0000000000000000 | 0.00119923225 |  |
| pfba\_scld | smoking | smokingSmoke or use vape | -0.17985647561 | 0.1812820727 | 0.32177091020604093 | 1.0000000000000000 | 0.00311027380 |  |
| pfba\_scld | smoking | smokingUnknown/Not Reported | -0.07253382596 | 0.1169764819 | 0.53558707695853414 | 1.0000000000000000 | 0.00311027380 |  |
| pfba\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholNo, former drinker (stopped) | 0.32796977117 | 0.1557916272 | 0.03594188193302610 | 1.0000000000000000 | 0.02063539840 |  |
| pfba\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholUnknown/Not Reported | 0.02472820551 | 0.1443631461 | 0.86408706078347330 | 1.0000000000000000 | 0.02063539840 |  |
| pfba\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholYes, current drinker | -0.06718987230 | 0.1440669591 | 0.64121543008337678 | 1.0000000000000000 | 0.02063539840 |  |
| pfba\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day1-2 alcoholic drinks per day | -0.27041239489 | 0.2594631507 | 0.29799235545930247 | 1.0000000000000000 | 0.01000444077 |  |
| pfba\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day3-4 alcoholic drinks per day | 0.22209416367 | 0.4221409506 | 0.59912099850931455 | 1.0000000000000000 | 0.01000444077 |  |
| pfba\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayUnknown/Not Reported | 0.13900622351 | 0.1248048904 | 0.26608530903584476 | 1.0000000000000000 | 0.01000444077 |  |
| pfba\_scld | sq\_self\_hep\_b | sq\_self\_hep\_bUnknown/Not Reported | -0.08054960079 | 0.1136697940 | 0.47899561405698610 | 1.0000000000000000 | 0.00229307728 |  |
| pfba\_scld | sq\_self\_hep\_b | sq\_self\_hep\_bYes | 0.12386342952 | 0.2510898573 | 0.62208712770531249 | 1.0000000000000000 | 0.00229307728 |  |
| pfba\_scld | sq\_self\_hep\_c | sq\_self\_hep\_cUnknown/Not Reported | -0.03332494094 | 0.1141358248 | 0.77046630225326396 | 1.0000000000000000 | 0.00022773750 |  |
| pfba\_scld | sq\_self\_hep\_c | sq\_self\_hep\_cYes | -0.01353349626 | 0.2447283648 | 0.95592885498327729 | 1.0000000000000000 | 0.00022773750 |  |
| pfba\_scld | supp\_meds\_tylenol | supp\_meds\_tylenolUnknown/Not Reported | 0.07478577777 | 0.3823108895 | 0.84501740098412648 | 1.0000000000000000 | 0.00134436652 |  |
| pfba\_scld | supp\_meds\_tylenol | supp\_meds\_tylenolYes | -0.27064094184 | 0.6280297924 | 0.66676216096642582 | 1.0000000000000000 | 0.00134436652 |  |
| pfba\_scld | supp\_meds\_steroids | supp\_meds\_steroidsUnknown/Not Reported | 0.14678690410 | 0.3381807117 | 0.66450267863284707 | 1.0000000000000000 | 0.00060640217 |  |
| pfba\_scld | supp\_meds\_steroids | supp\_meds\_steroidsYes | -0.05528643906 | 1.0565792272 | 0.95829689341887170 | 1.0000000000000000 | 0.00060640217 |  |
| pfba\_scld | sq\_water\_well | sq\_water\_wellUnknown/Not Reported | -0.07113127787 | 0.1123965878 | 0.52721094260777346 | 1.0000000000000000 | 0.00108308247 |  |
| pfba\_scld | sq\_water\_well | sq\_water\_wellYes | -0.02027140684 | 0.1534380701 | 0.89496451658350551 | 1.0000000000000000 | 0.00108308247 |  |
| pfba\_scld | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredUnknown/Not Reported | -0.08114647657 | 0.1403605859 | 0.56352426626744490 | 1.0000000000000000 | 0.00214589561 |  |
| pfba\_scld | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredYes | -0.11994252123 | 0.1335862994 | 0.36983338632042684 | 1.0000000000000000 | 0.00214589561 |  |
| pfba\_scld | sq\_water\_house\_filtration | sq\_water\_house\_filtrationUnknown/Not Reported | -0.02996935033 | 0.1087777386 | 0.78307622374691188 | 1.0000000000000000 | 0.00968769292 |  |
| pfba\_scld | sq\_water\_house\_filtration | sq\_water\_house\_filtrationYes | 0.32265583066 | 0.1831697360 | 0.07896650237649259 | 1.0000000000000000 | 0.00968769292 |  |
| pfba\_scld | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterUnknown/Not Reported | 0.09829713530 | 0.1195283632 | 0.41138610856268598 | 1.0000000000000000 | 0.03072080276 |  |
| pfba\_scld | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterYes | 0.42992940577 | 0.1288687143 | 0.00093424336603878 | 0.0513833851321327 | 0.03072080276 |  |
| pfba\_scld | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterUnknown/Not Reported | -0.12033262226 | 0.1111975752 | 0.27988058283521206 | 1.0000000000000000 | 0.00977353797 |  |
| pfba\_scld | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterYes | -0.28953458010 | 0.1561278428 | 0.06445662344530483 | 1.0000000000000000 | 0.00977353797 |  |
| pfba\_scld | sq\_water\_bottled | sq\_water\_bottledUnknown/Not Reported | -0.10346737984 | 0.1415329548 | 0.46520637575138080 | 1.0000000000000000 | 0.00187237237 |  |
| pfba\_scld | sq\_water\_bottled | sq\_water\_bottledYes | -0.10752866806 | 0.1366079818 | 0.43170112368953550 | 1.0000000000000000 | 0.00187237237 |  |
| pfba\_scld | sq\_water\_none | sq\_water\_noneUnknown/Not Reported | -0.01805025876 | 0.1069366163 | 0.86604968749351308 | 1.0000000000000000 | 0.00470723719 |  |
| pfba\_scld | sq\_water\_none | sq\_water\_noneYes | 0.31162948316 | 0.2456699220 | 0.20541041566927390 | 1.0000000000000000 | 0.00470723719 |  |
| pfba\_scld | sq\_water\_other\_type | sq\_water\_other\_typeUnknown/Not Reported | -0.06912266856 | 0.1084852840 | 0.52440830804744287 | 1.0000000000000000 | 0.00376984216 |  |
| pfba\_scld | sq\_water\_other\_type | sq\_water\_other\_typeYes | -0.22972534384 | 0.2048317860 | 0.26277924482141085 | 1.0000000000000000 | 0.00376984216 |  |
| pfbs\_scld | age\_at\_enrollment | age\_at\_enrollment | -0.00039411970 | 0.0056259291 | 0.94418956366096030 | 1.0000000000000000 | 0.00001366996 |  |
| pfbs\_scld | bmi | bmi | 0.00294487490 | 0.0071201199 | 0.67943161804413910 | 1.0000000000000000 | 0.00050886052 |  |
| pfbs\_scld | trig\_mg\_d\_l | trig\_mg\_d\_l | -0.00051069442 | 0.0006796245 | 0.45289086346786955 | 1.0000000000000000 | 0.00159703845 |  |
| pfbs\_scld | source | sourceDUKE | -0.24209283532 | 0.1491936254 | 0.10550138874091017 | 1.0000000000000000 | 0.01848472366 |  |
| pfbs\_scld | source | sourceNCSU | -0.31476257326 | 0.1272415877 | 0.01381394218896274 | 0.7597668203929506 | 0.01848472366 |  |
| pfbs\_scld | source | sourceUNC | -0.43870902249 | 0.2563595981 | 0.08785424567301257 | 1.0000000000000000 | 0.01848472366 |  |
| pfbs\_scld | sex | sexMale | -0.07419888249 | 0.1077805160 | 0.49160923227274667 | 1.0000000000000000 | 0.00125886542 |  |
| pfbs\_scld | race\_eth\_label | race\_eth\_labelNHB | -0.01464216199 | 0.2554827156 | 0.95432754792565500 | 1.0000000000000000 | 0.01340832472 |  |
| pfbs\_scld | race\_eth\_label | race\_eth\_labelNHO | -0.02338660368 | 0.3491082165 | 0.94662591167007082 | 1.0000000000000000 | 0.01340832472 |  |
| pfbs\_scld | race\_eth\_label | race\_eth\_labelNHW | 0.21620594043 | 0.2448930638 | 0.37788131612548015 | 1.0000000000000000 | 0.01340832472 |  |
| pfbs\_scld | race\_eth\_label | race\_eth\_labelUnknown/Not Reported | 0.29446925111 | 0.3061881609 | 0.33681006421286097 | 1.0000000000000000 | 0.01340832472 |  |
| pfbs\_scld | race\_final\_label | race\_final\_labelAmerican Indian | -0.06497780823 | 0.7115756262 | 0.92729153707792866 | 1.0000000000000000 | 0.01724514576 |  |
| pfbs\_scld | race\_final\_label | race\_final\_labelAmerican Indian/Alaskan Native | -0.36498230103 | 0.5052965205 | 0.47055950006093461 | 1.0000000000000000 | 0.01724514576 |  |
| pfbs\_scld | race\_final\_label | race\_final\_labelAsian | -0.28720334611 | 0.5822339218 | 0.62210940950523153 | 1.0000000000000000 | 0.01724514576 |  |
| pfbs\_scld | race\_final\_label | race\_final\_labelAsian/Pacific Islander | -0.23482160095 | 0.4143100380 | 0.57120995522040818 | 1.0000000000000000 | 0.01724514576 |  |
| pfbs\_scld | race\_final\_label | race\_final\_labelBlack | -0.26151753168 | 0.1159185254 | 0.02465261727798186 | 1.0000000000000000 | 0.01724514576 |  |
| pfbs\_scld | race\_final\_label | race\_final\_labelMore than one race | -0.32212450954 | 1.0041765124 | 0.74855511160559651 | 1.0000000000000000 | 0.01724514576 |  |
| pfbs\_scld | race\_final\_label | race\_final\_labelOther | -0.27609206683 | 0.2966159833 | 0.35256225658706697 | 1.0000000000000000 | 0.01724514576 |  |
| pfbs\_scld | race\_final\_label | race\_final\_labelUnknown/Not Reported | -0.33436959282 | 0.3843781845 | 0.38492197181345200 | 1.0000000000000000 | 0.01724514576 |  |
| pfbs\_scld | ethnicity | ethnicityNot Hispanic | 0.13563843592 | 0.2422991867 | 0.57595190803645446 | 1.0000000000000000 | 0.00259822052 |  |
| pfbs\_scld | ethnicity | ethnicityUnknown/Not Reported | 0.29446925111 | 0.3070389854 | 0.33814572280041677 | 1.0000000000000000 | 0.00259822052 |  |
| pfbs\_scld | rural | ruralLiving in rural area | 0.40223577490 | 0.1851724029 | 0.03046477151052450 | 1.0000000000000000 | 0.01283388025 |  |
| pfbs\_scld | rural | ruralUnknown/Not Reported | -0.02546298067 | 0.1623426644 | 0.87544973896637868 | 1.0000000000000000 | 0.01283388025 |  |
| pfbs\_scld | smoking | smokingSmoke or use vape | 0.02876208111 | 0.1812189211 | 0.87397920554472974 | 1.0000000000000000 | 0.00380470830 |  |
| pfbs\_scld | smoking | smokingUnknown/Not Reported | -0.13222001617 | 0.1169357318 | 0.25890118865789558 | 1.0000000000000000 | 0.00380470830 |  |
| pfbs\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholNo, former drinker (stopped) | 0.03093608928 | 0.1570943319 | 0.84399176612941307 | 1.0000000000000000 | 0.00418833956 |  |
| pfbs\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholUnknown/Not Reported | -0.11354395865 | 0.1455702877 | 0.43588771007606608 | 1.0000000000000000 | 0.00418833956 |  |
| pfbs\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholYes, current drinker | 0.04248949045 | 0.1452716240 | 0.77007949378540197 | 1.0000000000000000 | 0.00418833956 |  |
| pfbs\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day1-2 alcoholic drinks per day | 0.00173849948 | 0.2565434117 | 0.99459668702331505 | 1.0000000000000000 | 0.03215991961 |  |
| pfbs\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day3-4 alcoholic drinks per day | 1.43403530887 | 0.4173905980 | 0.00065732225553094 | 0.0361527240542018 | 0.03215991961 | \* |
| pfbs\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayUnknown/Not Reported | 0.00140892991 | 0.1234004608 | 0.99089640548374591 | 1.0000000000000000 | 0.03215991961 |  |
| pfbs\_scld | sq\_self\_hep\_b | sq\_self\_hep\_bUnknown/Not Reported | -0.16164730427 | 0.1134137077 | 0.15490547435844459 | 1.0000000000000000 | 0.00678347474 |  |
| pfbs\_scld | sq\_self\_hep\_b | sq\_self\_hep\_bYes | -0.23109631067 | 0.2505241778 | 0.35688641562230339 | 1.0000000000000000 | 0.00678347474 |  |
| pfbs\_scld | sq\_self\_hep\_c | sq\_self\_hep\_cUnknown/Not Reported | -0.11062049213 | 0.1139459174 | 0.33226578512771388 | 1.0000000000000000 | 0.00355195566 |  |
| pfbs\_scld | sq\_self\_hep\_c | sq\_self\_hep\_cYes | 0.11736859792 | 0.2443211681 | 0.63123268162752577 | 1.0000000000000000 | 0.00355195566 |  |
| pfbs\_scld | supp\_meds\_tylenol | supp\_meds\_tylenolUnknown/Not Reported | 0.05111422485 | 0.3825137450 | 0.89376908860933635 | 1.0000000000000000 | 0.00028430481 |  |
| pfbs\_scld | supp\_meds\_tylenol | supp\_meds\_tylenolYes | -0.10000151347 | 0.6283630273 | 0.87363945925546149 | 1.0000000000000000 | 0.00028430481 |  |
| pfbs\_scld | supp\_meds\_steroids | supp\_meds\_steroidsUnknown/Not Reported | 0.06764799759 | 0.3382470907 | 0.84159227516948099 | 1.0000000000000000 | 0.00021403656 |  |
| pfbs\_scld | supp\_meds\_steroids | supp\_meds\_steroidsYes | -0.13545178545 | 1.0567866153 | 0.89808056927624569 | 1.0000000000000000 | 0.00021403656 |  |
| pfbs\_scld | sq\_water\_well | sq\_water\_wellUnknown/Not Reported | 0.02866859932 | 0.1123815962 | 0.79878534040690352 | 1.0000000000000000 | 0.00134953984 |  |
| pfbs\_scld | sq\_water\_well | sq\_water\_wellYes | -0.08368273867 | 0.1534176043 | 0.58576338919294979 | 1.0000000000000000 | 0.00134953984 |  |
| pfbs\_scld | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredUnknown/Not Reported | -0.04878699378 | 0.1400038298 | 0.72768354490860843 | 1.0000000000000000 | 0.00721196381 |  |
| pfbs\_scld | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredYes | -0.19626578122 | 0.1332467615 | 0.14160342074544699 | 1.0000000000000000 | 0.00721196381 |  |
| pfbs\_scld | sq\_water\_house\_filtration | sq\_water\_house\_filtrationUnknown/Not Reported | 0.06616698617 | 0.1091440846 | 0.54472537125352871 | 1.0000000000000000 | 0.00300603428 |  |
| pfbs\_scld | sq\_water\_house\_filtration | sq\_water\_house\_filtrationYes | 0.18374184953 | 0.1837866223 | 0.31807308447128430 | 1.0000000000000000 | 0.00300603428 |  |
| pfbs\_scld | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterUnknown/Not Reported | 0.08488801129 | 0.1213256294 | 0.48456664213754364 | 1.0000000000000000 | 0.00135288170 |  |
| pfbs\_scld | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterYes | 0.05917333707 | 0.1308064250 | 0.65126163583327279 | 1.0000000000000000 | 0.00135288170 |  |
| pfbs\_scld | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterUnknown/Not Reported | 0.06196009253 | 0.1116757461 | 0.57934760076694691 | 1.0000000000000000 | 0.00123890008 |  |
| pfbs\_scld | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterYes | 0.08690500377 | 0.1567992224 | 0.57974234090501586 | 1.0000000000000000 | 0.00123890008 |  |
| pfbs\_scld | sq\_water\_bottled | sq\_water\_bottledUnknown/Not Reported | 0.00150677405 | 0.1414381887 | 0.99150577538440487 | 1.0000000000000000 | 0.00320855570 |  |
| pfbs\_scld | sq\_water\_bottled | sq\_water\_bottledYes | -0.11319237198 | 0.1365165133 | 0.40754821004133213 | 1.0000000000000000 | 0.00320855570 |  |
| pfbs\_scld | sq\_water\_none | sq\_water\_noneUnknown/Not Reported | 0.03361244212 | 0.1071518909 | 0.75393115719870929 | 1.0000000000000000 | 0.00069594521 |  |
| pfbs\_scld | sq\_water\_none | sq\_water\_noneYes | -0.08365917336 | 0.2461644814 | 0.73415922696710800 | 1.0000000000000000 | 0.00069594521 |  |
| pfbs\_scld | sq\_water\_other\_type | sq\_water\_other\_typeUnknown/Not Reported | 0.02430377718 | 0.1086712061 | 0.82315529229054696 | 1.0000000000000000 | 0.00035223782 |  |
| pfbs\_scld | sq\_water\_other\_type | sq\_water\_other\_typeYes | -0.04733327578 | 0.2051828267 | 0.81768277140597645 | 1.0000000000000000 | 0.00035223782 |  |
| pfda\_scld | age\_at\_enrollment | age\_at\_enrollment | 0.01401689114 | 0.0055189122 | 0.01151280974826796 | 0.6332045361547375 | 0.01765093915 |  |
| pfda\_scld | bmi | bmi | -0.01953451965 | 0.0075903844 | 0.01049324625441954 | 0.5771285439930747 | 0.01933129606 |  |
| pfda\_scld | trig\_mg\_d\_l | trig\_mg\_d\_l | -0.00087134772 | 0.0006720033 | 0.19560135743360868 | 1.0000000000000000 | 0.00474025689 |  |
| pfda\_scld | source | sourceDUKE | -0.24632049084 | 0.1489554863 | 0.09903735645483616 | 1.0000000000000000 | 0.02161556288 |  |
| pfda\_scld | source | sourceNCSU | -0.08968999822 | 0.1270384879 | 0.48062363680237086 | 1.0000000000000000 | 0.02161556288 |  |
| pfda\_scld | source | sourceUNC | -0.66412389592 | 0.2559504034 | 0.00983867718366343 | 0.5411272451014885 | 0.02161556288 |  |
| pfda\_scld | sex | sexMale | -0.13271702075 | 0.1076310207 | 0.21831847824619438 | 1.0000000000000000 | 0.00402752109 |  |
| pfda\_scld | race\_eth\_label | race\_eth\_labelNHB | 0.12471352645 | 0.2560091965 | 0.62644193500230960 | 1.0000000000000000 | 0.00933793696 |  |
| pfda\_scld | race\_eth\_label | race\_eth\_labelNHO | 0.42784565581 | 0.3498276343 | 0.22209485749044836 | 1.0000000000000000 | 0.00933793696 |  |
| pfda\_scld | race\_eth\_label | race\_eth\_labelNHW | 0.21907404512 | 0.2453977223 | 0.37257706140278501 | 1.0000000000000000 | 0.00933793696 |  |
| pfda\_scld | race\_eth\_label | race\_eth\_labelUnknown/Not Reported | -0.05139885416 | 0.3068191320 | 0.86705038235471044 | 1.0000000000000000 | 0.00933793696 |  |
| pfda\_scld | race\_final\_label | race\_final\_labelAmerican Indian | -0.12904195608 | 0.7080352541 | 0.85548381268167228 | 1.0000000000000000 | 0.02700001153 |  |
| pfda\_scld | race\_final\_label | race\_final\_labelAmerican Indian/Alaskan Native | -0.48022761545 | 0.5027824691 | 0.34013223492179612 | 1.0000000000000000 | 0.02700001153 |  |
| pfda\_scld | race\_final\_label | race\_final\_labelAsian | 0.22162573034 | 0.5793370762 | 0.70227327313975429 | 1.0000000000000000 | 0.02700001153 |  |
| pfda\_scld | race\_final\_label | race\_final\_labelAsian/Pacific Islander | 0.73131111208 | 0.4122486806 | 0.07689498379754887 | 1.0000000000000000 | 0.02700001153 |  |
| pfda\_scld | race\_final\_label | race\_final\_labelBlack | -0.10601570408 | 0.1153417846 | 0.35862071309513155 | 1.0000000000000000 | 0.02700001153 |  |
| pfda\_scld | race\_final\_label | race\_final\_labelMore than one race | 1.83044970969 | 0.9991803344 | 0.06776455127016796 | 1.0000000000000000 | 0.02700001153 |  |
| pfda\_scld | race\_final\_label | race\_final\_labelOther | -0.18187519687 | 0.2951402007 | 0.53812055995120500 | 1.0000000000000000 | 0.02700001153 |  |
| pfda\_scld | race\_final\_label | race\_final\_labelUnknown/Not Reported | -0.42628443262 | 0.3824657500 | 0.26576060685671926 | 1.0000000000000000 | 0.02700001153 |  |
| pfda\_scld | ethnicity | ethnicityNot Hispanic | 0.19991584684 | 0.2419411686 | 0.40915967427517430 | 1.0000000000000000 | 0.00554353848 |  |
| pfda\_scld | ethnicity | ethnicityUnknown/Not Reported | -0.05139885416 | 0.3065853086 | 0.86694944980857691 | 1.0000000000000000 | 0.00554353848 |  |
| pfda\_scld | rural | ruralLiving in rural area | -0.22321300609 | 0.1859709991 | 0.23079719614026042 | 1.0000000000000000 | 0.00430078275 |  |
| pfda\_scld | rural | ruralUnknown/Not Reported | -0.08991929292 | 0.1630428024 | 0.58161444509189819 | 1.0000000000000000 | 0.00430078275 |  |
| pfda\_scld | smoking | smokingSmoke or use vape | -0.47778649069 | 0.1790840047 | 0.00796269280740328 | 0.4379481044071804 | 0.02713853978 |  |
| pfda\_scld | smoking | smokingUnknown/Not Reported | -0.26851843856 | 0.1155581273 | 0.02067734371999552 | 1.0000000000000000 | 0.02713853978 |  |
| pfda\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholNo, former drinker (stopped) | -0.20787027884 | 0.1536464466 | 0.17690069057809690 | 1.0000000000000000 | 0.04742053035 |  |
| pfda\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholUnknown/Not Reported | -0.13357448819 | 0.1423753305 | 0.34875449247860013 | 1.0000000000000000 | 0.04742053035 |  |
| pfda\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholYes, current drinker | 0.34307142692 | 0.1420832218 | 0.01623256250436837 | 0.8927909377402603 | 0.04742053035 |  |
| pfda\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day1-2 alcoholic drinks per day | -0.06581956258 | 0.2549318174 | 0.79640617614150799 | 1.0000000000000000 | 0.04428158218 |  |
| pfda\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day3-4 alcoholic drinks per day | 0.30971082539 | 0.4147685689 | 0.45570924404054869 | 1.0000000000000000 | 0.04428158218 |  |
| pfda\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayUnknown/Not Reported | -0.44982168589 | 0.1226252646 | 0.00027963169345085 | 0.0153797431397966 | 0.04428158218 | \* |
| pfda\_scld | sq\_self\_hep\_b | sq\_self\_hep\_bUnknown/Not Reported | -0.19517872802 | 0.1132680952 | 0.08568444046719309 | 1.0000000000000000 | 0.00933222981 |  |
| pfda\_scld | sq\_self\_hep\_b | sq\_self\_hep\_bYes | 0.12479265729 | 0.2502025284 | 0.61823627484439159 | 1.0000000000000000 | 0.00933222981 |  |
| pfda\_scld | sq\_self\_hep\_c | sq\_self\_hep\_cUnknown/Not Reported | -0.18857557102 | 0.1134085753 | 0.09718837256862224 | 1.0000000000000000 | 0.01292782589 |  |
| pfda\_scld | sq\_self\_hep\_c | sq\_self\_hep\_cYes | 0.29382990208 | 0.2431690069 | 0.22767940372032977 | 1.0000000000000000 | 0.01292782589 |  |
| pfda\_scld | supp\_meds\_tylenol | supp\_meds\_tylenolUnknown/Not Reported | -0.10442649184 | 0.3824147575 | 0.78494873278749755 | 1.0000000000000000 | 0.00080165400 |  |
| pfda\_scld | supp\_meds\_tylenol | supp\_meds\_tylenolYes | 0.13718883533 | 0.6282004185 | 0.82724883059649901 | 1.0000000000000000 | 0.00080165400 |  |
| pfda\_scld | supp\_meds\_steroids | supp\_meds\_steroidsUnknown/Not Reported | -0.20962233873 | 0.3381099153 | 0.53564564076426890 | 1.0000000000000000 | 0.00102479434 |  |
| pfda\_scld | supp\_meds\_steroids | supp\_meds\_steroidsYes | -0.22238305274 | 1.0563580377 | 0.83337724859734486 | 1.0000000000000000 | 0.00102479434 |  |
| pfda\_scld | sq\_water\_well | sq\_water\_wellUnknown/Not Reported | -0.13268719802 | 0.1122377403 | 0.23787633145927936 | 1.0000000000000000 | 0.00390457991 |  |
| pfda\_scld | sq\_water\_well | sq\_water\_wellYes | -0.09790215802 | 0.1532212196 | 0.52323933577829118 | 1.0000000000000000 | 0.00390457991 |  |
| pfda\_scld | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredUnknown/Not Reported | -0.07182516640 | 0.1403214466 | 0.60904913514095971 | 1.0000000000000000 | 0.00270231796 |  |
| pfda\_scld | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredYes | 0.04709023866 | 0.1335490490 | 0.72458169476826395 | 1.0000000000000000 | 0.00270231796 |  |
| pfda\_scld | sq\_water\_house\_filtration | sq\_water\_house\_filtrationUnknown/Not Reported | -0.11848550442 | 0.1091356024 | 0.27832139702085046 | 1.0000000000000000 | 0.00316099234 |  |
| pfda\_scld | sq\_water\_house\_filtration | sq\_water\_house\_filtrationYes | -0.06928087412 | 0.1837723392 | 0.70639209383938706 | 1.0000000000000000 | 0.00316099234 |  |
| pfda\_scld | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterUnknown/Not Reported | -0.11121502339 | 0.1212369848 | 0.35955630258942806 | 1.0000000000000000 | 0.00281163941 |  |
| pfda\_scld | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterYes | -0.00361724267 | 0.1307108534 | 0.97793718366327420 | 1.0000000000000000 | 0.00281163941 |  |
| pfda\_scld | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterUnknown/Not Reported | -0.11828454491 | 0.1115743299 | 0.28976269305198821 | 1.0000000000000000 | 0.00305208890 |  |
| pfda\_scld | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterYes | -0.03045970838 | 0.1566568282 | 0.84593988600083936 | 1.0000000000000000 | 0.00305208890 |  |
| pfda\_scld | sq\_water\_bottled | sq\_water\_bottledUnknown/Not Reported | -0.33888418838 | 0.1403517992 | 0.01623333367882546 | 0.8928333523354003 | 0.01846249601 |  |
| pfda\_scld | sq\_water\_bottled | sq\_water\_bottledYes | -0.32623957681 | 0.1354679273 | 0.01651137591491339 | 0.9081256753202362 | 0.01846249601 |  |
| pfda\_scld | sq\_water\_none | sq\_water\_noneUnknown/Not Reported | -0.08153190201 | 0.1070670096 | 0.44683501274426518 | 1.0000000000000000 | 0.00227853340 |  |
| pfda\_scld | sq\_water\_none | sq\_water\_noneYes | -0.16116851633 | 0.2459694800 | 0.51271635885510181 | 1.0000000000000000 | 0.00227853340 |  |
| pfda\_scld | sq\_water\_other\_type | sq\_water\_other\_typeUnknown/Not Reported | -0.14035669239 | 0.1084337062 | 0.19632346742509224 | 1.0000000000000000 | 0.00471690475 |  |
| pfda\_scld | sq\_water\_other\_type | sq\_water\_other\_typeYes | 0.00574184469 | 0.2047344015 | 0.97764091282821886 | 1.0000000000000000 | 0.00471690475 |  |
| pfna\_scld | age\_at\_enrollment | age\_at\_enrollment | 0.02285242310 | 0.0054454117 | 0.00003418692654294 | 0.0018802809598618 | 0.04676373311 | \* |
| pfna\_scld | bmi | bmi | -0.01016268100 | 0.0077671591 | 0.19162630103330469 | 1.0000000000000000 | 0.00506927381 |  |
| pfna\_scld | trig\_mg\_d\_l | trig\_mg\_d\_l | -0.00012960498 | 0.0006643203 | 0.84543151201780353 | 1.0000000000000000 | 0.00010781192 |  |
| pfna\_scld | source | sourceDUKE | -0.17536978665 | 0.1491077192 | 0.24029175304654887 | 1.0000000000000000 | 0.01961471859 |  |
| pfna\_scld | source | sourceNCSU | -0.00155751589 | 0.1271683215 | 0.99023454642433784 | 1.0000000000000000 | 0.01961471859 |  |
| pfna\_scld | source | sourceUNC | -0.60420136676 | 0.2562119853 | 0.01887733932902677 | 1.0000000000000000 | 0.01961471859 |  |
| pfna\_scld | sex | sexMale | -0.18249153129 | 0.1074370030 | 0.09022350808632779 | 1.0000000000000000 | 0.00761500172 |  |
| pfna\_scld | race\_eth\_label | race\_eth\_labelNHB | 0.11143909821 | 0.2563278805 | 0.66399374875135109 | 1.0000000000000000 | 0.00687002033 |  |
| pfna\_scld | race\_eth\_label | race\_eth\_labelNHO | 0.07538354085 | 0.3502631049 | 0.82971361421867285 | 1.0000000000000000 | 0.00687002033 |  |
| pfna\_scld | race\_eth\_label | race\_eth\_labelNHW | 0.23515848590 | 0.2457031970 | 0.33914499829760592 | 1.0000000000000000 | 0.00687002033 |  |
| pfna\_scld | race\_eth\_label | race\_eth\_labelUnknown/Not Reported | 0.01020295708 | 0.3072010650 | 0.97352278690986982 | 1.0000000000000000 | 0.00687002033 |  |
| pfna\_scld | race\_final\_label | race\_final\_labelAmerican Indian | -0.03100524184 | 0.7134369117 | 0.96535916817740675 | 1.0000000000000000 | 0.01209719059 |  |
| pfna\_scld | race\_final\_label | race\_final\_labelAmerican Indian/Alaskan Native | -0.43936740430 | 0.5066182368 | 0.38636569597660375 | 1.0000000000000000 | 0.01209719059 |  |
| pfna\_scld | race\_final\_label | race\_final\_labelAsian | -0.01042341464 | 0.5837568851 | 0.98576358357417404 | 1.0000000000000000 | 0.01209719059 |  |
| pfna\_scld | race\_final\_label | race\_final\_labelAsian/Pacific Islander | -0.11707470105 | 0.4153937588 | 0.77822396547545969 | 1.0000000000000000 | 0.01209719059 |  |
| pfna\_scld | race\_final\_label | race\_final\_labelBlack | -0.11828239505 | 0.1162217363 | 0.30947290327306004 | 1.0000000000000000 | 0.01209719059 |  |
| pfna\_scld | race\_final\_label | race\_final\_labelMore than one race | 1.41533588799 | 1.0068031611 | 0.16063322156113585 | 1.0000000000000000 | 0.01209719059 |  |
| pfna\_scld | race\_final\_label | race\_final\_labelOther | -0.23230174880 | 0.2973918489 | 0.43522678347209232 | 1.0000000000000000 | 0.01209719059 |  |
| pfna\_scld | race\_final\_label | race\_final\_labelUnknown/Not Reported | -0.25018833673 | 0.3853836118 | 0.51661750631772252 | 1.0000000000000000 | 0.01209719059 |  |
| pfna\_scld | ethnicity | ethnicityNot Hispanic | 0.19057081425 | 0.2421878110 | 0.43185377958703053 | 1.0000000000000000 | 0.00351494479 |  |
| pfna\_scld | ethnicity | ethnicityUnknown/Not Reported | 0.01020295708 | 0.3068978513 | 0.97349654239087935 | 1.0000000000000000 | 0.00351494479 |  |
| pfna\_scld | rural | ruralLiving in rural area | -0.16657258549 | 0.1860668818 | 0.37123860525779162 | 1.0000000000000000 | 0.00327379508 |  |
| pfna\_scld | rural | ruralUnknown/Not Reported | -0.12227732775 | 0.1631268638 | 0.45397511461727769 | 1.0000000000000000 | 0.00327379508 |  |
| pfna\_scld | smoking | smokingSmoke or use vape | -0.55049716636 | 0.1787731176 | 0.00222769302932113 | 0.1225231166126619 | 0.03051335321 |  |
| pfna\_scld | smoking | smokingUnknown/Not Reported | -0.24303361665 | 0.1153575202 | 0.03579987987392344 | 1.0000000000000000 | 0.03051335321 |  |
| pfna\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholNo, former drinker (stopped) | -0.15214353078 | 0.1537056377 | 0.32289373258876941 | 1.0000000000000000 | 0.04668644107 |  |
| pfna\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholUnknown/Not Reported | -0.06457873589 | 0.1424301795 | 0.65051917779037560 | 1.0000000000000000 | 0.04668644107 |  |
| pfna\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholYes, current drinker | 0.39510198704 | 0.1421379583 | 0.00571563030051612 | 0.3143596665283868 | 0.04668644107 |  |
| pfna\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day1-2 alcoholic drinks per day | -0.17936334767 | 0.2545000955 | 0.48139369719176539 | 1.0000000000000000 | 0.04751582125 |  |
| pfna\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day3-4 alcoholic drinks per day | 0.33975607179 | 0.4140661667 | 0.41243345212405735 | 1.0000000000000000 | 0.04751582125 |  |
| pfna\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayUnknown/Not Reported | -0.47566543041 | 0.1224176012 | 0.00012072205421371 | 0.0066397129817542 | 0.04751582125 | \* |
| pfna\_scld | sq\_self\_hep\_b | sq\_self\_hep\_bUnknown/Not Reported | -0.16998081239 | 0.1134192174 | 0.13479409364303724 | 1.0000000000000000 | 0.00668696976 |  |
| pfna\_scld | sq\_self\_hep\_b | sq\_self\_hep\_bYes | 0.07765272744 | 0.2505363485 | 0.75677422534221872 | 1.0000000000000000 | 0.00668696976 |  |
| pfna\_scld | sq\_self\_hep\_c | sq\_self\_hep\_cUnknown/Not Reported | -0.15324170559 | 0.1138740977 | 0.17920855998162405 | 1.0000000000000000 | 0.00480767523 |  |
| pfna\_scld | sq\_self\_hep\_c | sq\_self\_hep\_cYes | -0.04152663629 | 0.2441671734 | 0.86504317800143804 | 1.0000000000000000 | 0.00480767523 |  |
| pfna\_scld | supp\_meds\_tylenol | supp\_meds\_tylenolUnknown/Not Reported | 0.13783174590 | 0.3808340982 | 0.71761513785548414 | 1.0000000000000000 | 0.00904468337 |  |
| pfna\_scld | supp\_meds\_tylenol | supp\_meds\_tylenolYes | 1.04553009228 | 0.6256038377 | 0.09550981098712773 | 1.0000000000000000 | 0.00904468337 |  |
| pfna\_scld | supp\_meds\_steroids | supp\_meds\_steroidsUnknown/Not Reported | -0.30899292899 | 0.3378339808 | 0.36097388049451384 | 1.0000000000000000 | 0.00265467370 |  |
| pfna\_scld | supp\_meds\_steroids | supp\_meds\_steroidsYes | 0.10145385531 | 1.0554959347 | 0.92347692411988780 | 1.0000000000000000 | 0.00265467370 |  |
| pfna\_scld | sq\_water\_well | sq\_water\_wellUnknown/Not Reported | -0.19791095634 | 0.1119687995 | 0.07794860503604970 | 1.0000000000000000 | 0.00867249072 |  |
| pfna\_scld | sq\_water\_well | sq\_water\_wellYes | -0.14505144638 | 0.1528540754 | 0.34325528210841694 | 1.0000000000000000 | 0.00867249072 |  |
| pfna\_scld | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredUnknown/Not Reported | -0.06685848275 | 0.1402279708 | 0.63379349809383023 | 1.0000000000000000 | 0.00403058376 |  |
| pfna\_scld | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredYes | 0.07774682125 | 0.1334600848 | 0.56054814450977120 | 1.0000000000000000 | 0.00403058376 |  |
| pfna\_scld | sq\_water\_house\_filtration | sq\_water\_house\_filtrationUnknown/Not Reported | -0.15719663895 | 0.1090065819 | 0.15011332667990274 | 1.0000000000000000 | 0.00551653151 |  |
| pfna\_scld | sq\_water\_house\_filtration | sq\_water\_house\_filtrationYes | -0.06359736630 | 0.1835550830 | 0.72917960795943682 | 1.0000000000000000 | 0.00551653151 |  |
| pfna\_scld | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterUnknown/Not Reported | -0.16765748230 | 0.1210921524 | 0.16701503357658093 | 1.0000000000000000 | 0.00519274367 |  |
| pfna\_scld | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterYes | -0.06287281614 | 0.1305547033 | 0.63038370929637866 | 1.0000000000000000 | 0.00519274367 |  |
| pfna\_scld | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterUnknown/Not Reported | -0.17148290513 | 0.1113927833 | 0.12453939373143023 | 1.0000000000000000 | 0.00629378892 |  |
| pfna\_scld | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterYes | -0.08827373415 | 0.1564019262 | 0.57281724091754371 | 1.0000000000000000 | 0.00629378892 |  |
| pfna\_scld | sq\_water\_bottled | sq\_water\_bottledUnknown/Not Reported | -0.31695071374 | 0.1406559277 | 0.02481255320482565 | 1.0000000000000000 | 0.01420409731 |  |
| pfna\_scld | sq\_water\_bottled | sq\_water\_bottledYes | -0.25741602293 | 0.1357614730 | 0.05871655083207015 | 1.0000000000000000 | 0.01420409731 |  |
| pfna\_scld | sq\_water\_none | sq\_water\_noneUnknown/Not Reported | -0.15039524262 | 0.1067913604 | 0.15986807660112737 | 1.0000000000000000 | 0.00740928385 |  |
| pfna\_scld | sq\_water\_none | sq\_water\_noneYes | -0.28059297095 | 0.2453362198 | 0.25347435646347488 | 1.0000000000000000 | 0.00740928385 |  |
| pfna\_scld | sq\_water\_other\_type | sq\_water\_other\_typeUnknown/Not Reported | -0.17879316843 | 0.1082970853 | 0.09958577804326338 | 1.0000000000000000 | 0.00722333688 |  |
| pfna\_scld | sq\_water\_other\_type | sq\_water\_other\_typeYes | -0.06326299693 | 0.2044764466 | 0.75719660380250520 | 1.0000000000000000 | 0.00722333688 |  |
| pfoa\_scld | age\_at\_enrollment | age\_at\_enrollment | 0.01990379953 | 0.0054862138 | 0.00032706545799936 | 0.0179886001899647 | 0.03536668327 | \* |
| pfoa\_scld | bmi | bmi | -0.01850220830 | 0.0077347505 | 0.01730193122393180 | 0.9516062173162492 | 0.01674485759 |  |
| pfoa\_scld | trig\_mg\_d\_l | trig\_mg\_d\_l | 0.00025406806 | 0.0006697426 | 0.70465471480120978 | 1.0000000000000000 | 0.00040750471 |  |
| pfoa\_scld | source | sourceDUKE | -0.07628426924 | 0.1496555592 | 0.61053968426051308 | 1.0000000000000000 | 0.01239737299 |  |
| pfoa\_scld | source | sourceNCSU | 0.06932016021 | 0.1276355535 | 0.58737751970846286 | 1.0000000000000000 | 0.01239737299 |  |
| pfoa\_scld | source | sourceUNC | -0.42856769023 | 0.2571533395 | 0.09643431102686301 | 1.0000000000000000 | 0.01239737299 |  |
| pfoa\_scld | sex | sexMale | -0.12516480332 | 0.1076550805 | 0.24571033496867928 | 1.0000000000000000 | 0.00358219330 |  |
| pfoa\_scld | race\_eth\_label | race\_eth\_labelNHB | -0.14944647943 | 0.2521405092 | 0.55373366719946415 | 1.0000000000000000 | 0.03905252447 |  |
| pfoa\_scld | race\_eth\_label | race\_eth\_labelNHO | 0.13817704270 | 0.3445412081 | 0.68861553399694753 | 1.0000000000000000 | 0.03905252447 |  |
| pfoa\_scld | race\_eth\_label | race\_eth\_labelNHW | 0.29883181637 | 0.2416893905 | 0.21707705491636420 | 1.0000000000000000 | 0.03905252447 |  |
| pfoa\_scld | race\_eth\_label | race\_eth\_labelUnknown/Not Reported | 0.01456195611 | 0.3021826295 | 0.96159120427070899 | 1.0000000000000000 | 0.03905252447 |  |
| pfoa\_scld | race\_final\_label | race\_final\_labelAmerican Indian | 0.23361134664 | 0.7018397722 | 0.73943226114684735 | 1.0000000000000000 | 0.04395348851 |  |
| pfoa\_scld | race\_final\_label | race\_final\_labelAmerican Indian/Alaskan Native | -0.68257158805 | 0.4983829994 | 0.17165331000666206 | 1.0000000000000000 | 0.04395348851 |  |
| pfoa\_scld | race\_final\_label | race\_final\_labelAsian | 0.06701195493 | 0.5742677349 | 0.90716829723055903 | 1.0000000000000000 | 0.04395348851 |  |
| pfoa\_scld | race\_final\_label | race\_final\_labelAsian/Pacific Islander | 0.01299508731 | 0.4086414037 | 0.97464817278574101 | 1.0000000000000000 | 0.04395348851 |  |
| pfoa\_scld | race\_final\_label | race\_final\_labelBlack | -0.43096670466 | 0.1143325157 | 0.00019045927418025 | 0.0104752600799139 | 0.04395348851 | \* |
| pfoa\_scld | race\_final\_label | race\_final\_labelMore than one race | 0.54236038999 | 0.9904372617 | 0.58429976766167235 | 1.0000000000000000 | 0.04395348851 |  |
| pfoa\_scld | race\_final\_label | race\_final\_labelOther | -0.30030274488 | 0.2925576516 | 0.30534074418752660 | 1.0000000000000000 | 0.04395348851 |  |
| pfoa\_scld | race\_final\_label | race\_final\_labelUnknown/Not Reported | 0.02574794177 | 0.3791190810 | 0.94588993724285442 | 1.0000000000000000 | 0.04395348851 |  |
| pfoa\_scld | ethnicity | ethnicityNot Hispanic | 0.15605957242 | 0.2423416945 | 0.51999177754676029 | 1.0000000000000000 | 0.00224823093 |  |
| pfoa\_scld | ethnicity | ethnicityUnknown/Not Reported | 0.01456195611 | 0.3070928509 | 0.96220473628700909 | 1.0000000000000000 | 0.00224823093 |  |
| pfoa\_scld | rural | ruralLiving in rural area | -0.19014848628 | 0.1858939541 | 0.30702073717271200 | 1.0000000000000000 | 0.00512561774 |  |
| pfoa\_scld | rural | ruralUnknown/Not Reported | -0.17063001679 | 0.1629752563 | 0.29578828788986516 | 1.0000000000000000 | 0.00512561774 |  |
| pfoa\_scld | smoking | smokingSmoke or use vape | -0.40978883374 | 0.1797926207 | 0.02321464375482415 | 1.0000000000000000 | 0.01942429385 |  |
| pfoa\_scld | smoking | smokingUnknown/Not Reported | -0.22263200726 | 0.1160153782 | 0.05574471466387071 | 1.0000000000000000 | 0.01942429385 |  |
| pfoa\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholNo, former drinker (stopped) | -0.11149608945 | 0.1538656046 | 0.46913030842951009 | 1.0000000000000000 | 0.04470111337 |  |
| pfoa\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholUnknown/Not Reported | -0.04673299431 | 0.1425784117 | 0.74326861358173835 | 1.0000000000000000 | 0.04470111337 |  |
| pfoa\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholYes, current drinker | 0.40955746795 | 0.1422858864 | 0.00422640049175355 | 0.2324520270464454 | 0.04470111337 |  |
| pfoa\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day1-2 alcoholic drinks per day | -0.04042465331 | 0.2549189000 | 0.87408657104043130 | 1.0000000000000000 | 0.04437843249 |  |
| pfoa\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day3-4 alcoholic drinks per day | -0.26009324830 | 0.4147475526 | 0.53096833080426087 | 1.0000000000000000 | 0.04437843249 |  |
| pfoa\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayUnknown/Not Reported | -0.48147462903 | 0.1226190512 | 0.00010257804469636 | 0.0056417924583001 | 0.04437843249 | \* |
| pfoa\_scld | sq\_self\_hep\_b | sq\_self\_hep\_bUnknown/Not Reported | -0.17885175294 | 0.1133997542 | 0.11559742974387974 | 1.0000000000000000 | 0.00702785435 |  |
| pfoa\_scld | sq\_self\_hep\_b | sq\_self\_hep\_bYes | 0.04522819244 | 0.2504933553 | 0.85681327359605108 | 1.0000000000000000 | 0.00702785435 |  |
| pfoa\_scld | sq\_self\_hep\_c | sq\_self\_hep\_cUnknown/Not Reported | -0.17786660733 | 0.1137691596 | 0.11880220685086884 | 1.0000000000000000 | 0.00664102435 |  |
| pfoa\_scld | sq\_self\_hep\_c | sq\_self\_hep\_cYes | 0.00515648437 | 0.2439421666 | 0.98314670068817211 | 1.0000000000000000 | 0.00664102435 |  |
| pfoa\_scld | supp\_meds\_tylenol | supp\_meds\_tylenolUnknown/Not Reported | 0.44380109830 | 0.3816552234 | 0.24563690847941486 | 1.0000000000000000 | 0.00476683314 |  |
| pfoa\_scld | supp\_meds\_tylenol | supp\_meds\_tylenolYes | 0.77050797170 | 0.6269527166 | 0.21985255079337265 | 1.0000000000000000 | 0.00476683314 |  |
| pfoa\_scld | supp\_meds\_steroids | supp\_meds\_steroidsUnknown/Not Reported | 0.10780508159 | 0.3381317465 | 0.75003621633080930 | 1.0000000000000000 | 0.00089578573 |  |
| pfoa\_scld | supp\_meds\_steroids | supp\_meds\_steroidsYes | -0.38080944008 | 1.0564262450 | 0.71869901424882265 | 1.0000000000000000 | 0.00089578573 |  |
| pfoa\_scld | sq\_water\_well | sq\_water\_wellUnknown/Not Reported | -0.18653694538 | 0.1120380199 | 0.09675928899760877 | 1.0000000000000000 | 0.00744641184 |  |
| pfoa\_scld | sq\_water\_well | sq\_water\_wellYes | -0.11223939809 | 0.1529485715 | 0.46350632851723095 | 1.0000000000000000 | 0.00744641184 |  |
| pfoa\_scld | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredUnknown/Not Reported | -0.00717499280 | 0.1399489865 | 0.95913876245625251 | 1.0000000000000000 | 0.00798961564 |  |
| pfoa\_scld | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredYes | 0.17549299403 | 0.1331945651 | 0.18845245498274266 | 1.0000000000000000 | 0.00798961564 |  |
| pfoa\_scld | sq\_water\_house\_filtration | sq\_water\_house\_filtrationUnknown/Not Reported | -0.16064803523 | 0.1089323432 | 0.14111864812130245 | 1.0000000000000000 | 0.00687065266 |  |
| pfoa\_scld | sq\_water\_house\_filtration | sq\_water\_house\_filtrationYes | -0.18414678866 | 0.1834300731 | 0.31607063806374974 | 1.0000000000000000 | 0.00687065266 |  |
| pfoa\_scld | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterUnknown/Not Reported | -0.18099109271 | 0.1210149547 | 0.13559656249832411 | 1.0000000000000000 | 0.00646074169 |  |
| pfoa\_scld | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterYes | -0.14435720063 | 0.1304714731 | 0.26925087582704033 | 1.0000000000000000 | 0.00646074169 |  |
| pfoa\_scld | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterUnknown/Not Reported | -0.17126417939 | 0.1113869719 | 0.12499948414919104 | 1.0000000000000000 | 0.00639747011 |  |
| pfoa\_scld | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterYes | -0.04422335533 | 0.1563937667 | 0.77750970889267790 | 1.0000000000000000 | 0.00639747011 |  |
| pfoa\_scld | sq\_water\_bottled | sq\_water\_bottledUnknown/Not Reported | -0.43728254052 | 0.1392429583 | 0.00182086074126584 | 0.1001473407696215 | 0.03391038767 |  |
| pfoa\_scld | sq\_water\_bottled | sq\_water\_bottledYes | -0.45962196552 | 0.1343976711 | 0.00069540024129137 | 0.0382470132710252 | 0.03391038767 | \* |
| pfoa\_scld | sq\_water\_none | sq\_water\_noneUnknown/Not Reported | -0.16543176316 | 0.1065914061 | 0.12150146864343667 | 1.0000000000000000 | 0.01112282351 |  |
| pfoa\_scld | sq\_water\_none | sq\_water\_noneYes | -0.39284391304 | 0.2448768565 | 0.10950059241961881 | 1.0000000000000000 | 0.01112282351 |  |
| pfoa\_scld | sq\_water\_other\_type | sq\_water\_other\_typeUnknown/Not Reported | -0.18103712113 | 0.1082825523 | 0.09537905447063832 | 1.0000000000000000 | 0.00748977098 |  |
| pfoa\_scld | sq\_water\_other\_type | sq\_water\_other\_typeYes | -0.03766610528 | 0.2044490068 | 0.85393082686462518 | 1.0000000000000000 | 0.00748977098 |  |
| pfos\_scld | age\_at\_enrollment | age\_at\_enrollment | 0.03015972790 | 0.0053670580 | 0.00000003849922364 | 0.0000021174573003 | 0.08084900375 | \* |
| pfos\_scld | bmi | bmi | -0.00632410823 | 0.0074724509 | 0.39797483121906918 | 1.0000000000000000 | 0.00212720016 |  |
| pfos\_scld | trig\_mg\_d\_l | trig\_mg\_d\_l | -0.00060423845 | 0.0006670563 | 0.36564464944825859 | 1.0000000000000000 | 0.00231904218 |  |
| pfos\_scld | source | sourceDUKE | -0.02812398302 | 0.1493325110 | 0.85071911056610372 | 1.0000000000000000 | 0.01665647265 |  |
| pfos\_scld | source | sourceNCSU | 0.06545950319 | 0.1273600379 | 0.60757504689611586 | 1.0000000000000000 | 0.01665647265 |  |
| pfos\_scld | source | sourceUNC | -0.54934387889 | 0.2565982452 | 0.03293039529831022 | 1.0000000000000000 | 0.01665647265 |  |
| pfos\_scld | sex | sexMale | 0.17018018712 | 0.1074907304 | 0.11421477651813232 | 1.0000000000000000 | 0.00662220421 |  |
| pfos\_scld | race\_eth\_label | race\_eth\_labelNHB | 0.17735142739 | 0.2563541876 | 0.48947961492581005 | 1.0000000000000000 | 0.00666615893 |  |
| pfos\_scld | race\_eth\_label | race\_eth\_labelNHO | 0.21368881066 | 0.3502990526 | 0.54222117666899239 | 1.0000000000000000 | 0.00666615893 |  |
| pfos\_scld | race\_eth\_label | race\_eth\_labelNHW | 0.22072926125 | 0.2457284137 | 0.36962368798292344 | 1.0000000000000000 | 0.00666615893 |  |
| pfos\_scld | race\_eth\_label | race\_eth\_labelUnknown/Not Reported | -0.06425467746 | 0.3072325932 | 0.83445298522020916 | 1.0000000000000000 | 0.00666615893 |  |
| pfos\_scld | race\_final\_label | race\_final\_labelAmerican Indian | -0.25650160083 | 0.7076249830 | 0.71719909410729121 | 1.0000000000000000 | 0.02812729459 |  |
| pfos\_scld | race\_final\_label | race\_final\_labelAmerican Indian/Alaskan Native | -0.61212402402 | 0.5024911318 | 0.22393436309559747 | 1.0000000000000000 | 0.02812729459 |  |
| pfos\_scld | race\_final\_label | race\_final\_labelAsian | 0.30221826119 | 0.5790013793 | 0.60200810793987869 | 1.0000000000000000 | 0.02812729459 |  |
| pfos\_scld | race\_final\_label | race\_final\_labelAsian/Pacific Islander | 0.34506062946 | 0.4120098031 | 0.40285038365018688 | 1.0000000000000000 | 0.02812729459 |  |
| pfos\_scld | race\_final\_label | race\_final\_labelBlack | -0.03033696946 | 0.1152749498 | 0.79256603065346942 | 1.0000000000000000 | 0.02812729459 |  |
| pfos\_scld | race\_final\_label | race\_final\_labelMore than one race | 2.50633119704 | 0.9986013593 | 0.01250591825764212 | 0.6878255041703164 | 0.02812729459 |  |
| pfos\_scld | race\_final\_label | race\_final\_labelOther | -0.26150115907 | 0.2949691817 | 0.37590551468124966 | 1.0000000000000000 | 0.02812729459 |  |
| pfos\_scld | race\_final\_label | race\_final\_labelUnknown/Not Reported | -0.35693228717 | 0.3822441302 | 0.35102751784317132 | 1.0000000000000000 | 0.02812729459 |  |
| pfos\_scld | ethnicity | ethnicityNot Hispanic | 0.20729582419 | 0.2418467021 | 0.39191644876826492 | 1.0000000000000000 | 0.00631996241 |  |
| pfos\_scld | ethnicity | ethnicityUnknown/Not Reported | -0.06425467746 | 0.3064656017 | 0.83404410390462613 | 1.0000000000000000 | 0.00631996241 |  |
| pfos\_scld | rural | ruralLiving in rural area | -0.15050379014 | 0.1862088782 | 0.41945767850033333 | 1.0000000000000000 | 0.00175191664 |  |
| pfos\_scld | rural | ruralUnknown/Not Reported | -0.02567749874 | 0.1632513537 | 0.87510243365735252 | 1.0000000000000000 | 0.00175191664 |  |
| pfos\_scld | smoking | smokingSmoke or use vape | -0.56816147223 | 0.1789749168 | 0.00162483462451516 | 0.0893659043483337 | 0.02832340453 |  |
| pfos\_scld | smoking | smokingUnknown/Not Reported | -0.17764283744 | 0.1154877358 | 0.12484388703392600 | 1.0000000000000000 | 0.02832340453 |  |
| pfos\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholNo, former drinker (stopped) | -0.09279790313 | 0.1559690368 | 0.55221901412799523 | 1.0000000000000000 | 0.01840360162 |  |
| pfos\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholUnknown/Not Reported | -0.03617257237 | 0.1445275414 | 0.80250707464714910 | 1.0000000000000000 | 0.01840360162 |  |
| pfos\_scld | sq\_drink\_alcohol | sq\_drink\_alcoholYes, current drinker | 0.25098982175 | 0.1442310171 | 0.08264764890083667 | 1.0000000000000000 | 0.01840360162 |  |
| pfos\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day1-2 alcoholic drinks per day | -0.14733130408 | 0.2583188110 | 0.56878498930871513 | 1.0000000000000000 | 0.01871776305 |  |
| pfos\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day3-4 alcoholic drinks per day | 0.13741276657 | 0.4202791345 | 0.74388410618383627 | 1.0000000000000000 | 0.01871776305 |  |
| pfos\_scld | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayUnknown/Not Reported | -0.30905433609 | 0.1242544492 | 0.01330787645466807 | 0.7319332050067440 | 0.01871776305 |  |
| pfos\_scld | sq\_self\_hep\_b | sq\_self\_hep\_bUnknown/Not Reported | -0.09608172406 | 0.1134662916 | 0.39765419685309278 | 1.0000000000000000 | 0.00586225824 |  |
| pfos\_scld | sq\_self\_hep\_b | sq\_self\_hep\_bYes | 0.27321564105 | 0.2506403325 | 0.27638203097614938 | 1.0000000000000000 | 0.00586225824 |  |
| pfos\_scld | sq\_self\_hep\_c | sq\_self\_hep\_cUnknown/Not Reported | -0.08827848999 | 0.1138333638 | 0.43852931773111470 | 1.0000000000000000 | 0.00551952928 |  |
| pfos\_scld | sq\_self\_hep\_c | sq\_self\_hep\_cYes | 0.26631945107 | 0.2440798322 | 0.27592232776750170 | 1.0000000000000000 | 0.00551952928 |  |
| pfos\_scld | supp\_meds\_tylenol | supp\_meds\_tylenolUnknown/Not Reported | 0.22225409868 | 0.3822471720 | 0.56129273508638611 | 1.0000000000000000 | 0.00167721880 |  |
| pfos\_scld | supp\_meds\_tylenol | supp\_meds\_tylenolYes | 0.49018745604 | 0.6279251224 | 0.43550301353660792 | 1.0000000000000000 | 0.00167721880 |  |
| pfos\_scld | supp\_meds\_steroids | supp\_meds\_steroidsUnknown/Not Reported | -0.00137046605 | 0.3382803036 | 0.99676971448586982 | 1.0000000000000000 | 0.00001768642 |  |
| pfos\_scld | supp\_meds\_steroids | supp\_meds\_steroidsYes | -0.08300121298 | 1.0568903825 | 0.93744563737665432 | 1.0000000000000000 | 0.00001768642 |  |
| pfos\_scld | sq\_water\_well | sq\_water\_wellUnknown/Not Reported | -0.13821435834 | 0.1121796561 | 0.21869101547986863 | 1.0000000000000000 | 0.00493529369 |  |
| pfos\_scld | sq\_water\_well | sq\_water\_wellYes | -0.14605474755 | 0.1531419260 | 0.34083898263584533 | 1.0000000000000000 | 0.00493529369 |  |
| pfos\_scld | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredUnknown/Not Reported | -0.10884128949 | 0.1403792710 | 0.43862900238366409 | 1.0000000000000000 | 0.00188020434 |  |
| pfos\_scld | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredYes | -0.03152028087 | 0.1336040827 | 0.81362118915627635 | 1.0000000000000000 | 0.00188020434 |  |
| pfos\_scld | sq\_water\_house\_filtration | sq\_water\_house\_filtrationUnknown/Not Reported | -0.10144195077 | 0.1091586196 | 0.35332742478950041 | 1.0000000000000000 | 0.00274047213 |  |
| pfos\_scld | sq\_water\_house\_filtration | sq\_water\_house\_filtrationYes | 0.02881244426 | 0.1838110977 | 0.87552600125445079 | 1.0000000000000000 | 0.00274047213 |  |
| pfos\_scld | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterUnknown/Not Reported | -0.14451134890 | 0.1211569867 | 0.23371706850434837 | 1.0000000000000000 | 0.00412719330 |  |
| pfos\_scld | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterYes | -0.11576443844 | 0.1306246039 | 0.37605746039474852 | 1.0000000000000000 | 0.00412719330 |  |
| pfos\_scld | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterUnknown/Not Reported | -0.09435771005 | 0.1115396003 | 0.39811618261251014 | 1.0000000000000000 | 0.00367262920 |  |
| pfos\_scld | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterYes | 0.07837485262 | 0.1566080658 | 0.61705027014982561 | 1.0000000000000000 | 0.00367262920 |  |
| pfos\_scld | sq\_water\_bottled | sq\_water\_bottledUnknown/Not Reported | -0.37438959384 | 0.1398682572 | 0.00776080774017603 | 0.4268444257096815 | 0.02521406023 |  |
| pfos\_scld | sq\_water\_bottled | sq\_water\_bottledYes | -0.39800413798 | 0.1350012112 | 0.00339692534565435 | 0.1868308940109895 | 0.02521406023 |  |
| pfos\_scld | sq\_water\_none | sq\_water\_noneUnknown/Not Reported | -0.09715229470 | 0.1069918879 | 0.36444330562043414 | 1.0000000000000000 | 0.00367811088 |  |
| pfos\_scld | sq\_water\_none | sq\_water\_noneYes | -0.22134405610 | 0.2457968997 | 0.36842362123646244 | 1.0000000000000000 | 0.00367811088 |  |
| pfos\_scld | sq\_water\_other\_type | sq\_water\_other\_typeUnknown/Not Reported | -0.11865182176 | 0.1084945934 | 0.27482381292786012 | 1.0000000000000000 | 0.00359885839 |  |
| pfos\_scld | sq\_water\_other\_type | sq\_water\_other\_typeYes | -0.12858001415 | 0.2048493630 | 0.53059508137585887 | 1.0000000000000000 | 0.00359885839 |  |