| 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 | 0.1082071725217891023 | 0.452945336795203435 | 0.0095228085 |  |
| alt\_cat1 | bmi | bmi | 0.017865437401708639947 | 0.0224414331 | 0.4259787700423713352 | 0.732725141386980194 | 0.0025277292 |  |
| alt\_cat1 | trig\_mg\_d\_l | trig\_mg\_d\_l | 0.005462243962190295628 | 0.0016636442 | 0.0010259917945940058 | 0.028214774351335160 | 0.0362093832 | \* |
| alt\_cat1 | sex | sexMale | -0.550647100973884140451 | 0.3532883987 | 0.1190831711742904309 | 0.452945336795203435 | 0.0091600929 |  |
| alt\_cat1 | race\_eth\_label | race\_eth\_labelNHB | -1.769286611643421158746 | 0.7380279235 | 0.0165156453270014630 | 0.181672098597016107 | 0.0401226494 |  |
| alt\_cat1 | race\_eth\_label | race\_eth\_labelNHO | -1.466337068788595487945 | 1.1875408668 | 0.2169169829839315555 | 0.596521703205811771 | 0.0401226494 |  |
| alt\_cat1 | race\_eth\_label | race\_eth\_labelNHW | -0.441832752279043727839 | 0.6058576500 | 0.4658375856090783418 | 0.767144244490908012 | 0.0401226494 |  |
| alt\_cat1 | race\_eth\_label | race\_eth\_labelUnknown/Not Reported | -0.747214401830225805057 | 0.8481145239 | 0.3783015425565666168 | 0.717468442779695348 | 0.0401226494 |  |
| alt\_cat1 | race\_final\_label | race\_final\_labelAmerican Indian | 1.456911928333845418493 | 1.4248059735 | 0.3065284358973229817 | 0.717468442779695348 | 0.0700048442 |  |
| alt\_cat1 | race\_final\_label | race\_final\_labelAmerican Indian/Alaskan Native | -16.109156558009949833377 | 2,284.1017839236 | 0.9943727810902102116 | 0.999999999998722577 | 0.0700048442 |  |
| alt\_cat1 | race\_final\_label | race\_final\_labelAsian | 0.763764747773893581950 | 1.2369608167 | 0.5369361964868989423 | 0.799493878615806786 | 0.0700048442 |  |
| alt\_cat1 | race\_final\_label | race\_final\_labelAsian/Pacific Islander | -16.109156558025318872751 | 1,615.1038649906 | 0.9920419766952605078 | 0.999999999998722577 | 0.0700048442 |  |
| alt\_cat1 | race\_final\_label | race\_final\_labelBlack | -1.487527050832599950780 | 0.4905082852 | 0.0024243771026031648 | 0.036895273263455361 | 0.0700048442 | \* |
| alt\_cat1 | race\_final\_label | race\_final\_labelMore than one race | -16.109156558015797600092 | 3,956.1803317950 | 0.9967511056855899998 | 0.999999999998722577 | 0.0700048442 |  |
| alt\_cat1 | race\_final\_label | race\_final\_labelOther | -0.845673164660203480203 | 1.0630484759 | 0.4263128095342430535 | 0.732725141386980194 | 0.0700048442 |  |
| alt\_cat1 | race\_final\_label | race\_final\_labelUnknown/Not Reported | -16.109156558024473326896 | 1,615.1038649912 | 0.9920419766952641716 | 0.999999999998722577 | 0.0700048442 |  |
| alt\_cat1 | ethnicity | ethnicityNot Hispanic | -0.758429472651821923179 | 0.6007160013 | 0.2067536490604643951 | 0.596521703205811771 | 0.0050141511 |  |
| alt\_cat1 | ethnicity | ethnicityUnknown/Not Reported | -0.747214401832278607429 | 0.8481139232 | 0.3783012048075002354 | 0.717468442779695348 | 0.0050141511 |  |
| alt\_cat1 | rural | ruralLiving in rural area | 1.285823830644600818118 | 0.4283413529 | 0.0026832926009785715 | 0.036895273263455361 | 0.0284067926 | \* |
| alt\_cat1 | rural | ruralUnknown/Not Reported | 0.062048399037798213085 | 0.5127251042 | 0.9036776549070907327 | 0.999999999998722577 | 0.0284067926 |  |
| alt\_cat1 | smoking | smokingSmoke or use vape | 0.227658231668759675204 | 0.4898421592 | 0.6421045202657429396 | 0.905532015759381137 | 0.0108478368 |  |
| alt\_cat1 | smoking | smokingUnknown/Not Reported | -0.597416406111424214131 | 0.3963816914 | 0.1317659161586046401 | 0.452945336795203435 | 0.0108478368 |  |
| alt\_cat1 | sq\_drink\_alcohol | sq\_drink\_alcoholNo, former drinker (stopped) | -0.118263920493732951900 | 0.4476291429 | 0.7916252930397533749 | 0.999999999998722577 | 0.0105007490 |  |
| alt\_cat1 | sq\_drink\_alcohol | sq\_drink\_alcoholUnknown/Not Reported | -0.713226337643590113657 | 0.4637859070 | 0.1240888910259996952 | 0.452945336795203435 | 0.0105007490 |  |
| alt\_cat1 | sq\_drink\_alcohol | sq\_drink\_alcoholYes, current drinker | -0.126562723308429825320 | 0.4082397926 | 0.7565453323068312974 | 0.990714125639898135 | 0.0105007490 |  |
| alt\_cat1 | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day1-2 alcoholic drinks per day | -1.098612287703129686278 | 1.0755551545 | 0.3070472415859763493 | 0.717468442779695348 | 0.0206324336 |  |
| alt\_cat1 | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day3-4 alcoholic drinks per day | 1.734601055388105717014 | 0.8744746322 | 0.0473013199755178831 | 0.325196574831685459 | 0.0206324336 |  |
| alt\_cat1 | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayUnknown/Not Reported | -0.125477657817427923348 | 0.3647728432 | 0.7308549456515840426 | 0.987762851165703504 | 0.0206324336 |  |
| alt\_cat1 | sq\_self\_hep\_b | sq\_self\_hep\_bUnknown/Not Reported | -0.824894451390963179271 | 0.3897119082 | 0.0342872224687854749 | 0.314299539297200170 | 0.0365968656 |  |
| alt\_cat1 | sq\_self\_hep\_b | sq\_self\_hep\_bYes | -16.023839323614339491542 | 959.5146844266 | 0.9866759936440699930 | 0.999999999998722577 | 0.0365968656 |  |
| alt\_cat1 | sq\_self\_hep\_c | sq\_self\_hep\_cUnknown/Not Reported | -0.778466945334304716297 | 0.3906013754 | 0.0462618944506711163 | 0.325196574831685459 | 0.0200437352 |  |
| alt\_cat1 | sq\_self\_hep\_c | sq\_self\_hep\_cYes | -1.194403352979448440507 | 1.0456607375 | 0.2533511609738754999 | 0.663538754931578656 | 0.0200437352 |  |
| alt\_cat1 | supp\_meds\_tylenol | supp\_meds\_tylenolUnknown/Not Reported | 14.784565434205914513655 | 979.6100399033 | 0.9879585465560428714 | 0.999999999998722577 | 0.0097532033 |  |
| alt\_cat1 | supp\_meds\_tylenol | supp\_meds\_tylenolYes | -0.000000019197709004373 | 1,696.7343417548 | 0.9999999999909723325 | 0.999999999998722577 | 0.0097532033 |  |
| alt\_cat1 | supp\_meds\_steroids | supp\_meds\_steroidsUnknown/Not Reported | 14.781134914209376418626 | 906.9426658914 | 0.9869968436760537811 | 0.999999999998722577 | 0.0086558136 |  |
| alt\_cat1 | supp\_meds\_steroids | supp\_meds\_steroidsYes | -0.000000004106911744103 | 2,565.2212059756 | 0.9999999999987225774 | 0.999999999998722577 | 0.0086558136 |  |
| alt\_cat1 | sq\_water\_well | sq\_water\_wellUnknown/Not Reported | -0.226773318542274227028 | 0.3545168876 | 0.5223880783346184220 | 0.799493878615806786 | 0.0104071509 |  |
| alt\_cat1 | sq\_water\_well | sq\_water\_wellYes | 0.536366233015758031577 | 0.4078972929 | 0.1885253164440554852 | 0.576049578023502873 | 0.0104071509 |  |
| alt\_cat1 | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredUnknown/Not Reported | -0.395803196000223123097 | 0.4307974185 | 0.3582165528980977842 | 0.717468442779695348 | 0.0042513118 |  |
| alt\_cat1 | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredYes | -0.038318864302135616229 | 0.3848945265 | 0.9206961983466598332 | 0.999999999998722577 | 0.0042513118 |  |
| alt\_cat1 | sq\_water\_house\_filtration | sq\_water\_house\_filtrationUnknown/Not Reported | -0.564494472666662305826 | 0.3359615225 | 0.0929115072093460864 | 0.452945336795203435 | 0.0179219253 |  |
| alt\_cat1 | sq\_water\_house\_filtration | sq\_water\_house\_filtrationYes | -1.176573830039859380747 | 0.7558657994 | 0.1195676440987912120 | 0.452945336795203435 | 0.0179219253 |  |
| alt\_cat1 | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterUnknown/Not Reported | -0.275649045983580032182 | 0.3851966286 | 0.4742346238671067971 | 0.767144244490908012 | 0.0094710048 |  |
| alt\_cat1 | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterYes | 0.351149655484573663955 | 0.3694201022 | 0.3418364661544883165 | 0.717468442779695348 | 0.0094710048 |  |
| alt\_cat1 | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterUnknown/Not Reported | -0.634419735967569731194 | 0.3486561617 | 0.0688177631423881470 | 0.420552996981260863 | 0.0129747807 |  |
| alt\_cat1 | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterYes | -0.461886194561395013736 | 0.4809744165 | 0.3368974898372381066 | 0.717468442779695348 | 0.0129747807 |  |
| alt\_cat1 | sq\_water\_bottled | sq\_water\_bottledUnknown/Not Reported | 0.003081666528221338464 | 0.4499101357 | 0.9945349199251865002 | 0.999999999998722577 | 0.0045315654 |  |
| alt\_cat1 | sq\_water\_bottled | sq\_water\_bottledYes | 0.351851430862919478670 | 0.4175741123 | 0.3994475234643107275 | 0.732320459684569602 | 0.0045315654 |  |
| alt\_cat1 | sq\_water\_none | sq\_water\_noneUnknown/Not Reported | -0.535366732682104440322 | 0.3334379656 | 0.1083626594687158162 | 0.452945336795203435 | 0.0124914317 |  |
| alt\_cat1 | sq\_water\_none | sq\_water\_noneYes | -1.054160526072935866182 | 1.0525853045 | 0.3165868186590063971 | 0.717468442779695348 | 0.0124914317 |  |
| alt\_cat1 | sq\_water\_other\_type | sq\_water\_other\_typeUnknown/Not Reported | -0.487036755187071901396 | 0.3455664808 | 0.1587208946691157918 | 0.513508776870668759 | 0.0088908279 |  |
| alt\_cat1 | sq\_water\_other\_type | sq\_water\_other\_typeYes | 0.179793110440607556422 | 0.5339634462 | 0.7363323072326153351 | 0.987762851165703504 | 0.0088908279 |  |
| alt\_cat1 | source | sourceDUKE | -0.225169894459436165102 | 0.3795801668 | 0.5530421306426100969 | 0.800455715403777801 | 0.0747085934 |  |
| alt\_cat1 | source | sourceNCSU | -1.675161075970776014543 | 0.4195293717 | 0.0000652554984092035 | 0.003589052412506193 | 0.0747085934 | \* |
| alt\_cat1 | source | sourceUNC | -0.424441009567171012584 | 0.6889374885 | 0.5378413365233609689 | 0.799493878615806786 | 0.0747085934 |  |
| alt\_cat2 | age\_at\_enrollment | age\_at\_enrollment | -0.039637698075085388283 | 0.0213090412 | 0.0628663971276891553 | 0.432206480252862957 | 0.0191747456 |  |
| alt\_cat2 | bmi | bmi | 0.030015359275567334713 | 0.0269864590 | 0.2660359279289681300 | 0.636172871134488949 | 0.0066918188 |  |
| alt\_cat2 | trig\_mg\_d\_l | trig\_mg\_d\_l | 0.004192856265105312716 | 0.0020253225 | 0.0384320673281992112 | 0.403586780902119802 | 0.0196909859 |  |
| alt\_cat2 | sex | sexMale | 0.063591102781202585303 | 0.4115649570 | 0.8772072414690917919 | 0.999999999995313527 | 0.0001218133 |  |
| alt\_cat2 | race\_eth\_label | race\_eth\_labelNHB | -1.934860312866998333092 | 0.8687348478 | 0.0259328289896134136 | 0.403586780902119802 | 0.0334958008 |  |
| alt\_cat2 | race\_eth\_label | race\_eth\_labelNHO | -1.098612288668103342815 | 1.2194996872 | 0.3676567435962718178 | 0.808844835911798010 | 0.0334958008 |  |
| alt\_cat2 | race\_eth\_label | race\_eth\_labelNHW | -0.869037847023603982066 | 0.6864315770 | 0.2055050134680481699 | 0.574246681002786197 | 0.0334958008 |  |
| alt\_cat2 | race\_eth\_label | race\_eth\_labelUnknown/Not Reported | -0.379489621704902135857 | 0.8923123458 | 0.6706268311358666301 | 0.999999999995313527 | 0.0334958008 |  |
| alt\_cat2 | race\_final\_label | race\_final\_labelAmerican Indian | 2.132363943134173212002 | 1.4313046147 | 0.1362756682877917513 | 0.499677450388569755 | 0.0754863394 |  |
| alt\_cat2 | race\_final\_label | race\_final\_labelAmerican Indian/Alaskan Native | -16.433704566733137397705 | 3,765.8471594257 | 0.9965181386873390723 | 0.999999999995313527 | 0.0754863394 |  |
| alt\_cat2 | race\_final\_label | race\_final\_labelAsian | 1.439216762574229369065 | 1.2444407981 | 0.2474698078957768832 | 0.636172871134488949 | 0.0754863394 |  |
| alt\_cat2 | race\_final\_label | race\_final\_labelAsian/Pacific Islander | -16.433704566748637887486 | 2,662.8560679096 | 0.9950759201463156289 | 0.999999999995313527 | 0.0754863394 |  |
| alt\_cat2 | race\_final\_label | race\_final\_labelBlack | -1.343734746701098714539 | 0.6263190175 | 0.0319170622565796980 | 0.403586780902119802 | 0.0754863394 |  |
| alt\_cat2 | race\_final\_label | race\_final\_labelMore than one race | -16.433704566719676165576 | 6,522.6386061632 | 0.9979897421779737599 | 0.999999999995313527 | 0.0754863394 |  |
| alt\_cat2 | race\_final\_label | race\_final\_labelOther | -16.433704566729861795693 | 1,966.6495475926 | 0.9933327996475560528 | 0.999999999995313527 | 0.0754863394 |  |
| alt\_cat2 | race\_final\_label | race\_final\_labelUnknown/Not Reported | -16.433704566733613461338 | 2,662.8560678977 | 0.9950759201462980874 | 0.999999999995313527 | 0.0754863394 |  |
| alt\_cat2 | ethnicity | ethnicityNot Hispanic | -1.109047165954573088698 | 0.6776215793 | 0.1016981276595671085 | 0.468632213164758449 | 0.0156579527 |  |
| alt\_cat2 | ethnicity | ethnicityUnknown/Not Reported | -0.379489621704898472121 | 0.8923123458 | 0.6706268311358209999 | 0.999999999995313527 | 0.0156579527 |  |
| alt\_cat2 | rural | ruralLiving in rural area | 0.902867711540602968512 | 0.5398888514 | 0.0944609503677323187 | 0.468632213164758449 | 0.0153113724 |  |
| alt\_cat2 | rural | ruralUnknown/Not Reported | -0.405465104222659467048 | 0.7605675381 | 0.5939583982066364287 | 0.999999999995313527 | 0.0153113724 |  |
| alt\_cat2 | smoking | smokingSmoke or use vape | -0.024938948347251486959 | 0.6484486296 | 0.9693213977864847397 | 0.999999999995313527 | 0.0166470401 |  |
| alt\_cat2 | smoking | smokingUnknown/Not Reported | -0.913255712004269804005 | 0.5596315492 | 0.1027031944351676357 | 0.468632213164758449 | 0.0166470401 |  |
| alt\_cat2 | sq\_drink\_alcohol | sq\_drink\_alcoholNo, former drinker (stopped) | 0.075223421237585616494 | 0.5619893469 | 0.8935195744536557072 | 0.999999999995313527 | 0.0167343203 |  |
| alt\_cat2 | sq\_drink\_alcohol | sq\_drink\_alcoholUnknown/Not Reported | -0.868803949433448408080 | 0.6464269532 | 0.1789453232866046184 | 0.556426603374967077 | 0.0167343203 |  |
| alt\_cat2 | sq\_drink\_alcohol | sq\_drink\_alcoholYes, current drinker | 0.047486666265983350221 | 0.5176757485 | 0.9269121471397766543 | 0.999999999995313527 | 0.0167343203 |  |
| alt\_cat2 | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day1-2 alcoholic drinks per day | -15.221519194264212515577 | 932.4807297930 | 0.9869761643053713840 | 0.999999999995313527 | 0.0540771624 |  |
| alt\_cat2 | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day3-4 alcoholic drinks per day | 2.344549292093085046673 | 0.9073160638 | 0.0097647881353276587 | 0.268531673721510600 | 0.0540771624 |  |
| alt\_cat2 | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayUnknown/Not Reported | -0.190028967492161110497 | 0.4653134587 | 0.6829879984609642518 | 0.999999999995313527 | 0.0540771624 |  |
| alt\_cat2 | sq\_self\_hep\_b | sq\_self\_hep\_bUnknown/Not Reported | -1.093674007027523042979 | 0.5536187905 | 0.0482114168985721195 | 0.403586780902119802 | 0.0398287675 |  |
| alt\_cat2 | sq\_self\_hep\_b | sq\_self\_hep\_bYes | -15.430916337664656978745 | 959.5146928920 | 0.9871689727083274857 | 0.999999999995313527 | 0.0398287675 |  |
| alt\_cat2 | sq\_self\_hep\_c | sq\_self\_hep\_cUnknown/Not Reported | -1.078809661371938455332 | 0.5536863981 | 0.0513655902966334288 | 0.403586780902119802 | 0.0390855330 |  |
| alt\_cat2 | sq\_self\_hep\_c | sq\_self\_hep\_cYes | -15.426002322869427629826 | 959.5146928803 | 0.9871730584295654864 | 0.999999999995313527 | 0.0390855330 |  |
| alt\_cat2 | supp\_meds\_tylenol | supp\_meds\_tylenolUnknown/Not Reported | 15.155269754569285822754 | 1,615.1038609443 | 0.9925131884112652347 | 0.999999999995313527 | 0.0078266263 |  |
| alt\_cat2 | supp\_meds\_tylenol | supp\_meds\_tylenolYes | -0.000000054132891136543 | 2,797.4419336078 | 0.9999999999845602394 | 0.999999999995313527 | 0.0078266263 |  |
| alt\_cat2 | supp\_meds\_steroids | supp\_meds\_steroidsUnknown/Not Reported | 14.152069757207858202719 | 906.9426777446 | 0.9875501947138523029 | 0.999999999995313527 | 0.0069463848 |  |
| alt\_cat2 | supp\_meds\_steroids | supp\_meds\_steroidsYes | 0.000000015067030440910 | 2,565.2212072417 | 0.9999999999953135266 | 0.999999999995313527 | 0.0069463848 |  |
| alt\_cat2 | sq\_water\_well | sq\_water\_wellUnknown/Not Reported | -0.275351459811247811782 | 0.4653182558 | 0.5540188989757101057 | 0.999999999995313527 | 0.0135439777 |  |
| alt\_cat2 | sq\_water\_well | sq\_water\_wellYes | 0.627209079067505892446 | 0.4990424514 | 0.2088169749101040917 | 0.574246681002786197 | 0.0135439777 |  |
| alt\_cat2 | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredUnknown/Not Reported | -0.288701960152827230566 | 0.5770449246 | 0.6168560648292724657 | 0.999999999995313527 | 0.0058951753 |  |
| alt\_cat2 | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredYes | 0.208958916321907217650 | 0.5046396332 | 0.6788188034285229655 | 0.999999999995313527 | 0.0058951753 |  |
| alt\_cat2 | sq\_water\_house\_filtration | sq\_water\_house\_filtrationUnknown/Not Reported | -0.700929321002004557251 | 0.4347435313 | 0.1069005129183606961 | 0.468632213164758449 | 0.0431851951 |  |
| alt\_cat2 | sq\_water\_house\_filtration | sq\_water\_house\_filtrationYes | -16.486626968177940710802 | 1,153.0505211490 | 0.9885920203201172818 | 0.999999999995313527 | 0.0431851951 |  |
| alt\_cat2 | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterUnknown/Not Reported | -0.177375132746212388346 | 0.5031355249 | 0.7244337210113620529 | 0.999999999995313527 | 0.0102874640 |  |
| alt\_cat2 | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterYes | 0.482521847600486109009 | 0.4716140196 | 0.3062469900202708373 | 0.701816018796453944 | 0.0102874640 |  |
| alt\_cat2 | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterUnknown/Not Reported | -0.686226737385032037331 | 0.4418839220 | 0.1204334037723204243 | 0.473131229105544504 | 0.0208718645 |  |
| alt\_cat2 | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterYes | -1.091691694301099468944 | 0.7635512312 | 0.1527871591851906463 | 0.525205859699092836 | 0.0208718645 |  |
| alt\_cat2 | sq\_water\_bottled | sq\_water\_bottledUnknown/Not Reported | -0.237742350693530890560 | 0.5613082604 | 0.6718937185935978107 | 0.999999999995313527 | 0.0035293487 |  |
| alt\_cat2 | sq\_water\_bottled | sq\_water\_bottledYes | 0.139551880405942074770 | 0.5099484258 | 0.7843468329982392628 | 0.999999999995313527 | 0.0035293487 |  |
| alt\_cat2 | sq\_water\_none | sq\_water\_noneUnknown/Not Reported | -0.583013385575667841820 | 0.4369409506 | 0.1821032520136255939 | 0.556426603374967077 | 0.0098955338 |  |
| alt\_cat2 | sq\_water\_none | sq\_water\_noneYes | -0.418710334833850172931 | 1.0629052056 | 0.6936326601694805527 | 0.999999999995313527 | 0.0098955338 |  |
| alt\_cat2 | sq\_water\_other\_type | sq\_water\_other\_typeUnknown/Not Reported | -0.523371179982396017571 | 0.4680110377 | 0.2634439622820585192 | 0.636172871134488949 | 0.0241089595 |  |
| alt\_cat2 | sq\_water\_other\_type | sq\_water\_other\_typeYes | 0.893301213649423497820 | 0.5601504100 | 0.1107676140207610876 | 0.468632213164758449 | 0.0241089595 |  |
| alt\_cat2 | source | sourceDUKE | -0.403754243704545656701 | 0.4727871508 | 0.3931120012377949391 | 0.831583079541489356 | 0.0717079376 |  |
| alt\_cat2 | source | sourceNCSU | -1.825045446845220631360 | 0.5519684662 | 0.0009449274236581690 | 0.051971008301199294 | 0.0717079376 |  |
| alt\_cat2 | source | sourceUNC | -0.325422400434626946097 | 0.8157111102 | 0.6899350570917051062 | 0.999999999995313527 | 0.0717079376 |  |
| ast\_cat1 | age\_at\_enrollment | age\_at\_enrollment | 0.005268246471325298969 | 0.0118245751 | 0.6559341254462054405 | 0.913583551732535026 | 0.0004516118 |  |
| ast\_cat1 | bmi | bmi | -0.014535779609609108393 | 0.0163297636 | 0.3733905901398201777 | 0.734628616556389891 | 0.0019374413 |  |
| ast\_cat1 | trig\_mg\_d\_l | trig\_mg\_d\_l | 0.005305204138841340331 | 0.0016769522 | 0.0015583141382626796 | 0.028569092534815790 | 0.0253291527 | \* |
| ast\_cat1 | sex | sexMale | -0.451200502282345261573 | 0.2318695376 | 0.0516638674140691770 | 0.364534346776365203 | 0.0082430317 |  |
| ast\_cat1 | race\_eth\_label | race\_eth\_labelNHB | -1.292768303106116345447 | 0.6137997443 | 0.0351893481879591713 | 0.364534346776365203 | 0.0575800323 |  |
| ast\_cat1 | race\_eth\_label | race\_eth\_labelNHO | -1.386294361116948481438 | 0.7905690517 | 0.0795093801193012817 | 0.437301590656157035 | 0.0575800323 |  |
| ast\_cat1 | race\_eth\_label | race\_eth\_labelNHW | -0.076961041136060961976 | 0.5987636452 | 0.8977269816827178062 | 0.992019296509373927 | 0.0575800323 |  |
| ast\_cat1 | race\_eth\_label | race\_eth\_labelUnknown/Not Reported | -0.916290731871206909354 | 0.7187948890 | 0.2023943212504651090 | 0.727284343740614125 | 0.0575800323 |  |
| ast\_cat1 | race\_final\_label | race\_final\_labelAmerican Indian | 14.557607056981877846624 | 1,029.1214758534 | 0.9887137691442881016 | 0.992019296509373927 | 0.0648385703 |  |
| ast\_cat1 | race\_final\_label | race\_final\_labelAmerican Indian/Alaskan Native | -1.701608372233768040616 | 1.2343138529 | 0.1680222917714000452 | 0.710863542109782864 | 0.0648385703 |  |
| ast\_cat1 | race\_final\_label | race\_final\_labelAsian | -1.701608372233752275449 | 1.2343138529 | 0.1680222917714032094 | 0.710863542109782864 | 0.0648385703 |  |
| ast\_cat1 | race\_final\_label | race\_final\_labelAsian/Pacific Islander | -1.008461191673823531545 | 0.8307811710 | 0.2247969789743716473 | 0.727284343740614125 | 0.0648385703 |  |
| ast\_cat1 | race\_final\_label | race\_final\_labelBlack | -1.168803841748986993565 | 0.2525635295 | 0.0000036963889708619 | 0.000203301393397402 | 0.0648385703 | \* |
| ast\_cat1 | race\_final\_label | race\_final\_labelMore than one race | 14.557607057021717977818 | 1,455.3975404289 | 0.9920192965093739268 | 0.992019296509373927 | 0.0648385703 |  |
| ast\_cat1 | race\_final\_label | race\_final\_labelOther | -0.448845403738391435233 | 0.6452812025 | 0.4866912105434008651 | 0.836500518121470193 | 0.0648385703 |  |
| ast\_cat1 | race\_final\_label | race\_final\_labelUnknown/Not Reported | -1.701608372233766264259 | 0.8795059337 | 0.0530231777129258480 | 0.364534346776365203 | 0.0648385703 |  |
| ast\_cat1 | ethnicity | ethnicityNot Hispanic | -0.537733076682945676517 | 0.5892646437 | 0.3614795951696253562 | 0.734628616556389891 | 0.0037344593 |  |
| ast\_cat1 | ethnicity | ethnicityUnknown/Not Reported | -0.916290731871174712886 | 0.7187948890 | 0.2023943212504796529 | 0.727284343740614125 | 0.0037344593 |  |
| ast\_cat1 | rural | ruralLiving in rural area | 1.406438927209557654407 | 0.5509393476 | 0.0106860303081929373 | 0.146932916737652880 | 0.0189979774 |  |
| ast\_cat1 | rural | ruralUnknown/Not Reported | 0.004640379556507700197 | 0.3512926732 | 0.9894606981137252788 | 0.992019296509373927 | 0.0189979774 |  |
| ast\_cat1 | smoking | smokingSmoke or use vape | 0.405465108106020821754 | 0.4173502296 | 0.3312881905322526133 | 0.734628616556389891 | 0.0023903182 |  |
| ast\_cat1 | smoking | smokingUnknown/Not Reported | -0.032848578955672697033 | 0.2510229510 | 0.8958869542076433046 | 0.992019296509373927 | 0.0023903182 |  |
| ast\_cat1 | sq\_drink\_alcohol | sq\_drink\_alcoholNo, former drinker (stopped) | 0.352878272005646365095 | 0.3610038165 | 0.3283257331925187872 | 0.734628616556389891 | 0.0115681511 |  |
| ast\_cat1 | sq\_drink\_alcohol | sq\_drink\_alcoholUnknown/Not Reported | -0.153970515877471431088 | 0.3191895841 | 0.6295363725422317147 | 0.913583551732535026 | 0.0115681511 |  |
| ast\_cat1 | sq\_drink\_alcohol | sq\_drink\_alcoholYes, current drinker | -0.383051513271153221130 | 0.3124626342 | 0.2202320087797392523 | 0.727284343740614125 | 0.0115681511 |  |
| ast\_cat1 | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day1-2 alcoholic drinks per day | -0.302280871872938061706 | 0.5228509513 | 0.5631698319792279861 | 0.911010022319339363 | 0.0078398125 |  |
| ast\_cat1 | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day3-4 alcoholic drinks per day | 0.390866308686806274153 | 0.8950701758 | 0.6623377110904945519 | 0.913583551732535026 | 0.0078398125 |  |
| ast\_cat1 | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayUnknown/Not Reported | 0.384750081669391785777 | 0.2635924505 | 0.1443890426943157113 | 0.710863542109782864 | 0.0078398125 |  |
| ast\_cat1 | sq\_self\_hep\_b | sq\_self\_hep\_bUnknown/Not Reported | -0.022051007371304737897 | 0.2458376486 | 0.9285276514885357768 | 0.992019296509373927 | 0.0018793692 |  |
| ast\_cat1 | sq\_self\_hep\_b | sq\_self\_hep\_bYes | -0.471374431379474712056 | 0.5052782427 | 0.3508712356999734161 | 0.734628616556389891 | 0.0018793692 |  |
| ast\_cat1 | sq\_self\_hep\_c | sq\_self\_hep\_cUnknown/Not Reported | -0.145182009844444959157 | 0.2447074824 | 0.5529884363813608594 | 0.911010022319339363 | 0.0011465345 |  |
| ast\_cat1 | sq\_self\_hep\_c | sq\_self\_hep\_cYes | -0.258510695151438152362 | 0.5119705998 | 0.6136061087582789231 | 0.913583551732535026 | 0.0011465345 |  |
| ast\_cat1 | supp\_meds\_tylenol | supp\_meds\_tylenolUnknown/Not Reported | -0.125434182391773063614 | 0.8733487845 | 0.8857970835550141864 | 0.992019296509373927 | 0.0025357981 |  |
| ast\_cat1 | supp\_meds\_tylenol | supp\_meds\_tylenolYes | -1.386294361119544404914 | 1.4999997246 | 0.3553840641974855274 | 0.734628616556389891 | 0.0025357981 |  |
| ast\_cat1 | supp\_meds\_steroids | supp\_meds\_steroidsUnknown/Not Reported | -0.356674943938690480749 | 0.8441995090 | 0.6726595376456181441 | 0.913583551732535026 | 0.0048370684 |  |
| ast\_cat1 | supp\_meds\_steroids | supp\_meds\_steroidsYes | -14.482357225249574028680 | 535.4118221578 | 0.9784206477206719432 | 0.992019296509373927 | 0.0048370684 |  |
| ast\_cat1 | sq\_water\_well | sq\_water\_wellUnknown/Not Reported | -0.003466207976487810545 | 0.2395463255 | 0.9884551043901880218 | 0.992019296509373927 | 0.0098684767 |  |
| ast\_cat1 | sq\_water\_well | sq\_water\_wellYes | 0.712565266414708409215 | 0.3666102949 | 0.0519366296097577354 | 0.364534346776365203 | 0.0098684767 |  |
| ast\_cat1 | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredUnknown/Not Reported | -0.280713403135118721998 | 0.3122716071 | 0.3686846807398427295 | 0.734628616556389891 | 0.0021631830 |  |
| ast\_cat1 | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredYes | -0.265759853468061579829 | 0.2967332629 | 0.3704564550099788134 | 0.734628616556389891 | 0.0021631830 |  |
| ast\_cat1 | sq\_water\_house\_filtration | sq\_water\_house\_filtrationUnknown/Not Reported | -0.189182647173841311794 | 0.2344924957 | 0.4197962135506001502 | 0.796165232595965833 | 0.0023177135 |  |
| ast\_cat1 | sq\_water\_house\_filtration | sq\_water\_house\_filtrationYes | 0.169418151957440060729 | 0.4121582975 | 0.6810350112915261045 | 0.913583551732535026 | 0.0023177135 |  |
| ast\_cat1 | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterUnknown/Not Reported | -0.199354689350078884136 | 0.2623231214 | 0.4472793837462535338 | 0.801571590485683605 | 0.0012764581 |  |
| ast\_cat1 | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterYes | -0.084993212833300940678 | 0.2843512769 | 0.7650146936737292069 | 0.992019296509373927 | 0.0012764581 |  |
| ast\_cat1 | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterUnknown/Not Reported | -0.229741943026681105788 | 0.2406586182 | 0.3397606230648287928 | 0.734628616556389891 | 0.0023090277 |  |
| ast\_cat1 | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterYes | 0.015817073683472508694 | 0.3410710551 | 0.9630115876787210816 | 0.992019296509373927 | 0.0023090277 |  |
| ast\_cat1 | sq\_water\_bottled | sq\_water\_bottledUnknown/Not Reported | -0.015851147737615558370 | 0.3031301746 | 0.9582963834513704704 | 0.992019296509373927 | 0.0012159396 |  |
| ast\_cat1 | sq\_water\_bottled | sq\_water\_bottledYes | 0.157489581092668889939 | 0.2944217639 | 0.5927110704381226558 | 0.913583551732535026 | 0.0012159396 |  |
| ast\_cat1 | sq\_water\_none | sq\_water\_noneUnknown/Not Reported | -0.204176395809693045358 | 0.2296647712 | 0.3739927502468894382 | 0.734628616556389891 | 0.0018647246 |  |
| ast\_cat1 | sq\_water\_none | sq\_water\_noneYes | 0.053652713492205766910 | 0.5681542690 | 0.9247649211333819341 | 0.992019296509373927 | 0.0018647246 |  |
| ast\_cat1 | sq\_water\_other\_type | sq\_water\_other\_typeUnknown/Not Reported | -0.174941449496309575640 | 0.2325031857 | 0.4517948964555671409 | 0.801571590485683605 | 0.0109594292 |  |
| ast\_cat1 | sq\_water\_other\_type | sq\_water\_other\_typeYes | 0.913620503318287147110 | 0.5181638040 | 0.0778686887270715611 | 0.437301590656157035 | 0.0109594292 |  |
| ast\_cat1 | source | sourceDUKE | 0.436236766777397866335 | 0.3783220563 | 0.2488762805396547984 | 0.734628616556389891 | 0.0569731749 |  |
| ast\_cat1 | source | sourceNCSU | -0.946143695021259834022 | 0.2976649668 | 0.0014801246099647857 | 0.028569092534815790 | 0.0569731749 | \* |
| ast\_cat1 | source | sourceUNC | -0.105360515656705927556 | 0.5906006373 | 0.8584123569655268682 | 0.992019296509373927 | 0.0569731749 |  |
| ast\_cat2 | age\_at\_enrollment | age\_at\_enrollment | -0.013842803235885601729 | 0.0114476941 | 0.2265775804757467204 | 0.731734590779297700 | 0.0031670922 |  |
| ast\_cat2 | bmi | bmi | 0.014221759789009776401 | 0.0159134177 | 0.3714844964375579317 | 0.839795186743449995 | 0.0018704250 |  |
| ast\_cat2 | trig\_mg\_d\_l | trig\_mg\_d\_l | 0.004958760342932038226 | 0.0014739073 | 0.0007672031800260050 | 0.010549043725357568 | 0.0257399826 | \* |
| ast\_cat2 | sex | sexMale | 0.064500835744300988317 | 0.2256388462 | 0.7749863181055116623 | 0.991261569669840581 | 0.0001692257 |  |
| ast\_cat2 | race\_eth\_label | race\_eth\_labelNHB | -0.993251773009863780928 | 0.5506129105 | 0.0712466592749316924 | 0.489820782515155373 | 0.0339238789 |  |
| ast\_cat2 | race\_eth\_label | race\_eth\_labelNHO | -0.839101093182969326456 | 0.7517175812 | 0.2643172192187706604 | 0.731734590779297700 | 0.0339238789 |  |
| ast\_cat2 | race\_eth\_label | race\_eth\_labelNHW | -0.034786116085395314690 | 0.5232655372 | 0.9469965577810811608 | 0.999999999999999667 | 0.0339238789 |  |
| ast\_cat2 | race\_eth\_label | race\_eth\_labelUnknown/Not Reported | -0.810930216216288912712 | 0.6711160894 | 0.2269200600921658928 | 0.731734590779297700 | 0.0339238789 |  |
| ast\_cat2 | race\_final\_label | race\_final\_labelAmerican Indian | 15.315924095612087896257 | 1,029.1214735701 | 0.9881259029314420905 | 0.999999999999999667 | 0.0596588424 |  |
| ast\_cat2 | race\_final\_label | race\_final\_labelAmerican Indian/Alaskan Native | -15.816212401922113528485 | 840.2741682587 | 0.9849825604141478896 | 0.999999999999999667 | 0.0596588424 |  |
| ast\_cat2 | race\_final\_label | race\_final\_labelAsian | -0.943291333692658051646 | 1.2323648149 | 0.4440144074273940644 | 0.839795186743449995 | 0.0596588424 |  |
| ast\_cat2 | race\_final\_label | race\_final\_labelAsian/Pacific Islander | -0.250144153132713098486 | 0.8278826630 | 0.7625382645313615315 | 0.991261569669840581 | 0.0596588424 |  |
| ast\_cat2 | race\_final\_label | race\_final\_labelBlack | -1.050263453244830946787 | 0.2558785947 | 0.0000405123419991153 | 0.001114089404975672 | 0.0596588424 | \* |
| ast\_cat2 | race\_final\_label | race\_final\_labelMore than one race | -15.816212401919537811068 | 1,455.3975388529 | 0.9913293358247347031 | 0.999999999999999667 | 0.0596588424 |  |
| ast\_cat2 | race\_final\_label | race\_final\_labelOther | -0.432465709926674324315 | 0.6207976351 | 0.4860349274731989855 | 0.839795186743449995 | 0.0596588424 |  |
| ast\_cat2 | race\_final\_label | race\_final\_labelUnknown/Not Reported | -1.859582065566813824375 | 1.1039578964 | 0.0920912035190294131 | 0.562779577060735225 | 0.0596588424 |  |
| ast\_cat2 | ethnicity | ethnicityNot Hispanic | -0.347852355323562123512 | 0.5165849204 | 0.5007124619505005647 | 0.839795186743449995 | 0.0033074793 |  |
| ast\_cat2 | ethnicity | ethnicityUnknown/Not Reported | -0.810930216216315558064 | 0.6711160894 | 0.2269200600921512379 | 0.731734590779297700 | 0.0033074793 |  |
| ast\_cat2 | rural | ruralLiving in rural area | 1.941014178443090099080 | 0.5046602597 | 0.0001199736593202109 | 0.002199517087537200 | 0.0463460208 | \* |
| ast\_cat2 | rural | ruralUnknown/Not Reported | 0.694481759698375444856 | 0.3473618260 | 0.0455755116599626184 | 0.358093305899706282 | 0.0463460208 |  |
| ast\_cat2 | smoking | smokingSmoke or use vape | 0.820580472048383802175 | 0.3961457631 | 0.0383204554778164355 | 0.351270841879983975 | 0.0099749548 |  |
| ast\_cat2 | smoking | smokingUnknown/Not Reported | -0.030841105522573845910 | 0.2442317600 | 0.8995118465260328877 | 0.999999999999999667 | 0.0099749548 |  |
| ast\_cat2 | sq\_drink\_alcohol | sq\_drink\_alcoholNo, former drinker (stopped) | 0.254892249628795253269 | 0.3314960685 | 0.4419438614662355436 | 0.839795186743449995 | 0.0088287060 |  |
| ast\_cat2 | sq\_drink\_alcohol | sq\_drink\_alcoholUnknown/Not Reported | -0.204794412646007506495 | 0.3063941419 | 0.5038771120460699970 | 0.839795186743449995 | 0.0088287060 |  |
| ast\_cat2 | sq\_drink\_alcohol | sq\_drink\_alcoholYes, current drinker | -0.349673748479746637763 | 0.3037776084 | 0.2496974036272552044 | 0.731734590779297700 | 0.0088287060 |  |
| ast\_cat2 | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day1-2 alcoholic drinks per day | -0.653230573152163596085 | 0.5727770709 | 0.2540938105121899881 | 0.731734590779297700 | 0.0106436718 |  |
| ast\_cat2 | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day3-4 alcoholic drinks per day | 0.995428052432680510186 | 0.8950701758 | 0.2660853057379264364 | 0.731734590779297700 | 0.0106436718 |  |
| ast\_cat2 | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayUnknown/Not Reported | 0.294117561233769753137 | 0.2597646968 | 0.2575309895323684706 | 0.731734590779297700 | 0.0106436718 |  |
| ast\_cat2 | sq\_self\_hep\_b | sq\_self\_hep\_bUnknown/Not Reported | -0.054194650356505467970 | 0.2364616464 | 0.8187212261005104574 | 0.992934097320640197 | 0.0006653804 |  |
| ast\_cat2 | sq\_self\_hep\_b | sq\_self\_hep\_bYes | -0.277338177185268652813 | 0.5103757843 | 0.5868544580748461525 | 0.922199862689043970 | 0.0006653804 |  |
| ast\_cat2 | sq\_self\_hep\_c | sq\_self\_hep\_cUnknown/Not Reported | -0.105128054836923209847 | 0.2374821643 | 0.6579988850581506288 | 0.981313178845591882 | 0.0008818162 |  |
| ast\_cat2 | sq\_self\_hep\_c | sq\_self\_hep\_cYes | 0.205558646523452209776 | 0.5036749738 | 0.6831873028345176735 | 0.981313178845591882 | 0.0008818162 |  |
| ast\_cat2 | supp\_meds\_tylenol | supp\_meds\_tylenolUnknown/Not Reported | 0.598959965500006075168 | 0.8728061306 | 0.4925578144945413905 | 0.839795186743449995 | 0.0015280567 |  |
| ast\_cat2 | supp\_meds\_tylenol | supp\_meds\_tylenolYes | -0.000000000000042299489 | 1.4999997246 | 0.9999999999999774625 | 0.999999999999999667 | 0.0015280567 |  |
| ast\_cat2 | supp\_meds\_steroids | supp\_meds\_steroidsUnknown/Not Reported | 0.187892601843360762537 | 0.7714225593 | 0.8075666674378964016 | 0.992934097320640197 | 0.0027809706 |  |
| ast\_cat2 | supp\_meds\_steroids | supp\_meds\_steroidsYes | -13.278384420922492381578 | 535.4117132071 | 0.9802142319390547698 | 0.999999999999999667 | 0.0027809706 |  |
| ast\_cat2 | sq\_water\_well | sq\_water\_wellUnknown/Not Reported | -0.050250689677208922046 | 0.2346854004 | 0.8304539723045354371 | 0.992934097320640197 | 0.0120228589 |  |
| ast\_cat2 | sq\_water\_well | sq\_water\_wellYes | 0.714668316613816689831 | 0.3289436395 | 0.0298092071898588343 | 0.327901279088447184 | 0.0120228589 |  |
| ast\_cat2 | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredUnknown/Not Reported | -0.347922150896313453483 | 0.2962590741 | 0.2402409342110063128 | 0.731734590779297700 | 0.0028702732 |  |
| ast\_cat2 | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredYes | -0.220136030232662704975 | 0.2798917864 | 0.4315722333702312064 | 0.839795186743449995 | 0.0028702732 |  |
| ast\_cat2 | sq\_water\_house\_filtration | sq\_water\_house\_filtrationUnknown/Not Reported | -0.279171377847728219290 | 0.2280148816 | 0.2208179775337133777 | 0.731734590779297700 | 0.0033320508 |  |
| ast\_cat2 | sq\_water\_house\_filtration | sq\_water\_house\_filtrationYes | 0.000000000000000170395 | 0.3836954811 | 0.9999999999999996669 | 0.999999999999999667 | 0.0033320508 |  |
| ast\_cat2 | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterUnknown/Not Reported | -0.249875370558082871009 | 0.2528925411 | 0.3231186816928000027 | 0.807796704232000007 | 0.0020282842 |  |
| ast\_cat2 | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterYes | -0.119444757101601337079 | 0.2717892889 | 0.6603169680764270355 | 0.981313178845591882 | 0.0020282842 |  |
| ast\_cat2 | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterUnknown/Not Reported | -0.303081947469558132813 | 0.2334168672 | 0.1941300748593208780 | 0.731734590779297700 | 0.0035834448 |  |
| ast\_cat2 | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterYes | -0.197156623083425935894 | 0.3241344564 | 0.5430179129814105554 | 0.878411329822870068 | 0.0035834448 |  |
| ast\_cat2 | sq\_water\_bottled | sq\_water\_bottledUnknown/Not Reported | -0.115684394301602544441 | 0.2959120606 | 0.6958402540905105349 | 0.981313178845591882 | 0.0039656265 |  |
| ast\_cat2 | sq\_water\_bottled | sq\_water\_bottledYes | 0.215162662857548758755 | 0.2841576044 | 0.4489331600266178168 | 0.839795186743449995 | 0.0039656265 |  |
| ast\_cat2 | sq\_water\_none | sq\_water\_noneUnknown/Not Reported | -0.237954698131189440469 | 0.2228713023 | 0.2856659640904469222 | 0.748172763094027693 | 0.0028442327 |  |
| ast\_cat2 | sq\_water\_none | sq\_water\_noneYes | 0.154150679794893996633 | 0.5371008608 | 0.7741084244525904268 | 0.991261569669840581 | 0.0028442327 |  |
| ast\_cat2 | sq\_water\_other\_type | sq\_water\_other\_typeUnknown/Not Reported | -0.167160915843783758339 | 0.2268612827 | 0.4612184531228688544 | 0.839795186743449995 | 0.0011446621 |  |
| ast\_cat2 | sq\_water\_other\_type | sq\_water\_other\_typeYes | -0.031548357734394370799 | 0.4118711572 | 0.9389436381644058471 | 0.999999999999999667 | 0.0011446621 |  |
| ast\_cat2 | source | sourceDUKE | 0.268314133271682964121 | 0.3442334861 | 0.4357123835362920472 | 0.839795186743449995 | 0.1499008180 |  |
| ast\_cat2 | source | sourceNCSU | -1.780063429461771207230 | 0.2983578922 | 0.0000000024283974330 | 0.000000133561858816 | 0.1499008180 | \* |
| ast\_cat2 | source | sourceUNC | 0.201739642649750888781 | 0.5842964881 | 0.7298919201076888852 | 0.991261569669840581 | 0.1499008180 |  |
| log\_alt | age\_at\_enrollment | age\_at\_enrollment | -0.002207931290548020755 | 0.0036360310 | 0.5441077034674113300 | 0.980082796611386753 | 0.0011060916 |  |
| log\_alt | bmi | bmi | -0.002513717277598035219 | 0.0050335132 | 0.6178568410204031691 | 0.980082796611386753 | 0.0008090739 |  |
| log\_alt | trig\_mg\_d\_l | trig\_mg\_d\_l | 0.002136954448727863831 | 0.0004087705 | 0.0000002970207829354 | 0.000008168071530722 | 0.0730091573 | \* |
| log\_alt | sex | sexMale | 0.293565778182391934337 | 0.0695276778 | 0.0000309280151663781 | 0.000567013611383599 | 0.0488660907 | \* |
| log\_alt | race\_eth\_label | race\_eth\_labelNHB | -0.283741388452009801746 | 0.1687843984 | 0.0936535162437608093 | 0.429245282783903670 | 0.0366038264 |  |
| log\_alt | race\_eth\_label | race\_eth\_labelNHO | -0.041355467200318157817 | 0.2282218045 | 0.8563115475075601113 | 0.980082796611386753 | 0.0366038264 |  |
| log\_alt | race\_eth\_label | race\_eth\_labelNHW | -0.010185964299059118224 | 0.1619037031 | 0.9498717488786936336 | 0.980082796611386753 | 0.0366038264 |  |
| log\_alt | race\_eth\_label | race\_eth\_labelUnknown/Not Reported | -0.009292804234793566528 | 0.2048995400 | 0.9638522765534904835 | 0.980082796611386753 | 0.0366038264 |  |
| log\_alt | race\_final\_label | race\_final\_labelAmerican Indian/Alaskan Native | -0.550673499290825207986 | 0.5657006530 | 0.3310285814698524787 | 0.958240630570625584 | 0.0597594782 |  |
| log\_alt | race\_final\_label | race\_final\_labelAsian | 0.313046375452122660477 | 0.5657006530 | 0.5803681989408234765 | 0.980082796611386753 | 0.0597594782 |  |
| log\_alt | race\_final\_label | race\_final\_labelAsian/Pacific Islander | -0.145112590583047318393 | 0.5059780461 | 0.7744430495004118731 | 0.980082796611386753 | 0.0597594782 |  |
| log\_alt | race\_final\_label | race\_final\_labelBlack | -0.563549476546966965351 | 0.4425500470 | 0.2037410371892280359 | 0.792722091812051222 | 0.0597594782 |  |
| log\_alt | race\_final\_label | race\_final\_labelMore than one race | -0.317646193930907372316 | 0.7589670691 | 0.6758280323649045185 | 0.980082796611386753 | 0.0597594782 |  |
| log\_alt | race\_final\_label | race\_final\_labelOther | -0.590217357657354724232 | 0.4763625801 | 0.2161969341305594317 | 0.792722091812051222 | 0.0597594782 |  |
| log\_alt | race\_final\_label | race\_final\_labelUnknown/Not Reported | -0.532130126326661567759 | 0.5059780461 | 0.2936904262919528552 | 0.950174908591612244 | 0.0597594782 |  |
| log\_alt | race\_final\_label | race\_final\_labelWhite | -0.279313749991361714997 | 0.4402045182 | 0.5261753640418487254 | 0.980082796611386753 | 0.0597594782 |  |
| log\_alt | ethnicity | ethnicityNot Hispanic | -0.093391840462538469603 | 0.1622486579 | 0.5652534393178008099 | 0.980082796611386753 | 0.0018946465 |  |
| log\_alt | ethnicity | ethnicityUnknown/Not Reported | -0.009292804234792810189 | 0.2079542925 | 0.9643827630688179831 | 0.980082796611386753 | 0.0018946465 |  |
| log\_alt | rural | ruralLiving in rural area | 0.439547871840265280685 | 0.1188958984 | 0.0002536647774733877 | 0.002790312552207264 | 0.0455946229 | \* |
| log\_alt | rural | ruralUnknown/Not Reported | 0.220437220888875878844 | 0.1057814927 | 0.0379033265578227960 | 0.297811851525750515 | 0.0455946229 |  |
| log\_alt | smoking | smokingSmoke or use vape | 0.042593643465363727196 | 0.1198650741 | 0.7225464915975552405 | 0.980082796611386753 | 0.0004898065 |  |
| log\_alt | smoking | smokingUnknown/Not Reported | 0.021126079837295433372 | 0.0769745892 | 0.7838985836113857575 | 0.980082796611386753 | 0.0004898065 |  |
| log\_alt | sq\_drink\_alcohol | sq\_drink\_alcoholNo, never drinker | -0.032363067662671073099 | 0.1045507093 | 0.7570944532540342387 | 0.980082796611386753 | 0.0031424337 |  |
| log\_alt | sq\_drink\_alcohol | sq\_drink\_alcoholUnknown/Not Reported | -0.033787979216543563565 | 0.0987200637 | 0.7323632611004877724 | 0.980082796611386753 | 0.0031424337 |  |
| log\_alt | sq\_drink\_alcohol | sq\_drink\_alcoholYes, current drinker | -0.095777298935180998907 | 0.0975163567 | 0.3267060818801506006 | 0.958240630570625584 | 0.0031424337 |  |
| log\_alt | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day3-4 alcoholic drinks per day | 1.009809291207313775018 | 0.2935640357 | 0.0006534399785773601 | 0.005989866470292467 | 0.0365199013 | \* |
| log\_alt | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayLess than 1 alcoholic drink per day | 0.178189090513829140328 | 0.1624579236 | 0.2734797163864760572 | 0.940086525078511426 | 0.0365199013 |  |
| log\_alt | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayUnknown/Not Reported | 0.267549711068818085735 | 0.1520784529 | 0.0794150635732502469 | 0.417572310750424558 | 0.0365199013 |  |
| log\_alt | sq\_self\_hep\_b | sq\_self\_hep\_bUnknown/Not Reported | 0.026116634585132490753 | 0.0747540851 | 0.7270260936566672605 | 0.980082796611386753 | 0.0003948772 |  |
| log\_alt | sq\_self\_hep\_b | sq\_self\_hep\_bYes | 0.027306711391137595407 | 0.1592689037 | 0.8639698828957125265 | 0.980082796611386753 | 0.0003948772 |  |
| log\_alt | sq\_self\_hep\_c | sq\_self\_hep\_cUnknown/Not Reported | -0.001862266355244789106 | 0.0745408597 | 0.9800827966113867529 | 0.980082796611386753 | 0.0112182611 |  |
| log\_alt | sq\_self\_hep\_c | sq\_self\_hep\_cYes | -0.310928346810976474757 | 0.1583800978 | 0.0504261478785723652 | 0.308159792591275572 | 0.0112182611 |  |
| log\_alt | supp\_meds\_tylenol | supp\_meds\_tylenolUnknown/Not Reported | 0.199051890540264675433 | 0.2603916998 | 0.4451305330602925991 | 0.980082796611386753 | 0.0039299509 |  |
| log\_alt | supp\_meds\_tylenol | supp\_meds\_tylenolYes | -0.128351370282677068602 | 0.4470840465 | 0.7742186631467440350 | 0.980082796611386753 | 0.0039299509 |  |
| log\_alt | supp\_meds\_steroids | supp\_meds\_steroidsUnknown/Not Reported | 0.199607718895820573923 | 0.2416537365 | 0.4093692181921434470 | 0.980082796611386753 | 0.0019742556 |  |
| log\_alt | supp\_meds\_steroids | supp\_meds\_steroidsYes | 0.166164401400813399601 | 0.6765907807 | 0.8061447006724042907 | 0.980082796611386753 | 0.0019742556 |  |
| log\_alt | sq\_water\_well | sq\_water\_wellUnknown/Not Reported | 0.031794331021595220732 | 0.0735584492 | 0.6658419016806276236 | 0.980082796611386753 | 0.0086832953 |  |
| log\_alt | sq\_water\_well | sq\_water\_wellYes | 0.175275227781433451391 | 0.1009848390 | 0.0835144621500849144 | 0.417572310750424558 | 0.0086832953 |  |
| log\_alt | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredUnknown/Not Reported | 0.034781136884748389826 | 0.0934568701 | 0.7099997432929612273 | 0.980082796611386753 | 0.0007495389 |  |
| log\_alt | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredYes | -0.002692238993044254475 | 0.0884947990 | 0.9757475874813785754 | 0.980082796611386753 | 0.0007495389 |  |
| log\_alt | sq\_water\_house\_filtration | sq\_water\_house\_filtrationUnknown/Not Reported | -0.063383304829863762464 | 0.0713989594 | 0.3753003699958965544 | 0.980082796611386753 | 0.0119040603 |  |
| log\_alt | sq\_water\_house\_filtration | sq\_water\_house\_filtrationYes | -0.242150098986196132822 | 0.1208135028 | 0.0458136722851241948 | 0.308159792591275572 | 0.0119040603 |  |
| log\_alt | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterUnknown/Not Reported | 0.026894860167019651181 | 0.0797826336 | 0.7362446381835190401 | 0.980082796611386753 | 0.0013977116 |  |
| log\_alt | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterYes | 0.059821107807707891990 | 0.0859663378 | 0.4869794800281392888 | 0.980082796611386753 | 0.0013977116 |  |
| log\_alt | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterUnknown/Not Reported | -0.044433081808467667084 | 0.0735163837 | 0.5459758379489678681 | 0.980082796611386753 | 0.0015987062 |  |
| log\_alt | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterYes | -0.062228675890708871898 | 0.1023346704 | 0.5435268149773896385 | 0.980082796611386753 | 0.0015987062 |  |
| log\_alt | sq\_water\_bottled | sq\_water\_bottledUnknown/Not Reported | 0.052163065090516949618 | 0.0931437335 | 0.5758229763777145127 | 0.980082796611386753 | 0.0012439377 |  |
| log\_alt | sq\_water\_bottled | sq\_water\_bottledYes | 0.009158367772328304332 | 0.0897440181 | 0.9187761847154235495 | 0.980082796611386753 | 0.0012439377 |  |
| log\_alt | sq\_water\_none | sq\_water\_noneUnknown/Not Reported | -0.024571004733646099188 | 0.0702387267 | 0.7266856251224946828 | 0.980082796611386753 | 0.0004187553 |  |
| log\_alt | sq\_water\_none | sq\_water\_noneYes | 0.014818283198648621660 | 0.1697441939 | 0.9304853564468625882 | 0.980082796611386753 | 0.0004187553 |  |
| log\_alt | sq\_water\_other\_type | sq\_water\_other\_typeUnknown/Not Reported | -0.008960304389123525601 | 0.0714075422 | 0.9002154810638509641 | 0.980082796611386753 | 0.0060226543 |  |
| log\_alt | sq\_water\_other\_type | sq\_water\_other\_typeYes | 0.178810780552914438957 | 0.1299887886 | 0.1698396461760033893 | 0.718552349206168173 | 0.0060226543 |  |
| log\_alt | source | sourceEmory | -0.023452637803876127259 | 0.0932191676 | 0.8015108715349726909 | 0.980082796611386753 | 0.1426810356 |  |
| log\_alt | source | sourceNCSU | -0.474786823932972112949 | 0.0787587944 | 0.0000000042577922714 | 0.000000234178574925 | 0.1426810356 | \* |
| log\_alt | source | sourceUNC | -0.604310456334129053602 | 0.1565471472 | 0.0001352194975429389 | 0.001859268091215410 | 0.1426810356 | \* |
| log\_ast | age\_at\_enrollment | age\_at\_enrollment | -0.000894680486018714985 | 0.0034000958 | 0.7926101055297678499 | 0.909489701869294231 | 0.0002078831 |  |
| log\_ast | bmi | bmi | -0.003148038802301751649 | 0.0047657748 | 0.5093938236234286654 | 0.755536037266696048 | 0.0014146454 |  |
| log\_ast | trig\_mg\_d\_l | trig\_mg\_d\_l | 0.001085513580212882270 | 0.0003935483 | 0.0061185735101064558 | 0.048074506150836437 | 0.0214548628 | \* |
| log\_ast | sex | sexMale | 0.238018976647827035231 | 0.0655706768 | 0.0003261280897057102 | 0.005979014977938020 | 0.0365837587 | \* |
| log\_ast | race\_eth\_label | race\_eth\_labelNHB | -0.041526075166507463166 | 0.1586994971 | 0.7937364670859295979 | 0.909489701869294231 | 0.0300265831 |  |
| log\_ast | race\_eth\_label | race\_eth\_labelNHO | 0.030376613721768312010 | 0.2145855064 | 0.8875108349611069425 | 0.949219028115592889 | 0.0300265831 |  |
| log\_ast | race\_eth\_label | race\_eth\_labelNHW | 0.186528788626513286619 | 0.1522299247 | 0.2212968673781492701 | 0.468164239314347808 | 0.0300265831 |  |
| log\_ast | race\_eth\_label | race\_eth\_labelUnknown/Not Reported | 0.157264542450719579936 | 0.1926567518 | 0.4148969238507836943 | 0.700288002027946388 | 0.0300265831 |  |
| log\_ast | race\_final\_label | race\_final\_labelAmerican Indian/Alaskan Native | -1.328503850217025217262 | 0.5302031972 | 0.0126894798274911885 | 0.077546821168001698 | 0.0593702665 |  |
| log\_ast | race\_final\_label | race\_final\_labelAsian | -0.544696761934771345182 | 0.5302031972 | 0.3049926487599722291 | 0.578434333855119776 | 0.0593702665 |  |
| log\_ast | race\_final\_label | race\_final\_labelAsian/Pacific Islander | -0.660216532723117754955 | 0.4742281564 | 0.1647742414242251985 | 0.453129163916619282 | 0.0593702665 |  |
| log\_ast | race\_final\_label | race\_final\_labelBlack | -0.878349905838465949692 | 0.4147802350 | 0.0349321150813588083 | 0.169235328492605919 | 0.0593702665 |  |
| log\_ast | race\_final\_label | race\_final\_labelMore than one race | -1.108921932269493648704 | 0.7113422345 | 0.1199468440529844193 | 0.380802464373642457 | 0.0593702665 |  |
| log\_ast | race\_final\_label | race\_final\_labelOther | -0.841170595451019909028 | 0.4464710473 | 0.0604122131916746824 | 0.237333694681579110 | 0.0593702665 |  |
| log\_ast | race\_final\_label | race\_final\_labelUnknown/Not Reported | -1.035215479107740810250 | 0.4742281564 | 0.0297231764421266274 | 0.163477470431696442 | 0.0593702665 |  |
| log\_ast | race\_final\_label | race\_final\_labelWhite | -0.635146373673765363144 | 0.4125818871 | 0.1246262610677375399 | 0.380802464373642457 | 0.0593702665 |  |
| log\_ast | ethnicity | ethnicityNot Hispanic | 0.111302959747361693288 | 0.1520286894 | 0.4645920774415895904 | 0.751546007626100798 | 0.0019927963 |  |
| log\_ast | ethnicity | ethnicityUnknown/Not Reported | 0.157264542450722716316 | 0.1948553470 | 0.4201728012167678106 | 0.700288002027946388 | 0.0019927963 |  |
| log\_ast | rural | ruralLiving in rural area | 0.345068598864175402063 | 0.1117282858 | 0.0021746777308730226 | 0.023921455039603249 | 0.0401711111 | \* |
| log\_ast | rural | ruralUnknown/Not Reported | 0.253071909242553072517 | 0.0994044791 | 0.0113333302444727224 | 0.077546821168001698 | 0.0401711111 |  |
| log\_ast | smoking | smokingSmoke or use vape | 0.418054566377207448280 | 0.1100729513 | 0.0001722672490458041 | 0.004737349348759612 | 0.0400877200 | \* |
| log\_ast | smoking | smokingUnknown/Not Reported | 0.042350027696228850771 | 0.0706863135 | 0.5494807543757789237 | 0.755536037266696048 | 0.0400877200 |  |
| log\_ast | sq\_drink\_alcohol | sq\_drink\_alcoholNo, never drinker | -0.178923564483067260023 | 0.0968905171 | 0.0656530998965145635 | 0.240728032953886728 | 0.0249876790 |  |
| log\_ast | sq\_drink\_alcohol | sq\_drink\_alcoholUnknown/Not Reported | -0.175922580975668013670 | 0.0914870696 | 0.0553126411802466883 | 0.234015020377966759 | 0.0249876790 |  |
| log\_ast | sq\_drink\_alcohol | sq\_drink\_alcoholYes, current drinker | -0.267408536075597225157 | 0.0903715554 | 0.0032997012138423786 | 0.030247261126888469 | 0.0249876790 | \* |
| log\_ast | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_day3-4 alcoholic drinks per day | 0.879934566767678338906 | 0.2740516374 | 0.0014479126519101890 | 0.019908798963765097 | 0.0437526021 | \* |
| log\_ast | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayLess than 1 alcoholic drink per day | 0.074991856207319851357 | 0.1516597899 | 0.6212860211451736170 | 0.833432467389867093 | 0.0437526021 |  |
| log\_ast | sq\_average\_drink\_per\_day | sq\_average\_drink\_per\_dayUnknown/Not Reported | 0.249988182693879346097 | 0.1419702142 | 0.0791497849170279127 | 0.272077385652283454 | 0.0437526021 |  |
| log\_ast | sq\_self\_hep\_b | sq\_self\_hep\_bUnknown/Not Reported | 0.020494848366305471604 | 0.0700213340 | 0.7699312407056578822 | 0.909489701869294231 | 0.0011787184 |  |
| log\_ast | sq\_self\_hep\_b | sq\_self\_hep\_bYes | 0.090283445612804338887 | 0.1491854403 | 0.5454587774969221758 | 0.755536037266696048 | 0.0011787184 |  |
| log\_ast | sq\_self\_hep\_c | sq\_self\_hep\_cUnknown/Not Reported | -0.001751118339923484184 | 0.0702241441 | 0.9801202842252847436 | 0.980120284225284744 | 0.0005686555 |  |
| log\_ast | sq\_self\_hep\_c | sq\_self\_hep\_cYes | 0.064827699325887430670 | 0.1492081906 | 0.6642120837566096725 | 0.849573595502640333 | 0.0005686555 |  |
| log\_ast | supp\_meds\_tylenol | supp\_meds\_tylenolUnknown/Not Reported | 0.019077097160450636609 | 0.2439742605 | 0.9377196716145392852 | 0.955084850718512346 | 0.0041543210 |  |
| log\_ast | supp\_meds\_tylenol | supp\_meds\_tylenolYes | -0.393071744017929936010 | 0.4188958394 | 0.3487181035979890487 | 0.639316523262979941 | 0.0041543210 |  |
| log\_ast | supp\_meds\_steroids | supp\_meds\_steroidsUnknown/Not Reported | 0.049030535582638770653 | 0.2264722823 | 0.8287280681833779639 | 0.921359195121253083 | 0.0017179956 |  |
| log\_ast | supp\_meds\_steroids | supp\_meds\_steroidsYes | -0.391896423588799669435 | 0.6340852017 | 0.5369489109321877729 | 0.755536037266696048 | 0.0017179956 |  |
| log\_ast | sq\_water\_well | sq\_water\_wellUnknown/Not Reported | -0.007923263496710760898 | 0.0687263326 | 0.9082843943542390219 | 0.949219028115592889 | 0.0144877006 |  |
| log\_ast | sq\_water\_well | sq\_water\_wellYes | 0.197637634073006940305 | 0.0943510597 | 0.0369240716711140213 | 0.169235328492605919 | 0.0144877006 |  |
| log\_ast | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredUnknown/Not Reported | -0.102549395251678790442 | 0.0873703559 | 0.2413096227239345248 | 0.474001044636299940 | 0.0053998582 |  |
| log\_ast | sq\_water\_tap\_unfiltered | sq\_water\_tap\_unfilteredYes | -0.107040077507011749391 | 0.0827314469 | 0.1965886023389399606 | 0.455486042896528387 | 0.0053998582 |  |
| log\_ast | sq\_water\_house\_filtration | sq\_water\_house\_filtrationUnknown/Not Reported | -0.086496646376191185790 | 0.0671323836 | 0.1984506396137245832 | 0.455486042896528387 | 0.0051722326 |  |
| log\_ast | sq\_water\_house\_filtration | sq\_water\_house\_filtrationYes | -0.078298083702701387621 | 0.1135940702 | 0.4911092621141992520 | 0.755536037266696048 | 0.0051722326 |  |
| log\_ast | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterUnknown/Not Reported | -0.087667300833286568307 | 0.0745905537 | 0.2406773695972904414 | 0.474001044636299940 | 0.0059416054 |  |
| log\_ast | sq\_water\_faucet\_filter | sq\_water\_faucet\_filterYes | -0.103484062806179250016 | 0.0803718360 | 0.1987575459912123976 | 0.455486042896528387 | 0.0059416054 |  |
| log\_ast | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterUnknown/Not Reported | -0.089678813490724623714 | 0.0686668459 | 0.1924205770834513662 | 0.455486042896528387 | 0.0080278546 |  |
| log\_ast | sq\_water\_charcoal\_filter | sq\_water\_charcoal\_filterYes | -0.135299017119704628742 | 0.0955841228 | 0.1578223514100652036 | 0.453129163916619282 | 0.0080278546 |  |
| log\_ast | sq\_water\_bottled | sq\_water\_bottledUnknown/Not Reported | 0.024805326618798459459 | 0.0870904426 | 0.7759504542921070724 | 0.909489701869294231 | 0.0055989959 |  |
| log\_ast | sq\_water\_bottled | sq\_water\_bottledYes | 0.102812872716518927119 | 0.0839116703 | 0.2213140040395098762 | 0.468164239314347808 | 0.0055989959 |  |
| log\_ast | sq\_water\_none | sq\_water\_noneUnknown/Not Reported | -0.057684249219906121031 | 0.0657581618 | 0.3809768625038781886 | 0.675926691539138758 | 0.0022250837 |  |
| log\_ast | sq\_water\_none | sq\_water\_noneYes | -0.017033898718126203042 | 0.1589161235 | 0.9147019725477532059 | 0.949219028115592889 | 0.0022250837 |  |
| log\_ast | sq\_water\_other\_type | sq\_water\_other\_typeUnknown/Not Reported | -0.029607954453489373353 | 0.0670702908 | 0.6591654263122646018 | 0.849573595502640333 | 0.0013412561 |  |
| log\_ast | sq\_water\_other\_type | sq\_water\_other\_typeYes | 0.049419977220526677131 | 0.1220933474 | 0.6858951803127739666 | 0.857368975390967458 | 0.0013412561 |  |
| log\_ast | source | sourceEmory | 0.017174623118332080218 | 0.0837296002 | 0.8375992682920482268 | 0.921359195121253083 | 0.2123043648 |  |
| log\_ast | source | sourceNCSU | -0.543945848765771122757 | 0.0707412707 | 0.0000000000001559704 | 0.000000000008578371 | 0.2123043648 | \* |
| log\_ast | source | sourceUNC | -0.085888213368534818692 | 0.1406108892 | 0.5417196807616859733 | 0.755536037266696048 | 0.2123043648 |  |