

Supplementary Table 5. Genetic correlations between AUDIT-P and other relevant traits using LDSC (traits with FDR < 0.05 are highlighted in bold)

Trait	Sample	SI	Pubmed ID	Genetic correlation (r_g)	Standard error	Zscore	Pvalue	FDR < 0.05	h^2_{obs}	$h^2_{obs_se}$	h^2_{int}	$h^2_{int_se}$	gcov_int	gcov_int_se
AUDIT Total UKB 23andMe	141958		Current ms	0.805	0.029	28.191	7.60E-175	Yes	0.059	0.005	1.006	0.007	0.550	0.006
AUDIT Consumption UKBB	141958		Current ms	0.895	0.039	17.701	4.11E-70	Yes	0.059	0.005	1.006	0.006	0.379	0.006
Alcohol Consumption UKBB	112117		28937693	0.781	0.050	15.218	2.67E-52	Yes	0.081	0.006	1.011	0.008	0.089	0.005
Smoking Lifetime Use	74035		20418890	0.407	0.064	6.353	1.73E-10	Yes	0.074	0.007	0.998	0.006	0.006	0.005
Schizophrenia	77096		25056061	0.222	0.035	6.299	3.00E-10	Yes	0.473	0.019	1.038	0.013	-0.005	0.007
Alcohol Consumption	70460		27911795	0.784	0.128	5.977	2.28E-09	Yes	0.049	0.012	1.010	0.011	-0.001	0.008
Alcohol Dependence PGC	52848		bioRxiv	0.630	0.112	5.631	1.79E-08	Yes	0.058	0.012	1.018	0.006	0.006	0.005
Depressive Symptoms	161460		27089181	0.303	0.055	5.543	2.98E-08	Yes	0.047	0.004	1.000	0.008	0.017	0.005
Cannabis Lifetime Use	32330		27023175	0.460	0.085	5.397	6.77E-08	Yes	0.090	0.017	0.999	0.007	-0.001	0.005
AUDIT 23andMe	20328		29058377	0.639	0.133	4.801	1.58E-06	Yes	0.088	0.026	1.004	0.007	-0.001	0.005
ADHD2 PGC	53293		https://doi.org/10.1101/145581	0.227	0.053	4.403	1.07E-05	Yes	0.235	0.015	1.036	0.010	-0.009	0.007
Neuroticism	170911		27089181	0.227	0.052	4.353	1.34E-05	Yes	0.090	0.008	0.987	0.013	0.025	0.006
Subjective Wellbeing	298420		27089181	-0.240	0.058	-4.109	3.98E-05	Yes	0.025	0.002	1.000	0.007	-0.012	0.006
Bipolar Disorder	16731		21926972	0.261	0.069	3.790	1.51E-04	Yes	0.509	0.051	1.003	0.009	-0.008	0.006
Neuroticism	106716		27067015	0.178	0.048	3.657	2.55E-04	Yes	0.125	0.011	0.992	0.011	0.027	0.005
Daily cigarettes	69028		20418890	0.276	0.096	2.882	3.95E-03	Yes	0.032	0.009	1.007	0.007	-0.002	0.005
Major Depressive Disorder	18759		22472876	0.261	0.094	2.769	5.63E-03	Yes	0.155	0.029	1.013	0.008	-0.002	0.007
Caudate Volume	13171		25607358	0.201	0.086	2.330	1.98E-02	Yes	0.248	0.038	0.969	0.006	-0.007	0.005
HDL cholesterol	100184		20686565	0.114	0.050	2.299	2.15E-02	No	0.128	0.023	1.057	0.049	0.004	0.006
Former smoker	70675		20418890	-0.171	0.080	-2.136	3.27E-02	No	0.036	0.006	1.001	0.006	0.003	0.004
Intracranial brain volume	13171		25607358	0.199	0.097	2.045	4.08E-02	No	0.176	0.045	1.002	0.007	0.000	0.005
Smoking Age Onset	47961		20418890	-0.193	0.122	-1.585	1.13E-01	No	0.030	0.009	1.000	0.006	0.007	0.005
Cognitive performance	106736		25201988	0.075	0.054	1.395	1.63E-01	No	0.107	0.007	1.027	0.009	0.002	0.006
Loneliness	10760		27629369	0.223	0.165	1.351	1.77E-01	No	0.157	0.092	1.004	0.007	-0.001	0.005
Alcohol dependence	7280		24166409	0.202	0.164	1.237	2.16E-01	No	0.087	0.065	1.048	0.007	0.002	0.005
Total Cholesterol	99900		20686565	0.065	0.051	1.259	2.08E-01	No	0.133	0.024	1.022	0.036	-0.001	0.006
College attainment	95427		23722424	0.051	0.057	0.902	3.67E-01	No	0.105	0.008	1.021	0.009	0.005	0.006
Extraversion	63.030		26362575	-0.058	0.081	-0.709	4.78E-01	No	0.020	0.003	1.002	0.007	0.003	0.005
Anorexia Nervosa	17767		24514567	0.056	0.083	0.673	5.01E-01	No	0.190	0.031	1.011	0.008	-0.004	0.006
Height	253288		25282103	-0.018	0.028	-0.637	5.24E-01	No	0.342	0.018	1.231	0.032	-0.002	0.008
Years of Education	293723		27225129	0.022	0.035	0.619	5.36E-01	No	0.126	0.005	0.928	0.010	0.012	0.006
LDL cholesterol	95454		20686565	0.028	0.054	0.515	6.06E-01	No	0.103	0.029	1.052	0.050	-0.002	0.006
Triglycerides	96598		20686565	-0.025	0.053	-0.472	6.37E-01	No	0.168	0.029	0.968	0.017	-0.003	0.006
BMI	339224		25673413	0.029	0.065	0.447	6.55E-01	No	0.605	0.047	0.894	0.010	-0.002	0.008
Nucleus Accumbens Volume	13171		25607358	0.059	0.131	0.446	6.55E-01	No	0.090	0.037	0.979	0.007	-0.004	0.005
Childhood Obesity	13848		22484627	-0.026	0.059	-0.439	6.61E-01	No	0.415	0.046	0.922	0.008	-0.001	0.005
Childhood IQ	12441		23358156	-0.017	0.082	-0.205	8.37E-01	No	0.273	0.044	1.002	0.009	0.011	0.006
Obesity	98697		23563607	0.006	0.046	0.128	8.98E-01	No	0.171	0.010	0.798	0.009	-0.005	0.006
Hippocampus Volume	13171		25607358	-0.012	0.106	-0.117	9.07E-01	No	0.141	0.040	0.988	0.007	-0.008	0.005