| Endpoint | Potential confounders | Factors | Coefficients | SE | P | Adjusted P | R-Squared | AdP<0.05 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| alt\_cat1 | age\_at\_enrollment | age\_at\_enrollment | -0.026233874679662056578 | 0.0163318262 | 0.1082071725218 | 0.47827057640 |  |  |
| alt\_cat1 | bmi | bmi | 0.017865437401708639947 | 0.0224414331 | 0.4259787700424 | 0.69221550132 |  |  |
| alt\_cat1 | trig\_mg\_d\_l | trig\_mg\_d\_l | 0.005462243962190295628 | 0.0016636442 | 0.0010259917946 | 0.05335157332 |  |  |
| alt\_cat1 | sex | sexMale | -0.550647100973884140451 | 0.3532883987 | 0.1190831711743 | 0.47827057640 | 0.0091600929 |  |
| alt\_cat1 | race\_eth\_label | race\_eth\_labelNHB | -1.769286611643421158746 | 0.7380279235 | 0.0165156453270 | 0.28627118567 | 0.0401226494 |  |
| alt\_cat1 | race\_eth\_label | race\_eth\_labelNHO | -1.466337068788595487945 | 1.1875408668 | 0.2169169829839 | 0.56398415576 | 0.0401226494 |  |
| alt\_cat1 | race\_eth\_label | race\_eth\_labelNHW | -0.441832752279043727839 | 0.6058576500 | 0.4658375856091 | 0.72530001297 | 0.0401226494 |  |
| alt\_cat1 | race\_eth\_label | race\_eth\_labelUnknown/Not Reported | -0.747214401830225805057 | 0.8481145239 | 0.3783015425566 | 0.65572267376 | 0.0401226494 |  |
| alt\_cat1 | race\_final\_label | race\_final\_labelAmerican Indian/Alaskan Native | -17.566068486358972222661 | 2,284.1022151514 | 0.9938638662544 | 1.00000000000 | 0.0700048442 |  |
| alt\_cat1 | race\_final\_label | race\_final\_labelAsian | -0.693147180559960496282 | 1.8708286934 | 0.7110079259746 | 0.99925438245 | 0.0700048442 |  |
| alt\_cat1 | race\_final\_label | race\_final\_labelAsian/Pacific Islander | -17.566068486354399880156 | 1,615.1044748353 | 0.9913222836397 | 1.00000000000 | 0.0700048442 |  |
| alt\_cat1 | race\_final\_label | race\_final\_labelBlack | -2.944438979166495329309 | 1.4867838834 | 0.0476576804346 | 0.35402848323 | 0.0700048442 |  |
| alt\_cat1 | race\_final\_label | race\_final\_labelMore than one race | -17.566068486365509215830 | 3,956.1805807834 | 0.9964572777961 | 1.00000000000 | 0.0700048442 |  |
| alt\_cat1 | race\_final\_label | race\_final\_labelOther | -2.302585092994046345183 | 1.7606816862 | 0.1909477860280 | 0.56398415576 | 0.0700048442 |  |
| alt\_cat1 | race\_final\_label | race\_final\_labelUnknown/Not Reported | -17.566068486363043632537 | 1,615.1044748374 | 0.9913222836397 | 1.00000000000 | 0.0700048442 |  |
| alt\_cat1 | race\_final\_label | race\_final\_labelWhite | -1.456911928333858741169 | 1.4248059735 | 0.3065284358973 | 0.65572267376 | 0.0700048442 |  |
| alt\_cat1 | ethnicity | ethnicityNot Hispanic | -0.758429472651821923179 | 0.6007160013 | 0.2067536490605 | 0.56398415576 | 0.0050141511 |  |
| alt\_cat1 | ethnicity | ethnicityUnknown/Not Reported | -0.747214401832278607429 | 0.8481139232 | 0.3783012048075 | 0.65572267376 | 0.0050141511 |  |
| alt\_cat1 | rural | ruralLiving in rural area | 1.285823830644600818118 | 0.4283413529 | 0.0026832926010 | 0.06976560763 | 0.0284067926 |  |
| alt\_cat1 | rural | ruralUnknown/Not Reported | 0.062048399037798213085 | 0.5127251042 | 0.9036776549071 | 1.00000000000 | 0.0284067926 |  |
| alt\_cat1 | smoking | smokingSmoke or use vape | 0.227658231668759675204 | 0.4898421592 | 0.6421045202657 | 0.92748430705 | 0.0108478368 |  |
| alt\_cat1 | smoking | smokingUnknown/Not Reported | -0.597416406111424214131 | 0.3963816914 | 0.1317659161586 | 0.48941626002 | 0.0108478368 |  |
| alt\_cat1 | sq\_drink\_alcohol | sq\_drink\_alcoholNo, never drinker | 0.118263920493735144590 | 0.4476291429 | 0.7916252930398 | 1.00000000000 | 0.0105007490 |  |
| alt\_cat1 | sq\_drink\_alcohol | sq\_drink\_alcoholUnknown/Not Reported | -0.594962417149858202592 | 0.4794549327 | 0.2146374596118 | 0.56398415576 | 0.0105007490 |  |
| alt\_cat1 | sq\_drink\_alcohol | sq\_drink\_alcoholYes, current drinker | -0.008298802814696198613 | 0.4259570321 | 0.9844560195743 | 1.00000000000 | 0.0105007490 |  |
| alt\_cat1 | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day3-4 alcoholic drinks per day | 2.833213343091242730765 | 1.3135624619 | 0.0310140224232 | 0.35402848323 | 0.0206324336 |  |
| alt\_cat1 | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayLess than 1 alcoholic drink per day | 1.098612287703139012152 | 1.0755551545 | 0.3070472415860 | 0.65572267376 | 0.0206324336 |  |
| alt\_cat1 | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayUnknown/Not Reported | 0.973134629885703095198 | 1.0458487874 | 0.3521259547338 | 0.65572267376 | 0.0206324336 |  |
| alt\_cat1 | sq\_self\_hep\_b | sq\_self\_hep\_bUnknown/Not Reported | -0.824894451390963179271 | 0.3897119082 | 0.0342872224688 | 0.35402848323 | 0.0365968656 |  |
| alt\_cat1 | sq\_self\_hep\_b | sq\_self\_hep\_bYes | -16.023839323614339491542 | 959.5146844266 | 0.9866759936441 | 1.00000000000 | 0.0365968656 |  |
| alt\_cat1 | sq\_self\_hep\_c | sq\_self\_hep\_cUnknown/Not Reported | -0.778466945334304716297 | 0.3906013754 | 0.0462618944507 | 0.35402848323 | 0.0200437352 |  |
| alt\_cat1 | sq\_self\_hep\_c | sq\_self\_hep\_cYes | -1.194403352979448440507 | 1.0456607375 | 0.2533511609739 | 0.62734573194 | 0.0200437352 |  |
| alt\_cat1 | supp\_meds\_tylenol | supp\_meds\_tylenolUnknown/Not Reported | 14.784565434205914513655 | 979.6100399033 | 0.9879585465560 | 1.00000000000 | 0.0097532033 |  |
| alt\_cat1 | supp\_meds\_tylenol | supp\_meds\_tylenolYes | -0.000000019197709004373 | 1,696.7343417548 | 0.9999999999910 | 1.00000000000 | 0.0097532033 |  |
| alt\_cat1 | supp\_meds\_steroids | supp\_meds\_steroidsUnknown/Not Reported | 14.781134914209376418626 | 906.9426658914 | 0.9869968436761 | 1.00000000000 | 0.0086558136 |  |
| alt\_cat1 | supp\_meds\_steroids | supp\_meds\_steroidsYes | -0.000000004106911744103 | 2,565.2212059756 | 0.9999999999987 | 1.00000000000 | 0.0086558136 |  |
| alt\_cat1 | sq\_water\_well | sq\_water\_wellUnknown/Not Reported | -0.226773318542274227028 | 0.3545168876 | 0.5223880783346 | 0.77611943067 | 0.0104071509 |  |
| alt\_cat1 | sq\_water\_well | sq\_water\_wellYes | 0.536366233015758031577 | 0.4078972929 | 0.1885253164441 | 0.56398415576 | 0.0104071509 |  |
| alt\_cat1 | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredUnknown/Not Reported | -0.395803196000223123097 | 0.4307974185 | 0.3582165528981 | 0.65572267376 | 0.0042513118 |  |
| alt\_cat1 | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredYes | -0.038318864302135616229 | 0.3848945265 | 0.9206961983467 | 1.00000000000 | 0.0042513118 |  |
| alt\_cat1 | sq\_water\_house\_filtration | sq\_water\_house\_filtrationUnknown/Not Reported | -0.564494472666662305826 | 0.3359615225 | 0.0929115072093 | 0.47827057640 | 0.0179219253 |  |
| alt\_cat1 | sq\_water\_house\_filtration | sq\_water\_house\_filtrationYes | -1.176573830039859380747 | 0.7558657994 | 0.1195676440988 | 0.47827057640 | 0.0179219253 |  |
| alt\_cat1 | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterUnknown/Not Reported | -0.275649045983580032182 | 0.3851966286 | 0.4742346238671 | 0.72530001297 | 0.0094710048 |  |
| alt\_cat1 | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterYes | 0.351149655484573663955 | 0.3694201022 | 0.3418364661545 | 0.65572267376 | 0.0094710048 |  |
| alt\_cat1 | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterUnknown/Not Reported | -0.634419735967569731194 | 0.3486561617 | 0.0688177631424 | 0.44731546043 | 0.0129747807 |  |
| alt\_cat1 | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterYes | -0.461886194561395013736 | 0.4809744165 | 0.3368974898372 | 0.65572267376 | 0.0129747807 |  |
| alt\_cat1 | sq\_water\_bottled | sq\_water\_bottledUnknown/Not Reported | 0.003081666528221338464 | 0.4499101357 | 0.9945349199252 | 1.00000000000 | 0.0045315654 |  |
| alt\_cat1 | sq\_water\_bottled | sq\_water\_bottledYes | 0.351851430862919478670 | 0.4175741123 | 0.3994475234643 | 0.67004100710 | 0.0045315654 |  |
| alt\_cat1 | sq\_water\_none | sq\_water\_noneUnknown/Not Reported | -0.535366732682104440322 | 0.3334379656 | 0.1083626594687 | 0.47827057640 | 0.0124914317 |  |
| alt\_cat1 | sq\_water\_none | sq\_water\_noneYes | -1.054160526072935866182 | 1.0525853045 | 0.3165868186590 | 0.65572267376 | 0.0124914317 |  |
| alt\_cat1 | sq\_water\_other\_type | sq\_water\_other\_typeUnknown/Not Reported | -0.487036755187071901396 | 0.3455664808 | 0.1587208946691 | 0.55023243485 | 0.0088908279 |  |
| alt\_cat1 | sq\_water\_other\_type | sq\_water\_other\_typeYes | 0.179793110440607556422 | 0.5339634462 | 0.7363323072326 | 1.00000000000 | 0.0088908279 |  |
| alt\_cat2 | age\_at\_enrollment | age\_at\_enrollment | -0.039637698075085388283 | 0.0213090412 | 0.0628663971277 | 0.52187808301 |  |  |
| alt\_cat2 | bmi | bmi | 0.030015359275567334713 | 0.0269864590 | 0.2660359279290 | 0.69169341262 |  |  |
| alt\_cat2 | trig\_mg\_d\_l | trig\_mg\_d\_l | 0.004192856265105312716 | 0.0020253225 | 0.0384320673282 | 0.52187808301 |  |  |
| alt\_cat2 | sex | sexMale | 0.063591102781202585303 | 0.4115649570 | 0.8772072414691 | 1.00000000000 | 0.0001218133 |  |
| alt\_cat2 | race\_eth\_label | race\_eth\_labelNHB | -1.934860312866998333092 | 0.8687348478 | 0.0259328289896 | 0.52187808301 | 0.0334958008 |  |
| alt\_cat2 | race\_eth\_label | race\_eth\_labelNHO | -1.098612288668103342815 | 1.2194996872 | 0.3676567435963 | 0.86900684850 | 0.0334958008 |  |
| alt\_cat2 | race\_eth\_label | race\_eth\_labelNHW | -0.869037847023603982066 | 0.6864315770 | 0.2055050134680 | 0.60324903863 | 0.0334958008 |  |
| alt\_cat2 | race\_eth\_label | race\_eth\_labelUnknown/Not Reported | -0.379489621704902135857 | 0.8923123458 | 0.6706268311359 | 1.00000000000 | 0.0334958008 |  |
| alt\_cat2 | race\_final\_label | race\_final\_labelAmerican Indian/Alaskan Native | -18.566068509861807456218 | 3,765.8474184972 | 0.9960663516699 | 1.00000000000 | 0.0754863394 |  |
| alt\_cat2 | race\_final\_label | race\_final\_labelAsian | -0.693147180559959608104 | 1.8708286934 | 0.7110079259746 | 1.00000000000 | 0.0754863394 |  |
| alt\_cat2 | race\_final\_label | race\_final\_labelAsian/Pacific Islander | -18.566068509883510984082 | 2,662.8564343067 | 0.9944370041099 | 1.00000000000 | 0.0754863394 |  |
| alt\_cat2 | race\_final\_label | race\_final\_labelBlack | -3.476098689835284361038 | 1.5308960160 | 0.0231693751466 | 0.52187808301 | 0.0754863394 |  |
| alt\_cat2 | race\_final\_label | race\_final\_labelMore than one race | -18.566068509885354842481 | 6,522.6387559142 | 0.9977289008375 | 1.00000000000 | 0.0754863394 |  |
| alt\_cat2 | race\_final\_label | race\_final\_labelOther | -18.566068509870355285329 | 1,966.6500437051 | 0.9924677196979 | 1.00000000000 | 0.0754863394 |  |
| alt\_cat2 | race\_final\_label | race\_final\_labelUnknown/Not Reported | -18.566068509851302081870 | 2,662.8564342887 | 0.9944370041099 | 1.00000000000 | 0.0754863394 |  |
| alt\_cat2 | race\_final\_label | race\_final\_labelWhite | -2.132363943134193640105 | 1.4313046147 | 0.1362756682878 | 0.52966215184 | 0.0754863394 |  |
| alt\_cat2 | ethnicity | ethnicityNot Hispanic | -1.109047165954573088698 | 0.6776215793 | 0.1016981276596 | 0.52187808301 | 0.0156579527 |  |
| alt\_cat2 | ethnicity | ethnicityUnknown/Not Reported | -0.379489621704898472121 | 0.8923123458 | 0.6706268311358 | 1.00000000000 | 0.0156579527 |  |
| alt\_cat2 | rural | ruralLiving in rural area | 0.902867711540602968512 | 0.5398888514 | 0.0944609503677 | 0.52187808301 | 0.0153113724 |  |
| alt\_cat2 | rural | ruralUnknown/Not Reported | -0.405465104222659467048 | 0.7605675381 | 0.5939583982066 | 1.00000000000 | 0.0153113724 |  |
| alt\_cat2 | smoking | smokingSmoke or use vape | -0.024938948347251486959 | 0.6484486296 | 0.9693213977865 | 1.00000000000 | 0.0166470401 |  |
| alt\_cat2 | smoking | smokingUnknown/Not Reported | -0.913255712004269804005 | 0.5596315492 | 0.1027031944352 | 0.52187808301 | 0.0166470401 |  |
| alt\_cat2 | sq\_drink\_alcohol | sq\_drink\_alcoholNo, never drinker | -0.075223421237585491594 | 0.5619893469 | 0.8935195744537 | 1.00000000000 | 0.0167343203 |  |
| alt\_cat2 | sq\_drink\_alcohol | sq\_drink\_alcoholUnknown/Not Reported | -0.944027370671029042448 | 0.6473021395 | 0.1447294991392 | 0.52966215184 | 0.0167343203 |  |
| alt\_cat2 | sq\_drink\_alcohol | sq\_drink\_alcoholYes, current drinker | -0.027736754971600996456 | 0.5187681896 | 0.9573601669646 | 1.00000000000 | 0.0167343203 |  |
| alt\_cat2 | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day3-4 alcoholic drinks per day | 17.566068480715472333031 | 932.4810035139 | 0.9849703469904 | 1.00000000000 | 0.0540771624 |  |
| alt\_cat2 | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayLess than 1 alcoholic drink per day | 15.221519188622325557958 | 932.4807299904 | 0.9869761643130 | 1.00000000000 | 0.0540771624 |  |
| alt\_cat2 | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayUnknown/Not Reported | 15.031490221130216156098 | 932.4806781958 | 0.9871387420050 | 1.00000000000 | 0.0540771624 |  |
| alt\_cat2 | sq\_self\_hep\_b | sq\_self\_hep\_bUnknown/Not Reported | -1.093674007027523042979 | 0.5536187905 | 0.0482114168986 | 0.52187808301 | 0.0398287675 |  |
| alt\_cat2 | sq\_self\_hep\_b | sq\_self\_hep\_bYes | -15.430916337664656978745 | 959.5146928920 | 0.9871689727083 | 1.00000000000 | 0.0398287675 |  |
| alt\_cat2 | sq\_self\_hep\_c | sq\_self\_hep\_cUnknown/Not Reported | -1.078809661371938455332 | 0.5536863981 | 0.0513655902966 | 0.52187808301 | 0.0390855330 |  |
| alt\_cat2 | sq\_self\_hep\_c | sq\_self\_hep\_cYes | -15.426002322869427629826 | 959.5146928803 | 0.9871730584296 | 1.00000000000 | 0.0390855330 |  |
| alt\_cat2 | supp\_meds\_tylenol | supp\_meds\_tylenolUnknown/Not Reported | 15.155269754569285822754 | 1,615.1038609443 | 0.9925131884113 | 1.00000000000 | 0.0078266263 |  |
| alt\_cat2 | supp\_meds\_tylenol | supp\_meds\_tylenolYes | -0.000000054132891136543 | 2,797.4419336078 | 0.9999999999846 | 1.00000000000 | 0.0078266263 |  |
| alt\_cat2 | supp\_meds\_steroids | supp\_meds\_steroidsUnknown/Not Reported | 14.152069757207858202719 | 906.9426777446 | 0.9875501947139 | 1.00000000000 | 0.0069463848 |  |
| alt\_cat2 | supp\_meds\_steroids | supp\_meds\_steroidsYes | 0.000000015067030440910 | 2,565.2212072417 | 0.9999999999953 | 1.00000000000 | 0.0069463848 |  |
| alt\_cat2 | sq\_water\_well | sq\_water\_wellUnknown/Not Reported | -0.275351459811247811782 | 0.4653182558 | 0.5540188989757 | 1.00000000000 | 0.0135439777 |  |
| alt\_cat2 | sq\_water\_well | sq\_water\_wellYes | 0.627209079067505892446 | 0.4990424514 | 0.2088169749101 | 0.60324903863 | 0.0135439777 |  |
| alt\_cat2 | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredUnknown/Not Reported | -0.288701960152827230566 | 0.5770449246 | 0.6168560648293 | 1.00000000000 | 0.0058951753 |  |
| alt\_cat2 | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredYes | 0.208958916321907217650 | 0.5046396332 | 0.6788188034285 | 1.00000000000 | 0.0058951753 |  |
| alt\_cat2 | sq\_water\_house\_filtration | sq\_water\_house\_filtrationUnknown/Not Reported | -0.700929321002004557251 | 0.4347435313 | 0.1069005129184 | 0.52187808301 | 0.0431851951 |  |
| alt\_cat2 | sq\_water\_house\_filtration | sq\_water\_house\_filtrationYes | -16.486626968177940710802 | 1,153.0505211490 | 0.9885920203201 | 1.00000000000 | 0.0431851951 |  |
| alt\_cat2 | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterUnknown/Not Reported | -0.177375132746212388346 | 0.5031355249 | 0.7244337210114 | 1.00000000000 | 0.0102874640 |  |
| alt\_cat2 | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterYes | 0.482521847600486109009 | 0.4716140196 | 0.3062469900203 | 0.75832588005 | 0.0102874640 |  |
| alt\_cat2 | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterUnknown/Not Reported | -0.686226737385032037331 | 0.4418839220 | 0.1204334037723 | 0.52187808301 | 0.0208718645 |  |
| alt\_cat2 | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterYes | -1.091691694301099468944 | 0.7635512312 | 0.1527871591852 | 0.52966215184 | 0.0208718645 |  |
| alt\_cat2 | sq\_water\_bottled | sq\_water\_bottledUnknown/Not Reported | -0.237742350693530890560 | 0.5613082604 | 0.6718937185936 | 1.00000000000 | 0.0035293487 |  |
| alt\_cat2 | sq\_water\_bottled | sq\_water\_bottledYes | 0.139551880405942074770 | 0.5099484258 | 0.7843468329982 | 1.00000000000 | 0.0035293487 |  |
| alt\_cat2 | sq\_water\_none | sq\_water\_noneUnknown/Not Reported | -0.583013385575667841820 | 0.4369409506 | 0.1821032520136 | 0.59183556904 | 0.0098955338 |  |
| alt\_cat2 | sq\_water\_none | sq\_water\_noneYes | -0.418710334833850172931 | 1.0629052056 | 0.6936326601695 | 1.00000000000 | 0.0098955338 |  |
| alt\_cat2 | sq\_water\_other\_type | sq\_water\_other\_typeUnknown/Not Reported | -0.523371179982396017571 | 0.4680110377 | 0.2634439622821 | 0.69169341262 | 0.0241089595 |  |
| alt\_cat2 | sq\_water\_other\_type | sq\_water\_other\_typeYes | 0.893301213649423497820 | 0.5601504100 | 0.1107676140208 | 0.52187808301 | 0.0241089595 |  |
| ast\_cat1 | age\_at\_enrollment | age\_at\_enrollment | 0.005268246471325298969 | 0.0118245751 | 0.6559341254462 | 0.99999999997 |  |  |
| ast\_cat1 | bmi | bmi | -0.014535779609609108393 | 0.0163297636 | 0.3733905901398 | 0.88398286422 |  |  |
| ast\_cat1 | trig\_mg\_d\_l | trig\_mg\_d\_l | 0.005305204138841340331 | 0.0016769522 | 0.0015583141383 | 0.08103233519 |  |  |
| ast\_cat1 | sex | sexMale | -0.451200502282345261573 | 0.2318695376 | 0.0516638674141 | 0.45011745662 | 0.0082430317 |  |
| ast\_cat1 | race\_eth\_label | race\_eth\_labelNHB | -1.292768303106116345447 | 0.6137997443 | 0.0351893481880 | 0.45011745662 | 0.0575800323 |  |
| ast\_cat1 | race\_eth\_label | race\_eth\_labelNHO | -1.386294361116948481438 | 0.7905690517 | 0.0795093801193 | 0.51681097078 | 0.0575800323 |  |
| ast\_cat1 | race\_eth\_label | race\_eth\_labelNHW | -0.076961041136060961976 | 0.5987636452 | 0.8977269816827 | 0.99999999997 | 0.0575800323 |  |
| ast\_cat1 | race\_eth\_label | race\_eth\_labelUnknown/Not Reported | -0.916290731871206909354 | 0.7187948890 | 0.2023943212505 | 0.87704205875 | 0.0575800323 |  |
| ast\_cat1 | race\_final\_label | race\_final\_labelAmerican Indian/Alaskan Native | -16.259215488781411096397 | 1,029.1221934919 | 0.9873946578842 | 0.99999999997 | 0.0648385703 |  |
| ast\_cat1 | race\_final\_label | race\_final\_labelAsian | -16.259215488781201486290 | 1,029.1221934918 | 0.9873946578842 | 0.99999999997 | 0.0648385703 |  |
| ast\_cat1 | race\_final\_label | race\_final\_labelAsian/Pacific Islander | -15.566068308221383986734 | 1,029.1217886160 | 0.9879319900224 | 0.99999999997 | 0.0648385703 |  |
| ast\_cat1 | race\_final\_label | race\_final\_labelBlack | -15.726410958296460407269 | 1,029.1214842744 | 0.9878076861241 | 0.99999999997 | 0.0648385703 |  |
| ast\_cat1 | race\_final\_label | race\_final\_labelMore than one race | -0.000000059528483650347 | 1,782.4906637449 | 0.9999999999734 | 0.99999999997 | 0.0648385703 |  |
| ast\_cat1 | race\_final\_label | race\_final\_labelOther | -15.006452520286043039732 | 1,029.1216555853 | 0.9883658142739 | 0.99999999997 | 0.0648385703 |  |
| ast\_cat1 | race\_final\_label | race\_final\_labelUnknown/Not Reported | -16.259215488781116221162 | 1,029.1218291036 | 0.9873946534213 | 0.99999999997 | 0.0648385703 |  |
| ast\_cat1 | race\_final\_label | race\_final\_labelWhite | -14.557607116547570669240 | 1,029.1214761476 | 0.9887137691013 | 0.99999999997 | 0.0648385703 |  |
| ast\_cat1 | ethnicity | ethnicityNot Hispanic | -0.537733076682945676517 | 0.5892646437 | 0.3614795951696 | 0.88398286422 | 0.0037344593 |  |
| ast\_cat1 | ethnicity | ethnicityUnknown/Not Reported | -0.916290731871174712886 | 0.7187948890 | 0.2023943212505 | 0.87704205875 | 0.0037344593 |  |
| ast\_cat1 | rural | ruralLiving in rural area | 1.406438927209557654407 | 0.5509393476 | 0.0106860303082 | 0.27783678801 | 0.0189979774 |  |
| ast\_cat1 | rural | ruralUnknown/Not Reported | 0.004640379556507700197 | 0.3512926732 | 0.9894606981137 | 0.99999999997 | 0.0189979774 |  |
| ast\_cat1 | smoking | smokingSmoke or use vape | 0.405465108106020821754 | 0.4173502296 | 0.3312881905323 | 0.88398286422 | 0.0023903182 |  |
| ast\_cat1 | smoking | smokingUnknown/Not Reported | -0.032848578955672697033 | 0.2510229510 | 0.8958869542076 | 0.99999999997 | 0.0023903182 |  |
| ast\_cat1 | sq\_drink\_alcohol | sq\_drink\_alcoholNo, never drinker | -0.352878272005642534825 | 0.3610038165 | 0.3283257331925 | 0.88398286422 | 0.0115681511 |  |
| ast\_cat1 | sq\_drink\_alcohol | sq\_drink\_alcoholUnknown/Not Reported | -0.506848787883113049979 | 0.3395330618 | 0.1354943031074 | 0.78285597351 | 0.0115681511 |  |
| ast\_cat1 | sq\_drink\_alcohol | sq\_drink\_alcoholYes, current drinker | -0.735929785276800974003 | 0.3332170573 | 0.0272052766028 | 0.45011745662 | 0.0115681511 |  |
| ast\_cat1 | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day3-4 alcoholic drinks per day | 0.693147180559733677718 | 0.9860131575 | 0.4820684339916 | 0.96413686798 | 0.0078398125 |  |
| ast\_cat1 | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayLess than 1 alcoholic drink per day | 0.302280871872924072896 | 0.5228509513 | 0.5631698319792 | 0.99999999997 | 0.0078398125 |  |
| ast\_cat1 | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayUnknown/Not Reported | 0.687030953542313804761 | 0.4904613207 | 0.1612783191149 | 0.83864725940 | 0.0078398125 |  |
| ast\_cat1 | sq\_self\_hep\_b | sq\_self\_hep\_bUnknown/Not Reported | -0.022051007371304737897 | 0.2458376486 | 0.9285276514885 | 0.99999999997 | 0.0018793692 |  |
| ast\_cat1 | sq\_self\_hep\_b | sq\_self\_hep\_bYes | -0.471374431379474712056 | 0.5052782427 | 0.3508712357000 | 0.88398286422 | 0.0018793692 |  |
| ast\_cat1 | sq\_self\_hep\_c | sq\_self\_hep\_cUnknown/Not Reported | -0.145182009844444959157 | 0.2447074824 | 0.5529884363814 | 0.99999999997 | 0.0011465345 |  |
| ast\_cat1 | sq\_self\_hep\_c | sq\_self\_hep\_cYes | -0.258510695151438152362 | 0.5119705998 | 0.6136061087583 | 0.99999999997 | 0.0011465345 |  |
| ast\_cat1 | supp\_meds\_tylenol | supp\_meds\_tylenolUnknown/Not Reported | -0.125434182391773063614 | 0.8733487845 | 0.8857970835550 | 0.99999999997 | 0.0025357981 |  |
| ast\_cat1 | supp\_meds\_tylenol | supp\_meds\_tylenolYes | -1.386294361119544404914 | 1.4999997246 | 0.3553840641975 | 0.88398286422 | 0.0025357981 |  |
| ast\_cat1 | supp\_meds\_steroids | supp\_meds\_steroidsUnknown/Not Reported | -0.356674943938690480749 | 0.8441995090 | 0.6726595376456 | 0.99999999997 | 0.0048370684 |  |
| ast\_cat1 | supp\_meds\_steroids | supp\_meds\_steroidsYes | -14.482357225249574028680 | 535.4118221578 | 0.9784206477207 | 0.99999999997 | 0.0048370684 |  |
| ast\_cat1 | sq\_water\_well | sq\_water\_wellUnknown/Not Reported | -0.003466207976487810545 | 0.2395463255 | 0.9884551043902 | 0.99999999997 | 0.0098684767 |  |
| ast\_cat1 | sq\_water\_well | sq\_water\_wellYes | 0.712565266414708409215 | 0.3666102949 | 0.0519366296098 | 0.45011745662 | 0.0098684767 |  |
| ast\_cat1 | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredUnknown/Not Reported | -0.280713403135118721998 | 0.3122716071 | 0.3686846807398 | 0.88398286422 | 0.0021631830 |  |
| ast\_cat1 | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredYes | -0.265759853468061579829 | 0.2967332629 | 0.3704564550100 | 0.88398286422 | 0.0021631830 |  |
| ast\_cat1 | sq\_water\_house\_filtration | sq\_water\_house\_filtrationUnknown/Not Reported | -0.189182647173841311794 | 0.2344924957 | 0.4197962135506 | 0.93973338463 | 0.0023177135 |  |
| ast\_cat1 | sq\_water\_house\_filtration | sq\_water\_house\_filtrationYes | 0.169418151957440060729 | 0.4121582975 | 0.6810350112915 | 0.99999999997 | 0.0023177135 |  |
| ast\_cat1 | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterUnknown/Not Reported | -0.199354689350078884136 | 0.2623231214 | 0.4472793837463 | 0.93973338463 | 0.0012764581 |  |
| ast\_cat1 | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterYes | -0.084993212833300940678 | 0.2843512769 | 0.7650146936737 | 0.99999999997 | 0.0012764581 |  |
| ast\_cat1 | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterUnknown/Not Reported | -0.229741943026681105788 | 0.2406586182 | 0.3397606230648 | 0.88398286422 | 0.0023090277 |  |
| ast\_cat1 | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterYes | 0.015817073683472508694 | 0.3410710551 | 0.9630115876787 | 0.99999999997 | 0.0023090277 |  |
| ast\_cat1 | sq\_water\_bottled | sq\_water\_bottledUnknown/Not Reported | -0.015851147737615558370 | 0.3031301746 | 0.9582963834514 | 0.99999999997 | 0.0012159396 |  |
| ast\_cat1 | sq\_water\_bottled | sq\_water\_bottledYes | 0.157489581092668889939 | 0.2944217639 | 0.5927110704381 | 0.99999999997 | 0.0012159396 |  |
| ast\_cat1 | sq\_water\_none | sq\_water\_noneUnknown/Not Reported | -0.204176395809693045358 | 0.2296647712 | 0.3739927502469 | 0.88398286422 | 0.0018647246 |  |
| ast\_cat1 | sq\_water\_none | sq\_water\_noneYes | 0.053652713492205766910 | 0.5681542690 | 0.9247649211334 | 0.99999999997 | 0.0018647246 |  |
| ast\_cat1 | sq\_water\_other\_type | sq\_water\_other\_typeUnknown/Not Reported | -0.174941449496309575640 | 0.2325031857 | 0.4517948964556 | 0.93973338463 | 0.0109594292 |  |
| ast\_cat1 | sq\_water\_other\_type | sq\_water\_other\_typeYes | 0.913620503318287147110 | 0.5181638040 | 0.0778686887271 | 0.51681097078 | 0.0109594292 |  |
| ast\_cat2 | age\_at\_enrollment | age\_at\_enrollment | -0.013842803235885601729 | 0.0114476941 | 0.2265775804757 | 0.76358307774 |  |  |
| ast\_cat2 | bmi | bmi | 0.014221759789009776401 | 0.0159134177 | 0.3714844964376 | 0.91986637213 |  |  |
| ast\_cat2 | trig\_mg\_d\_l | trig\_mg\_d\_l | 0.004958760342932038226 | 0.0014739073 | 0.0007672031800 | 0.01994728268 |  | \* |
| ast\_cat2 | sex | sexMale | 0.064500835744300988317 | 0.2256388462 | 0.7749863181055 | 1.00000000000 | 0.0001692257 |  |
| ast\_cat2 | race\_eth\_label | race\_eth\_labelNHB | -0.993251773009863780928 | 0.5506129105 | 0.0712466592749 | 0.52143396031 | 0.0339238789 |  |
| ast\_cat2 | race\_eth\_label | race\_eth\_labelNHO | -0.839101093182969326456 | 0.7517175812 | 0.2643172192188 | 0.76358307774 | 0.0339238789 |  |
| ast\_cat2 | race\_eth\_label | race\_eth\_labelNHW | -0.034786116085395314690 | 0.5232655372 | 0.9469965577811 | 1.00000000000 | 0.0339238789 |  |
| ast\_cat2 | race\_eth\_label | race\_eth\_labelUnknown/Not Reported | -0.810930216216288912712 | 0.6711160894 | 0.2269200600922 | 0.76358307774 | 0.0339238789 |  |
| ast\_cat2 | race\_final\_label | race\_final\_labelAmerican Indian/Alaskan Native | -31.132136482125872589677 | 1,328.5900867341 | 0.9813053113218 | 1.00000000000 | 0.0596588424 |  |
| ast\_cat2 | race\_final\_label | race\_final\_labelAsian | -16.259215413952563977773 | 1,029.1221790768 | 0.9873946577657 | 1.00000000000 | 0.0596588424 |  |
| ast\_cat2 | race\_final\_label | race\_final\_labelAsian/Pacific Islander | -15.566068233392559960748 | 1,029.1217742009 | 0.9879319899114 | 1.00000000000 | 0.0596588424 |  |
| ast\_cat2 | race\_final\_label | race\_final\_labelBlack | -16.366187533504646722804 | 1,029.1214730140 | 0.9873117233577 | 1.00000000000 | 0.0596588424 |  |
| ast\_cat2 | race\_final\_label | race\_final\_labelMore than one race | -31.132136482160845503131 | 1,782.4906554613 | 0.9860652350975 | 1.00000000000 | 0.0596588424 |  |
| ast\_cat2 | race\_final\_label | race\_final\_labelOther | -15.748389790186601899791 | 1,029.1216284455 | 0.9877906494958 | 1.00000000000 | 0.0596588424 |  |
| ast\_cat2 | race\_final\_label | race\_final\_labelUnknown/Not Reported | -17.175506145826584969427 | 1,029.1220333215 | 0.9866843439600 | 1.00000000000 | 0.0596588424 |  |
| ast\_cat2 | race\_final\_label | race\_final\_labelWhite | -15.315924080259902595458 | 1,029.1214593967 | 0.9881259027798 | 1.00000000000 | 0.0596588424 |  |
| ast\_cat2 | ethnicity | ethnicityNot Hispanic | -0.347852355323562123512 | 0.5165849204 | 0.5007124619505 | 0.96433511190 | 0.0033074793 |  |
| ast\_cat2 | ethnicity | ethnicityUnknown/Not Reported | -0.810930216216315558064 | 0.6711160894 | 0.2269200600922 | 0.76358307774 | 0.0033074793 |  |
| ast\_cat2 | rural | ruralLiving in rural area | 1.941014178443090099080 | 0.5046602597 | 0.0001199736593 | 0.00623863028 | 0.0463460208 | \* |
| ast\_cat2 | rural | ruralUnknown/Not Reported | 0.694481759698375444856 | 0.3473618260 | 0.0455755116600 | 0.45177887589 | 0.0463460208 |  |
| ast\_cat2 | smoking | smokingSmoke or use vape | 0.820580472048383802175 | 0.3961457631 | 0.0383204554778 | 0.45177887589 | 0.0099749548 |  |
| ast\_cat2 | smoking | smokingUnknown/Not Reported | -0.030841105522573845910 | 0.2442317600 | 0.8995118465260 | 1.00000000000 | 0.0099749548 |  |
| ast\_cat2 | sq\_drink\_alcohol | sq\_drink\_alcoholNo, never drinker | -0.254892249628788758464 | 0.3314960685 | 0.4419438614662 | 0.95933438250 | 0.0088287060 |  |
| ast\_cat2 | sq\_drink\_alcohol | sq\_drink\_alcoholUnknown/Not Reported | -0.459686662274800261763 | 0.3138532392 | 0.1430151148779 | 0.74367859737 | 0.0088287060 |  |
| ast\_cat2 | sq\_drink\_alcohol | sq\_drink\_alcoholYes, current drinker | -0.604565998108537949740 | 0.3112994072 | 0.0521283318338 | 0.45177887589 | 0.0088287060 |  |
| ast\_cat2 | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day3-4 alcoholic drinks per day | 1.648658625584836112665 | 1.0133717987 | 0.1037574898452 | 0.59948771911 | 0.0106436718 |  |
| ast\_cat2 | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayLess than 1 alcoholic drink per day | 0.653230573152152160787 | 0.5727770709 | 0.2540938105122 | 0.76358307774 | 0.0106436718 |  |
| ast\_cat2 | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayUnknown/Not Reported | 0.947348134385935236601 | 0.5415251430 | 0.0802206092790 | 0.52143396031 | 0.0106436718 |  |
| ast\_cat2 | sq\_self\_hep\_b | sq\_self\_hep\_bUnknown/Not Reported | -0.054194650356505467970 | 0.2364616464 | 0.8187212261005 | 1.00000000000 | 0.0006653804 |  |
| ast\_cat2 | sq\_self\_hep\_b | sq\_self\_hep\_bYes | -0.277338177185268652813 | 0.5103757843 | 0.5868544580748 | 1.00000000000 | 0.0006653804 |  |
| ast\_cat2 | sq\_self\_hep\_c | sq\_self\_hep\_cUnknown/Not Reported | -0.105128054836923209847 | 0.2374821643 | 0.6579988850582 | 1.00000000000 | 0.0008818162 |  |
| ast\_cat2 | sq\_self\_hep\_c | sq\_self\_hep\_cYes | 0.205558646523452209776 | 0.5036749738 | 0.6831873028345 | 1.00000000000 | 0.0008818162 |  |
| ast\_cat2 | supp\_meds\_tylenol | supp\_meds\_tylenolUnknown/Not Reported | 0.598959965500006075168 | 0.8728061306 | 0.4925578144945 | 0.96433511190 | 0.0015280567 |  |
| ast\_cat2 | supp\_meds\_tylenol | supp\_meds\_tylenolYes | -0.000000000000042299489 | 1.4999997246 | 1.0000000000000 | 1.00000000000 | 0.0015280567 |  |
| ast\_cat2 | supp\_meds\_steroids | supp\_meds\_steroidsUnknown/Not Reported | 0.187892601843360762537 | 0.7714225593 | 0.8075666674379 | 1.00000000000 | 0.0027809706 |  |
| ast\_cat2 | supp\_meds\_steroids | supp\_meds\_steroidsYes | -13.278384420922492381578 | 535.4117132071 | 0.9802142319391 | 1.00000000000 | 0.0027809706 |  |
| ast\_cat2 | sq\_water\_well | sq\_water\_wellUnknown/Not Reported | -0.050250689677208922046 | 0.2346854004 | 0.8304539723045 | 1.00000000000 | 0.0120228589 |  |
| ast\_cat2 | sq\_water\_well | sq\_water\_wellYes | 0.714668316613816689831 | 0.3289436395 | 0.0298092071899 | 0.45177887589 | 0.0120228589 |  |
| ast\_cat2 | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredUnknown/Not Reported | -0.347922150896313453483 | 0.2962590741 | 0.2402409342110 | 0.76358307774 | 0.0028702732 |  |
| ast\_cat2 | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredYes | -0.220136030232662704975 | 0.2798917864 | 0.4315722333702 | 0.95933438250 | 0.0028702732 |  |
| ast\_cat2 | sq\_water\_house\_filtration | sq\_water\_house\_filtrationUnknown/Not Reported | -0.279171377847728219290 | 0.2280148816 | 0.2208179775337 | 0.76358307774 | 0.0033320508 |  |
| ast\_cat2 | sq\_water\_house\_filtration | sq\_water\_house\_filtrationYes | 0.000000000000000170395 | 0.3836954811 | 1.0000000000000 | 1.00000000000 | 0.0033320508 |  |
| ast\_cat2 | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterUnknown/Not Reported | -0.249875370558082871009 | 0.2528925411 | 0.3231186816928 | 0.84010857240 | 0.0020282842 |  |
| ast\_cat2 | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterYes | -0.119444757101601337079 | 0.2717892889 | 0.6603169680764 | 1.00000000000 | 0.0020282842 |  |
| ast\_cat2 | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterUnknown/Not Reported | -0.303081947469558132813 | 0.2334168672 | 0.1941300748593 | 0.76358307774 | 0.0035834448 |  |
| ast\_cat2 | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterYes | -0.197156623083425935894 | 0.3241344564 | 0.5430179129814 | 1.00000000000 | 0.0035834448 |  |
| ast\_cat2 | sq\_water\_bottled | sq\_water\_bottledUnknown/Not Reported | -0.115684394301602544441 | 0.2959120606 | 0.6958402540905 | 1.00000000000 | 0.0039656265 |  |
| ast\_cat2 | sq\_water\_bottled | sq\_water\_bottledYes | 0.215162662857548758755 | 0.2841576044 | 0.4489331600266 | 0.95933438250 | 0.0039656265 |  |
| ast\_cat2 | sq\_water\_none | sq\_water\_noneUnknown/Not Reported | -0.237954698131189440469 | 0.2228713023 | 0.2856659640904 | 0.78182263856 | 0.0028442327 |  |
| ast\_cat2 | sq\_water\_none | sq\_water\_noneYes | 0.154150679794893996633 | 0.5371008608 | 0.7741084244526 | 1.00000000000 | 0.0028442327 |  |
| ast\_cat2 | sq\_water\_other\_type | sq\_water\_other\_typeUnknown/Not Reported | -0.167160915843783758339 | 0.2268612827 | 0.4612184531229 | 0.95933438250 | 0.0011446621 |  |
| ast\_cat2 | sq\_water\_other\_type | sq\_water\_other\_typeYes | -0.031548357734394370799 | 0.4118711572 | 0.9389436381644 | 1.00000000000 | 0.0011446621 |  |
| log\_alt | age\_at\_enrollment | age\_at\_enrollment | -0.002207931290548020755 | 0.0036360310 | 0.5441077034674 | 0.98008279661 | 0.0011060916 |  |
| log\_alt | bmi | bmi | -0.002513717277598035219 | 0.0050335132 | 0.6178568410204 | 0.98008279661 | 0.0008090739 |  |
| log\_alt | trig\_mg\_d\_l | trig\_mg\_d\_l | 0.002136954448727863831 | 0.0004087705 | 0.0000002970208 | 0.00001544508 | 0.0730091573 | \* |
| log\_alt | sex | sexMale | 0.293565778182391934337 | 0.0695276778 | 0.0000309280152 | 0.00080412839 | 0.0488660907 | \* |
| log\_alt | race\_eth\_label | race\_eth\_labelNHB | -0.283741388452009801746 | 0.1687843984 | 0.0936535162438 | 0.48699828447 | 0.0366038264 |  |
| log\_alt | race\_eth\_label | race\_eth\_labelNHO | -0.041355467200318157817 | 0.2282218045 | 0.8563115475076 | 0.98008279661 | 0.0366038264 |  |
| log\_alt | race\_eth\_label | race\_eth\_labelNHW | -0.010185964299059118224 | 0.1619037031 | 0.9498717488787 | 0.98008279661 | 0.0366038264 |  |
| log\_alt | race\_eth\_label | race\_eth\_labelUnknown/Not Reported | -0.009292804234793566528 | 0.2048995400 | 0.9638522765535 | 0.98008279661 | 0.0366038264 |  |
| log\_alt | race\_final\_label | race\_final\_labelAmerican Indian/Alaskan Native | -0.550673499290825207986 | 0.5657006530 | 0.3310285814699 | 0.98008279661 | 0.0597594782 |  |
| log\_alt | race\_final\_label | race\_final\_labelAsian | 0.313046375452122660477 | 0.5657006530 | 0.5803681989408 | 0.98008279661 | 0.0597594782 |  |
| log\_alt | race\_final\_label | race\_final\_labelAsian/Pacific Islander | -0.145112590583047318393 | 0.5059780461 | 0.7744430495004 | 0.98008279661 | 0.0597594782 |  |
| log\_alt | race\_final\_label | race\_final\_labelBlack | -0.563549476546966965351 | 0.4425500470 | 0.2037410371892 | 0.86478773652 | 0.0597594782 |  |
| log\_alt | race\_final\_label | race\_final\_labelMore than one race | -0.317646193930907372316 | 0.7589670691 | 0.6758280323649 | 0.98008279661 | 0.0597594782 |  |
| log\_alt | race\_final\_label | race\_final\_labelOther | -0.590217357657354724232 | 0.4763625801 | 0.2161969341306 | 0.86478773652 | 0.0597594782 |  |
| log\_alt | race\_final\_label | race\_final\_labelUnknown/Not Reported | -0.532130126326661567759 | 0.5059780461 | 0.2936904262920 | 0.98008279661 | 0.0597594782 |  |
| log\_alt | race\_final\_label | race\_final\_labelWhite | -0.279313749991361714997 | 0.4402045182 | 0.5261753640418 | 0.98008279661 | 0.0597594782 |  |
| log\_alt | ethnicity | ethnicityNot Hispanic | -0.093391840462538469603 | 0.1622486579 | 0.5652534393178 | 0.98008279661 | 0.0018946465 |  |
| log\_alt | ethnicity | ethnicityUnknown/Not Reported | -0.009292804234792810189 | 0.2079542925 | 0.9643827630688 | 0.98008279661 | 0.0018946465 |  |
| log\_alt | rural | ruralLiving in rural area | 0.439547871840265280685 | 0.1188958984 | 0.0002536647775 | 0.00439685614 | 0.0455946229 | \* |
| log\_alt | rural | ruralUnknown/Not Reported | 0.220437220888875878844 | 0.1057814927 | 0.0379033265578 | 0.37459424138 | 0.0455946229 |  |
| log\_alt | smoking | smokingSmoke or use vape | 0.042593643465363727196 | 0.1198650741 | 0.7225464915976 | 0.98008279661 | 0.0004898065 |  |
| log\_alt | smoking | smokingUnknown/Not Reported | 0.021126079837295433372 | 0.0769745892 | 0.7838985836114 | 0.98008279661 | 0.0004898065 |  |
| log\_alt | sq\_drink\_alcohol | sq\_drink\_alcoholNo, never drinker | -0.032363067662671073099 | 0.1045507093 | 0.7570944532540 | 0.98008279661 | 0.0031424337 |  |
| log\_alt | sq\_drink\_alcohol | sq\_drink\_alcoholUnknown/Not Reported | -0.033787979216543563565 | 0.0987200637 | 0.7323632611005 | 0.98008279661 | 0.0031424337 |  |
| log\_alt | sq\_drink\_alcohol | sq\_drink\_alcoholYes, current drinker | -0.095777298935180998907 | 0.0975163567 | 0.3267060818802 | 0.98008279661 | 0.0031424337 |  |
| log\_alt | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day3-4 alcoholic drinks per day | 1.009809291207313775018 | 0.2935640357 | 0.0006534399786 | 0.00849471972 | 0.0365199013 | \* |
| log\_alt | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayLess than 1 alcoholic drink per day | 0.178189090513829140328 | 0.1624579236 | 0.2734797163865 | 0.98008279661 | 0.0365199013 |  |
| log\_alt | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayUnknown/Not Reported | 0.267549711068818085735 | 0.1520784529 | 0.0794150635733 | 0.48252800353 | 0.0365199013 |  |
| log\_alt | sq\_self\_hep\_b | sq\_self\_hep\_bUnknown/Not Reported | 0.026116634585132490753 | 0.0747540851 | 0.7270260936567 | 0.98008279661 | 0.0003948772 |  |
| log\_alt | sq\_self\_hep\_b | sq\_self\_hep\_bYes | 0.027306711391137595407 | 0.1592689037 | 0.8639698828957 | 0.98008279661 | 0.0003948772 |  |
| log\_alt | sq\_self\_hep\_c | sq\_self\_hep\_cUnknown/Not Reported | -0.001862266355244789106 | 0.0745408597 | 0.9800827966114 | 0.98008279661 | 0.0112182611 |  |
| log\_alt | sq\_self\_hep\_c | sq\_self\_hep\_cYes | -0.310928346810976474757 | 0.1583800978 | 0.0504261478786 | 0.37459424138 | 0.0112182611 |  |
| log\_alt | supp\_meds\_tylenol | supp\_meds\_tylenolUnknown/Not Reported | 0.199051890540264675433 | 0.2603916998 | 0.4451305330603 | 0.98008279661 | 0.0039299509 |  |
| log\_alt | supp\_meds\_tylenol | supp\_meds\_tylenolYes | -0.128351370282677068602 | 0.4470840465 | 0.7742186631467 | 0.98008279661 | 0.0039299509 |  |
| log\_alt | supp\_meds\_steroids | supp\_meds\_steroidsUnknown/Not Reported | 0.199607718895820573923 | 0.2416537365 | 0.4093692181921 | 0.98008279661 | 0.0019742556 |  |
| log\_alt | supp\_meds\_steroids | supp\_meds\_steroidsYes | 0.166164401400813399601 | 0.6765907807 | 0.8061447006724 | 0.98008279661 | 0.0019742556 |  |
| log\_alt | sq\_water\_well | sq\_water\_wellUnknown/Not Reported | 0.031794331021595220732 | 0.0735584492 | 0.6658419016806 | 0.98008279661 | 0.0086832953 |  |
| log\_alt | sq\_water\_well | sq\_water\_wellYes | 0.175275227781433451391 | 0.1009848390 | 0.0835144621501 | 0.48252800353 | 0.0086832953 |  |
| log\_alt | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredUnknown/Not Reported | 0.034781136884748389826 | 0.0934568701 | 0.7099997432930 | 0.98008279661 | 0.0007495389 |  |
| log\_alt | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredYes | -0.002692238993044254475 | 0.0884947990 | 0.9757475874814 | 0.98008279661 | 0.0007495389 |  |
| log\_alt | sq\_water\_house\_filtration | sq\_water\_house\_filtrationUnknown/Not Reported | -0.063383304829863762464 | 0.0713989594 | 0.3753003699959 | 0.98008279661 | 0.0119040603 |  |
| log\_alt | sq\_water\_house\_filtration | sq\_water\_house\_filtrationYes | -0.242150098986196132822 | 0.1208135028 | 0.0458136722851 | 0.37459424138 | 0.0119040603 |  |
| log\_alt | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterUnknown/Not Reported | 0.026894860167019651181 | 0.0797826336 | 0.7362446381835 | 0.98008279661 | 0.0013977116 |  |
| log\_alt | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterYes | 0.059821107807707891990 | 0.0859663378 | 0.4869794800281 | 0.98008279661 | 0.0013977116 |  |
| log\_alt | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterUnknown/Not Reported | -0.044433081808467667084 | 0.0735163837 | 0.5459758379490 | 0.98008279661 | 0.0015987062 |  |
| log\_alt | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterYes | -0.062228675890708871898 | 0.1023346704 | 0.5435268149774 | 0.98008279661 | 0.0015987062 |  |
| log\_alt | sq\_water\_bottled | sq\_water\_bottledUnknown/Not Reported | 0.052163065090516949618 | 0.0931437335 | 0.5758229763777 | 0.98008279661 | 0.0012439377 |  |
| log\_alt | sq\_water\_bottled | sq\_water\_bottledYes | 0.009158367772328304332 | 0.0897440181 | 0.9187761847154 | 0.98008279661 | 0.0012439377 |  |
| log\_alt | sq\_water\_none | sq\_water\_noneUnknown/Not Reported | -0.024571004733646099188 | 0.0702387267 | 0.7266856251225 | 0.98008279661 | 0.0004187553 |  |
| log\_alt | sq\_water\_none | sq\_water\_noneYes | 0.014818283198648621660 | 0.1697441939 | 0.9304853564469 | 0.98008279661 | 0.0004187553 |  |
| log\_alt | sq\_water\_other\_type | sq\_water\_other\_typeUnknown/Not Reported | -0.008960304389123525601 | 0.0714075422 | 0.9002154810639 | 0.98008279661 | 0.0060226543 |  |
| log\_alt | sq\_water\_other\_type | sq\_water\_other\_typeYes | 0.178810780552914438957 | 0.1299887886 | 0.1698396461760 | 0.80287832738 | 0.0060226543 |  |
| log\_ast | age\_at\_enrollment | age\_at\_enrollment | -0.000894680486018714985 | 0.0034000958 | 0.7926101055298 | 0.89726731062 | 0.0002078831 |  |
| log\_ast | bmi | bmi | -0.003148038802301751649 | 0.0047657748 | 0.5093938236234 | 0.75192103230 | 0.0014146454 |  |
| log\_ast | trig\_mg\_d\_l | trig\_mg\_d\_l | 0.001085513580212882270 | 0.0003935483 | 0.0061185735101 | 0.05302763709 | 0.0214548628 |  |
| log\_ast | sex | sexMale | 0.238018976647827035231 | 0.0655706768 | 0.0003261280897 | 0.00847933033 | 0.0365837587 | \* |
| log\_ast | race\_eth\_label | race\_eth\_labelNHB | -0.041526075166507463166 | 0.1586994971 | 0.7937364670859 | 0.89726731062 | 0.0300265831 |  |
| log\_ast | race\_eth\_label | race\_eth\_labelNHO | 0.030376613721768312010 | 0.2145855064 | 0.8875108349611 | 0.95129005145 | 0.0300265831 |  |
| log\_ast | race\_eth\_label | race\_eth\_labelNHW | 0.186528788626513286619 | 0.1522299247 | 0.2212968673781 | 0.46033312840 | 0.0300265831 |  |
| log\_ast | race\_eth\_label | race\_eth\_labelUnknown/Not Reported | 0.157264542450719579936 | 0.1926567518 | 0.4148969238508 | 0.68278080198 | 0.0300265831 |  |
| log\_ast | race\_final\_label | race\_final\_labelAmerican Indian/Alaskan Native | -1.328503850217025217262 | 0.5302031972 | 0.0126894798275 | 0.08248161888 | 0.0593702665 |  |
| log\_ast | race\_final\_label | race\_final\_labelAsian | -0.544696761934771345182 | 0.5302031972 | 0.3049926487600 | 0.56641491913 | 0.0593702665 |  |
| log\_ast | race\_final\_label | race\_final\_labelAsian/Pacific Islander | -0.660216532723117754955 | 0.4742281564 | 0.1647742414242 | 0.44936488659 | 0.0593702665 |  |
| log\_ast | race\_final\_label | race\_final\_labelBlack | -0.878349905838465949692 | 0.4147802350 | 0.0349321150814 | 0.17455015699 | 0.0593702665 |  |
| log\_ast | race\_final\_label | race\_final\_labelMore than one race | -1.108921932269493648704 | 0.7113422345 | 0.1199468440530 | 0.38120973974 | 0.0593702665 |  |
| log\_ast | race\_final\_label | race\_final\_labelOther | -0.841170595451019909028 | 0.4464710473 | 0.0604122131917 | 0.24164885277 | 0.0593702665 |  |
| log\_ast | race\_final\_label | race\_final\_labelUnknown/Not Reported | -1.035215479107740810250 | 0.4742281564 | 0.0297231764421 | 0.17173390833 | 0.0593702665 |  |
| log\_ast | race\_final\_label | race\_final\_labelWhite | -0.635146373673765363144 | 0.4125818871 | 0.1246262610677 | 0.38120973974 | 0.0593702665 |  |
| log\_ast | ethnicity | ethnicityNot Hispanic | 0.111302959747361693288 | 0.1520286894 | 0.4645920774416 | 0.73208448567 | 0.0019927963 |  |
| log\_ast | ethnicity | ethnicityUnknown/Not Reported | 0.157264542450722716316 | 0.1948553470 | 0.4201728012168 | 0.68278080198 | 0.0019927963 |  |
| log\_ast | rural | ruralLiving in rural area | 0.345068598864175402063 | 0.1117282858 | 0.0021746777309 | 0.02827081050 | 0.0401711111 | \* |
| log\_ast | rural | ruralUnknown/Not Reported | 0.253071909242553072517 | 0.0994044791 | 0.0113333302445 | 0.08248161888 | 0.0401711111 |  |
| log\_ast | smoking | smokingSmoke or use vape | 0.418054566377207448280 | 0.1100729513 | 0.0001722672490 | 0.00847933033 | 0.0400877200 | \* |
| log\_ast | smoking | smokingUnknown/Not Reported | 0.042350027696228850771 | 0.0706863135 | 0.5494807543758 | 0.75192103230 | 0.0400877200 |  |
| log\_ast | sq\_drink\_alcohol | sq\_drink\_alcoholNo, never drinker | -0.178923564483067260023 | 0.0968905171 | 0.0656530998965 | 0.24385437104 | 0.0249876790 |  |
| log\_ast | sq\_drink\_alcohol | sq\_drink\_alcoholUnknown/Not Reported | -0.175922580975668013670 | 0.0914870696 | 0.0553126411802 | 0.23968811178 | 0.0249876790 |  |
| log\_ast | sq\_drink\_alcohol | sq\_drink\_alcoholYes, current drinker | -0.267408536075597225157 | 0.0903715554 | 0.0032997012138 | 0.03431689262 | 0.0249876790 | \* |
| log\_ast | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day3-4 alcoholic drinks per day | 0.879934566767678338906 | 0.2740516374 | 0.0014479126519 | 0.02509715263 | 0.0437526021 | \* |
| log\_ast | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayLess than 1 alcoholic drink per day | 0.074991856207319851357 | 0.1516597899 | 0.6212860211452 | 0.82838136153 | 0.0437526021 |  |
| log\_ast | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayUnknown/Not Reported | 0.249988182693879346097 | 0.1419702142 | 0.0791497849170 | 0.27438592105 | 0.0437526021 |  |
| log\_ast | sq\_self\_hep\_b | sq\_self\_hep\_bUnknown/Not Reported | 0.020494848366305471604 | 0.0700213340 | 0.7699312407057 | 0.89726731062 | 0.0011787184 |  |
| log\_ast | sq\_self\_hep\_b | sq\_self\_hep\_bYes | 0.090283445612804338887 | 0.1491854403 | 0.5454587774969 | 0.75192103230 | 0.0011787184 |  |
| log\_ast | sq\_self\_hep\_c | sq\_self\_hep\_cUnknown/Not Reported | -0.001751118339923484184 | 0.0702241441 | 0.9801202842253 | 0.98012028423 | 0.0005686555 |  |
| log\_ast | sq\_self\_hep\_c | sq\_self\_hep\_cYes | 0.064827699325887430670 | 0.1492081906 | 0.6642120837566 | 0.84241532574 | 0.0005686555 |  |
| log\_ast | supp\_meds\_tylenol | supp\_meds\_tylenolUnknown/Not Reported | 0.019077097160450636609 | 0.2439742605 | 0.9377196716145 | 0.95610633184 | 0.0041543210 |  |
| log\_ast | supp\_meds\_tylenol | supp\_meds\_tylenolYes | -0.393071744017929936010 | 0.4188958394 | 0.3487181035980 | 0.62528763404 | 0.0041543210 |  |
| log\_ast | supp\_meds\_steroids | supp\_meds\_steroidsUnknown/Not Reported | 0.049030535582638770653 | 0.2264722823 | 0.8287280681834 | 0.91689062863 | 0.0017179956 |  |
| log\_ast | supp\_meds\_steroids | supp\_meds\_steroidsYes | -0.391896423588799669435 | 0.6340852017 | 0.5369489109322 | 0.75192103230 | 0.0017179956 |  |
| log\_ast | sq\_water\_well | sq\_water\_wellUnknown/Not Reported | -0.007923263496710760898 | 0.0687263326 | 0.9082843943542 | 0.95129005145 | 0.0144877006 |  |
| log\_ast | sq\_water\_well | sq\_water\_wellYes | 0.197637634073006940305 | 0.0943510597 | 0.0369240716711 | 0.17455015699 | 0.0144877006 |  |
| log\_ast | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredUnknown/Not Reported | -0.102549395251678790442 | 0.0873703559 | 0.2413096227239 | 0.46474445858 | 0.0053998582 |  |
| log\_ast | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredYes | -0.107040077507011749391 | 0.0827314469 | 0.1965886023389 | 0.44936488659 | 0.0053998582 |  |
| log\_ast | sq\_water\_house\_filtration | sq\_water\_house\_filtrationUnknown/Not Reported | -0.086496646376191185790 | 0.0671323836 | 0.1984506396137 | 0.44936488659 | 0.0051722326 |  |
| log\_ast | sq\_water\_house\_filtration | sq\_water\_house\_filtrationYes | -0.078298083702701387621 | 0.1135940702 | 0.4911092621142 | 0.75110828323 | 0.0051722326 |  |
| log\_ast | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterUnknown/Not Reported | -0.087667300833286568307 | 0.0745905537 | 0.2406773695973 | 0.46474445858 | 0.0059416054 |  |
| log\_ast | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterYes | -0.103484062806179250016 | 0.0803718360 | 0.1987575459912 | 0.44936488659 | 0.0059416054 |  |
| log\_ast | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterUnknown/Not Reported | -0.089678813490724623714 | 0.0686668459 | 0.1924205770835 | 0.44936488659 | 0.0080278546 |  |
| log\_ast | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterYes | -0.135299017119704628742 | 0.0955841228 | 0.1578223514101 | 0.44936488659 | 0.0080278546 |  |
| log\_ast | sq\_water\_bottled | sq\_water\_bottledUnknown/Not Reported | 0.024805326618798459459 | 0.0870904426 | 0.7759504542921 | 0.89726731062 | 0.0055989959 |  |
| log\_ast | sq\_water\_bottled | sq\_water\_bottledYes | 0.102812872716518927119 | 0.0839116703 | 0.2213140040395 | 0.46033312840 | 0.0055989959 |  |
| log\_ast | sq\_water\_none | sq\_water\_noneUnknown/Not Reported | -0.057684249219906121031 | 0.0657581618 | 0.3809768625039 | 0.66035989501 | 0.0022250837 |  |
| log\_ast | sq\_water\_none | sq\_water\_noneYes | -0.017033898718126203042 | 0.1589161235 | 0.9147019725478 | 0.95129005145 | 0.0022250837 |  |
| log\_ast | sq\_water\_other\_type | sq\_water\_other\_typeUnknown/Not Reported | -0.029607954453489373353 | 0.0670702908 | 0.6591654263123 | 0.84241532574 | 0.0013412561 |  |
| log\_ast | sq\_water\_other\_type | sq\_water\_other\_typeYes | 0.049419977220526677131 | 0.1220933474 | 0.6858951803128 | 0.84920355658 | 0.0013412561 |  |