

AD

AD Factor

Tolerance

Withdrawal

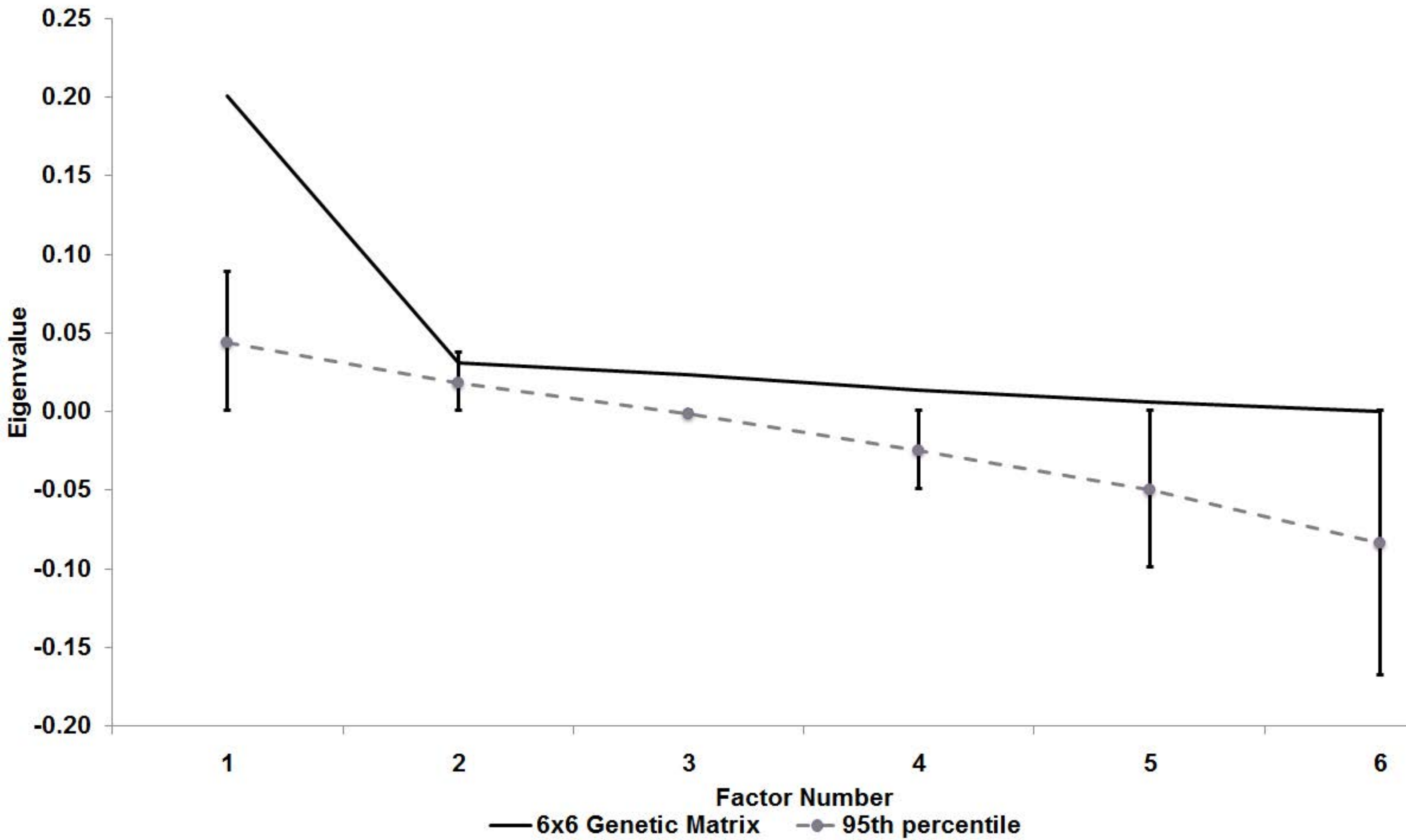
Using longer than intended

Unsuccessful attempts to cut down

Great time spent using alcohol

Social/Occupation activities foregone

Continued use despite problems



Supplemental Table T1. Proportion of variance explained ( $V_G/V_P$ ) by individual chromosomes

Chromosome	Summary Phenotypes		DSM-IV Alcohol Dependence Symptoms						
	AD	Alcohol Factor Score	Sx1	Sx2	Sx3	Sx4	Sx5	Sx6	Sx7
1	0.082	0.077	0.004	0.035	0.053	0.033	<0.001	0.057	0.031
2	0.001	0.025	0.040	0.026	0.022	0.008	0.012	0.031	0.050
3	<0.001	0.007	0.017	<0.001	0.012	0.005	0.011	<0.001	0.002
4	0.007	<0.001	0.001	<0.001	0.009	<0.001	<0.001	<0.001	0.008
5	0.034	<0.001	0.021	<0.001	<0.001	0.030	0.004	0.001	0.008
6	<0.001	0.004	0.035	0.058	0.004	<0.001	<0.001	<0.001	<0.001
7	0.034	0.028	0.037	0.010	0.009	0.002	0.006	0.005	<0.001
8	0.019	<0.001	<0.001	<0.001	0.055	<0.001	<0.001	0.006	0.007
9	0.014	0.008	0.004	<0.001	<0.001	0.030	<0.001	0.001	0.015
10	0.009	0.010	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	0.008
11	0.017	0.016	<0.001	0.061	0.008	0.026	0.005	0.023	0.004
12	<0.001	0.007	<0.001	0.013	0.033	<0.001	<0.001	0.021	<0.001
13	<0.001	<0.001	<0.001	0.013	<0.001	0.015	<0.001	<0.001	<0.001
14	0.011	0.015	0.010	<0.001	0.026	<0.001	0.007	0.009	0.016
15	0.018	0.012	<0.001	<0.001	0.018	0.008	0.007	<0.001	0.004
16	0.034	0.038	0.027	0.017	0.037	0.002	0.019	0.002	0.041
17	<0.001	<0.001	<0.001	0.013	<0.001	0.014	<0.001	0.001	<0.001
18	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
19	<0.001	<0.001	<0.001	<0.001	0.005	<0.001	0.006	<0.001	0.017
20	<0.001	0.031	0.004	0.007	0.039	0.004	0.003	0.008	0.001
21	0.011	0.025	0.021	0.052	0.003	0.024	0.031	0.045	<0.001
22	0.035	0.002	0.023	0.025	<0.001	0.003	0.006	0.007	0.021
Total	0.326	0.304	0.248	0.33	0.333	0.204	0.117	0.217	0.233
Total (ignoring shared effects)	0.570	0.532	0.492	0.625	0.613	0.375	0.234	0.377	0.435
<i>Association between chromosomal length and variance explained</i>									
R-square	0.099	0.098	0.072	0.005	0.065	0.055	0.063	0.079	0.101
P-value	0.154	0.156	0.226	0.766	0.251	0.292	0.261	0.204	0.149

The top half of the table shows the proportion of phenotypic variance explained by the markers on individual chromosomes. The bottom-half shows the association between chromosomal length and the proportion of variance explained by the SNPs on each chromosome. This was derived by regressing percent variance explained on chromosomal length. Description of symptoms are as follows: Sx1: Tolerance, Sx2: Withdrawal, Sx3: Using longer than intended, Sx4: Failure to quit, Sx5: Great time spent using/recovering, Sx6: Social/Occupation activities foregone, Sx7: Continued use despite problems.