Table S1: Data for Figure 1a

Disorder	Lifetime prevalence	Heritability	Ncase1	Ncase2	Success	PMID prevalence	PMID heritability
BRCA	0.126	0.53	3659	12576	2	8492317	17139701
CD	0.002	0.55	6333	15694	2	17904915	8344571
T2DM	0.049	0.69	8130	34412	2	17320520	21826484
AD	0.132	0.58	8309	11561	2	16397184	16461860
ADHD	0.053	0.75	2960	0	0	17541055	15950004
ALC	0.178	0.40	26316	21185	1	17606817	3307505
AN	0.006	0.56	2907	0	0	16815322	17430085
ASD	0.001	0.80	3101	1390	1	12959416	21438136
BIP	0.007	0.75	7481	4496	1	8656541	14601036
MDD	0.130	0.37	9240	6783	0	11007705	16203955
NIC	0.240	0.67	38181	35672	1	11545662	11768187
SCZ	0.004	0.81	9394	8442	1	15916472	14662550

ADHD=attention-deficit hyperactivity disorder, ALC=alcohol, ALZ=Alzheimer's disease, AN=anorexia nervosa, ASD=autism spectrum disorder, BIP=bipolar disorder, BRCA=breast cancer, CD=Crohn's disease, MDD=major depressive disorder, NIC=nicotine, SCZ=schizophrenia, and T2DM=type 2 diabetes mellitus.

Ncase1=number of cases in GWAS discovery phase. Ncase2=number of cases in replication phase. Data from NHGRI GWAS Catalog.[1]

Success in genetic identification via any source (GWAS, SV, genome-wide linkage) is qualitatively defined as 0=no or minimal success to date, 1=some success, and 2=considerable success.

The heritability of ASD is summarized across multiple studies. Most studies report relative high heritabilities [2] although one more recent study showed lesser genetic influence. [3] The heritability of T2DM [4] is for onset between ages 35-60 years; heritability for later onset is lower, and all of these estimates are complicated considerably by age cohort effects consequent to the obesity pandemic.

The ALC entry is a composite of alcohol dependence (prevalence) and consumption (heritability, Ncase1, Ncontrol1). NIC is a composite of nicotine dependence (prevalence) and maximum cigarettes per day (heritability, Ncase1, Ncontrol1).

References

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4. Almgren, P. *et al.* Heritability and familiality of type 2 diabetes and related