

Supplementary Table 4. Genetic correlations between AUDIT-C and other relevant traits using LDSC (traits with FDR < 0.05 are highlighted in bold)

Trait	Sample S	Pubmed ID	Genetic correlation (r <sub>g</sub> )	Standard error	Zscore	Pvalue	FDR < 0.05	h2_obs	h2_obs_se	h2_int	h2_int_se	gcov_int	gcov_int_se
AUDIT Total UKB 23andMe	141958	Current ms	0.983	0.005	213.320	0.00E+00	Yes	0.085	0.005	0.997	0.007	0.991	0.007
Alcohol Consumption UKBB	112117	28937603	0.921	0.034	27.282	6.95E-164	Yes	0.081	0.006	1.011	0.008	0.176	0.005
AUDIT Problematic UKBB	141958	Current ms	0.695	0.039	17.701	4.11E-70	Yes	0.059	0.005	1.006	0.006	0.379	0.006
Alcohol Consumption	70460	27911795	0.788	0.111	7.113	1.13E-12	Yes	0.049	0.012	1.010	0.011	-0.006	0.008
Years of Education	293723	27225129	0.196	0.030	6.551	5.70E-11	Yes	0.126	0.005	0.928	0.010	0.024	0.006
AUDIT 23andMe	20328	29058377	0.761	0.117	6.508	7.59E-11	Yes	0.088	0.026	1.004	0.007	0.007	0.005
College attainment	95427	2372424	0.241	0.049	4.937	7.93E-07	Yes	0.105	0.008	1.021	0.009	0.007	0.006
Obesity	98697	23563607	-0.168	0.038	-4.449	8.61E-06	Yes	0.171	0.010	0.798	0.009	0.003	0.006
Cognitive performance	106736	25201988	0.212	0.049	4.325	1.53E-05	Yes	0.107	0.007	1.027	0.009	0.009	0.006
Smoking Lifetime Use	74035	20418890	0.240	0.056	4.318	1.57E-05	Yes	0.074	0.007	0.968	0.006	0.005	0.005
Depressive Symptoms	161460	27089181	-0.192	0.048	-4.030	5.57E-05	Yes	0.047	0.004	1.000	0.008	-0.014	0.006
Alcohol Dependence PGC	52848	bioRxiv	0.332	0.084	3.938	8.22E-05	Yes	0.058	0.012	1.018	0.006	0.003	0.005
Cannabis Lifetime Use	32330	27023175	0.256	0.066	3.861	1.13E-04	Yes	0.090	0.017	0.999	0.007	0.004	0.005
HDL cholesterol	100164	20686565	0.186	0.048	3.907	9.33E-05	Yes	0.128	0.023	1.057	0.049	0.012	0.006
Triglycerides	96598	20686565	-0.164	0.043	-3.855	1.00E-04	Yes	0.168	0.029	0.968	0.017	-0.002	0.006
Neuroticism	106716	27087015	-0.132	0.037	-3.559	3.72E-04	Yes	0.125	0.011	0.992	0.011	-0.011	0.005
Major Depressive Disorder	18759	22472876	-0.235	0.081	-2.900	3.73E-03	Yes	0.155	0.029	1.013	0.008	0.003	0.006
ADHD PGC	53293	<a href="https://doi.org/10.1101/145581">https://doi.org/10.1101/145581</a>	-0.104	0.044	-2.372	1.77E-02	Yes	0.235	0.015	1.036	0.010	-0.005	0.006
Height	253288	25282103	0.056	0.024	2.328	1.99E-02	Yes	0.342	0.018	1.231	0.032	-0.005	0.008
Intracranial brain volume	13171	25607358	0.193	0.085	2.263	2.36E-02	No	0.176	0.045	1.002	0.007	0.005	0.005
Caudate Volume	13171	25607358	0.141	0.068	2.064	3.90E-02	No	0.248	0.038	0.969	0.006	-0.010	0.005
Alcohol dependence	7280	24169409	0.409	0.200	2.045	4.09E-02	No	0.087	0.065	1.048	0.007	-0.005	0.005
BMI	339224	25673413	-0.105	0.053	-1.999	4.56E-02	No	0.605	0.047	0.994	0.010	0.011	0.007
Neuroticism	170911	27089181	-0.090	0.042	-2.138	3.25E-02	No	0.090	0.008	0.987	0.013	-0.013	0.006
Childhood Obesity	13848	22484627	-0.098	0.051	-1.924	5.44E-02	No	0.415	0.046	0.922	0.008	0.002	0.004
Bipolar Disorder	18731	21928972	0.100	0.065	1.528	1.27E-01	No	0.509	0.051	1.003	0.009	-0.003	0.008
Childhood IQ	12441	23358166	0.114	0.072	1.584	1.13E-01	No	0.273	0.044	1.002	0.009	0.005	0.006
Loneliness	10780	27629369	0.181	0.153	1.186	2.38E-01	No	0.153	0.092	1.004	0.007	-0.011	0.005
Anorexia Nervosa	17767	24514567	0.052	0.073	0.713	4.76E-01	No	0.190	0.031	1.011	0.008	-0.006	0.006
Subjective Wellbeing	298420	27089181	-0.034	0.051	-0.662	5.08E-01	No	0.025	0.002	1.000	0.007	0.014	0.006
Extraversion	63,030	26362575	-0.055	0.073	-0.747	4.55E-01	No	0.020	0.003	1.002	0.007	0.011	0.005
Nucleus Accumbens Volume	13171	25607358	0.051	0.090	0.570	5.69E-01	No	0.090	0.037	0.979	0.007	0.000	0.004
Smoking Age Onset	47961	20418890	0.043	0.105	0.405	6.85E-01	No	0.030	0.009	1.000	0.006	0.002	0.005
Daily cigarettes	68028	20418890	0.041	0.090	0.453	6.50E-01	No	0.032	0.009	1.007	0.007	-0.006	0.005
Total Cholesterol	99900	20686565	0.017	0.040	0.426	6.70E-01	No	0.133	0.024	1.022	0.036	-0.006	0.006
Former smoker	70675	20418890	-0.016	0.075	-0.209	8.35E-01	No	0.036	0.006	1.001	0.006	-0.001	0.005
LDL cholesterol	95454	20686565	-0.009	0.044	-0.204	8.38E-01	No	0.103	0.029	1.052	0.050	-0.012	0.006
Schizophrenia	77096	25056061	0.000	0.029	-0.012	9.91E-01	No	0.473	0.019	1.038	0.013	-0.006	0.007
Hippocampus Volume	13171	25607358	-0.010	0.090	-0.140	8.89E-01	No	0.141	0.040	0.988	0.007	0.000	0.005