

Supplemental Table 1: Phenotypic traits investigated in the UK Biobank cohort.

UKB traits	UKB Field ID	Sample size
Emotional and Behavioral Response to Traumatic Events		
Felt irritable or had angry outbursts in past month	20494	52,816
Avoided activities or situations because of previous stressful experience in past month	20495	117,868
Felt distant from other people in past month	20496	52,822
Repeated disturbing thoughts of stressful experience in past month	20497	117,900
Felt very upset when reminded of stressful experience in past month	20498	117,893
Exposure to Traumatic Events		
Physically abused by family as a child	20488	117,838
Felt hated by family member as a child	20487	117,749
Sexually molested as a child	20490	116,773
Physical violence by partner or ex-partner as an adult	20523	117,746
Belittlement by partner or ex-partner as an adult	20521	117,741
Sexual interference by partner or ex-partner without consent as an adult	20524	117,727
Victim of sexual assault	20531	116,671
Victim of physically violent crime	20529	117,846
Been in serious accident believed to be life-threatening	20526	117,922
Witnessed sudden violent death	20530	117,862
Diagnosed with life-threatening illness	20528	117,617
Been involved in combat or exposed to war-zone	20527	117,954
Social Support		
Felt loved as a child	20489	117,624
Someone to take to doctor when needed as a child	20491	117,301
Been in a confiding relationship as an adult	20522	115,099
Able to pay rent/mortgage as an adult	20425	116,296
Socioeconomic Status		
Average total household income before tax	738	311,028
Townsend deprivation index at recruitment	189	360,763

Supplemental Table 2: GWAS datasets with SNP heritability z-score \geq 4.

Trait	Heritability z-score	p-value
CHARGE CRP	4.668	3.04E-06
PGC-PTSD Freeze 2	5.521	3.37E-08
UKB Emotional and Behavioral Response to Trauma		
Felt very upset when reminded of stressful experience in past month	10.038	1.03E-23
Repeated disturbing thoughts of stressful experience in past month	9.56	1.18E-21
Avoided activities or situations because of previous stressful experience in past month	6.549	5.79E-11
Felt distant from other people in past month	4.316	1.59E-05
UKB Exposure to Traumatic Events		
Physically abused by family as a child	11.51	1.18E-30
Able to pay rent/mortgage as an adult	5.348	8.90E-08
Physical violence by partner or ex-partner as an adult	6.152	7.64E-10
Felt hated by family member as a child	10.4	2.48E-25
Belittlement by partner or ex-partner as an adult	9.149	5.75E-20
Sexually molested as a child	6.463	1.02E-10
Witnessed sudden violent death	5.886	3.95E-09
Victim of sexual assault	7.269	3.62E-13
Victim of physically violent crime	5.25	1.52E-07
UKB Social Support		
Felt loved as a child	14.982	9.65E-51
Been in a confiding relationship as an adult	7.32	2.48E-13
Someone to take to doctor when needed as a child	6.761	1.37E-11
UKB Socioeconomic Status		
Townsend deprivation index at recruitment	16.35	4.35E-60
Average total household income before tax	23.128	2.42E-118

Supplemental Table 3: Two-sample MR result (inverse variance weighted method).

Exposure	Outcome	SNP, n	Beta	SE	95% CI	p-value	Heterogeneity/ pleiotropy
CRP	PTSD	859	0.066	0.027	0.013 – 0.119	0.015	No
	Felt loved as a child	1148	-0.02	0.007	-0.034 – -0.007	0.003	Yes
		1085	-0.017	0.007	-0.031 – -0.004	0.009	No (outliers removed)
PTSD	CRP	512	0.008	0.004	0.001 – 0.015	0.024	Yes
		484	0.009	0.003	0.002 – 0.0015	0.009	No (outliers removed)
Felt loved as a child	CRP	18	0.096	0.321	-0.533 – 0.726	0.764	No
	PTSD ¹	2630	-0.139	0.034	-0.206 – -0.071	5.64E-05	Yes
		2488	-0.190	0.034	-0.257 – -0.124	2.10E-08	No (outliers removed)
Household income	CRP	636	-0.141	0.017	-0.175 – -0.108	8.83E-17	Yes
		600	-0.131	0.015	-0.161 – -0.102	1.06E-12	No (outliers removed)
	PTSD ¹	2122	-0.227	0.043	-0.312 – -0.142	1.57E-07	No
Deprivation index	PTSD ¹	1065	0.295	0.066	0.164 – 0.426	9.80E-06	Yes
		1004	0.389	0.065	0.263 – 0.516	1.63E-09	No (outliers removed)

¹PGC-PTSD freeze 1.5

