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eTable 1. Descriptive characteristics of the samples in Lifelines and CBS

Characteristics	Lifelines (N=152,009)	CBS (N=15,266,037)
Age, mean (SD)	44.6 (12.9)	47.8 (17.6)
Male, n (%)	63,012 (41.5)	7,872,975 (51.6)
Hypertension, n (%)	39,088 (26.2)	4,014,427 (26.3)
Type-2 Diabetes, n (%)	4,180 (3.0)	902,487 (5.9)
Dyslipidemia, n (%)	47,399 (32.6)	2,361,668 (15.5)
Stroke, n (%)	1,144 (0.8)	402,359 (2.6)
Heart failure, n (%)	754 (0.5)	173,280 (1.1)
Myocardial infarction, n (%)	1,792 (1.2)	157,413 (1.0)
Having any first-degree relative in the dataset, n (%)	86,190 (56.7)	11,131,859 (72.9)
Parent	30,566 (20.1)	5,905,254 (38.7)
Offspring	31,114 (20.5)	5,169,946 (33.9)
Sibling	51,125 (33.6)	7,758,936 (50.8)
Having any second-degree relative in the dataset, n (%)	20,782 (13.7)	9,850,982 (64.5)
Aunt or uncle	12,161 (8)	5,677,042 (37.2)
Niece or nephew	8,152 (5.4)	4,907,238 (32.1)
Grandparent	1,208 (0.8)	885,161 (5.8)
Grandchild	101 (0.1)	843,145 (5.5)
Half-sibling	321 (0.2)	425,754 (2.8)
Having any third-degree relative (first cousin) in the dataset, n (%)	NA	6,143,917 (40.2)

Note: SD, standard deviation; NA: Lifelines does not include data on third-degree relatives.

eTable 2. Familial aggregation (λ) and heritability estimates in the main analysis

Outcome	Type of the relation	Relation	λ	λ 95% CI_Low	λ 95% CI_High	λ SE	h^2	h^2 95% CI_Low	h^2 95% CI_High	h^2 SE	Sample size	n_exposed	Number of outcome cases in the exposed group
ADHD	1DR	Any 1DR	2.91	2.90	2.93	0.01	0.50	0.50	0.50	0.00	11131859	1197414	134295
Autism	1DR	Any 1DR	5.45	5.34	5.55	0.05	0.53	0.52	0.53	0.00	11131859	272162	11583
Hypertension	1DR	Any 1DR	1.09	1.09	1.09	0.00	0.11	0.11	0.12	0.00	11131859	7339900	2277230
Type-2 diabetes	1DR	Any 1DR	2.00	1.99	2.00	0.00	0.40	0.40	0.40	0.00	11131859	2172434	241579
Dyslipidemia	1DR	Any 1DR	1.23	1.23	1.23	0.00	0.19	0.18	0.19	0.00	11131859	5080044	922477
Stroke	1DR	Any 1DR	1.30	1.29	1.31	0.01	0.10	0.10	0.11	0.00	11131859	1202841	44046
Heart failure	1DR	Any 1DR	1.80	1.76	1.84	0.02	0.19	0.18	0.19	0.00	11131859	534820	9222
Angina pectoris	1DR	Any 1DR	1.71	1.70	1.73	0.01	0.22	0.21	0.22	0.00	11131859	1154354	50864
Myocardial infarction	1DR	Any 1DR	1.66	1.63	1.70	0.02	0.16	0.15	0.16	0.00	11131859	483386	8981
ADHD	1DR	Parent	3.64	3.60	3.68	0.02	0.63	0.62	0.64	0.00	5905254	124113	39491
Autism	1DR	Parent	7.74	7.40	8.08	0.17	0.66	0.65	0.68	0.01	5905254	19274	2893
Hypertension	1DR	Parent	1.02	1.02	1.02	0.00	0.02	0.02	0.03	0.00	5905254	2755100	437649
Type-2 diabetes	1DR	Parent	1.92	1.90	1.94	0.01	0.37	0.37	0.38	0.00	5905254	986709	51754
Dyslipidemia	1DR	Parent	1.14	1.13	1.15	0.00	0.12	0.11	0.12	0.00	5905254	2247632	109783
Stroke	1DR	Parent	1.47	1.44	1.51	0.02	0.15	0.14	0.16	0.01	5905254	516181	7247
Heart failure	1DR	Parent	3.09	2.87	3.30	0.11	0.38	0.36	0.40	0.01	5905254	214750	1411
Angina pectoris	1DR	Parent	1.80	1.75	1.85	0.03	0.24	0.22	0.25	0.01	5905254	571781	6262
Myocardial infarction	1DR	Parent	1.71	1.61	1.81	0.05	0.17	0.15	0.18	0.01	5905254	228881	1199
ADHD	1DR	Both parents	6.34	5.92	6.77	0.22	0.47	0.45	0.49	0.01	5905254	3069	1859
Autism	1DR	Both parents	19.40	9.60	29.19	5.00	0.50	0.39	0.61	0.06	5905254	147	47
Hypertension	1DR	Both parents	1.35	1.34	1.35	0.00	0.21	0.21	0.22	0.00	5905254	1160378	230936
Type-2 diabetes	1DR	Both parents	4.29	4.20	4.38	0.05	0.47	0.46	0.48	0.00	5905254	97229	10410
Dyslipidemia	1DR	Both parents	2.11	2.09	2.13	0.01	0.38	0.37	0.38	0.00	5905254	624178	48427
Stroke	1DR	Both parents	2.34	2.01	2.68	0.17	0.18	0.15	0.21	0.02	5905254	15598	352
Heart failure	1DR	Both parents	10.19	3.87	16.50	3.22	0.43	0.29	0.58	0.07	5905254	3309	39
Angina pectoris	1DR	Both parents	3.92	3.57	4.27	0.18	0.30	0.28	0.32	0.01	5905254	22959	563

Outcome	Type of the relation	Relation	λ	λ 95% CI_Low	λ 95% CI_High	λ SE	h^2	h^2 95% CI_Low	h^2 95% CI_High	h^2 SE	Sample size	n_exposed	Number of outcome cases in the exposed group
Myocardial infarction	1DR	Both parents	3.11	1.63	4.59	0.76	0.18	0.10	0.27	0.04	5905254	2518	23
ADHD	1DR	Father	3.57	3.52	3.63	0.03	0.62	0.61	0.63	0.00	4715824	62611	19691
Autism	1DR	Father	7.09	6.74	7.44	0.18	0.63	0.61	0.65	0.01	4715824	14188	1959
Hypertension	1DR	Father	1.13	1.12	1.13	0.00	0.17	0.16	0.17	0.00	4715824	2308251	383737
Type-2 diabetes	1DR	Father	2.12	2.10	2.15	0.01	0.44	0.43	0.45	0.00	4715824	608066	31983
Dyslipidemia	1DR	Father	1.35	1.34	1.37	0.01	0.28	0.27	0.29	0.00	4715824	1837897	85353
Stroke	1DR	Father	1.43	1.38	1.49	0.03	0.14	0.13	0.16	0.01	4715824	286548	3553
Heart failure	1DR	Father	3.00	2.69	3.31	0.16	0.37	0.33	0.41	0.02	4715824	123424	670
Angina pectoris	1DR	Father	1.87	1.80	1.94	0.04	0.25	0.24	0.27	0.01	4715824	368433	3420
Myocardial infarction	1DR	Father	1.58	1.45	1.71	0.07	0.14	0.12	0.17	0.01	4715824	160293	617
ADHD	1DR	Mother	3.97	3.92	4.03	0.03	0.68	0.67	0.69	0.00	5647850	67495	23507
Autism	1DR	Mother	10.15	9.38	10.93	0.39	0.78	0.75	0.81	0.01	5647850	5339	1026
Hypertension	1DR	Mother	1.16	1.16	1.16	0.00	0.20	0.20	0.21	0.00	5647850	2765500	517926
Type-2 diabetes	1DR	Mother	2.46	2.43	2.49	0.01	0.54	0.53	0.55	0.00	5647850	569143	40557
Dyslipidemia	1DR	Mother	1.46	1.45	1.47	0.01	0.36	0.35	0.36	0.00	5647850	1652146	122424
Stroke	1DR	Mother	1.66	1.60	1.72	0.03	0.20	0.19	0.22	0.01	5647850	256701	4345
Heart failure	1DR	Mother	4.10	3.69	4.50	0.21	0.49	0.46	0.53	0.02	5647850	94679	827
Angina pectoris	1DR	Mother	2.07	2.00	2.14	0.04	0.30	0.28	0.31	0.01	5647850	244509	3937
Myocardial infarction	1DR	Mother	2.05	1.87	2.23	0.09	0.23	0.20	0.26	0.01	5647850	71183	609
ADHD	1DR	Offspring	3.45	3.40	3.49	0.02	0.60	0.59	0.60	0.00	5169946	614633	33507
Autism	1DR	Offspring	7.55	7.21	7.88	0.17	0.65	0.64	0.67	0.01	5169946	142273	2636
Hypertension	1DR	Offspring	1.14	1.14	1.14	0.00	0.18	0.18	0.18	0.00	5169946	1230436	746840
Type-2 diabetes	1DR	Offspring	2.28	2.26	2.30	0.01	0.49	0.48	0.49	0.00	5169946	214587	63307
Dyslipidemia	1DR	Offspring	1.63	1.62	1.65	0.01	0.48	0.47	0.48	0.00	5169946	267430	177613
Stroke	1DR	Offspring	1.55	1.51	1.60	0.02	0.18	0.16	0.19	0.01	5169946	71922	7491
Heart failure	1DR	Offspring	3.48	3.20	3.77	0.14	0.43	0.40	0.46	0.01	5169946	15940	1390
Angina pectoris	1DR	Offspring	2.47	2.33	2.61	0.07	0.38	0.36	0.41	0.01	5169946	38086	6926
Myocardial infarction	1DR	Offspring	2.24	1.84	2.63	0.20	0.26	0.20	0.32	0.03	5169946	20972	1193

Outcome	Type of the relation	Relation	λ	λ 95% CI_Low	λ 95% CI_High	λ SE	h^2	h^2 95% CI_Low	h^2 95% CI_High	h^2 SE	Sample size	n_exposed	Number of outcome cases in the exposed group
ADHD	1DR	Son	3.39	3.34	3.45	0.03	0.59	0.58	0.60	0.00	3690992	405418	23102
Autism	1DR	Son	7.15	6.77	7.54	0.20	0.63	0.61	0.65	0.01	3690992	100080	1841
Hypertension	1DR	Son	1.16	1.16	1.17	0.00	0.21	0.20	0.21	0.00	3690992	466185	298966
Type-2 diabetes	1DR	Son	2.32	2.29	2.35	0.02	0.50	0.49	0.51	0.00	3690992	84849	27679
Dyslipidemia	1DR	Son	1.65	1.64	1.67	0.01	0.49	0.48	0.50	0.00	3690992	165134	111140
Stroke	1DR	Son	1.53	1.46	1.59	0.03	0.17	0.15	0.18	0.01	3690992	33941	3515
Heart failure	1DR	Son	3.87	3.47	4.27	0.20	0.47	0.43	0.51	0.02	3690992	8359	782
Angina pectoris	1DR	Son	2.44	2.27	2.61	0.09	0.38	0.35	0.41	0.02	3690992	23166	4210
Myocardial infarction	1DR	Son	2.44	1.93	2.95	0.26	0.29	0.22	0.36	0.04	3690992	15492	897
ADHD	1DR	Daughter	4.18	4.11	4.26	0.04	0.71	0.70	0.72	0.01	3643260	242837	14752
Autism	1DR	Daughter	9.17	8.52	9.82	0.33	0.73	0.71	0.76	0.01	3643260	44758	947
Hypertension	1DR	Daughter	1.14	1.13	1.14	0.00	0.17	0.17	0.18	0.00	3643260	854555	513106
Type-2 diabetes	1DR	Daughter	2.28	2.26	2.31	0.01	0.49	0.48	0.50	0.00	3643260	136667	39429
Dyslipidemia	1DR	Daughter	1.64	1.62	1.65	0.01	0.48	0.47	0.49	0.00	3643260	118387	79324
Stroke	1DR	Daughter	1.61	1.55	1.67	0.03	0.19	0.18	0.21	0.01	3643260	38731	4147
Heart failure	1DR	Daughter	3.27	2.91	3.63	0.18	0.40	0.36	0.44	0.02	3643260	7755	657
Angina pectoris	1DR	Daughter	2.49	2.28	2.70	0.11	0.39	0.35	0.42	0.02	3643260	15503	2894
Myocardial infarction	1DR	Daughter	1.74	1.28	2.21	0.24	0.17	0.09	0.26	0.04	3643260	5595	304
ADHD	1DR	Sibling	2.59	2.57	2.61	0.01	0.44	0.43	0.44	0.00	7758936	509015	78391
Autism	1DR	Sibling	4.44	4.32	4.56	0.06	0.45	0.44	0.46	0.00	7758936	114552	6690
Hypertension	1DR	Sibling	1.25	1.25	1.25	0.00	0.31	0.31	0.32	0.00	7758936	2887200	1148150
Type-2 diabetes	1DR	Sibling	2.68	2.66	2.70	0.01	0.60	0.60	0.61	0.00	7758936	714216	115775
Dyslipidemia	1DR	Sibling	1.68	1.67	1.69	0.00	0.51	0.50	0.51	0.00	7758936	1608674	562416
Stroke	1DR	Sibling	1.95	1.90	2.00	0.03	0.28	0.26	0.29	0.01	7758936	373871	22758
Heart failure	1DR	Sibling	6.40	5.84	6.96	0.29	0.69	0.66	0.73	0.02	7758936	128491	4722
Angina pectoris	1DR	Sibling	2.18	2.14	2.23	0.02	0.32	0.31	0.33	0.00	7758936	360983	31458
Myocardial infarction	1DR	Sibling	2.27	2.16	2.39	0.06	0.26	0.25	0.28	0.01	7758936	158235	5339
ADHD	1DR	Brother	2.58	2.55	2.61	0.01	0.44	0.43	0.44	0.00	5183982	317764	49880

Outcome	Type of the relation	Relation	λ	λ 95% CI_Low	λ 95% CI_High	λ SE	h^2	h^2 95% CI_Low	h^2 95% CI_High	h^2 SE	Sample size	n_exposed	Number of outcome cases in the exposed group
Autism	1DR	Brother	4.42	4.27	4.57	0.08	0.45	0.44	0.46	0.01	5183982	80869	4584
Hypertension	1DR	Brother	1.28	1.28	1.29	0.00	0.36	0.35	0.36	0.00	5183982	1552747	688762
Type-2 diabetes	1DR	Brother	2.80	2.77	2.83	0.02	0.64	0.63	0.64	0.00	5183982	406553	71431
Dyslipidemia	1DR	Brother	1.62	1.61	1.63	0.01	0.47	0.46	0.47	0.00	5183982	1082030	386639
Stroke	1DR	Brother	1.83	1.77	1.90	0.03	0.25	0.23	0.26	0.01	5183982	209413	12915
Heart failure	1DR	Brother	5.96	5.28	6.63	0.34	0.66	0.61	0.70	0.02	5183982	76602	2822
Angina pectoris	1DR	Brother	2.16	2.11	2.21	0.03	0.32	0.31	0.33	0.01	5183982	235017	20824
Myocardial infarction	1DR	Brother	2.22	2.10	2.35	0.06	0.26	0.24	0.27	0.01	5183982	117135	3901
ADHD	1DR	Sister	2.83	2.80	2.86	0.02	0.49	0.48	0.49	0.00	5136529	207816	33335
Autism	1DR	Sister	4.91	4.65	5.16	0.13	0.49	0.47	0.50	0.01	5136529	34919	2291
Hypertension	1DR	Sister	1.24	1.23	1.24	0.00	0.30	0.29	0.30	0.00	5136529	1910046	763591
Type-2 diabetes	1DR	Sister	2.71	2.69	2.74	0.01	0.61	0.61	0.62	0.00	5136529	371410	62559
Dyslipidemia	1DR	Sister	1.73	1.72	1.74	0.01	0.54	0.53	0.55	0.00	5136529	846309	325435
Stroke	1DR	Sister	2.03	1.96	2.09	0.03	0.29	0.28	0.31	0.01	5136529	177736	11262
Heart failure	1DR	Sister	6.08	5.41	6.76	0.34	0.67	0.62	0.71	0.02	5136529	53424	2069
Angina pectoris	1DR	Sister	2.18	2.12	2.24	0.03	0.32	0.31	0.34	0.01	5136529	145147	13503
Myocardial infarction	1DR	Sister	2.30	2.11	2.49	0.10	0.27	0.24	0.29	0.01	5136529	43440	1598
ADHD	2DR	Any 2DR	1.48	1.47	1.49	0.01	0.33	0.32	0.34	0.00	9850982	1733569	69325
Autism	2DR	Any 2DR	1.93	1.87	2.00	0.03	0.36	0.34	0.38	0.01	9850982	442835	4519
Hypertension	2DR	Any 2DR	1.03	1.03	1.03	0.00	0.08	0.08	0.09	0.00	9850982	7419521	1939699
Type-2 diabetes	2DR	Any 2DR	1.38	1.38	1.39	0.00	0.35	0.34	0.36	0.00	9850982	3028577	162826
Dyslipidemia	2DR	Any 2DR	1.15	1.14	1.15	0.00	0.24	0.24	0.25	0.00	9850982	5563233	556092
Stroke	2DR	Any 2DR	1.14	1.12	1.15	0.01	0.10	0.09	0.11	0.01	9850982	1968129	34650
Heart failure	2DR	Any 2DR	1.37	1.33	1.42	0.02	0.19	0.17	0.21	0.01	9850982	990921	5348
Angina pectoris	2DR	Any 2DR	1.36	1.34	1.38	0.01	0.24	0.23	0.25	0.01	9850982	1823664	27259
Myocardial infarction	2DR	Any 2DR	1.35	1.31	1.39	0.02	0.18	0.16	0.20	0.01	9850982	814179	5590
ADHD	2DR	Aunt/Uncle	1.45	1.44	1.47	0.01	0.31	0.30	0.32	0.01	5677042	297711	34359
Autism	2DR	Aunt/Uncle	1.81	1.72	1.90	0.04	0.32	0.30	0.35	0.01	5677042	65359	2078

Outcome	Type of the relation	Relation	λ	λ 95% CI_Low	λ 95% CI_High	λ SE	h^2	h^2 95% CI_Low	h^2 95% CI_High	h^2 SE	Sample size	n_exposed	Number of outcome cases in the exposed group
Hypertension	2DR	Aunt/Uncle	1.03	1.03	1.03	0.00	0.07	0.07	0.08	0.00	5677042	4640001	772613
Type-2 diabetes	2DR	Aunt/Uncle	1.35	1.34	1.36	0.01	0.32	0.31	0.33	0.01	5677042	1799186	65554
Dyslipidemia	2DR	Aunt/Uncle	1.08	1.07	1.09	0.00	0.13	0.12	0.14	0.01	5677042	3817489	202844
Stroke	2DR	Aunt/Uncle	1.14	1.12	1.16	0.01	0.10	0.08	0.11	0.01	5677042	1172317	14553
Heart failure	2DR	Aunt/Uncle	1.53	1.46	1.61	0.04	0.26	0.23	0.29	0.02	5677042	511680	2216
Angina pectoris	2DR	Aunt/Uncle	1.25	1.22	1.27	0.01	0.17	0.15	0.18	0.01	5677042	1212781	11504
Myocardial infarction	2DR	Aunt/Uncle	1.27	1.22	1.32	0.03	0.14	0.12	0.17	0.01	5677042	533915	2512
ADHD	2DR	Uncle	1.46	1.44	1.48	0.01	0.32	0.31	0.33	0.01	4882166	167005	19060
Autism	2DR	Uncle	1.78	1.69	1.88	0.05	0.31	0.28	0.34	0.02	4882166	49406	1510
Hypertension	2DR	Uncle	1.05	1.04	1.05	0.00	0.12	0.11	0.13	0.00	4882166	3335335	567600
Type-2 diabetes	2DR	Uncle	1.40	1.38	1.42	0.01	0.36	0.35	0.38	0.01	4882166	1164306	43166
Dyslipidemia	2DR	Uncle	1.11	1.10	1.11	0.00	0.18	0.17	0.19	0.01	4882166	2842892	151127
Stroke	2DR	Uncle	1.14	1.11	1.17	0.01	0.10	0.08	0.12	0.01	4882166	686749	8387
Heart failure	2DR	Uncle	1.52	1.42	1.62	0.05	0.26	0.22	0.30	0.02	4882166	306462	1289
Angina pectoris	2DR	Uncle	1.26	1.23	1.30	0.02	0.18	0.16	0.20	0.01	4882166	810594	7555
Myocardial infarction	2DR	Uncle	1.27	1.21	1.34	0.03	0.14	0.11	0.17	0.02	4882166	385065	1701
ADHD	2DR	Aunt	1.53	1.51	1.55	0.01	0.36	0.34	0.37	0.01	4888830	139436	16900
Autism	2DR	Aunt	2.04	1.85	2.23	0.10	0.39	0.34	0.44	0.03	4888830	16483	608
Hypertension	2DR	Aunt	1.05	1.04	1.05	0.00	0.12	0.11	0.13	0.00	4888830	3461008	582051
Type-2 diabetes	2DR	Aunt	1.48	1.46	1.50	0.01	0.43	0.41	0.44	0.01	4888830	939262	37402
Dyslipidemia	2DR	Aunt	1.15	1.14	1.16	0.00	0.25	0.23	0.26	0.01	4888830	2426131	139931
Stroke	2DR	Aunt	1.19	1.16	1.23	0.02	0.14	0.12	0.16	0.01	4888830	575363	7422
Heart failure	2DR	Aunt	1.79	1.65	1.92	0.07	0.36	0.32	0.41	0.02	4888830	216476	1050
Angina pectoris	2DR	Aunt	1.35	1.31	1.39	0.02	0.23	0.21	0.26	0.01	4888830	520137	5438
Myocardial infarction	2DR	Aunt	1.36	1.26	1.45	0.05	0.18	0.14	0.22	0.02	4888830	162064	886
ADHD	2DR	Niece/Nephew	1.39	1.37	1.40	0.01	0.27	0.26	0.28	0.01	4907238	1208998	26857
Autism	2DR	Niece/Nephew	1.77	1.68	1.85	0.04	0.31	0.28	0.34	0.01	4907238	315654	1894
Hypertension	2DR	Niece/Nephew	1.05	1.05	1.05	0.00	0.13	0.12	0.13	0.00	4907238	2075346	1050199

Outcome	Type of the relation	Relation	λ	λ 95% CI_Low	λ 95% CI_High	λ SE	h^2	h^2 95% CI_Low	h^2 95% CI_High	h^2 SE	Sample size	n_exposed	Number of outcome cases in the exposed group
Type-2 diabetes	2DR	Niece/Nephew	1.48	1.47	1.49	0.01	0.43	0.42	0.43	0.01	4907238	488045	76497
Dyslipidemia	2DR	Niece/Nephew	1.27	1.27	1.28	0.00	0.44	0.43	0.44	0.01	4907238	600653	295278
Stroke	2DR	Niece/Nephew	1.21	1.19	1.24	0.01	0.15	0.13	0.17	0.01	4907238	192667	14521
Heart failure	2DR	Niece/Nephew	1.80	1.68	1.91	0.06	0.37	0.33	0.41	0.02	4907238	46554	2082
Angina pectoris	2DR	Niece/Nephew	1.52	1.47	1.56	0.02	0.33	0.30	0.35	0.01	4907238	111976	12210
Myocardial infarction	2DR	Niece/Nephew	1.52	1.41	1.63	0.06	0.26	0.21	0.30	0.02	4907238	61529	2365
ADHD	2DR	Nephew	1.41	1.39	1.43	0.01	0.28	0.27	0.30	0.01	4175156	832299	19018
Autism	2DR	Nephew	1.80	1.70	1.90	0.05	0.32	0.29	0.35	0.02	4175156	224446	1372
Hypertension	2DR	Nephew	1.07	1.07	1.08	0.00	0.19	0.18	0.19	0.00	4175156	989280	533387
Type-2 diabetes	2DR	Nephew	1.55	1.53	1.57	0.01	0.48	0.47	0.50	0.01	4175156	209033	36354
Dyslipidemia	2DR	Nephew	1.29	1.28	1.29	0.00	0.46	0.44	0.47	0.01	4175156	401889	202513
Stroke	2DR	Nephew	1.17	1.13	1.20	0.02	0.12	0.09	0.14	0.01	4175156	95330	77418
Heart failure	2DR	Nephew	1.91	1.75	2.06	0.08	0.41	0.36	0.46	0.03	4175156	25333	1173
Angina pectoris	2DR	Nephew	1.51	1.46	1.56	0.03	0.32	0.29	0.35	0.02	4175156	69671	7645
Myocardial infarction	2DR	Nephew	1.53	1.41	1.66	0.06	0.26	0.21	0.31	0.03	4175156	44991	1738
ADHD	2DR	Niece	1.53	1.50	1.56	0.02	0.36	0.34	0.37	0.01	4144160	528515	11994
Autism	2DR	Niece	1.85	1.70	1.99	0.08	0.34	0.29	0.38	0.02	4144160	10309	630
Hypertension	2DR	Niece	1.06	1.05	1.06	0.00	0.14	0.14	0.15	0.00	4144160	1609417	818371
Type-2 diabetes	2DR	Niece	1.50	1.49	1.52	0.01	0.45	0.44	0.46	0.01	4144160	321020	49930
Dyslipidemia	2DR	Niece	1.29	1.29	1.30	0.00	0.47	0.46	0.48	0.01	4144160	306973	154524
Stroke	2DR	Niece	1.28	1.25	1.31	0.02	0.19	0.17	0.21	0.01	4144160	105255	8225
Heart failure	2DR	Niece	1.81	1.67	1.96	0.07	0.38	0.32	0.43	0.03	4144160	22346	987
Angina pectoris	2DR	Niece	1.52	1.46	1.58	0.03	0.33	0.30	0.36	0.02	4144160	48186	5397
Myocardial infarction	2DR	Niece	1.49	1.30	1.69	0.10	0.24	0.16	0.32	0.04	4144160	17768	690
ADHD	2DR	Grandparent	1.28	1.22	1.34	0.03	0.20	0.16	0.24	0.02	885161	9318	1493
Autism	2DR	Grandparent	2.81	2.07	3.56	0.38	0.59	0.44	0.75	0.08	885161	652	54
Hypertension	2DR	Grandparent	1.01	1.00	1.02	0.00	0.02	0.00	0.05	0.01	885161	808486	72832
Type-2 diabetes	2DR	Grandparent	1.19	1.15	1.23	0.02	0.18	0.15	0.22	0.02	885161	367980	4943

Outcome	Type of the relation	Relation	λ	λ 95% CI_Low	λ 95% CI_High	λ SE	h^2	h^2 95% CI_Low	h^2 95% CI_High	h^2 SE	Sample size	n_exposed	Number of outcome cases in the exposed group
Dyslipidemia	2DR	Grandparent	1.08	1.04	1.13	0.02	0.14	0.06	0.21	0.04	885161	722534	3814
Stroke	2DR	Grandparent	1.15	1.05	1.26	0.05	0.11	0.04	0.18	0.04	885161	195565	613
Heart failure	2DR	Grandparent	1.36	0.97	1.74	0.20	0.18	0.01	0.36	0.09	885161	111333	59
Angina pectoris	2DR	Grandparent	1.05	0.74	1.37	0.16	0.04	-0.19	0.26	0.11	885161	206880	60
Myocardial infarction	2DR	Grandparent	1.44	0.58	2.29	0.44	0.22	-0.14	0.58	0.18	885161	76282	13
ADHD	2DR	Grandfather	1.27	1.18	1.36	0.05	0.20	0.14	0.26	0.03	594150	3733	609
Autism	2DR	Grandfather	2.64	1.87	3.42	0.39	0.55	0.38	0.72	0.09	594150	475	40
Hypertension	2DR	Grandfather	1.02	1.00	1.03	0.01	0.04	0.01	0.07	0.02	594150	479186	41173
Type-2 diabetes	2DR	Grandfather	1.20	1.14	1.26	0.03	0.19	0.14	0.24	0.03	594150	174810	2160
Dyslipidemia	2DR	Grandfather	1.10	1.03	1.16	0.03	0.16	0.06	0.26	0.05	594150	421798	1940
Stroke	2DR	Grandfather	1.05	0.91	1.19	0.07	0.04	-0.06	0.14	0.05	594150	91074	257
Heart failure	2DR	Grandfather	1.17	0.58	1.75	0.30	0.09	-0.21	0.39	0.15	594150	51721	20
Angina pectoris	2DR	Grandfather	1.04	0.57	1.52	0.24	0.03	-0.31	0.37	0.17	594150	108314	25
ADHD	2DR	Grandmother	1.31	1.24	1.39	0.04	0.22	0.18	0.27	0.03	915112	5674	916
Autism	2DR	Grandmother	2.71	1.27	4.15	0.74	0.57	0.26	0.88	0.16	915112	173	13
Hypertension	2DR	Grandmother	1.02	1.01	1.03	0.00	0.05	0.02	0.07	0.01	915112	756066	69244
Type-2 diabetes	2DR	Grandmother	1.25	1.20	1.29	0.02	0.23	0.19	0.27	0.02	915112	254445	3772
Dyslipidemia	2DR	Grandmother	1.13	1.08	1.18	0.03	0.22	0.14	0.30	0.04	915112	609255	3419
Stroke	2DR	Grandmother	1.26	1.13	1.39	0.07	0.18	0.10	0.26	0.04	915112	117483	424
Heart failure	2DR	Grandmother	1.35	0.90	1.81	0.23	0.18	-0.02	0.39	0.11	915112	61632	38
Angina pectoris	2DR	Grandmother	1.10	0.74	1.46	0.18	0.07	-0.17	0.31	0.12	915112	114417	42
ADHD	2DR	Grandchild	1.28	1.19	1.36	0.04	0.20	0.15	0.26	0.03	843145	205888	1190
Autism	2DR	Grandchild	2.58	1.79	3.37	0.41	0.54	0.36	0.72	0.09	843145	53154	48
Hypertension	2DR	Grandchild	1.03	1.02	1.03	0.00	0.07	0.06	0.08	0.01	843145	146940	112250
Type-2 diabetes	2DR	Grandchild	1.31	1.28	1.34	0.02	0.29	0.26	0.32	0.01	843145	19661	5820
Dyslipidemia	2DR	Grandchild	1.15	1.13	1.17	0.01	0.25	0.22	0.28	0.02	843145	8180	5566
Stroke	2DR	Grandchild	1.13	1.05	1.22	0.04	0.10	0.04	0.15	0.03	843145	5602	676
Heart failure	2DR	Grandchild	1.69	1.27	2.11	0.21	0.33	0.17	0.48	0.08	843145	737	68

Outcome	Type of the relation	Relation	λ	λ 95% CI_Low	λ 95% CI_High	λ SE	h^2	h^2 95% CI_Low	h^2 95% CI_High	h^2 SE	Sample size	n_exposed	Number of outcome cases in the exposed group
Angina pectoris	2DR	Grandchild	0.97	0.73	1.21	0.12	-0.02	-0.20	0.16	0.09	843145	548	68
Myocardial infarction	2DR	Grandchild	1.26	0.44	2.08	0.42	0.13	-0.24	0.51	0.19	843145	208	10
ADHD	2DR	Half-sibling	1.47	1.44	1.51	0.02	0.32	0.30	0.35	0.01	425754	51758	6979
Autism	2DR	Half-sibling	2.49	2.26	2.72	0.12	0.52	0.46	0.57	0.03	425754	10745	475
Hypertension	2DR	Half-sibling	1.10	1.08	1.11	0.01	0.25	0.22	0.28	0.02	425754	127461	36370
Type-2 diabetes	2DR	Half-sibling	1.66	1.58	1.73	0.04	0.56	0.51	0.61	0.03	425754	29411	2802
Dyslipidemia	2DR	Half-sibling	1.33	1.30	1.37	0.02	0.53	0.48	0.57	0.02	425754	51856	11919
Stroke	2DR	Half-sibling	1.16	1.03	1.30	0.07	0.11	0.02	0.20	0.05	425754	12437	454
Heart failure	2DR	Half-sibling	3.05	1.98	4.12	0.54	0.75	0.51	0.99	0.12	425754	3682	83
Angina pectoris	2DR	Half-sibling	1.40	1.24	1.56	0.08	0.26	0.17	0.35	0.05	425754	10404	524
Myocardial infarction	2DR	Half-sibling	1.32	0.99	1.64	0.17	0.16	0.02	0.31	0.08	425754	4928	92
ADHD	2DR	Half-brother	1.45	1.41	1.50	0.02	0.31	0.28	0.34	0.01	266959	32152	4338
Autism	2DR	Half-brother	2.49	2.21	2.77	0.14	0.52	0.45	0.58	0.03	266959	7600	333
Hypertension	2DR	Half-brother	1.11	1.09	1.13	0.01	0.28	0.24	0.33	0.02	266959	54133	17410
Type-2 diabetes	2DR	Half-brother	1.65	1.54	1.76	0.06	0.56	0.48	0.64	0.04	266959	13721	1477
Dyslipidemia	2DR	Half-brother	1.32	1.28	1.36	0.02	0.50	0.44	0.56	0.03	266959	30708	7210
Stroke	2DR	Half-brother	1.14	0.94	1.34	0.10	0.10	-0.03	0.23	0.07	266959	6026	220
Heart failure	2DR	Half-brother	4.32	2.43	6.22	0.97	1.03	0.71	1.36	0.17	266959	2068	59
Angina pectoris	2DR	Half-brother	1.32	1.13	1.51	0.10	0.21	0.10	0.33	0.06	266959	6107	315
Myocardial infarction	2DR	Half-brother	1.45	1.04	1.87	0.21	0.23	0.05	0.40	0.09	266959	3443	69
ADHD	2DR	Half-sister	1.54	1.49	1.60	0.03	0.37	0.34	0.40	0.02	277217	21786	3048
Autism	2DR	Half-sister	2.59	2.18	3.00	0.21	0.54	0.45	0.63	0.05	277217	3323	153
Hypertension	2DR	Half-sister	1.09	1.08	1.10	0.01	0.23	0.20	0.27	0.02	277217	86861	24130
Type-2 diabetes	2DR	Half-sister	1.65	1.56	1.74	0.05	0.56	0.49	0.62	0.03	277217	17094	1531
Dyslipidemia	2DR	Half-sister	1.35	1.31	1.39	0.02	0.55	0.49	0.61	0.03	277217	26912	6507
Stroke	2DR	Half-sister	1.21	1.03	1.39	0.09	0.15	0.03	0.26	0.06	277217	6690	249
Heart failure	2DR	Half-sister	2.64	1.29	3.98	0.69	0.64	0.30	0.99	0.18	277217	1662	32
Angina pectoris	2DR	Half-sister	1.49	1.25	1.73	0.12	0.31	0.18	0.44	0.07	277217	4599	230

Outcome	Type of the relation	Relation	λ	λ 95% CI_Low	λ 95% CI_High	λ SE	h^2	h^2 95% CI_Low	h^2 95% CI_High	h^2 SE	Sample size	n_exposed	Number of outcome cases in the exposed group
Myocardial infarction	2DR	Half-sister	1.11	0.58	1.64	0.27	0.06	-0.22	0.34	0.14	277217	1550	24
ADHD	3DR	Cousin	1.18	1.17	1.19	0.00	0.27	0.26	0.28	0.01	6143917	2003683	150999
Autism	3DR	Cousin	1.39	1.36	1.41	0.01	0.35	0.32	0.37	0.01	6143917	563371	10691
Hypertension	3DR	Cousin	1.04	1.04	1.04	0.00	0.21	0.19	0.22	0.01	6143917	3977748	810705
Type-2 diabetes	3DR	Cousin	1.29	1.28	1.30	0.01	0.54	0.52	0.56	0.01	6143917	1256267	59797
Dyslipidemia	3DR	Cousin	1.15	1.14	1.16	0.00	0.49	0.47	0.51	0.01	6143917	1759817	218173
Stroke	3DR	Cousin	1.13	1.10	1.15	0.01	0.18	0.15	0.22	0.02	6143917	585967	12171
Heart failure	3DR	Cousin	1.61	1.50	1.72	0.06	0.59	0.51	0.68	0.04	6143917	166005	1494
Angina pectoris	3DR	Cousin	1.31	1.28	1.33	0.01	0.41	0.38	0.44	0.02	6143917	428328	11633
Myocardial infarction	3DR	Cousin	1.26	1.20	1.31	0.03	0.27	0.22	0.33	0.03	6143917	228302	2642
ADHD	3DR	Cousin-male	1.21	1.21	1.22	0.00	0.31	0.30	0.33	0.01	5734135	1403789	110041
Autism	3DR	Cousin-male	1.40	1.37	1.44	0.02	0.36	0.33	0.39	0.01	5734135	404451	7674
Hypertension	3DR	Cousin-male	1.07	1.06	1.07	0.00	0.34	0.32	0.36	0.01	5734135	2350871	528315
Type-2 diabetes	3DR	Cousin-male	1.34	1.32	1.36	0.01	0.63	0.60	0.66	0.02	5734135	637735	35393
Dyslipidemia	3DR	Cousin-male	1.18	1.17	1.18	0.00	0.57	0.55	0.60	0.01	5734135	1276901	167999
Stroke	3DR	Cousin-male	1.16	1.13	1.19	0.02	0.23	0.18	0.27	0.02	5734135	311974	6906
Heart failure	3DR	Cousin-male	1.58	1.44	1.72	0.07	0.57	0.45	0.68	0.06	5734135	95959	898
Angina pectoris	3DR	Cousin-male	1.31	1.27	1.34	0.02	0.41	0.37	0.46	0.02	5734135	279327	7808
Myocardial infarction	3DR	Cousin-male	1.26	1.19	1.32	0.03	0.27	0.21	0.33	0.03	5734135	170022	1981
ADHD	3DR	Cousin-female	1.25	1.24	1.26	0.00	0.37	0.35	0.38	0.01	5723959	966326	74068
Autism	3DR	Cousin-female	1.48	1.43	1.53	0.03	0.42	0.38	0.45	0.02	5723959	188212	3779
Hypertension	3DR	Cousin-female	1.05	1.05	1.05	0.00	0.26	0.25	0.28	0.01	5723959	3260095	668376
Type-2 diabetes	3DR	Cousin-female	1.33	1.32	1.35	0.01	0.61	0.59	0.64	0.01	5723959	803891	37370
Dyslipidemia	3DR	Cousin-female	1.23	1.22	1.24	0.00	0.74	0.71	0.76	0.01	5723959	996654	138997
Stroke	3DR	Cousin-female	1.17	1.14	1.21	0.02	0.24	0.20	0.29	0.02	5723959	317278	6698
Heart failure	3DR	Cousin-female	1.81	1.64	1.99	0.09	0.75	0.63	0.88	0.06	5723959	76127	699
Angina pectoris	3DR	Cousin-female	1.38	1.34	1.43	0.02	0.50	0.45	0.55	0.03	5723959	187213	5476
Myocardial infarction	3DR	Cousin-female	1.30	1.20	1.40	0.05	0.32	0.22	0.41	0.05	5723959	65966	782

Outcome	Type of the relation	Relation	λ	λ 95% CI_Low	λ 95% CI_High	λ SE	h^2	h^2 95% CI_Low	h^2 95% CI_High	h^2 SE	Sample size	n_exposed	Number of outcome cases in the exposed group
ADHD	Spouse	Spouse	3.30	3.22	3.37	0.04	NA	NA	NA	NA	7293494	143234	11882
Autism	Spouse	Spouse	13.62	12.58	14.66	0.53	NA	NA	NA	NA	7293494	20695	1006
Hypertension	Spouse	Spouse	1.10	1.09	1.10	0.00	NA	NA	NA	NA	7293494	2471106	1185190
Type-2 diabetes	Spouse	Spouse	1.74	1.73	1.75	0.01	NA	NA	NA	NA	7293494	524379	86664
Dyslipidemia	Spouse	Spouse	1.23	1.22	1.23	0.00	NA	NA	NA	NA	7293494	1492604	603660
Stroke	Spouse	Spouse	1.23	1.21	1.26	0.01	NA	NA	NA	NA	7293494	228418	14132
Heart failure	Spouse	Spouse	1.60	1.50	1.70	0.05	NA	NA	NA	NA	7293494	83159	2736
Angina pectoris	Spouse	Spouse	1.59	1.56	1.62	0.01	NA	NA	NA	NA	7293494	254971	21526
Myocardial infarction	Spouse	Spouse	1.38	1.31	1.46	0.04	NA	NA	NA	NA	7293494	100332	2292
ADHD	Spouse	Husband	3.32	3.21	3.43	0.06	NA	NA	NA	NA	3646802	80109	5930
Autism	Spouse	Husband	13.94	12.64	15.23	0.66	NA	NA	NA	NA	3646802	13573	528
Hypertension	Spouse	Husband	1.12	1.11	1.12	0.00	NA	NA	NA	NA	3646802	1210036	592385
Type-2 diabetes	Spouse	Husband	1.78	1.75	1.80	0.01	NA	NA	NA	NA	3646802	292957	43406
Dyslipidemia	Spouse	Husband	1.21	1.21	1.22	0.00	NA	NA	NA	NA	3646802	902896	302394
Stroke	Spouse	Husband	1.26	1.22	1.30	0.02	NA	NA	NA	NA	3646802	135953	7088
Heart failure	Spouse	Husband	1.61	1.45	1.77	0.08	NA	NA	NA	NA	3646802	54528	1375
Angina pectoris	Spouse	Husband	1.58	1.54	1.62	0.02	NA	NA	NA	NA	3646802	172610	10770
Myocardial infarction	Spouse	Husband	1.40	1.30	1.49	0.05	NA	NA	NA	NA	3646802	76594	1160
ADHD	Spouse	Wife	3.26	3.15	3.36	0.05	NA	NA	NA	NA	3646692	63125	5952
Autism	Spouse	Wife	14.60	12.67	16.53	0.98	NA	NA	NA	NA	3646692	7122	478
Hypertension	Spouse	Wife	1.10	1.10	1.11	0.00	NA	NA	NA	NA	3646692	1261070	592805
Type-2 diabetes	Spouse	Wife	1.80	1.78	1.81	0.01	NA	NA	NA	NA	3646692	231422	43258
Dyslipidemia	Spouse	Wife	1.24	1.24	1.25	0.00	NA	NA	NA	NA	3646692	589708	301266
Stroke	Spouse	Wife	1.21	1.18	1.24	0.02	NA	NA	NA	NA	3646692	92465	7044
Heart failure	Spouse	Wife	1.60	1.46	1.73	0.07	NA	NA	NA	NA	3646692	28631	1361
Angina pectoris	Spouse	Wife	1.59	1.55	1.63	0.02	NA	NA	NA	NA	3646692	82361	10756
Myocardial infarction	Spouse	Wife	1.42	1.31	1.54	0.06	NA	NA	NA	NA	3646692	23738	1132

Note:

SE: standard error; CI: confidence interval; ADHD: attention-deficit/hyperactivity disorder; 1DR: first-degree relative; 2DR: second-degree relative; 3DR: third-degree relative; NA: not available (Heritability was not estimated from spouses).

Sex-stratified results of grandchildren were unavailable due to the limited number of cases.

eTable 3. Familial aggregation (λ) and heritability estimates in the sensitivity analysis (among individuals aged 18 to 65 years)

Outcome	Type of the relation	Relation	λ	λ _95% CI_Low	λ _95% CI_High	λ _SE	h^2	h^2 _95% CI_Low	h^2 _95% CI_High	h^2 _SE	Sample size	n_exposed	Number of outcome cases in the exposed group
ADHD	1DR	Any 1DR	2.89	0.01	2.87	2.90	0.54	0.53	0.54	0.00	8589798	1001644	128879
Autism	1DR	Any 1DR	5.32	0.05	5.22	5.42	0.55	0.54	0.55	0.00	8589798	229404	10993
Hypertension	1DR	Any 1DR	1.21	0.00	1.21	1.21	0.19	0.19	0.19	0.00	8589798	3970563	993766
Type-2 diabetes	1DR	Any 1DR	2.66	0.01	2.64	2.67	0.48	0.47	0.48	0.00	8589798	896425	85963
Dyslipidemia	1DR	Any 1DR	1.64	0.00	1.64	1.65	0.32	0.32	0.32	0.00	8589798	2027057	263149
Stroke	1DR	Any 1DR	1.81	0.02	1.77	1.85	0.20	0.19	0.20	0.00	8589798	379850	10394
Heart failure	1DR	Any 1DR	4.45	0.11	4.25	4.66	0.40	0.39	0.41	0.01	8589798	103653	1910
Angina pectoris	1DR	Any 1DR	2.41	0.02	2.37	2.46	0.29	0.29	0.30	0.00	8589798	377105	11946
Myocardial infarction	1DR	Any 1DR	2.29	0.05	2.19	2.38	0.23	0.21	0.24	0.01	8589798	169608	2369
ADHD	1DR	Parent	3.73	0.02	3.69	3.76	0.70	0.69	0.70	0.00	3532491	101862	36227
Autism	1DR	Parent	7.91	0.16	7.60	8.23	0.71	0.70	0.73	0.01	3532491	15694	2602
Hypertension	1DR	Parent	1.09	0.00	1.09	1.10	0.09	0.08	0.09	0.00	3532491	1512778	190457
Type-2 diabetes	1DR	Parent	2.17	0.02	2.14	2.21	0.37	0.36	0.38	0.00	3532491	400576	15947
Dyslipidemia	1DR	Parent	1.68	0.02	1.65	1.71	0.34	0.33	0.35	0.01	3532491	1014074	18072
Stroke	1DR	Parent	1.92	0.05	1.82	2.03	0.22	0.20	0.24	0.01	3532491	179547	1436
Heart failure	1DR	Parent	6.68	0.43	5.84	7.52	0.53	0.49	0.57	0.02	3532491	51564	289
Angina pectoris	1DR	Parent	2.55	0.12	2.31	2.79	0.31	0.28	0.35	0.02	3532491	208107	523
Myocardial infarction	1DR	Parent	2.23	0.25	1.74	2.72	0.22	0.16	0.28	0.03	3532491	90392	86
ADHD	1DR	Both parents	6.31	0.15	6.02	6.61	0.51	0.49	0.52	0.01	3532491	2753	1725
Autism	1DR	Both parents	15.74	2.36	11.12	20.36	0.49	0.42	0.55	0.03	3532491	136	44
Hypertension	1DR	Both parents	1.38	0.01	1.37	1.39	0.16	0.16	0.17	0.00	3532491	361488	56725
Type-2 diabetes	1DR	Both parents	4.52	0.10	4.32	4.72	0.39	0.37	0.40	0.01	3532491	24954	1980
Dyslipidemia	1DR	Both parents	3.59	0.07	3.46	3.72	0.47	0.45	0.48	0.01	3532491	137536	4348
Stroke	1DR	Both parents	3.21	0.58	2.08	4.34	0.20	0.14	0.27	0.03	3532491	2849	35
Angina pectoris	1DR	Both parents	5.38	1.15	3.12	7.64	0.30	0.22	0.38	0.04	3532491	4861	26
ADHD	1DR	Father	3.63	0.02	3.59	3.68	0.68	0.67	0.69	0.00	2636298	49996	17603

Outcome	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	h^2	$h^2_{95\% \text{ CI_Low}}$	$h^2_{95\% \text{ CI_High}}$	h^2_{SE}	Sample size	n_exposed	Number of outcome cases in the exposed group
Autism	1DR	Father	7.18	0.17	6.86	7.51	0.67	0.65	0.69	0.01	2636298	11227	1732
Hypertension	1DR	Father	1.15	0.00	1.14	1.16	0.14	0.13	0.15	0.00	2636298	934897	120879
Type-2 diabetes	1DR	Father	2.22	0.03	2.16	2.27	0.38	0.37	0.39	0.01	2636298	226246	8310
Dyslipidemia	1DR	Father	1.85	0.02	1.80	1.89	0.41	0.39	0.42	0.01	2636298	693471	10957
Stroke	1DR	Father	1.65	0.08	1.51	1.80	0.16	0.13	0.19	0.01	2636298	91141	577
Heart failure	1DR	Father	6.04	0.60	4.85	7.22	0.50	0.44	0.55	0.03	2636298	28534	127
Angina pectoris	1DR	Father	2.56	0.19	2.20	2.93	0.32	0.27	0.37	0.03	2636298	128191	253
Myocardial infarction	1DR	Father	1.95	0.31	1.35	2.55	0.18	0.10	0.26	0.04	2636298	65847	45
ADHD	1DR	Mother	4.03	0.02	3.99	4.08	0.75	0.74	0.75	0.00	3392603	57363	22068
Autism	1DR	Mother	9.88	0.31	9.27	10.49	0.81	0.79	0.83	0.01	3392603	4738	957
Hypertension	1DR	Mother	1.20	0.00	1.19	1.20	0.18	0.17	0.19	0.00	3392603	1300694	183005
Type-2 diabetes	1DR	Mother	2.63	0.03	2.58	2.69	0.47	0.46	0.48	0.01	3392603	224235	11597
Dyslipidemia	1DR	Mother	2.18	0.02	2.13	2.22	0.53	0.52	0.55	0.01	3392603	595636	15810
Stroke	1DR	Mother	2.24	0.08	2.09	2.40	0.27	0.25	0.30	0.01	3392603	94103	929
Heart failure	1DR	Mother	8.67	0.74	7.23	10.12	0.62	0.57	0.67	0.03	3392603	23566	176
Angina pectoris	1DR	Mother	2.86	0.18	2.50	3.22	0.36	0.31	0.40	0.02	3392603	89635	322
Myocardial infarction	1DR	Mother	3.08	0.47	2.15	4.01	0.32	0.23	0.40	0.04	3392603	25761	49
ADHD	1DR	Offspring	3.47	0.02	3.42	3.51	0.65	0.64	0.66	0.00	3094330	464616	30673
Autism	1DR	Offspring	7.50	0.18	7.16	7.84	0.69	0.67	0.71	0.01	3094330	108785	2359
Hypertension	1DR	Offspring	1.18	0.00	1.17	1.18	0.16	0.16	0.17	0.00	3094330	572769	263152
Type-2 diabetes	1DR	Offspring	2.48	0.02	2.44	2.52	0.44	0.43	0.45	0.00	3094330	87038	18065
Dyslipidemia	1DR	Offspring	2.14	0.01	2.11	2.16	0.52	0.51	0.53	0.00	3094330	46075	23713
Stroke	1DR	Offspring	1.85	0.05	1.75	1.96	0.20	0.18	0.22	0.01	3094330	21627	1381
Heart failure	1DR	Offspring	6.90	0.54	5.84	7.97	0.54	0.50	0.59	0.02	3094330	3969	259
Angina pectoris	1DR	Offspring	3.24	0.21	2.84	3.65	0.41	0.36	0.45	0.02	3094330	3977	561
Myocardial infarction	1DR	Offspring	2.34	0.41	1.55	3.14	0.23	0.14	0.33	0.05	3094330	1972	92
ADHD	1DR	Son	3.38	0.03	3.32	3.44	0.63	0.62	0.64	0.00	2192558	318381	21352
Autism	1DR	Son	7.05	0.20	6.66	7.44	0.66	0.64	0.68	0.01	2192558	76976	1654

Outcome	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	h^2	$h^2_{95\% \text{ CI_Low}}$	$h^2_{95\% \text{ CI_High}}$	h^2_{SE}	Sample size	n_{exposed}	Number of outcome cases in the exposed group
Hypertension	1DR	Son	1.20	0.00	1.19	1.21	0.18	0.18	0.19	0.00	2192558	189424	88619
Type-2 diabetes	1DR	Son	2.46	0.03	2.40	2.53	0.43	0.42	0.45	0.01	2192558	25213	5096
Dyslipidemia	1DR	Son	2.17	0.02	2.13	2.21	0.53	0.52	0.54	0.01	2192558	24403	12913
Stroke	1DR	Son	1.80	0.08	1.65	1.95	0.19	0.17	0.22	0.01	2192558	9956	598
Heart failure	1DR	Son	8.05	0.76	6.56	9.54	0.60	0.54	0.65	0.03	2192558	1982	152
Angina pectoris	1DR	Son	3.13	0.23	2.67	3.59	0.39	0.34	0.45	0.03	2192558	2297	316
Myocardial infarction	1DR	Son	2.70	0.52	1.69	3.72	0.28	0.17	0.38	0.05	2192558	1384	71
ADHD	1DR	Daughter	4.30	0.04	4.22	4.38	0.79	0.78	0.80	0.01	2138817	174527	13357
Autism	1DR	Daughter	9.31	0.35	8.63	9.99	0.78	0.75	0.81	0.01	2138817	34037	850
Hypertension	1DR	Daughter	1.17	0.00	1.17	1.18	0.16	0.15	0.16	0.00	2138817	414373	190968
Type-2 diabetes	1DR	Daughter	2.50	0.02	2.46	2.55	0.44	0.43	0.45	0.00	2138817	63434	13617
Dyslipidemia	1DR	Daughter	2.12	0.02	2.09	2.16	0.51	0.50	0.53	0.01	2138817	23661	12138
Stroke	1DR	Daughter	2.00	0.07	1.85	2.14	0.23	0.21	0.25	0.01	2138817	11858	838
Heart failure	1DR	Daughter	6.37	0.66	5.07	7.67	0.52	0.46	0.57	0.03	2138817	2057	131
Angina pectoris	1DR	Daughter	3.36	0.34	2.69	4.03	0.42	0.35	0.50	0.04	2138817	1698	250
Myocardial infarction	1DR	Daughter	1.59	0.46	0.70	2.49	0.12	-0.03	0.27	0.08	2138817	590	21
ADHD	1DR	Sibling	2.59	0.01	2.57	2.61	0.47	0.47	0.48	0.00	6735541	483860	77914
Autism	1DR	Sibling	4.42	0.06	4.30	4.54	0.47	0.46	0.48	0.00	6735541	108572	6641
Hypertension	1DR	Sibling	1.34	0.00	1.33	1.34	0.30	0.30	0.30	0.00	6735541	2007543	635824
Type-2 diabetes	1DR	Sibling	3.15	0.02	3.11	3.18	0.58	0.57	0.58	0.00	6735541	418309	55986
Dyslipidemia	1DR	Sibling	2.31	0.01	2.29	2.33	0.58	0.57	0.59	0.00	6735541	868299	228672
Stroke	1DR	Sibling	2.51	0.05	2.42	2.61	0.32	0.30	0.33	0.01	6735541	178589	7890
Heart failure	1DR	Sibling	11.48	0.61	10.29	12.68	0.73	0.69	0.76	0.02	6735541	48289	1455
Angina pectoris	1DR	Sibling	2.75	0.05	2.66	2.84	0.34	0.33	0.36	0.01	6735541	161171	10908
Myocardial infarction	1DR	Sibling	2.68	0.10	2.49	2.88	0.27	0.25	0.30	0.01	6735541	76824	2191
ADHD	1DR	Brother	2.57	0.01	2.55	2.60	0.47	0.46	0.47	0.00	4356925	303473	49607
Autism	1DR	Brother	4.41	0.08	4.26	4.56	0.47	0.46	0.49	0.01	4356925	76161	4552
Hypertension	1DR	Brother	1.39	0.00	1.39	1.40	0.35	0.34	0.35	0.00	4356925	938647	330332

Outcome	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	h^2	$h^2_{95\% \text{ CI_Low}}$	$h^2_{95\% \text{ CI_High}}$	h^2_{SE}	Sample size	n_exposed	Number of outcome cases in the exposed group
Type-2 diabetes	1DR	Brother	3.38	0.03	3.32	3.43	0.62	0.61	0.63	0.00	4356925	215223	32035
Dyslipidemia	1DR	Brother	2.25	0.01	2.22	2.27	0.56	0.55	0.57	0.00	4356925	560019	149849
Stroke	1DR	Brother	2.40	0.06	2.28	2.52	0.30	0.28	0.32	0.01	4356925	93908	4112
Heart failure	1DR	Brother	11.18	0.78	9.64	12.72	0.72	0.67	0.76	0.02	4356925	28221	852
Angina pectoris	1DR	Brother	2.79	0.06	2.67	2.91	0.35	0.33	0.36	0.01	4356925	102600	7065
Myocardial infarction	1DR	Brother	2.67	0.11	2.46	2.89	0.27	0.25	0.30	0.01	4356925	57930	1660
ADHD	1DR	Sister	2.82	0.02	2.79	2.86	0.52	0.52	0.53	0.00	4303520	196516	33105
Autism	1DR	Sister	4.80	0.12	4.57	5.03	0.51	0.49	0.52	0.01	4303520	33628	2274
Hypertension	1DR	Sister	1.32	0.00	1.31	1.32	0.28	0.28	0.29	0.00	4303520	1304479	407208
Type-2 diabetes	1DR	Sister	3.14	0.02	3.10	3.18	0.58	0.57	0.58	0.00	4303520	227448	30383
Dyslipidemia	1DR	Sister	2.38	0.01	2.35	2.41	0.61	0.60	0.62	0.00	4303520	403027	116170
Stroke	1DR	Sister	2.70	0.06	2.58	2.82	0.34	0.33	0.36	0.01	4303520	88026	4186
Heart failure	1DR	Sister	11.53	0.79	9.98	13.08	0.73	0.68	0.77	0.02	4303520	20552	671
Angina pectoris	1DR	Sister	2.73	0.06	2.61	2.86	0.34	0.33	0.36	0.01	4303520	63404	4505
Myocardial infarction	1DR	Sister	2.71	0.18	2.35	3.07	0.28	0.24	0.31	0.02	4303520	19605	578
ADHD	2DR	Any 2DR	1.50	0.01	1.49	1.51	0.37	0.36	0.37	0.00	7236980	1138090	60929
Autism	2DR	Any 2DR	1.96	0.03	1.89	2.02	0.39	0.37	0.41	0.01	7236980	288074	4042
Hypertension	2DR	Any 2DR	1.06	0.00	1.06	1.06	0.12	0.11	0.12	0.00	7236980	4017372	827728
Type-2 diabetes	2DR	Any 2DR	1.56	0.01	1.55	1.58	0.40	0.39	0.41	0.00	7236980	1054750	51534
Dyslipidemia	2DR	Any 2DR	1.33	0.00	1.32	1.34	0.35	0.34	0.36	0.00	7236980	2263264	130007
Stroke	2DR	Any 2DR	1.31	0.02	1.27	1.34	0.17	0.15	0.19	0.01	7236980	508476	7017
Heart failure	2DR	Any 2DR	2.03	0.08	1.88	2.18	0.35	0.31	0.39	0.02	7236980	149488	810
Angina pectoris	2DR	Any 2DR	1.59	0.03	1.54	1.64	0.29	0.27	0.31	0.01	7236980	513230	4417
Myocardial infarction	2DR	Any 2DR	1.60	0.05	1.50	1.71	0.25	0.21	0.28	0.02	7236980	236369	1034
ADHD	2DR	Aunt/Uncle	1.49	0.01	1.47	1.50	0.36	0.35	0.37	0.01	4332781	241633	31014
Autism	2DR	Aunt/Uncle	1.85	0.04	1.76	1.94	0.35	0.33	0.38	0.01	4332781	53338	1881
Hypertension	2DR	Aunt/Uncle	1.06	0.00	1.05	1.06	0.11	0.10	0.12	0.00	4332781	2888604	398226
Type-2 diabetes	2DR	Aunt/Uncle	1.52	0.01	1.50	1.54	0.37	0.36	0.38	0.01	4332781	800411	24298

Outcome	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	h^2	$h^2_{95\% \text{ CI_Low}}$	$h^2_{95\% \text{ CI_High}}$	h^2_{SE}	Sample size	n_exposed	Number of outcome cases in the exposed group
Dyslipidemia	2DR	Aunt/Uncle	1.25	0.01	1.24	1.26	0.27	0.26	0.28	0.01	4332781	2030911	59544
Stroke	2DR	Aunt/Uncle	1.30	0.02	1.25	1.35	0.17	0.14	0.19	0.01	4332781	424363	3409
Heart failure	2DR	Aunt/Uncle	2.14	0.11	1.92	2.36	0.38	0.32	0.43	0.03	4332781	130659	401
Angina pectoris	2DR	Aunt/Uncle	1.48	0.04	1.41	1.55	0.24	0.21	0.27	0.02	4332781	474964	2074
Myocardial infarction	2DR	Aunt/Uncle	1.52	0.07	1.38	1.66	0.22	0.17	0.27	0.02	4332781	216367	492
ADHD	2DR	Uncle	1.49	0.01	1.47	1.51	0.36	0.34	0.37	0.01	3456798	136566	17208
Autism	2DR	Uncle	1.83	0.05	1.73	1.93	0.35	0.32	0.38	0.02	3456798	39644	1355
Hypertension	2DR	Uncle	1.07	0.00	1.07	1.08	0.14	0.13	0.15	0.00	3456798	1780673	248695
Type-2 diabetes	2DR	Uncle	1.53	0.01	1.50	1.55	0.38	0.36	0.39	0.01	3456798	497137	15244
Dyslipidemia	2DR	Uncle	1.26	0.01	1.24	1.28	0.28	0.27	0.30	0.01	3456798	1391610	39679
Stroke	2DR	Uncle	1.30	0.03	1.23	1.36	0.16	0.13	0.19	0.02	3456798	237886	1910
Heart failure	2DR	Uncle	2.05	0.14	1.77	2.32	0.35	0.29	0.42	0.03	3456798	79518	232
Angina pectoris	2DR	Uncle	1.43	0.04	1.34	1.51	0.22	0.18	0.26	0.02	3456798	308583	1268
Myocardial infarction	2DR	Uncle	1.50	0.08	1.34	1.66	0.21	0.16	0.27	0.03	3456798	163053	363
ADHD	2DR	Aunt	1.56	0.01	1.54	1.59	0.40	0.39	0.42	0.01	3464015	112796	15252
Autism	2DR	Aunt	2.04	0.09	1.87	2.22	0.42	0.36	0.47	0.03	3464015	14169	564
Hypertension	2DR	Aunt	1.08	0.00	1.07	1.08	0.14	0.13	0.15	0.00	3464015	1930043	266773
Type-2 diabetes	2DR	Aunt	1.64	0.02	1.61	1.67	0.44	0.43	0.46	0.01	3464015	388014	12668
Dyslipidemia	2DR	Aunt	1.37	0.01	1.35	1.39	0.39	0.37	0.41	0.01	3464015	1048790	33188
Stroke	2DR	Aunt	1.40	0.04	1.33	1.47	0.21	0.18	0.25	0.02	3464015	202651	1735
Heart failure	2DR	Aunt	2.58	0.20	2.20	2.96	0.48	0.40	0.55	0.04	3464015	53208	188
Angina pectoris	2DR	Aunt	1.63	0.06	1.52	1.74	0.31	0.27	0.36	0.02	3464015	190878	947
Myocardial infarction	2DR	Aunt	1.57	0.14	1.30	1.83	0.24	0.15	0.32	0.05	3464015	56889	138
ADHD	2DR	Niece/Nephew	1.40	0.01	1.38	1.42	0.30	0.29	0.31	0.01	3267506	851363	24289
Autism	2DR	Niece/Nephew	1.80	0.05	1.71	1.89	0.34	0.31	0.37	0.02	3267506	223101	1707
Hypertension	2DR	Niece/Nephew	1.07	0.00	1.06	1.07	0.13	0.12	0.13	0.00	3267506	1114821	431349
Type-2 diabetes	2DR	Niece/Nephew	1.59	0.01	1.57	1.62	0.42	0.40	0.43	0.01	3267506	229373	26120
Dyslipidemia	2DR	Niece/Nephew	1.45	0.01	1.44	1.46	0.47	0.45	0.48	0.01	3267506	189810	66820

Outcome	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	h^2	$h^2_{95\% \text{ CI_Low}}$	$h^2_{95\% \text{ CI_High}}$	h^2_{SE}	Sample size	n_exposed	Number of outcome cases in the exposed group
Stroke	2DR	Niece/Nephew	1.31	0.03	1.26	1.36	0.17	0.15	0.20	0.01	3267506	72726	3426
Heart failure	2DR	Niece/Nephew	2.42	0.15	2.12	2.72	0.44	0.38	0.51	0.03	3267506	15389	381
Angina pectoris	2DR	Niece/Nephew	1.69	0.05	1.60	1.78	0.33	0.30	0.37	0.02	3267506	27302	2163
Myocardial infarction	2DR	Niece/Nephew	1.68	0.11	1.47	1.88	0.27	0.21	0.34	0.03	3267506	15152	496
ADHD	2DR	Nephew	1.42	0.01	1.40	1.45	0.31	0.30	0.33	0.01	2700867	601952	17327
Autism	2DR	Nephew	1.82	0.05	1.71	1.93	0.34	0.31	0.38	0.02	2700867	159250	1232
Hypertension	2DR	Nephew	1.09	0.00	1.09	1.10	0.17	0.16	0.18	0.00	2700867	465387	187841
Type-2 diabetes	2DR	Nephew	1.67	0.02	1.63	1.70	0.46	0.44	0.48	0.01	2700867	79698	9757
Dyslipidemia	2DR	Nephew	1.47	0.01	1.45	1.48	0.48	0.47	0.50	0.01	2700867	116123	42172
Stroke	2DR	Nephew	1.23	0.03	1.16	1.30	0.13	0.09	0.16	0.02	2700867	34072	1535
Heart failure	2DR	Nephew	2.72	0.23	2.28	3.17	0.51	0.42	0.59	0.04	2700867	7980	202
Angina pectoris	2DR	Nephew	1.68	0.06	1.56	1.80	0.33	0.29	0.38	0.02	2700867	16183	1289
Myocardial infarction	2DR	Nephew	1.71	0.12	1.47	1.95	0.28	0.21	0.36	0.04	2700867	10828	359
ADHD	2DR	Niece	1.55	0.02	1.51	1.58	0.39	0.38	0.41	0.01	2667915	357488	10688
Autism	2DR	Niece	1.92	0.08	1.76	2.08	0.38	0.33	0.43	0.03	2667915	72831	575
Hypertension	2DR	Niece	1.07	0.00	1.07	1.08	0.14	0.13	0.14	0.00	2667915	862154	336057
Type-2 diabetes	2DR	Niece	1.61	0.01	1.59	1.64	0.43	0.41	0.44	0.01	2667915	164017	18984
Dyslipidemia	2DR	Niece	1.47	0.01	1.45	1.48	0.48	0.47	0.50	0.01	2667915	97558	35200
Stroke	2DR	Niece	1.44	0.03	1.37	1.51	0.23	0.20	0.26	0.02	2667915	40592	2072
Heart failure	2DR	Niece	2.44	0.19	2.07	2.81	0.45	0.37	0.52	0.04	2667915	7753	216
Angina pectoris	2DR	Niece	1.66	0.06	1.53	1.78	0.32	0.27	0.37	0.03	2667915	12073	988
Myocardial infarction	2DR	Niece	1.63	0.18	1.29	1.98	0.26	0.15	0.37	0.06	2667915	4538	148
ADHD	2DR	Grandparent	1.62	0.12	1.40	1.85	0.44	0.31	0.57	0.07	46385	630	149
Hypertension	2DR	Grandparent	1.02	0.03	0.97	1.07	0.04	-0.06	0.13	0.05	46385	31995	2204
Type-2 diabetes	2DR	Grandparent	1.26	0.13	1.01	1.51	0.20	0.03	0.37	0.09	46385	11913	138
Dyslipidemia	2DR	Grandparent	1.16	0.13	0.89	1.42	0.17	-0.10	0.45	0.14	46385	24672	113
Stroke	2DR	Grandparent	1.15	0.36	0.44	1.87	0.09	-0.30	0.47	0.20	46385	3727	11
ADHD	2DR	Grandfather	1.32	0.18	0.96	1.69	0.25	0.00	0.49	0.12	13656	205	39

Outcome	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	h^2	$h^2_{95\% \text{ CI_Low}}$	$h^2_{95\% \text{ CI_High}}$	h^2_{SE}	Sample size	n_exposed	Number of outcome cases in the exposed group
Hypertension	2DR	Grandfather	1.03	0.05	0.93	1.13	0.05	-0.14	0.24	0.10	13656	8326	573
Type-2 diabetes	2DR	Grandfather	1.02	0.20	0.62	1.41	0.01	-0.31	0.33	0.16	13656	3279	33
Dyslipidemia	2DR	Grandfather	1.26	0.22	0.82	1.69	0.28	-0.15	0.70	0.22	13656	7384	47
ADHD	2DR	Grandmother	1.71	0.14	1.44	1.98	0.49	0.35	0.64	0.08	43042	432	110
Hypertension	2DR	Grandmother	1.03	0.03	0.97	1.09	0.05	-0.05	0.16	0.05	43042	27865	1910
Type-2 diabetes	2DR	Grandmother	1.33	0.14	1.06	1.60	0.25	0.07	0.43	0.09	43042	9344	116
Dyslipidemia	2DR	Grandmother	1.24	0.16	0.92	1.55	0.26	-0.05	0.57	0.16	43042	20121	89
ADHD	2DR	Grandchild	1.47	0.15	1.18	1.76	0.35	0.17	0.52	0.09	40801	8339	129
Hypertension	2DR	Grandchild	1.03	0.01	1.01	1.06	0.07	0.01	0.12	0.03	40801	3702	2375
Type-2 diabetes	2DR	Grandchild	1.25	0.10	1.06	1.44	0.19	0.06	0.32	0.07	40801	527	140
Dyslipidemia	2DR	Grandchild	1.22	0.08	1.08	1.37	0.25	0.10	0.39	0.08	40801	251	128
ADHD	2DR	Half-sibling	1.47	0.02	1.44	1.51	0.35	0.32	0.37	0.01	398082	50859	6964
Autism	2DR	Half-sibling	2.48	0.12	2.25	2.71	0.54	0.48	0.60	0.03	398082	10590	473
Hypertension	2DR	Half-sibling	1.11	0.01	1.09	1.12	0.20	0.18	0.23	0.01	398082	107901	25611
Type-2 diabetes	2DR	Half-sibling	1.75	0.05	1.65	1.84	0.51	0.46	0.56	0.03	398082	22721	1673
Dyslipidemia	2DR	Half-sibling	1.46	0.02	1.42	1.51	0.48	0.44	0.52	0.02	398082	36234	5611
Stroke	2DR	Half-sibling	1.22	0.09	1.03	1.40	0.12	0.03	0.22	0.05	398082	8792	208
Heart failure	2DR	Half-sibling	4.29	0.94	2.45	6.14	0.78	0.54	1.01	0.12	398082	2137	33
Angina pectoris	2DR	Half-sibling	1.57	0.12	1.32	1.81	0.28	0.19	0.38	0.05	398082	6530	203
Myocardial infarction	2DR	Half-sibling	1.47	0.23	1.01	1.93	0.20	0.04	0.36	0.08	398082	3338	47
ADHD	2DR	Half-brother	1.45	0.02	1.41	1.50	0.34	0.31	0.36	0.01	248403	31688	4334
Autism	2DR	Half-brother	2.48	0.14	2.21	2.76	0.54	0.47	0.61	0.03	248403	7477	332
Hypertension	2DR	Half-brother	1.12	0.01	1.10	1.15	0.23	0.19	0.27	0.02	248403	42345	10904
Type-2 diabetes	2DR	Half-brother	1.75	0.07	1.61	1.90	0.51	0.44	0.59	0.04	248403	9626	774
Dyslipidemia	2DR	Half-brother	1.44	0.03	1.38	1.51	0.46	0.41	0.52	0.03	248403	20868	3217
Stroke	2DR	Half-brother	1.24	0.14	0.96	1.51	0.13	-0.01	0.27	0.07	248403	3981	97
Heart failure	2DR	Half-brother	6.62	1.78	3.12	10.11	1.06	0.75	1.37	0.16	248403	1134	23
Angina pectoris	2DR	Half-brother	1.50	0.16	1.18	1.82	0.25	0.12	0.39	0.07	248403	3652	112

Outcome	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	h^2	$h^2_{95\% \text{ CI_Low}}$	$h^2_{95\% \text{ CI_High}}$	h^2_{SE}	Sample size	n_exposed	Number of outcome cases in the exposed group
Myocardial infarction	2DR	Half-brother	1.62	0.30	1.03	2.21	0.25	0.06	0.45	0.10	248403	2305	35
ADHD	2DR	Half-sister	1.54	0.03	1.49	1.60	0.39	0.36	0.42	0.02	258109	21341	3035
Autism	2DR	Half-sister	2.59	0.21	2.18	2.99	0.57	0.47	0.66	0.05	258109	3288	152
Hypertension	2DR	Half-sister	1.10	0.01	1.08	1.12	0.19	0.16	0.22	0.02	258109	74436	17326
Type-2 diabetes	2DR	Half-sister	1.73	0.06	1.62	1.84	0.50	0.44	0.56	0.03	258109	13915	986
Dyslipidemia	2DR	Half-sister	1.50	0.03	1.44	1.56	0.51	0.46	0.57	0.03	258109	18164	3003
Stroke	2DR	Half-sister	1.24	0.13	0.99	1.49	0.13	0.01	0.26	0.06	258109	4951	118
Heart failure	2DR	Half-sister	3.51	1.13	1.29	5.72	0.65	0.32	0.99	0.17	258109	1019	13
Angina pectoris	2DR	Half-sister	1.62	0.18	1.27	1.98	0.31	0.17	0.45	0.07	258109	3010	96
Myocardial infarction	2DR	Half-sister	1.27	0.39	0.50	2.03	0.12	-0.19	0.43	0.16	258109	1063	12
ADHD	3DR	Cousin	1.18	0.00	1.17	1.19	0.29	0.27	0.30	0.01	6014202	1988721	150840
Autism	3DR	Cousin	1.39	0.01	1.36	1.41	0.36	0.34	0.39	0.01	6014202	559920	10685
Hypertension	3DR	Cousin	1.04	0.00	1.04	1.05	0.16	0.15	0.18	0.01	6014202	3849423	739875
Type-2 diabetes	3DR	Cousin	1.31	0.01	1.29	1.32	0.46	0.44	0.48	0.01	6014202	1175430	49486
Dyslipidemia	3DR	Cousin	1.19	0.00	1.18	1.19	0.41	0.39	0.42	0.01	6014202	1633618	170627
Stroke	3DR	Cousin	1.14	0.01	1.11	1.17	0.16	0.13	0.19	0.02	6014202	530175	9273
Heart failure	3DR	Cousin	1.74	0.07	1.61	1.88	0.54	0.46	0.62	0.04	6014202	139893	966
Angina pectoris	3DR	Cousin	1.35	0.02	1.31	1.38	0.37	0.34	0.40	0.02	6014202	371488	8132
Myocardial infarction	3DR	Cousin	1.25	0.03	1.19	1.31	0.23	0.17	0.28	0.03	6014202	200458	1932
ADHD	3DR	Cousin-female	1.25	0.00	1.24	1.26	0.39	0.38	0.41	0.01	5599935	958944	73986
Autism	3DR	Cousin-female	1.47	0.03	1.42	1.52	0.43	0.39	0.47	0.02	5599935	187405	3776
Hypertension	3DR	Cousin-female	1.05	0.00	1.05	1.06	0.21	0.19	0.22	0.01	5599935	3146658	607538
Type-2 diabetes	3DR	Cousin-female	1.35	0.01	1.34	1.37	0.53	0.50	0.55	0.01	5599935	755728	31230
Dyslipidemia	3DR	Cousin-female	1.27	0.01	1.26	1.28	0.59	0.57	0.61	0.01	5599935	895840	102914
Stroke	3DR	Cousin-female	1.19	0.02	1.15	1.22	0.21	0.17	0.25	0.02	5599935	287979	5110
Heart failure	3DR	Cousin-female	2.00	0.11	1.77	2.22	0.68	0.57	0.79	0.06	5599935	64823	466
Angina pectoris	3DR	Cousin-female	1.44	0.03	1.39	1.49	0.45	0.41	0.50	0.02	5599935	159800	3710
Myocardial infarction	3DR	Cousin-female	1.32	0.06	1.20	1.44	0.28	0.19	0.38	0.05	5599935	56779	562

Outcome	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	h^2	$h^2_{95\% \text{ CI_Low}}$	$h^2_{95\% \text{ CI_High}}$	h^2_{SE}	Sample size	n_exposed	Number of outcome cases in the exposed group
ADHD	3DR	Cousin-male	1.21	0.00	1.21	1.22	0.34	0.32	0.35	0.01	5610725	1394888	109941
Autism	3DR	Cousin-male	1.40	0.02	1.37	1.44	0.38	0.35	0.40	0.01	5610725	401758	7671
Hypertension	3DR	Cousin-male	1.07	0.00	1.07	1.07	0.27	0.25	0.28	0.01	5610725	2234889	467320
Type-2 diabetes	3DR	Cousin-male	1.36	0.01	1.34	1.38	0.54	0.51	0.57	0.01	5610725	576542	27693
Dyslipidemia	3DR	Cousin-male	1.22	0.00	1.21	1.22	0.47	0.45	0.49	0.01	5610725	1168411	128378
Stroke	3DR	Cousin-male	1.18	0.02	1.14	1.22	0.20	0.16	0.25	0.02	5610725	275942	5090
Heart failure	3DR	Cousin-male	1.69	0.09	1.52	1.87	0.51	0.41	0.61	0.05	5610725	79041	556
Angina pectoris	3DR	Cousin-male	1.36	0.02	1.31	1.40	0.38	0.34	0.42	0.02	5610725	238482	5366
Myocardial infarction	3DR	Cousin-male	1.24	0.04	1.17	1.31	0.22	0.16	0.28	0.03	5610725	149182	1435
ADHD	Spouse	Spouse	3.10	0.03	3.03	3.16	NA	NA	NA	NA	5349448	132622	11540
Autism	Spouse	Spouse	13.40	0.47	12.48	14.33	NA	NA	NA	NA	5349448	19000	990
Hypertension	Spouse	Spouse	1.15	0.00	1.14	1.15	NA	NA	NA	NA	5349448	1288149	426340
Type-2 diabetes	Spouse	Spouse	1.89	0.01	1.87	1.92	NA	NA	NA	NA	5349448	252205	27126
Dyslipidemia	Spouse	Spouse	1.41	0.00	1.40	1.42	NA	NA	NA	NA	5349448	591609	141682
Stroke	Spouse	Spouse	1.34	0.03	1.28	1.40	NA	NA	NA	NA	5349448	90662	2924
Heart failure	Spouse	Spouse	2.17	0.18	1.82	2.52	NA	NA	NA	NA	5349448	23866	304
Angina pectoris	Spouse	Spouse	1.86	0.04	1.79	1.94	NA	NA	NA	NA	5349448	94862	4790
Myocardial infarction	Spouse	Spouse	1.45	0.08	1.28	1.62	NA	NA	NA	NA	5349448	43796	582
ADHD	Spouse	Husband	3.13	0.05	3.04	3.22	NA	NA	NA	NA	2675032	74504	5761
Autism	Spouse	Husband	13.80	0.65	12.53	15.06	NA	NA	NA	NA	2675032	12225	518
Hypertension	Spouse	Husband	1.17	0.00	1.17	1.18	NA	NA	NA	NA	2675032	583663	212871
Type-2 diabetes	Spouse	Husband	1.95	0.02	1.91	2.00	NA	NA	NA	NA	2675032	129286	13568
Dyslipidemia	Spouse	Husband	1.39	0.01	1.38	1.40	NA	NA	NA	NA	2675032	381965	71117
Stroke	Spouse	Husband	1.36	0.04	1.27	1.45	NA	NA	NA	NA	2675032	50763	1466
Heart failure	Spouse	Husband	2.14	0.27	1.60	2.68	NA	NA	NA	NA	2675032	14825	153
Angina pectoris	Spouse	Husband	1.85	0.05	1.75	1.94	NA	NA	NA	NA	2675032	65237	2398
Myocardial infarction	Spouse	Husband	1.42	0.09	1.24	1.60	NA	NA	NA	NA	2675032	34788	296
ADHD	Spouse	Wife	3.06	0.04	2.97	3.14	NA	NA	NA	NA	2674416	58118	5779

Outcome	Type of the relation	Relation	λ	λ _95% CI_Low	λ _95% CI_High	λ _SE	h^2	h^2 _95% CI_Low	h^2 _95% CI_High	h^2 _SE	Sample size	n_exposed	Number of outcome cases in the exposed group
Autism	Spouse	Wife	13.79	0.74	12.33	15.25	NA	NA	NA	NA	2674416	6775	472
Hypertension	Spouse	Wife	1.16	0.00	1.16	1.17	NA	NA	NA	NA	2674416	704486	213469
Type-2 diabetes	Spouse	Wife	2.03	0.02	2.00	2.07	NA	NA	NA	NA	2674416	122919	13558
Dyslipidemia	Spouse	Wife	1.42	0.01	1.40	1.43	NA	NA	NA	NA	2674416	209644	70565
Stroke	Spouse	Wife	1.32	0.04	1.24	1.39	NA	NA	NA	NA	2674416	39899	1458
Heart failure	Spouse	Wife	2.23	0.26	1.72	2.73	NA	NA	NA	NA	2674416	9041	151
Angina pectoris	Spouse	Wife	1.85	0.05	1.75	1.95	NA	NA	NA	NA	2674416	29625	2392
Myocardial infarction	Spouse	Wife	1.49	0.12	1.26	1.72	NA	NA	NA	NA	2674416	9008	286

Note:

SE: standard error; CI: confidence interval; ADHD: attention-deficit/hyperactivity disorder; 1DR: first-degree relative; 2DR: second-degree relative; 3DR: third-degree relative; NA: not available (Heritability was not estimated from spouses).

Results of some relatives were unavailable due to the limited number of cases.

eTable 4. Familial aggregation (λ) and heritability estimates in the sensitivity analysis (among individuals aged 18 to 55 years)

Outcome	Type of the relation	Relation	λ	λ _95% CI_Low	λ _95% CI_High	λ _SE	h^2	h^2 _95% CI_Low	h^2 _95% CI_High	h^2 _SE	Sample size	n_exposed	Number of outcome cases in the exposed group
ADHD	1DR	Any 1DR	2.80	2.78	2.82	0.01	0.56	0.55	0.56	0.00	6215623	690126	107918
Autism	1DR	Any 1DR	5.06	4.95	5.17	0.06	0.55	0.54	0.56	0.00	6215623	156146	8890
Hypertension	1DR	Any 1DR	1.35	1.34	1.35	0.00	0.24	0.23	0.24	0.00	6215623	1809799	363758
Type-2 diabetes	1DR	Any 1DR	3.25	3.21	3.29	0.02	0.50	0.50	0.51	0.00	6215623	345610	27530
Dyslipidemia	1DR	Any 1DR	2.56	2.54	2.58	0.01	0.46	0.45	0.46	0.00	6215623	563600	54631
Stroke	1DR	Any 1DR	2.74	2.64	2.84	0.05	0.30	0.29	0.31	0.01	6215623	123290	2882
Heart failure	1DR	Any 1DR	11.98	10.99	12.97	0.50	0.62	0.59	0.64	0.01	6215623	27510	615
Angina pectoris	1DR	Any 1DR	3.68	3.51	3.85	0.09	0.36	0.34	0.37	0.01	6215623	89009	1827
Myocardial infarction	1DR	Any 1DR	3.49	3.18	3.80	0.16	0.30	0.28	0.32	0.01	6215623	45554	514
ADHD	1DR	Parent	3.62	3.58	3.66	0.02	0.73	0.72	0.73	0.00	1559960	55633	22222
Autism	1DR	Parent	7.82	7.44	8.20	0.19	0.74	0.72	0.76	0.01	1559960	7412	1460
Hypertension	1DR	Parent	1.17	1.16	1.18	0.01	0.12	0.11	0.13	0.00	1559960	548622	58194
Type-2 diabetes	1DR	Parent	2.44	2.35	2.53	0.05	0.36	0.35	0.38	0.01	1559960	116321	3376
Dyslipidemia	1DR	Parent	2.89	2.76	3.01	0.06	0.52	0.50	0.55	0.01	1559960	262655	3263
Angina pectoris	1DR	Parent	3.68	2.59	4.77	0.56	0.36	0.27	0.44	0.04	1559960	47378	53
ADHD	1DR	Both parents	5.93	5.68	6.18	0.13	0.52	0.51	0.54	0.01	1559960	1556	1026
Autism	1DR	Both parents	20.80	14.39	27.21	3.27	0.58	0.50	0.66	0.04	1559960	54	23
Hypertension	1DR	Both parents	1.45	1.42	1.48	0.02	0.15	0.14	0.16	0.00	1559960	67876	8542
Type-2 diabetes	1DR	Both parents	5.40	4.75	6.06	0.34	0.37	0.34	0.40	0.02	1559960	4109	251
Dyslipidemia	1DR	Both parents	6.40	5.70	7.10	0.36	0.50	0.46	0.54	0.02	1559960	16316	373
ADHD	1DR	Father	3.44	3.38	3.50	0.03	0.69	0.68	0.70	0.01	922579	23958	9384
Autism	1DR	Father	7.19	6.76	7.63	0.22	0.70	0.68	0.73	0.01	922579	4674	882
Hypertension	1DR	Father	1.19	1.17	1.20	0.01	0.13	0.12	0.14	0.01	922579	223629	22419
Type-2 diabetes	1DR	Father	2.41	2.27	2.55	0.07	0.36	0.33	0.38	0.01	922579	53442	1360
Dyslipidemia	1DR	Father	2.75	2.57	2.92	0.09	0.49	0.46	0.53	0.02	922579	148535	1534
Stroke	1DR	Father	2.03	1.61	2.44	0.21	0.20	0.14	0.26	0.03	922579	19177	99

Outcome	Type of the relation	Relation	λ	λ 95% CI_Low	λ 95% CI_High	λ SE	h^2	h^2 95% CI_Low	h^2 95% CI_High	h^2 SE	Sample size	n_exposed	Number of outcome cases in the exposed group
Heart failure	1DR	Father	6.53	2.67	10.39	1.97	0.44	0.30	0.58	0.07	922579	5003	12
Angina pectoris	1DR	Father	4.10	2.41	5.79	0.86	0.39	0.27	0.51	0.06	922579	25397	28
ADHD	1DR	Mother	3.89	3.84	3.94	0.03	0.78	0.77	0.79	0.00	1473495	34780	14886
Autism	1DR	Mother	8.87	8.24	9.50	0.32	0.80	0.77	0.83	0.01	1473495	2846	624
Hypertension	1DR	Mother	1.24	1.22	1.25	0.01	0.17	0.16	0.17	0.00	1473495	460710	52856
Type-2 diabetes	1DR	Mother	2.76	2.64	2.88	0.06	0.42	0.40	0.44	0.01	1473495	71095	2518
Dyslipidemia	1DR	Mother	3.56	3.39	3.74	0.09	0.65	0.62	0.68	0.01	1473495	146744	2475
Stroke	1DR	Mother	2.26	1.94	2.59	0.17	0.24	0.19	0.28	0.02	1473495	30971	205
Heart failure	1DR	Mother	13.74	9.25	18.23	2.29	0.66	0.57	0.75	0.04	1473495	6239	41
Angina pectoris	1DR	Mother	4.28	2.61	5.95	0.85	0.41	0.29	0.52	0.06	1473495	23091	33
ADHD	1DR	Offspring	3.39	3.33	3.45	0.03	0.68	0.67	0.69	0.01	1377244	230660	19236
Autism	1DR	Offspring	7.47	7.02	7.93	0.23	0.72	0.69	0.74	0.01	1377244	55779	1329
Hypertension	1DR	Offspring	1.23	1.22	1.24	0.00	0.16	0.15	0.17	0.00	1377244	182357	67051
Type-2 diabetes	1DR	Offspring	2.66	2.57	2.75	0.05	0.40	0.39	0.42	0.01	1377244	23013	3617
Dyslipidemia	1DR	Offspring	3.06	2.96	3.15	0.05	0.56	0.54	0.57	0.01	1377244	8610	3468
Stroke	1DR	Offspring	2.04	1.80	2.29	0.12	0.20	0.17	0.24	0.02	1377244	6134	286
Heart failure	1DR	Offspring	10.33	7.10	13.56	1.65	0.57	0.49	0.65	0.04	1377244	870	46
Angina pectoris	1DR	Offspring	4.98	3.53	6.43	0.74	0.46	0.37	0.54	0.04	1377244	530	61
ADHD	1DR	Son	3.22	3.15	3.28	0.03	0.65	0.63	0.66	0.01	926986	163182	13416
Autism	1DR	Son	6.93	6.43	7.43	0.26	0.68	0.66	0.71	0.01	926986	40295	953
Hypertension	1DR	Son	1.26	1.25	1.27	0.01	0.18	0.17	0.19	0.00	926986	61225	23033
Type-2 diabetes	1DR	Son	2.55	2.41	2.69	0.07	0.38	0.36	0.41	0.01	926986	8122	1130
Dyslipidemia	1DR	Son	3.13	3.00	3.26	0.07	0.57	0.55	0.59	0.01	926986	4108	1732
Stroke	1DR	Son	1.97	1.64	2.30	0.17	0.19	0.14	0.24	0.02	926986	3050	131
Heart failure	1DR	Son	11.45	6.93	15.98	2.31	0.60	0.50	0.70	0.05	926986	447	26
Angina pectoris	1DR	Son	4.27	2.75	5.79	0.77	0.41	0.30	0.51	0.05	926986	323	35
ADHD	1DR	Daughter	4.31	4.21	4.42	0.05	0.85	0.83	0.87	0.01	894491	80873	8123
Autism	1DR	Daughter	9.27	8.35	10.19	0.47	0.82	0.78	0.86	0.02	894491	16651	451

Outcome	Type of the relation	Relation	λ	λ 95% CI_Low	λ 95% CI_High	λ SE	h^2	h^2 95% CI_Low	h^2 95% CI_High	h^2 SE	Sample size	n_exposed	Number of outcome cases in the exposed group
Hypertension	1DR	Daughter	1.21	1.20	1.22	0.01	0.15	0.14	0.16	0.00	894491	129122	47416
Type-2 diabetes	1DR	Daughter	2.70	2.60	2.81	0.05	0.41	0.40	0.43	0.01	894491	15236	2576
Dyslipidemia	1DR	Daughter	3.05	2.93	3.16	0.06	0.56	0.54	0.58	0.01	894491	4920	1985
Stroke	1DR	Daughter	2.22	1.87	2.56	0.18	0.23	0.18	0.27	0.02	894491	3113	164
Heart failure	1DR	Daughter	9.47	5.26	13.68	2.15	0.54	0.43	0.66	0.06	894491	432	23
Angina pectoris	1DR	Daughter	5.90	3.21	8.58	1.37	0.51	0.38	0.65	0.07	894491	207	26
ADHD	1DR	Sibling	2.57	2.55	2.59	0.01	0.50	0.50	0.51	0.00	5220106	429327	75568
Autism	1DR	Sibling	4.46	4.34	4.59	0.06	0.50	0.49	0.51	0.01	5220106	94723	6430
Hypertension	1DR	Sibling	1.46	1.45	1.47	0.00	0.31	0.31	0.31	0.00	5220106	1119511	259638
Type-2 diabetes	1DR	Sibling	3.62	3.56	3.68	0.03	0.56	0.55	0.57	0.00	5220106	208226	21261
Dyslipidemia	1DR	Sibling	4.18	4.10	4.25	0.04	0.75	0.74	0.76	0.01	5220106	281204	49362
Stroke	1DR	Sibling	3.70	3.50	3.89	0.10	0.40	0.38	0.42	0.01	5220106	67862	2346
Heart failure	1DR	Sibling	24.04	21.13	26.95	1.48	0.85	0.81	0.88	0.02	5220106	15479	533
Angina pectoris	1DR	Sibling	4.23	3.89	4.57	0.17	0.40	0.38	0.43	0.01	5220106	40633	1713
Myocardial infarction	1DR	Sibling	3.77	3.34	4.20	0.22	0.32	0.29	0.35	0.01	5220106	22334	506
ADHD	1DR	Brother	2.56	2.53	2.59	0.01	0.50	0.49	0.50	0.00	3248193	272988	48364
Autism	1DR	Brother	4.49	4.35	4.64	0.08	0.50	0.49	0.51	0.01	3248193	65662	4405
Hypertension	1DR	Brother	1.55	1.54	1.56	0.01	0.36	0.36	0.37	0.00	3248193	425294	107749
Type-2 diabetes	1DR	Brother	4.10	4.00	4.20	0.05	0.62	0.61	0.64	0.01	3248193	83191	9951
Dyslipidemia	1DR	Brother	4.30	4.20	4.41	0.05	0.77	0.76	0.79	0.01	3248193	172906	30650
Stroke	1DR	Brother	3.63	3.35	3.91	0.14	0.39	0.37	0.42	0.01	3248193	32055	1057
Heart failure	1DR	Brother	25.68	21.52	29.83	2.12	0.87	0.82	0.92	0.03	3248193	8204	289
Angina pectoris	1DR	Brother	4.59	4.08	5.11	0.26	0.43	0.40	0.46	0.02	3248193	24719	1098
Myocardial infarction	1DR	Brother	3.82	3.34	4.30	0.24	0.32	0.29	0.35	0.02	3248193	16516	379
ADHD	1DR	Sister	2.80	2.77	2.83	0.02	0.56	0.55	0.56	0.00	3195571	171374	31905
Autism	1DR	Sister	4.78	4.56	5.00	0.11	0.53	0.51	0.54	0.01	3195571	30172	2206
Hypertension	1DR	Sister	1.43	1.42	1.43	0.00	0.29	0.28	0.29	0.00	3195571	755216	170534
Type-2 diabetes	1DR	Sister	3.49	3.42	3.55	0.03	0.54	0.53	0.55	0.00	3195571	131694	12825

Outcome	Type of the relation	Relation	λ	λ 95% CI_Low	λ 95% CI_High	λ SE	h^2	h^2 95% CI_Low	h^2 95% CI_High	h^2 SE	Sample size	n_exposed	Number of outcome cases in the exposed group
Dyslipidemia	1DR	Sister	4.32	4.23	4.42	0.05	0.77	0.76	0.79	0.01	3195571	120239	22594
Stroke	1DR	Sister	4.19	3.92	4.46	0.14	0.45	0.42	0.47	0.01	3195571	36336	1421
Heart failure	1DR	Sister	25.45	21.40	29.50	2.07	0.87	0.82	0.91	0.02	3195571	7363	274
Angina pectoris	1DR	Sister	3.97	3.51	4.43	0.23	0.38	0.35	0.41	0.02	3195571	16325	666
Myocardial infarction	1DR	Sister	3.86	2.76	4.96	0.56	0.33	0.26	0.40	0.04	3195571	5927	131
ADHD	2DR	Any 2DR	1.52	1.50	1.53	0.01	0.40	0.39	0.41	0.01	4031098	569622	41697
Autism	2DR	Any 2DR	2.06	1.98	2.15	0.04	0.44	0.41	0.46	0.01	4031098	139577	2655
Hypertension	2DR	Any 2DR	1.09	1.09	1.10	0.00	0.13	0.13	0.14	0.00	4031098	1476468	240351
Type-2 diabetes	2DR	Any 2DR	1.72	1.69	1.75	0.02	0.42	0.40	0.43	0.01	4031098	313462	12825
Dyslipidemia	2DR	Any 2DR	1.64	1.62	1.67	0.01	0.45	0.43	0.46	0.01	4031098	576573	19323
Stroke	2DR	Any 2DR	1.35	1.27	1.43	0.04	0.16	0.13	0.20	0.02	4031098	125958	1191
Heart failure	2DR	Any 2DR	2.86	2.32	3.39	0.27	0.45	0.37	0.53	0.04	4031098	29897	131
Angina pectoris	2DR	Any 2DR	1.89	1.69	2.08	0.10	0.32	0.27	0.38	0.03	4031098	104454	460
Myocardial infarction	2DR	Any 2DR	2.23	1.82	2.63	0.21	0.37	0.28	0.45	0.04	4031098	53897	138
ADHD	2DR	Aunt/Uncle	1.52	1.50	1.54	0.01	0.40	0.39	0.42	0.01	2405855	134125	19920
Autism	2DR	Aunt/Uncle	1.95	1.84	2.06	0.06	0.40	0.37	0.44	0.02	2405855	26868	1159
Hypertension	2DR	Aunt/Uncle	1.09	1.08	1.09	0.00	0.13	0.12	0.14	0.01	2405855	1032238	121682
Type-2 diabetes	2DR	Aunt/Uncle	1.68	1.63	1.72	0.02	0.40	0.38	0.42	0.01	2405855	229609	6123
Dyslipidemia	2DR	Aunt/Uncle	1.62	1.58	1.65	0.02	0.43	0.41	0.45	0.01	2405855	521085	9253
Stroke	2DR	Aunt/Uncle	1.40	1.28	1.52	0.06	0.18	0.14	0.23	0.02	2405855	102054	581
Heart failure	2DR	Aunt/Uncle	3.04	2.27	3.82	0.40	0.48	0.37	0.60	0.06	2405855	25416	61
Angina pectoris	2DR	Aunt/Uncle	1.72	1.47	1.96	0.13	0.27	0.20	0.35	0.04	2405855	97261	202
Myocardial infarction	2DR	Aunt/Uncle	1.99	1.47	2.51	0.27	0.31	0.19	0.43	0.06	2405855	50029	59
ADHD	2DR	Uncle	1.51	1.48	1.54	0.01	0.40	0.38	0.42	0.01	1666821	74514	10909
Autism	2DR	Uncle	1.98	1.84	2.11	0.07	0.41	0.37	0.45	0.02	1666821	19005	820
Hypertension	2DR	Uncle	1.10	1.09	1.11	0.00	0.14	0.13	0.15	0.01	1666821	500255	59690
Type-2 diabetes	2DR	Uncle	1.62	1.56	1.68	0.03	0.37	0.34	0.40	0.01	1666821	125132	3302
Dyslipidemia	2DR	Uncle	1.61	1.56	1.66	0.02	0.42	0.40	0.45	0.01	1666821	330582	5623

Outcome	Type of the relation	Relation	λ	λ 95% CI_Low	λ 95% CI_High	λ SE	h^2	h^2 95% CI_Low	h^2 95% CI_High	h^2 SE	Sample size	n_exposed	Number of outcome cases in the exposed group
Stroke	2DR	Uncle	1.30	1.13	1.46	0.08	0.14	0.07	0.21	0.03	1666821	49299	256
Heart failure	2DR	Uncle	3.12	2.06	4.17	0.54	0.49	0.35	0.64	0.08	1666821	14082	35
Angina pectoris	2DR	Uncle	1.68	1.36	2.00	0.16	0.26	0.16	0.36	0.05	1666821	59212	114
Myocardial infarction	2DR	Uncle	2.21	1.56	2.85	0.33	0.36	0.23	0.50	0.07	1666821	37067	47
ADHD	2DR	Aunt	1.59	1.56	1.62	0.02	0.45	0.43	0.47	0.01	1675147	63810	9913
Autism	2DR	Aunt	2.03	1.82	2.24	0.11	0.43	0.36	0.49	0.03	1675147	8095	364
Hypertension	2DR	Aunt	1.10	1.09	1.10	0.00	0.14	0.13	0.15	0.01	1675147	661580	78001
Type-2 diabetes	2DR	Aunt	1.79	1.72	1.85	0.03	0.45	0.42	0.48	0.01	1675147	117992	3363
Dyslipidemia	2DR	Aunt	1.82	1.76	1.88	0.03	0.54	0.51	0.57	0.02	1675147	229249	4607
Stroke	2DR	Aunt	1.52	1.35	1.68	0.08	0.23	0.17	0.29	0.03	1675147	54018	338
Heart failure	2DR	Aunt	3.16	1.97	4.36	0.61	0.50	0.34	0.67	0.09	1675147	11483	28
Angina pectoris	2DR	Aunt	1.93	1.53	2.33	0.21	0.34	0.23	0.44	0.05	1675147	39659	96
Myocardial infarction	2DR	Aunt	1.69	0.80	2.58	0.46	0.23	0.00	0.47	0.12	1675147	13298	14
ADHD	2DR	Niece/Nephew	1.42	1.40	1.45	0.01	0.34	0.32	0.35	0.01	1578381	394429	15948
Autism	2DR	Niece/Nephew	1.87	1.75	1.99	0.06	0.38	0.34	0.41	0.02	1578381	103050	1052
Hypertension	2DR	Niece/Nephew	1.09	1.08	1.10	0.01	0.13	0.11	0.14	0.01	1578381	389894	109144
Type-2 diabetes	2DR	Niece/Nephew	1.71	1.67	1.76	0.02	0.42	0.40	0.44	0.01	1578381	69662	5981
Dyslipidemia	2DR	Niece/Nephew	1.78	1.74	1.81	0.02	0.52	0.50	0.54	0.01	1578381	38211	8711
Stroke	2DR	Niece/Nephew	1.32	1.20	1.43	0.06	0.15	0.10	0.20	0.02	1578381	18708	538
Heart failure	2DR	Niece/Nephew	3.49	2.50	4.48	0.50	0.55	0.42	0.68	0.06	1578381	3365	57
Angina pectoris	2DR	Niece/Nephew	1.91	1.62	2.20	0.15	0.33	0.25	0.41	0.04	1578381	4239	205
Myocardial infarction	2DR	Niece/Nephew	2.07	1.50	2.65	0.29	0.33	0.20	0.46	0.06	1578381	2194	61
ADHD	2DR	Nephew	1.43	1.40	1.46	0.02	0.34	0.32	0.36	0.01	1222549	284260	11414
Autism	2DR	Nephew	1.88	1.74	2.02	0.07	0.38	0.33	0.42	0.02	1222549	74435	762
Hypertension	2DR	Nephew	1.11	1.10	1.12	0.01	0.16	0.14	0.17	0.01	1222549	148935	42917
Type-2 diabetes	2DR	Nephew	1.73	1.66	1.81	0.04	0.43	0.39	0.46	0.02	1222549	22543	1960
Dyslipidemia	2DR	Nephew	1.82	1.77	1.87	0.03	0.55	0.52	0.57	0.01	1222549	21071	5010
Stroke	2DR	Nephew	1.18	1.02	1.33	0.08	0.09	0.01	0.16	0.04	1222549	8732	223

Outcome	Type of the relation	Relation	λ	λ 95% CI_Low	λ 95% CI_High	λ SE	h^2	h^2 95% CI_Low	h^2 95% CI_High	h^2 SE	Sample size	n_exposed	Number of outcome cases in the exposed group
Heart failure	2DR	Nephew	4.71	3.07	6.35	0.84	0.70	0.54	0.86	0.08	1222549	1708	35
Angina pectoris	2DR	Nephew	1.95	1.57	2.34	0.20	0.34	0.24	0.44	0.05	1222549	2435	117
Myocardial infarction	2DR	Nephew	2.06	1.37	2.74	0.35	0.33	0.18	0.48	0.08	1222549	1575	42
ADHD	2DR	Niece	1.57	1.53	1.61	0.02	0.44	0.41	0.47	0.01	1199101	155432	6744
Autism	2DR	Niece	2.10	1.87	2.32	0.11	0.45	0.38	0.52	0.03	1199101	32568	359
Hypertension	2DR	Niece	1.09	1.09	1.10	0.00	0.14	0.12	0.15	0.01	1199101	296055	83444
Type-2 diabetes	2DR	Niece	1.72	1.66	1.77	0.03	0.42	0.39	0.44	0.01	1199101	50429	4465
Dyslipidemia	2DR	Niece	1.80	1.74	1.85	0.03	0.53	0.51	0.56	0.01	1199101	20546	4822
Stroke	2DR	Niece	1.52	1.36	1.69	0.08	0.23	0.17	0.29	0.03	1199101	10271	344
Heart failure	2DR	Niece	2.71	1.65	3.77	0.54	0.43	0.26	0.60	0.09	1199101	1713	28
Angina pectoris	2DR	Niece	1.75	1.36	2.14	0.20	0.28	0.17	0.40	0.06	1199101	1868	91
Myocardial infarction	2DR	Niece	2.14	1.16	3.12	0.50	0.35	0.14	0.56	0.11	1199101	634	20
Hypertension	2DR	Grandparent	0.92	0.64	1.19	0.14	-0.13	-0.56	0.31	0.22	855	392	43
Hypertension	2DR	Grandmother	0.92	0.60	1.24	0.16	-0.13	-0.63	0.38	0.26	646	328	33
Hypertension	2DR	Grandchild	0.76	0.51	1.02	0.13	-0.38	-0.83	0.08	0.23	607	96	32
ADHD	2DR	Half-sibling	1.47	1.44	1.51	0.02	0.37	0.35	0.40	0.01	347055	47730	6831
Autism	2DR	Half-sibling	2.48	2.26	2.71	0.12	0.56	0.51	0.62	0.03	347055	9995	465
Hypertension	2DR	Half-sibling	1.12	1.10	1.14	0.01	0.18	0.15	0.20	0.01	347055	81310	15360
Type-2 diabetes	2DR	Half-sibling	1.83	1.70	1.96	0.07	0.47	0.42	0.53	0.03	347055	15622	845
Dyslipidemia	2DR	Half-sibling	1.76	1.67	1.86	0.05	0.51	0.46	0.57	0.03	347055	19160	1559
Stroke	2DR	Half-sibling	1.32	1.02	1.62	0.15	0.15	0.02	0.27	0.06	347055	5374	79
Heart failure	2DR	Half-sibling	6.28	2.73	9.83	1.81	0.85	0.58	1.13	0.14	347055	1123	13
Angina pectoris	2DR	Half-sibling	2.21	1.60	2.81	0.31	0.41	0.27	0.55	0.07	347055	2963	54
Myocardial infarction	2DR	Half-sibling	2.42	1.28	3.57	0.58	0.41	0.19	0.63	0.11	347055	1683	18
ADHD	2DR	Half-brother	1.45	1.41	1.50	0.02	0.36	0.33	0.39	0.02	214824	29990	4262
Autism	2DR	Half-brother	2.47	2.19	2.74	0.14	0.56	0.49	0.63	0.04	214824	7047	325
Hypertension	2DR	Half-brother	1.14	1.11	1.17	0.02	0.20	0.16	0.24	0.02	214824	28431	5617
Type-2 diabetes	2DR	Half-brother	1.86	1.65	2.07	0.11	0.49	0.40	0.58	0.05	214824	5592	325

Outcome	Type of the relation	Relation	λ	λ 95% CI_Low	λ 95% CI_High	λ SE	h^2	h^2 95% CI_Low	h^2 95% CI_High	h^2 SE	Sample size	n_exposed	Number of outcome cases in the exposed group
Dyslipidemia	2DR	Half-brother	1.74	1.61	1.87	0.07	0.50	0.43	0.57	0.04	214824	10555	838
Stroke	2DR	Half-brother	1.48	1.00	1.96	0.25	0.22	0.04	0.40	0.09	214824	2260	38
Heart failure	2DR	Half-brother	11.05	4.20	17.90	3.49	1.18	0.86	1.50	0.16	214824	580	11
Angina pectoris	2DR	Half-brother	2.18	1.37	3.00	0.42	0.40	0.21	0.60	0.10	214824	1611	29
Myocardial infarction	2DR	Half-brother	2.40	1.01	3.80	0.71	0.40	0.13	0.67	0.14	214824	1131	12
ADHD	2DR	Half-sister	1.54	1.49	1.60	0.03	0.42	0.38	0.45	0.02	222975	19826	2966
Autism	2DR	Half-sister	2.64	2.23	3.05	0.21	0.61	0.51	0.71	0.05	222975	3118	151
Hypertension	2DR	Half-sister	1.11	1.09	1.14	0.01	0.16	0.13	0.19	0.02	222975	57475	10719
Type-2 diabetes	2DR	Half-sister	1.79	1.63	1.94	0.08	0.45	0.38	0.52	0.04	222975	10356	543
Dyslipidemia	2DR	Half-sister	1.82	1.69	1.96	0.07	0.55	0.48	0.62	0.04	222975	9362	813
Stroke	2DR	Half-sister	1.22	0.85	1.60	0.19	0.11	-0.06	0.27	0.08	222975	3153	43
Angina pectoris	2DR	Half-sister	2.15	1.29	3.01	0.44	0.40	0.19	0.60	0.11	222975	1393	25
ADHD	3DR	Cousin	1.18	1.17	1.19	0.00	0.31	0.29	0.32	0.01	5407516	1862640	148046
Autism	3DR	Cousin	1.39	1.36	1.41	0.01	0.38	0.35	0.40	0.01	5407516	525644	10480
Hypertension	3DR	Cousin	1.05	1.05	1.05	0.00	0.15	0.13	0.16	0.01	5407516	3268081	528371
Type-2 diabetes	3DR	Cousin	1.33	1.31	1.35	0.01	0.42	0.40	0.45	0.01	5407516	898509	29557
Dyslipidemia	3DR	Cousin	1.31	1.30	1.33	0.01	0.47	0.45	0.49	0.01	5407516	1109976	70279
Stroke	3DR	Cousin	1.16	1.12	1.20	0.02	0.16	0.12	0.20	0.02	5407516	359991	4268
Heart failure	3DR	Cousin	2.05	1.83	2.27	0.11	0.60	0.51	0.69	0.05	5407516	85602	417
Angina pectoris	3DR	Cousin	1.49	1.42	1.56	0.03	0.39	0.35	0.44	0.02	5407516	197420	2290
Myocardial infarction	3DR	Cousin	1.31	1.21	1.42	0.05	0.24	0.17	0.31	0.04	5407516	111692	655
ADHD	3DR	Cousin-female	1.25	1.24	1.26	0.01	0.42	0.41	0.44	0.01	5013576	894554	72486
Autism	3DR	Cousin-female	1.47	1.42	1.52	0.02	0.45	0.41	0.49	0.02	5013576	177554	3712
Hypertension	3DR	Cousin-female	1.06	1.06	1.07	0.00	0.18	0.17	0.19	0.01	5013576	2650191	430075
Type-2 diabetes	3DR	Cousin-female	1.36	1.34	1.38	0.01	0.46	0.43	0.48	0.01	5013576	605799	19786
Dyslipidemia	3DR	Cousin-female	1.43	1.42	1.45	0.01	0.63	0.61	0.66	0.01	5013576	553026	37476
Stroke	3DR	Cousin-female	1.20	1.15	1.26	0.03	0.20	0.15	0.25	0.02	5013576	199322	2400
Heart failure	3DR	Cousin-female	2.44	2.08	2.80	0.18	0.76	0.63	0.89	0.06	5013576	41557	227

Outcome	Type of the relation	Relation	λ	λ 95% CI_Low	λ 95% CI_High	λ SE	h^2	h^2 95% CI_Low	h^2 95% CI_High	h^2 SE	Sample size	n_exposed	Number of outcome cases in the exposed group
Angina pectoris	3DR	Cousin-female	1.52	1.42	1.62	0.05	0.42	0.35	0.49	0.04	5013576	83681	967
Myocardial infarction	3DR	Cousin-female	1.50	1.29	1.71	0.11	0.35	0.23	0.48	0.06	5013576	32128	210
ADHD	3DR	Cousin-male	1.22	1.21	1.22	0.00	0.36	0.35	0.38	0.01	5026811	1316473	108204
Autism	3DR	Cousin-male	1.41	1.37	1.44	0.02	0.39	0.36	0.42	0.02	5026811	376408	7525
Hypertension	3DR	Cousin-male	1.08	1.08	1.09	0.00	0.24	0.23	0.25	0.01	5026811	1747025	298518
Type-2 diabetes	3DR	Cousin-male	1.40	1.37	1.43	0.01	0.50	0.47	0.53	0.02	5026811	383246	13902
Dyslipidemia	3DR	Cousin-male	1.35	1.34	1.37	0.01	0.53	0.51	0.55	0.01	5026811	748749	49175
Stroke	3DR	Cousin-male	1.22	1.16	1.27	0.03	0.21	0.16	0.26	0.03	5026811	175969	2194
Heart failure	3DR	Cousin-male	1.98	1.69	2.26	0.14	0.57	0.45	0.69	0.06	5026811	45935	224
Angina pectoris	3DR	Cousin-male	1.50	1.41	1.59	0.04	0.40	0.34	0.46	0.03	5026811	121151	1430
Myocardial infarction	3DR	Cousin-male	1.26	1.14	1.38	0.06	0.20	0.12	0.28	0.04	5026811	81399	458
ADHD	Spouse	Spouse	2.88	2.82	2.94	0.03	NA	NA	NA	NA	3647774	110928	10374
Autism	Spouse	Spouse	13.45	12.49	14.41	0.49	NA	NA	NA	NA	3647774	15101	890
Hypertension	Spouse	Spouse	1.20	1.19	1.21	0.00	NA	NA	NA	NA	3647774	626398	135874
Type-2 diabetes	Spouse	Spouse	1.80	1.76	1.84	0.02	NA	NA	NA	NA	3647774	122319	7894
Dyslipidemia	Spouse	Spouse	1.67	1.64	1.69	0.01	NA	NA	NA	NA	3647774	185910	22378
Stroke	Spouse	Spouse	1.42	1.30	1.54	0.06	NA	NA	NA	NA	3647774	35319	662
Heart failure	Spouse	Spouse	3.25	2.23	4.27	0.52	NA	NA	NA	NA	3647774	7742	60
Angina pectoris	Spouse	Spouse	2.24	2.02	2.47	0.11	NA	NA	NA	NA	3647774	26317	652
Myocardial infarction	Spouse	Spouse	1.43	1.02	1.84	0.21	NA	NA	NA	NA	3647774	14398	86
ADHD	Spouse	Husband	2.92	2.83	3.01	0.04	NA	NA	NA	NA	1824408	62804	5185
Autism	Spouse	Husband	13.68	12.35	15.01	0.68	NA	NA	NA	NA	1824408	9314	469
Hypertension	Spouse	Husband	1.22	1.21	1.23	0.00	NA	NA	NA	NA	1824408	245046	67663
Type-2 diabetes	Spouse	Husband	1.90	1.83	1.97	0.04	NA	NA	NA	NA	1824408	49323	3937
Dyslipidemia	Spouse	Husband	1.64	1.60	1.68	0.02	NA	NA	NA	NA	1824408	124794	11237
Stroke	Spouse	Husband	1.43	1.26	1.61	0.09	NA	NA	NA	NA	1824408	18097	332
Heart failure	Spouse	Husband	3.17	1.74	4.60	0.73	NA	NA	NA	NA	1824408	4410	31
Angina pectoris	Spouse	Husband	2.21	1.91	2.51	0.15	NA	NA	NA	NA	1824408	18304	324

Outcome	Type of the relation	Relation	λ	λ 95% CI_Low	λ 95% CI_High	λ SE	h^2	h^2 95% CI_Low	h^2 95% CI_High	h^2 SE	Sample size	n_exposed	Number of outcome cases in the exposed group
Myocardial infarction	Spouse	Husband	1.33	0.84	1.82	0.25	NA	NA	NA	NA	1824408	11614	43
ADHD	Spouse	Wife	2.84	2.76	2.92	0.04	NA	NA	NA	NA	1823366	48124	5189
Autism	Spouse	Wife	13.23	11.85	14.60	0.70	NA	NA	NA	NA	1823366	5787	421
Hypertension	Spouse	Wife	1.22	1.21	1.23	0.00	NA	NA	NA	NA	1823366	381352	68211
Type-2 diabetes	Spouse	Wife	2.04	1.98	2.11	0.03	NA	NA	NA	NA	1823366	72996	3957
Dyslipidemia	Spouse	Wife	1.66	1.62	1.69	0.02	NA	NA	NA	NA	1823366	61116	11141
Stroke	Spouse	Wife	1.40	1.24	1.57	0.08	NA	NA	NA	NA	1823366	17222	330
Heart failure	Spouse	Wife	3.28	1.81	4.75	0.75	NA	NA	NA	NA	1823366	3332	29
Angina pectoris	Spouse	Wife	2.19	1.90	2.47	0.15	NA	NA	NA	NA	1823366	8013	328
Myocardial infarction	Spouse	Wife	1.54	0.95	2.13	0.30	NA	NA	NA	NA	1823366	2784	43

Note:

SE: standard error; CI: confidence interval; ADHD: attention-deficit/hyperactivity disorder; 1DR: first-degree relative; 2DR: second-degree relative; 3DR: third-degree relative; NA: not available (Heritability was not estimated from spouses).

Results of some relatives were unavailable due to the limited number of cases for certain exposure-outcome combinations.

eTable 5. Familial co-aggregation (λ) and genetic correlation estimates in the main analysis

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Autism	ADHD	1DR	Any 1DR	2.18	2.15	2.21	0.02	0.54	0.52	0.55	0.01	11131859	1197414	21013
Type-2 diabetes	ADHD	1DR	Any 1DR	0.97	0.96	0.98	0.00	-0.03	-0.02	-0.04	0.00	11131859	1197414	70058
Hypertension	ADHD	1DR	Any 1DR	1.05	1.04	1.05	0.00	0.14	0.13	0.15	0.00	11131859	1197414	369488
Dyslipidemia	ADHD	1DR	Any 1DR	1.02	1.02	1.03	0.00	0.04	0.04	0.05	0.00	11131859	1197414	199152
Stroke	ADHD	1DR	Any 1DR	1.12	1.10	1.13	0.01	0.19	0.17	0.21	0.01	11131859	1197414	34372
Angina pectoris	ADHD	1DR	Any 1DR	1.09	1.08	1.10	0.01	0.10	0.09	0.12	0.01	11131859	1197414	35687
Myocardial infarction	ADHD	1DR	Any 1DR	1.07	1.05	1.08	0.01	0.08	0.05	0.10	0.01	11131859	1197414	14226
Heart failure	ADHD	1DR	Any 1DR	1.07	1.04	1.09	0.01	0.07	0.05	0.09	0.01	11131859	1197414	11288
Type-2 diabetes	Autism	1DR	Any 1DR	0.96	0.94	0.97	0.01	-0.03	-0.02	-0.04	-0.01	11131859	272162	16170
Hypertension	Autism	1DR	Any 1DR	1.02	1.02	1.03	0.00	0.06	0.04	0.07	0.01	11131859	272162	83228
Dyslipidemia	Autism	1DR	Any 1DR	0.97	0.97	0.98	0.00	-0.04	-0.03	-0.05	-0.01	11131859	272162	44036
Stroke	Autism	1DR	Any 1DR	1.07	1.04	1.09	0.01	0.09	0.06	0.12	0.02	11131859	272162	7655
Angina pectoris	Autism	1DR	Any 1DR	0.99	0.97	1.01	0.01	-0.01	0.01	-0.03	-0.01	11131859	272162	7582
Myocardial infarction	Autism	1DR	Any 1DR	1.00	0.96	1.04	0.02	0.00	-0.03	0.04	0.02	11131859	272162	3130
Heart failure	Autism	1DR	Any 1DR	0.99	0.95	1.03	0.02	-0.01	0.03	-0.04	-0.02	11131859	272162	2446
ADHD	Autism	1DR	Any 1DR	2.28	2.25	2.31	0.01	0.57	0.56	0.58	0.01	11131859	272162	24266
ADHD	Type-2 diabetes	1DR	Any 1DR	0.99	0.98	0.99	0.00	-0.01	-0.01	-0.02	0.00	11131859	2172434	74017
ADHD	Hypertension	1DR	Any 1DR	1.06	1.05	1.06	0.00	0.17	0.15	0.19	0.01	11131859	7339900	293210
ADHD	Dyslipidemia	1DR	Any 1DR	1.05	1.04	1.05	0.00	0.09	0.08	0.10	0.01	11131859	5080044	187749
ADHD	Stroke	1DR	Any 1DR	1.13	1.12	1.14	0.01	0.21	0.19	0.23	0.01	11131859	1202841	41542
ADHD	Angina pectoris	1DR	Any 1DR	1.10	1.09	1.12	0.01	0.12	0.10	0.13	0.01	11131859	1154354	41550
ADHD	Myocardial infarction	1DR	Any 1DR	1.08	1.06	1.09	0.01	0.09	0.07	0.11	0.01	11131859	483386	17156
ADHD	Heart failure	1DR	Any 1DR	1.09	1.07	1.11	0.01	0.10	0.07	0.12	0.01	11131859	534820	15409
Autism	Type-2 diabetes	1DR	Any 1DR	1.03	1.01	1.05	0.01	0.02	0.01	0.04	0.01	11131859	2172434	16174
Autism	Hypertension	1DR	Any 1DR	1.05	1.04	1.06	0.01	0.12	0.08	0.15	0.02	11131859	7339900	62574
Autism	Dyslipidemia	1DR	Any 1DR	1.02	1.01	1.04	0.01	0.03	0.01	0.06	0.01	11131859	5080044	39416

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Autism	Stroke	1DR	Any 1DR	1.12	1.09	1.14	0.01	0.15	0.11	0.18	0.02	11131859	1202841	8725
Autism	Angina pectoris	1DR	Any 1DR	1.03	1.01	1.06	0.01	0.03	0.01	0.06	0.01	11131859	1154354	8362
Autism	Myocardial infarction	1DR	Any 1DR	1.03	0.99	1.07	0.02	0.03	-0.01	0.06	0.02	11131859	483386	3548
Autism	Heart failure	1DR	Any 1DR	1.06	1.01	1.11	0.02	0.05	0.01	0.09	0.02	11131859	534820	3189
Autism	ADHD	1DR	Parent	2.61	2.53	2.68	0.04	0.54	0.52	0.56	0.01	5905254	124113	6559
Type-2 diabetes	ADHD	1DR	Parent	1.05	1.00	1.11	0.03	0.05	0.00	0.10	0.02	5905254	124113	2037
Hypertension	ADHD	1DR	Parent	1.15	1.13	1.17	0.01	0.84	0.71	0.97	0.07	5905254	124113	15948
Dyslipidemia	ADHD	1DR	Parent	1.10	1.05	1.15	0.03	0.21	0.11	0.31	0.05	5905254	124113	1967
Stroke	ADHD	1DR	Parent	1.16	1.06	1.27	0.05	0.19	0.07	0.30	0.06	5905254	124113	660
Angina pectoris	ADHD	1DR	Parent	1.11	0.96	1.27	0.08	0.11	-0.03	0.25	0.07	5905254	124113	219
Heart failure	ADHD	1DR	Parent	1.13	0.90	1.35	0.12	0.08	-0.06	0.23	0.07	5905254	124113	127
Hypertension	Autism	1DR	Parent	1.00	0.95	1.06	0.03	0.01	-0.23	0.25	0.12	5905254	19274	2237
ADHD	Autism	1DR	Parent	2.43	2.34	2.52	0.05	0.49	0.47	0.52	0.01	5905254	19274	4180
ADHD	Type-2 diabetes	1DR	Parent	1.00	0.99	1.01	0.00	0.00	-0.01	0.01	0.00	5905254	986709	52605
ADHD	Hypertension	1DR	Parent	1.04	1.03	1.04	0.00	0.22	0.18	0.27	0.02	5905254	2755100	172965
ADHD	Dyslipidemia	1DR	Parent	1.05	1.04	1.06	0.00	0.11	0.09	0.12	0.01	5905254	2247632	128483
ADHD	Stroke	1DR	Parent	1.14	1.13	1.16	0.01	0.17	0.15	0.19	0.01	5905254	516181	29544
ADHD	Angina pectoris	1DR	Parent	1.12	1.11	1.13	0.01	0.11	0.10	0.13	0.01	5905254	571781	32302
ADHD	Myocardial infarction	1DR	Parent	1.09	1.07	1.11	0.01	0.09	0.07	0.11	0.01	5905254	228881	13346
ADHD	Heart failure	1DR	Parent	1.11	1.09	1.14	0.01	0.07	0.06	0.09	0.01	5905254	214750	10351
Autism	Type-2 diabetes	1DR	Parent	1.07	1.05	1.09	0.01	0.05	0.03	0.07	0.01	5905254	986709	11598
Autism	Hypertension	1DR	Parent	1.05	1.04	1.06	0.01	0.22	0.14	0.29	0.04	5905254	2755100	37130
Autism	Dyslipidemia	1DR	Parent	1.05	1.03	1.06	0.01	0.08	0.05	0.11	0.01	5905254	2247632	26994
Autism	Stroke	1DR	Parent	1.16	1.13	1.20	0.02	0.15	0.12	0.18	0.02	5905254	516181	6213
Autism	Angina pectoris	1DR	Parent	1.07	1.04	1.10	0.02	0.06	0.03	0.08	0.01	5905254	571781	6452
Autism	Myocardial infarction	1DR	Parent	1.07	1.03	1.11	0.02	0.05	0.02	0.09	0.02	5905254	228881	2769
Autism	Heart failure	1DR	Parent	1.12	1.06	1.17	0.03	0.06	0.03	0.09	0.02	5905254	214750	2122

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Autism	ADHD	1DR	Both parents	4.35	3.60	5.10	0.38	0.56	0.46	0.65	0.05	5905254	3069	334
Type-2 diabetes	ADHD	1DR	Both parents	1.72	0.91	2.53	0.41	0.28	0.02	0.53	0.13	5905254	3069	47
Hypertension	ADHD	1DR	Both parents	1.24	1.02	1.45	0.11	0.26	0.04	0.48	0.11	5905254	3069	344
Dyslipidemia	ADHD	1DR	Both parents	1.85	1.07	2.63	0.40	0.48	0.11	0.86	0.19	5905254	3069	32
Stroke	ADHD	1DR	Both parents	2.22	0.41	4.04	0.93	0.59	-0.05	1.22	0.32	5905254	3069	22
Hypertension	Autism	1DR	Both parents	1.73	0.60	2.86	0.58	0.57	-0.25	1.39	0.42	5905254	147	17
ADHD	Autism	1DR	Both parents	4.02	2.11	5.93	0.98	0.54	0.32	0.76	0.11	5905254	147	46
ADHD	Type-2 diabetes	1DR	Both parents	0.84	0.81	0.87	0.02	-0.08	-0.06	-0.10	-0.01	5905254	97229	3955
ADHD	Hypertension	1DR	Both parents	1.13	1.12	1.14	0.01	0.14	0.13	0.15	0.01	5905254	1160378	63401
ADHD	Dyslipidemia	1DR	Both parents	1.10	1.08	1.12	0.01	0.07	0.05	0.08	0.01	5905254	624178	29369
ADHD	Stroke	1DR	Both parents	1.40	1.28	1.51	0.06	0.23	0.17	0.29	0.03	5905254	15598	861
ADHD	Angina pectoris	1DR	Both parents	1.30	1.21	1.40	0.05	0.14	0.10	0.18	0.02	5905254	22959	1224
ADHD	Myocardial infarction	1DR	Both parents	1.21	0.97	1.45	0.12	0.11	-0.01	0.24	0.06	5905254	2518	142
ADHD	Heart failure	1DR	Both parents	1.01	0.68	1.35	0.17	0.01	-0.12	0.13	0.06	5905254	3309	126
Autism	Type-2 diabetes	1DR	Both parents	0.96	0.88	1.03	0.04	-0.02	0.01	-0.04	-0.01	5905254	97229	889
Autism	Hypertension	1DR	Both parents	1.14	1.12	1.17	0.01	0.12	0.10	0.14	0.01	5905254	1160378	13307
Autism	Dyslipidemia	1DR	Both parents	1.12	1.08	1.16	0.02	0.06	0.04	0.08	0.01	5905254	624178	5893
Autism	Stroke	1DR	Both parents	1.15	0.91	1.38	0.12	0.07	-0.04	0.18	0.06	5905254	15598	168
Autism	Angina pectoris	1DR	Both parents	1.14	0.92	1.35	0.11	0.05	-0.03	0.13	0.04	5905254	22959	199
Autism	Myocardial infarction	1DR	Both parents	0.73	0.30	1.17	0.22	-0.13	0.12	-0.39	-0.13	5905254	2518	16
Autism	Heart failure	1DR	Both parents	2.07	0.70	3.44	0.70	0.23	0.01	0.44	0.11	5905254	3309	27
Autism	ADHD	1DR	Father	2.45	2.35	2.54	0.05	0.52	0.49	0.54	0.01	4715824	62611	3154
Type-2 diabetes	ADHD	1DR	Father	1.13	1.05	1.21	0.04	0.11	0.05	0.17	0.03	4715824	62611	1008
Hypertension	ADHD	1DR	Father	1.15	1.12	1.18	0.01	0.32	0.27	0.38	0.03	4715824	62611	7738
Dyslipidemia	ADHD	1DR	Father	1.16	1.08	1.24	0.04	0.22	0.12	0.32	0.05	4715824	62611	905
Stroke	ADHD	1DR	Father	1.21	1.06	1.36	0.08	0.25	0.08	0.42	0.09	4715824	62611	329
Angina pectoris	ADHD	1DR	Father	1.17	0.93	1.42	0.13	0.16	-0.05	0.37	0.11	4715824	62611	97

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Myocardial infarction	ADHD	1DR	Father	1.06	0.75	1.37	0.16	0.07	-0.27	0.41	0.17	4715824	62611	48
Heart failure	ADHD	1DR	Father	1.05	0.74	1.36	0.16	0.04	-0.17	0.25	0.11	4715824	62611	58
Type-2 diabetes	Autism	1DR	Father	1.00	0.83	1.17	0.09	0.00	0.11	-0.12	-0.06	4715824	14188	208
Hypertension	Autism	1DR	Father	1.06	1.01	1.12	0.03	0.11	0.01	0.21	0.05	4715824	14188	1651
Dyslipidemia	Autism	1DR	Father	1.05	0.86	1.23	0.09	0.05	-0.15	0.25	0.10	4715824	14188	177
Stroke	Autism	1DR	Father	1.19	0.86	1.52	0.17	0.18	-0.11	0.48	0.15	4715824	14188	76
Angina pectoris	Autism	1DR	Father	0.75	0.30	1.20	0.23	-0.22	0.22	-0.66	-0.22	4715824	14188	14
ADHD	Autism	1DR	Father	2.34	2.25	2.44	0.05	0.49	0.46	0.51	0.01	4715824	14188	2943
ADHD	Type-2 diabetes	1DR	Father	1.00	0.98	1.01	0.01	0.00	0.01	-0.01	-0.01	4715824	608066	33194
ADHD	Hypertension	1DR	Father	1.05	1.05	1.06	0.00	0.12	0.10	0.14	0.01	4715824	2308251	136558
ADHD	Dyslipidemia	1DR	Father	1.05	1.05	1.06	0.00	0.07	0.06	0.08	0.01	4715824	1837897	104609
ADHD	Stroke	1DR	Father	1.12	1.10	1.14	0.01	0.15	0.13	0.18	0.01	4715824	286548	16441
ADHD	Angina pectoris	1DR	Father	1.09	1.08	1.11	0.01	0.09	0.07	0.10	0.01	4715824	368433	21056
ADHD	Myocardial infarction	1DR	Father	1.08	1.06	1.10	0.01	0.09	0.06	0.12	0.01	4715824	160293	9736
ADHD	Heart failure	1DR	Father	1.10	1.07	1.13	0.02	0.07	0.05	0.09	0.01	4715824	123424	6177
Autism	Type-2 diabetes	1DR	Father	1.02	0.99	1.05	0.01	0.01	-0.01	0.03	0.01	4715824	608066	7058
Autism	Hypertension	1DR	Father	1.05	1.03	1.06	0.01	0.08	0.05	0.11	0.02	4715824	2308251	28735
Autism	Dyslipidemia	1DR	Father	1.02	1.01	1.04	0.01	0.02	0.00	0.05	0.01	4715824	1837897	21366
Autism	Stroke	1DR	Father	1.12	1.08	1.16	0.02	0.12	0.08	0.16	0.02	4715824	286548	3426
Autism	Angina pectoris	1DR	Father	1.03	1.00	1.07	0.02	0.02	0.00	0.05	0.01	4715824	368433	4153
Autism	Myocardial infarction	1DR	Father	1.05	1.01	1.10	0.02	0.05	0.00	0.09	0.02	4715824	160293	2033
Autism	Heart failure	1DR	Father	1.08	1.00	1.15	0.04	0.04	0.00	0.08	0.02	4715824	123424	1246
Autism	ADHD	1DR	Mother	2.96	2.85	3.06	0.05	0.55	0.53	0.57	0.01	5647850	67495	4068
Type-2 diabetes	ADHD	1DR	Mother	1.03	0.96	1.10	0.04	0.02	-0.03	0.07	0.03	5647850	67495	1119
Hypertension	ADHD	1DR	Mother	1.18	1.16	1.21	0.01	0.34	0.29	0.39	0.02	5647850	67495	8881
Dyslipidemia	ADHD	1DR	Mother	1.10	1.04	1.17	0.03	0.12	0.05	0.19	0.04	5647850	67495	1132
Stroke	ADHD	1DR	Mother	1.17	1.04	1.31	0.07	0.17	0.04	0.29	0.06	5647850	67495	371

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Angina pectoris	ADHD	1DR	Mother	1.08	0.88	1.27	0.10	0.06	-0.09	0.22	0.08	5647850	67495	125
Myocardial infarction	ADHD	1DR	Mother	0.98	0.73	1.23	0.13	-0.02	0.20	-0.24	-0.11	5647850	67495	62
Heart failure	ADHD	1DR	Mother	1.23	0.92	1.54	0.16	0.12	-0.03	0.28	0.08	5647850	67495	74
Type-2 diabetes	Autism	1DR	Mother	0.91	0.56	1.26	0.18	-0.05	0.16	-0.26	-0.11	5647850	5339	67
Hypertension	Autism	1DR	Mother	1.02	0.91	1.13	0.05	0.03	-0.12	0.18	0.08	5647850	5339	623
Dyslipidemia	Autism	1DR	Mother	0.84	0.54	1.14	0.15	-0.15	0.15	-0.45	-0.15	5647850	5339	61
Stroke	Autism	1DR	Mother	0.80	0.24	1.37	0.29	-0.16	0.36	-0.69	-0.27	5647850	5339	18
ADHD	Autism	1DR	Mother	2.72	2.54	2.89	0.09	0.50	0.46	0.54	0.02	5647850	5339	1325
ADHD	Type-2 diabetes	1DR	Mother	0.98	0.97	0.99	0.01	-0.02	-0.01	-0.03	-0.01	5647850	569143	27162
ADHD	Hypertension	1DR	Mother	1.09	1.08	1.09	0.00	0.16	0.15	0.18	0.01	5647850	2765500	162743
ADHD	Dyslipidemia	1DR	Mother	1.09	1.08	1.10	0.00	0.10	0.09	0.11	0.01	5647850	1652146	82130
ADHD	Stroke	1DR	Mother	1.19	1.17	1.21	0.01	0.19	0.17	0.21	0.01	5647850	256701	14618
ADHD	Angina pectoris	1DR	Mother	1.21	1.19	1.24	0.01	0.17	0.15	0.18	0.01	5647850	244509	13484
ADHD	Myocardial infarction	1DR	Mother	1.16	1.12	1.20	0.02	0.13	0.10	0.16	0.02	5647850	71183	3823
ADHD	Heart failure	1DR	Mother	1.15	1.11	1.19	0.02	0.08	0.06	0.11	0.01	5647850	94679	4286
Autism	Type-2 diabetes	1DR	Mother	1.12	1.09	1.16	0.02	0.07	0.05	0.08	0.01	5647850	569143	6281
Autism	Hypertension	1DR	Mother	1.11	1.10	1.12	0.01	0.15	0.13	0.18	0.01	5647850	2765500	34870
Autism	Dyslipidemia	1DR	Mother	1.14	1.12	1.16	0.01	0.12	0.10	0.14	0.01	5647850	1652146	17303
Autism	Stroke	1DR	Mother	1.23	1.19	1.28	0.02	0.17	0.13	0.20	0.02	5647850	256701	3077
Autism	Angina pectoris	1DR	Mother	1.18	1.13	1.23	0.03	0.11	0.08	0.14	0.02	5647850	244509	2649
Autism	Myocardial infarction	1DR	Mother	1.12	1.03	1.22	0.05	0.08	0.02	0.13	0.03	5647850	71183	740
Autism	Heart failure	1DR	Mother	1.23	1.12	1.33	0.05	0.09	0.05	0.13	0.02	5647850	94679	908
Autism	ADHD	1DR	Offspring	2.30	2.21	2.40	0.05	0.48	0.45	0.50	0.01	5169946	614633	3419
Type-2 diabetes	ADHD	1DR	Offspring	1.01	1.00	1.02	0.00	0.01	0.00	0.02	0.00	5169946	614633	54291
Hypertension	ADHD	1DR	Offspring	1.04	1.04	1.05	0.00	0.10	0.09	0.10	0.00	5169946	614633	267673
Dyslipidemia	ADHD	1DR	Offspring	1.04	1.04	1.05	0.00	0.05	0.04	0.05	0.00	5169946	614633	168366
Stroke	ADHD	1DR	Offspring	1.13	1.12	1.15	0.01	0.15	0.14	0.17	0.01	5169946	614633	27994

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Angina pectoris	ADHD	1DR	Offspring	1.12	1.11	1.13	0.01	0.09	0.08	0.10	0.01	5169946	614633	31025
Myocardial infarction	ADHD	1DR	Offspring	1.09	1.07	1.12	0.01	0.08	0.06	0.10	0.01	5169946	614633	12236
Heart failure	ADHD	1DR	Offspring	1.10	1.07	1.12	0.01	0.06	0.05	0.08	0.01	5169946	614633	9544
Type-2 diabetes	Autism	1DR	Offspring	1.03	1.01	1.04	0.01	0.02	0.00	0.03	0.01	5169946	142273	12744
Hypertension	Autism	1DR	Offspring	1.04	1.03	1.04	0.00	0.06	0.05	0.07	0.01	5169946	142273	60972
Dyslipidemia	Autism	1DR	Offspring	1.01	1.00	1.02	0.00	0.01	0.00	0.02	0.00	5169946	142273	37226
Stroke	Autism	1DR	Offspring	1.10	1.07	1.13	0.01	0.09	0.06	0.11	0.01	5169946	142273	6261
Angina pectoris	Autism	1DR	Offspring	1.03	1.01	1.06	0.01	0.02	0.00	0.04	0.01	5169946	142273	6553
Myocardial infarction	Autism	1DR	Offspring	1.04	0.99	1.10	0.03	0.03	-0.01	0.06	0.02	5169946	142273	2674
Heart failure	Autism	1DR	Offspring	1.04	0.99	1.08	0.02	0.02	-0.01	0.04	0.01	5169946	142273	2077
ADHD	Autism	1DR	Offspring	2.75	2.68	2.82	0.04	0.59	0.57	0.61	0.01	5169946	142273	6628
ADHD	Type-2 diabetes	1DR	Offspring	1.05	0.99	1.10	0.03	0.04	0.00	0.08	0.02	5169946	214587	1994
ADHD	Hypertension	1DR	Offspring	1.18	1.15	1.20	0.01	0.37	0.33	0.42	0.02	5169946	1230436	14410
ADHD	Dyslipidemia	1DR	Offspring	1.20	1.11	1.30	0.05	0.21	0.12	0.30	0.05	5169946	267430	1798
ADHD	Stroke	1DR	Offspring	1.26	1.15	1.37	0.06	0.28	0.17	0.39	0.06	5169946	71922	682
ADHD	Angina pectoris	1DR	Offspring	1.01	0.66	1.37	0.18	0.01	-0.27	0.29	0.14	5169946	38086	218
ADHD	Myocardial infarction	1DR	Offspring	1.71	0.72	2.69	0.50	0.50	-0.06	1.05	0.28	5169946	20972	108
ADHD	Heart failure	1DR	Offspring	1.23	0.92	1.54	0.16	0.14	-0.03	0.32	0.09	5169946	15940	131
Autism	Type-2 diabetes	1DR	Offspring	1.02	0.87	1.16	0.07	0.01	-0.08	0.10	0.05	5169946	214587	263
Autism	Hypertension	1DR	Offspring	1.12	1.06	1.18	0.03	0.20	0.11	0.29	0.05	5169946	1230436	1996
Autism	Dyslipidemia	1DR	Offspring	1.46	1.17	1.75	0.15	0.34	0.17	0.52	0.09	5169946	267430	216
Autism	Stroke	1DR	Offspring	1.19	0.90	1.48	0.15	0.16	-0.06	0.39	0.12	5169946	71922	88
Autism	Angina pectoris	1DR	Offspring	1.05	0.00	2.14	0.56	0.03	-0.61	0.67	0.33	5169946	38086	16
Autism	Heart failure	1DR	Offspring	1.32	0.48	2.17	0.43	0.15	-0.19	0.49	0.17	5169946	15940	16
Autism	ADHD	1DR	Son	2.23	2.12	2.34	0.06	0.47	0.44	0.50	0.02	3690992	405418	2380
Type-2 diabetes	ADHD	1DR	Son	1.00	0.99	1.01	0.01	0.00	0.01	-0.01	-0.01	3690992	405418	34130
Hypertension	ADHD	1DR	Son	1.05	1.04	1.05	0.00	0.10	0.09	0.11	0.00	3690992	405418	172141

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Dyslipidemia	ADHD	1DR	Son	1.05	1.04	1.05	0.00	0.05	0.04	0.06	0.00	3690992	405418	106080
Stroke	ADHD	1DR	Son	1.14	1.12	1.16	0.01	0.16	0.14	0.18	0.01	3690992	405418	17493
Angina pectoris	ADHD	1DR	Son	1.12	1.11	1.14	0.01	0.10	0.08	0.11	0.01	3690992	405418	19497
Myocardial infarction	ADHD	1DR	Son	1.11	1.08	1.13	0.01	0.08	0.06	0.11	0.01	3690992	405418	7892
Heart failure	ADHD	1DR	Son	1.10	1.07	1.13	0.02	0.06	0.04	0.08	0.01	3690992	405418	5861
Type-2 diabetes	Autism	1DR	Son	1.04	1.02	1.06	0.01	0.02	0.01	0.04	0.01	3690992	100080	9106
Hypertension	Autism	1DR	Son	1.04	1.03	1.05	0.00	0.07	0.05	0.08	0.01	3690992	100080	42865
Dyslipidemia	Autism	1DR	Son	1.02	1.01	1.03	0.01	0.02	0.01	0.03	0.00	3690992	100080	26189
Stroke	Autism	1DR	Son	1.11	1.08	1.15	0.02	0.10	0.07	0.13	0.02	3690992	100080	4378
Angina pectoris	Autism	1DR	Son	1.04	1.01	1.07	0.02	0.03	0.01	0.05	0.01	3690992	100080	4570
Myocardial infarction	Autism	1DR	Son	1.07	1.02	1.12	0.03	0.04	0.01	0.07	0.02	3690992	100080	1914
Heart failure	Autism	1DR	Son	1.05	1.00	1.11	0.03	0.03	0.00	0.05	0.01	3690992	100080	1477
ADHD	Autism	1DR	Son	2.70	2.62	2.79	0.04	0.59	0.57	0.62	0.01	3690992	100080	4831
ADHD	Type-2 diabetes	1DR	Son	1.07	0.98	1.15	0.04	0.05	-0.02	0.12	0.03	3690992	84849	754
ADHD	Hypertension	1DR	Son	1.24	1.20	1.28	0.02	0.47	0.40	0.53	0.03	3690992	466185	5447
ADHD	Dyslipidemia	1DR	Son	1.16	1.03	1.28	0.06	0.16	0.04	0.28	0.06	3690992	165134	1044
ADHD	Stroke	1DR	Son	1.33	1.17	1.49	0.08	0.36	0.21	0.52	0.08	3690992	33941	333
ADHD	Angina pectoris	1DR	Son	0.98	0.57	1.39	0.21	-0.02	0.32	-0.35	-0.17	3690992	23166	133
ADHD	Myocardial infarction	1DR	Son	1.77	0.68	2.85	0.55	0.51	-0.06	1.07	0.29	3690992	15492	81
ADHD	Heart failure	1DR	Son	0.86	0.55	1.17	0.16	-0.10	0.13	-0.32	-0.11	3690992	8359	55
Autism	Type-2 diabetes	1DR	Son	1.17	0.92	1.41	0.13	0.10	-0.04	0.24	0.07	3690992	84849	104
Autism	Hypertension	1DR	Son	1.25	1.15	1.34	0.05	0.37	0.24	0.50	0.07	3690992	466185	781
Autism	Dyslipidemia	1DR	Son	1.42	1.05	1.79	0.19	0.32	0.09	0.54	0.12	3690992	165134	130
Autism	Stroke	1DR	Son	1.10	0.71	1.49	0.20	0.09	-0.25	0.43	0.17	3690992	33941	36
Autism	ADHD	1DR	Daughter	2.68	2.52	2.84	0.08	0.50	0.47	0.53	0.02	3643260	242837	1423
Type-2 diabetes	ADHD	1DR	Daughter	1.00	0.99	1.02	0.01	0.00	-0.01	0.01	0.01	3643260	242837	22926
Hypertension	ADHD	1DR	Daughter	1.04	1.04	1.05	0.00	0.08	0.07	0.09	0.00	3643260	242837	109760

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Dyslipidemia	ADHD	1DR	Daughter	1.04	1.03	1.04	0.00	0.04	0.03	0.04	0.00	3643260	242837	70614
Stroke	ADHD	1DR	Daughter	1.14	1.11	1.16	0.01	0.13	0.11	0.16	0.01	3643260	242837	11868
Angina pectoris	ADHD	1DR	Daughter	1.11	1.09	1.13	0.01	0.08	0.06	0.09	0.01	3643260	242837	13117
Myocardial infarction	ADHD	1DR	Daughter	1.07	1.04	1.10	0.02	0.07	0.03	0.10	0.02	3643260	242837	4957
Heart failure	ADHD	1DR	Daughter	1.07	1.04	1.11	0.02	0.04	0.02	0.07	0.01	3643260	242837	4096
Type-2 diabetes	Autism	1DR	Daughter	0.96	0.93	0.99	0.02	-0.03	-0.01	-0.05	-0.01	3643260	44758	3876
Hypertension	Autism	1DR	Daughter	1.02	1.01	1.03	0.01	0.04	0.02	0.06	0.01	3643260	44758	19218
Dyslipidemia	Autism	1DR	Daughter	0.98	0.97	1.00	0.01	-0.01	0.00	-0.02	-0.01	3643260	44758	11639
Stroke	Autism	1DR	Daughter	1.10	1.05	1.15	0.03	0.08	0.04	0.12	0.02	3643260	44758	1985
Angina pectoris	Autism	1DR	Daughter	1.00	0.95	1.04	0.02	0.00	0.02	-0.03	-0.01	3643260	44758	2079
Myocardial infarction	Autism	1DR	Daughter	0.97	0.90	1.04	0.04	-0.02	0.04	-0.08	-0.03	3643260	44758	798
Heart failure	Autism	1DR	Daughter	0.98	0.90	1.07	0.04	-0.01	0.03	-0.05	-0.02	3643260	44758	634
ADHD	Autism	1DR	Daughter	2.86	2.73	2.99	0.07	0.53	0.51	0.56	0.01	3643260	44758	2036
ADHD	Type-2 diabetes	1DR	Daughter	1.05	0.98	1.11	0.03	0.03	-0.01	0.08	0.02	3643260	136667	1289
ADHD	Hypertension	1DR	Daughter	1.17	1.14	1.19	0.01	0.33	0.28	0.38	0.02	3643260	854555	9914
ADHD	Dyslipidemia	1DR	Daughter	1.24	1.11	1.36	0.06	0.22	0.12	0.32	0.05	3643260	118387	860
ADHD	Stroke	1DR	Daughter	1.20	1.05	1.34	0.07	0.19	0.06	0.32	0.07	3643260	38731	359
ADHD	Angina pectoris	1DR	Daughter	1.07	0.56	1.57	0.26	0.05	-0.30	0.39	0.18	3643260	15503	87
ADHD	Myocardial infarction	1DR	Daughter	1.28	0.00	2.74	0.75	0.24	-0.91	1.40	0.59	3643260	5595	27
ADHD	Heart failure	1DR	Daughter	1.61	1.10	2.11	0.26	0.32	0.10	0.54	0.11	3643260	7755	76
Autism	Type-2 diabetes	1DR	Daughter	0.93	0.76	1.10	0.08	-0.04	0.06	-0.15	-0.05	3643260	136667	164
Autism	Hypertension	1DR	Daughter	1.07	1.00	1.14	0.03	0.11	0.01	0.21	0.05	3643260	854555	1327
Autism	Dyslipidemia	1DR	Daughter	1.49	1.10	1.87	0.20	0.34	0.12	0.55	0.11	3643260	118387	97
Autism	Stroke	1DR	Daughter	1.23	0.85	1.62	0.20	0.18	-0.09	0.44	0.13	3643260	38731	52
Autism	Heart failure	1DR	Daughter	2.21	0.60	3.83	0.82	0.44	0.03	0.84	0.21	3643260	7755	11
Autism	ADHD	1DR	Sibling	1.98	1.93	2.02	0.02	0.53	0.52	0.55	0.01	7758936	509015	13363
Type-2 diabetes	ADHD	1DR	Sibling	0.98	0.96	1.00	0.01	-0.02	0.00	-0.03	-0.01	7758936	509015	15270

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Hypertension	ADHD	1DR	Sibling	1.06	1.05	1.06	0.00	0.11	0.10	0.12	0.01	7758936	509015	96491
Dyslipidemia	ADHD	1DR	Sibling	1.03	1.02	1.04	0.00	0.03	0.02	0.04	0.01	7758936	509015	32325
Stroke	ADHD	1DR	Sibling	1.11	1.08	1.14	0.02	0.12	0.09	0.15	0.02	7758936	509015	6456
Angina pectoris	ADHD	1DR	Sibling	1.05	1.02	1.08	0.02	0.05	0.02	0.08	0.02	7758936	509015	5047
Myocardial infarction	ADHD	1DR	Sibling	1.03	0.99	1.08	0.02	0.03	-0.01	0.08	0.02	7758936	509015	2175
Heart failure	ADHD	1DR	Sibling	1.09	1.03	1.14	0.03	0.05	0.02	0.08	0.02	7758936	509015	1794
Type-2 diabetes	Autism	1DR	Sibling	0.88	0.85	0.92	0.02	-0.08	-0.06	-0.11	-0.01	7758936	114552	3260
Hypertension	Autism	1DR	Sibling	0.99	0.98	1.00	0.01	-0.01	0.00	-0.03	-0.01	7758936	114552	20785
Dyslipidemia	Autism	1DR	Sibling	0.92	0.90	0.94	0.01	-0.08	-0.06	-0.10	-0.01	7758936	114552	6830
Stroke	Autism	1DR	Sibling	0.99	0.93	1.05	0.03	-0.01	0.04	-0.06	-0.03	7758936	114552	1361
Angina pectoris	Autism	1DR	Sibling	0.92	0.86	0.98	0.03	-0.07	-0.02	-0.12	-0.03	7758936	114552	1048
Myocardial infarction	Autism	1DR	Sibling	0.95	0.86	1.04	0.05	-0.04	0.03	-0.11	-0.04	7758936	114552	469
Heart failure	Autism	1DR	Sibling	0.91	0.81	1.01	0.05	-0.04	0.01	-0.10	-0.03	7758936	114552	361
ADHD	Autism	1DR	Sibling	2.00	1.96	2.03	0.02	0.54	0.53	0.56	0.01	7758936	114552	14320
ADHD	Type-2 diabetes	1DR	Sibling	0.97	0.94	0.99	0.01	-0.03	-0.01	-0.05	-0.01	7758936	714216	14292
ADHD	Hypertension	1DR	Sibling	1.14	1.13	1.15	0.00	0.27	0.25	0.29	0.01	7758936	2887200	81146
ADHD	Dyslipidemia	1DR	Sibling	1.01	0.99	1.04	0.01	0.02	-0.02	0.05	0.02	7758936	1608674	24693
ADHD	Stroke	1DR	Sibling	1.15	1.11	1.20	0.02	0.16	0.12	0.20	0.02	7758936	373871	6484
ADHD	Angina pectoris	1DR	Sibling	0.99	0.89	1.08	0.05	-0.01	0.08	-0.11	-0.05	7758936	360983	4783
ADHD	Myocardial infarction	1DR	Sibling	0.96	0.82	1.10	0.07	-0.04	0.10	-0.18	-0.07	7758936	158235	2215
ADHD	Heart failure	1DR	Sibling	1.14	1.03	1.24	0.05	0.08	0.02	0.14	0.03	7758936	128491	1848
Autism	Type-2 diabetes	1DR	Sibling	0.95	0.91	1.00	0.02	-0.03	0.00	-0.07	-0.02	7758936	714216	2992
Autism	Hypertension	1DR	Sibling	1.10	1.08	1.12	0.01	0.15	0.12	0.19	0.02	7758936	2887200	16820
Autism	Dyslipidemia	1DR	Sibling	0.96	0.90	1.03	0.03	-0.04	0.03	-0.10	-0.03	7758936	1608674	5140
Autism	Stroke	1DR	Sibling	1.10	1.01	1.20	0.05	0.09	0.01	0.17	0.04	7758936	373871	1328
Autism	Angina pectoris	1DR	Sibling	0.75	0.59	0.91	0.08	-0.22	-0.05	-0.39	-0.09	7758936	360983	964
Autism	Myocardial infarction	1DR	Sibling	0.60	0.42	0.79	0.09	-0.38	-0.15	-0.60	-0.12	7758936	158235	451

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Autism	Heart failure	1DR	Sibling	1.16	0.92	1.39	0.12	0.07	-0.03	0.17	0.05	7758936	128491	348
Autism	ADHD	1DR	Brother	1.95	1.89	2.01	0.03	0.52	0.50	0.55	0.01	5183982	317764	8326
Type-2 diabetes	ADHD	1DR	Brother	0.98	0.96	1.01	0.01	-0.01	0.01	-0.03	-0.01	5183982	317764	9016
Hypertension	ADHD	1DR	Brother	1.06	1.05	1.07	0.00	0.11	0.09	0.12	0.01	5183982	317764	57736
Dyslipidemia	ADHD	1DR	Brother	1.04	1.03	1.05	0.01	0.05	0.03	0.07	0.01	5183982	317764	18543
Stroke	ADHD	1DR	Brother	1.13	1.09	1.17	0.02	0.14	0.10	0.18	0.02	5183982	317764	3737
Angina pectoris	ADHD	1DR	Brother	1.09	1.05	1.13	0.02	0.09	0.05	0.13	0.02	5183982	317764	2932
Myocardial infarction	ADHD	1DR	Brother	1.04	0.98	1.11	0.03	0.04	-0.02	0.11	0.03	5183982	317764	1237
Heart failure	ADHD	1DR	Brother	1.08	1.01	1.16	0.04	0.05	0.01	0.10	0.02	5183982	317764	1007
Type-2 diabetes	Autism	1DR	Brother	0.88	0.84	0.92	0.02	-0.08	-0.05	-0.11	-0.01	5183982	80869	2380
Hypertension	Autism	1DR	Brother	1.00	0.98	1.01	0.01	0.00	0.02	-0.02	-0.01	5183982	80869	15068
Dyslipidemia	Autism	1DR	Brother	0.93	0.91	0.95	0.01	-0.07	-0.05	-0.10	-0.01	5183982	80869	5167
Stroke	Autism	1DR	Brother	0.99	0.92	1.05	0.03	-0.01	0.05	-0.08	-0.03	5183982	80869	1009
Angina pectoris	Autism	1DR	Brother	0.91	0.84	0.98	0.03	-0.08	-0.02	-0.13	-0.03	5183982	80869	782
Myocardial infarction	Autism	1DR	Brother	0.96	0.86	1.07	0.05	-0.03	0.06	-0.12	-0.04	5183982	80869	352
Heart failure	Autism	1DR	Brother	0.92	0.80	1.04	0.06	-0.04	0.02	-0.11	-0.03	5183982	80869	270
ADHD	Autism	1DR	Brother	2.04	2.00	2.08	0.02	0.56	0.54	0.58	0.01	5183982	80869	10057
ADHD	Type-2 diabetes	1DR	Brother	0.97	0.93	1.00	0.02	-0.03	0.00	-0.06	-0.02	5183982	406553	6520
ADHD	Hypertension	1DR	Brother	1.17	1.15	1.18	0.01	0.29	0.27	0.32	0.01	5183982	1552747	33649
ADHD	Dyslipidemia	1DR	Brother	0.99	0.95	1.03	0.02	-0.01	0.04	-0.06	-0.03	5183982	1082030	15604
ADHD	Stroke	1DR	Brother	1.16	1.10	1.22	0.03	0.18	0.11	0.24	0.03	5183982	209413	3315
ADHD	Angina pectoris	1DR	Brother	0.92	0.81	1.03	0.06	-0.08	0.04	-0.21	-0.06	5183982	235017	2992
ADHD	Myocardial infarction	1DR	Brother	0.89	0.74	1.04	0.07	-0.12	0.05	-0.28	-0.08	5183982	117135	1599
ADHD	Heart failure	1DR	Brother	1.03	0.90	1.16	0.07	0.02	-0.06	0.10	0.04	5183982	76602	993
Autism	Type-2 diabetes	1DR	Brother	1.02	0.94	1.11	0.04	0.01	-0.04	0.07	0.03	5183982	406553	1377
Autism	Hypertension	1DR	Brother	1.14	1.11	1.18	0.02	0.20	0.15	0.24	0.02	5183982	1552747	7123
Autism	Dyslipidemia	1DR	Brother	0.93	0.85	1.02	0.04	-0.07	0.02	-0.16	-0.05	5183982	1082030	3222

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Autism	Stroke	1DR	Brother	1.03	0.89	1.16	0.07	0.02	-0.10	0.14	0.06	5183982	209413	651
Autism	Angina pectoris	1DR	Brother	0.76	0.55	0.98	0.11	-0.21	0.01	-0.43	-0.11	5183982	235017	595
Autism	Myocardial infarction	1DR	Brother	0.58	0.40	0.76	0.09	-0.41	-0.17	-0.65	-0.12	5183982	117135	342
Autism	Heart failure	1DR	Brother	1.08	0.77	1.38	0.16	0.04	-0.11	0.18	0.07	5183982	76602	187
Autism	ADHD	1DR	Sister	2.15	2.09	2.22	0.03	0.56	0.53	0.58	0.01	5136529	207816	5750
Type-2 diabetes	ADHD	1DR	Sister	0.97	0.94	0.99	0.01	-0.03	-0.01	-0.05	-0.01	5136529	207816	6648
Hypertension	ADHD	1DR	Sister	1.05	1.04	1.06	0.00	0.09	0.07	0.11	0.01	5136529	207816	41482
Dyslipidemia	ADHD	1DR	Sister	1.01	0.99	1.02	0.01	0.01	-0.01	0.03	0.01	5136529	207816	14420
Stroke	ADHD	1DR	Sister	1.11	1.06	1.15	0.02	0.10	0.06	0.15	0.02	5136529	207816	2884
Angina pectoris	ADHD	1DR	Sister	1.00	0.96	1.05	0.02	0.00	-0.04	0.05	0.02	5136529	207816	2218
Myocardial infarction	ADHD	1DR	Sister	1.02	0.95	1.09	0.03	0.02	-0.05	0.08	0.03	5136529	207816	981
Heart failure	ADHD	1DR	Sister	1.11	1.03	1.20	0.04	0.06	0.02	0.11	0.02	5136529	207816	829
Type-2 diabetes	Autism	1DR	Sister	0.86	0.79	0.93	0.03	-0.10	-0.05	-0.15	-0.03	5136529	34919	902
Hypertension	Autism	1DR	Sister	0.96	0.94	0.99	0.01	-0.06	-0.02	-0.09	-0.02	5136529	34919	5918
Dyslipidemia	Autism	1DR	Sister	0.89	0.85	0.93	0.02	-0.10	-0.06	-0.14	-0.02	5136529	34919	1698
Stroke	Autism	1DR	Sister	1.02	0.89	1.14	0.06	0.01	-0.09	0.11	0.05	5136529	34919	368
Angina pectoris	Autism	1DR	Sister	0.96	0.84	1.09	0.06	-0.03	0.07	-0.13	-0.05	5136529	34919	275
Myocardial infarction	Autism	1DR	Sister	0.93	0.74	1.12	0.10	-0.05	0.10	-0.21	-0.08	5136529	34919	117
Heart failure	Autism	1DR	Sister	0.87	0.66	1.09	0.11	-0.06	0.05	-0.18	-0.06	5136529	34919	92
ADHD	Autism	1DR	Sister	2.04	1.97	2.11	0.04	0.51	0.48	0.54	0.01	5136529	34919	4541
ADHD	Type-2 diabetes	1DR	Sister	0.95	0.93	0.97	0.01	-0.04	-0.02	-0.06	-0.01	5136529	371410	8530
ADHD	Hypertension	1DR	Sister	1.12	1.11	1.13	0.01	0.22	0.20	0.24	0.01	5136529	1910046	55596
ADHD	Dyslipidemia	1DR	Sister	1.05	1.01	1.09	0.02	0.06	0.02	0.10	0.02	5136529	846309	12461
ADHD	Stroke	1DR	Sister	1.16	1.10	1.22	0.03	0.15	0.10	0.21	0.03	5136529	177736	3336
ADHD	Angina pectoris	1DR	Sister	1.10	0.96	1.25	0.07	0.10	-0.03	0.23	0.07	5136529	145147	1999
ADHD	Myocardial infarction	1DR	Sister	1.27	0.97	1.58	0.16	0.23	0.00	0.47	0.12	5136529	43440	641
ADHD	Heart failure	1DR	Sister	1.24	1.11	1.37	0.07	0.13	0.07	0.20	0.03	5136529	53424	876

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Autism	Type-2 diabetes	1DR	Sister	0.90	0.85	0.95	0.03	-0.07	-0.03	-0.11	-0.02	5136529	371410	1734
Autism	Hypertension	1DR	Sister	1.07	1.04	1.09	0.01	0.10	0.06	0.14	0.02	5136529	1910046	11361
Autism	Dyslipidemia	1DR	Sister	1.00	0.92	1.09	0.04	0.00	-0.08	0.08	0.04	5136529	846309	2581
Autism	Stroke	1DR	Sister	1.17	1.04	1.30	0.07	0.13	0.04	0.23	0.05	5136529	177736	707
Autism	Angina pectoris	1DR	Sister	0.78	0.55	1.01	0.12	-0.19	0.04	-0.41	-0.11	5136529	145147	408
Autism	Myocardial infarction	1DR	Sister	0.74	0.28	1.20	0.23	-0.22	0.23	-0.67	-0.23	5136529	43440	118
Autism	Heart failure	1DR	Sister	1.24	0.91	1.58	0.17	0.11	-0.03	0.24	0.07	5136529	53424	166
Autism	ADHD	2DR	Any 2DR	1.34	1.32	1.37	0.01	0.57	0.52	0.61	0.02	9850982	1733569	13394
Type-2 diabetes	ADHD	2DR	Any 2DR	1.01	1.00	1.01	0.00	0.02	0.00	0.04	0.01	9850982	1733569	147588
Hypertension	ADHD	2DR	Any 2DR	1.02	1.01	1.02	0.00	0.14	0.11	0.17	0.01	9850982	1733569	684164
Dyslipidemia	ADHD	2DR	Any 2DR	1.02	1.02	1.03	0.00	0.09	0.07	0.11	0.01	9850982	1733569	446020
Stroke	ADHD	2DR	Any 2DR	1.05	1.05	1.06	0.00	0.23	0.18	0.27	0.02	9850982	1733569	73837
Angina pectoris	ADHD	2DR	Any 2DR	1.07	1.06	1.08	0.00	0.18	0.16	0.21	0.01	9850982	1733569	79269
Myocardial infarction	ADHD	2DR	Any 2DR	1.06	1.05	1.07	0.01	0.16	0.12	0.21	0.02	9850982	1733569	30260
Heart failure	ADHD	2DR	Any 2DR	1.04	1.03	1.06	0.01	0.11	0.07	0.15	0.02	9850982	1733569	28604
Type-2 diabetes	Autism	2DR	Any 2DR	1.00	0.99	1.01	0.01	0.00	-0.02	0.02	0.01	9850982	442835	39062
Hypertension	Autism	2DR	Any 2DR	1.00	1.00	1.01	0.00	0.01	-0.02	0.05	0.02	9850982	442835	178438
Dyslipidemia	Autism	2DR	Any 2DR	1.00	1.00	1.01	0.00	0.01	-0.01	0.03	0.01	9850982	442835	117088
Stroke	Autism	2DR	Any 2DR	1.05	1.03	1.07	0.01	0.16	0.10	0.21	0.03	9850982	442835	19626
Angina pectoris	Autism	2DR	Any 2DR	1.03	1.02	1.04	0.01	0.06	0.03	0.09	0.02	9850982	442835	20483
Myocardial infarction	Autism	2DR	Any 2DR	1.04	1.01	1.06	0.01	0.07	0.02	0.13	0.03	9850982	442835	7904
Heart failure	Autism	2DR	Any 2DR	1.03	1.01	1.06	0.01	0.06	0.01	0.12	0.03	9850982	442835	7591
ADHD	Autism	2DR	Any 2DR	1.34	1.32	1.37	0.01	0.57	0.53	0.60	0.02	9850982	442835	15259
ADHD	Type-2 diabetes	2DR	Any 2DR	1.00	1.00	1.01	0.00	0.00	-0.02	0.02	0.01	9850982	3028577	170302
ADHD	Hypertension	2DR	Any 2DR	1.00	1.00	1.01	0.00	0.04	-0.02	0.09	0.03	9850982	7419521	374909
ADHD	Dyslipidemia	2DR	Any 2DR	1.01	1.01	1.01	0.00	0.04	0.01	0.07	0.01	9850982	5563233	322916
ADHD	Stroke	2DR	Any 2DR	1.04	1.03	1.04	0.00	0.15	0.11	0.19	0.02	9850982	1968129	117039

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
ADHD	Angina pectoris	2DR	Any 2DR	1.04	1.03	1.05	0.00	0.11	0.09	0.13	0.01	9850982	1823664	111783
ADHD	Myocardial infarction	2DR	Any 2DR	1.03	1.02	1.04	0.01	0.07	0.04	0.10	0.02	9850982	814179	48780
ADHD	Heart failure	2DR	Any 2DR	1.03	1.02	1.04	0.01	0.08	0.05	0.11	0.02	9850982	990921	60904
Autism	Type-2 diabetes	2DR	Any 2DR	1.00	0.99	1.02	0.01	0.01	-0.03	0.04	0.02	9850982	3028577	36974
Autism	Hypertension	2DR	Any 2DR	1.00	0.99	1.01	0.01	-0.03	0.06	-0.12	-0.05	9850982	7419521	80476
Autism	Dyslipidemia	2DR	Any 2DR	0.99	0.98	1.01	0.01	-0.02	0.03	-0.06	-0.02	9850982	5563233	69222
Autism	Stroke	2DR	Any 2DR	1.03	1.01	1.04	0.01	0.08	0.03	0.14	0.03	9850982	1968129	25139
Autism	Angina pectoris	2DR	Any 2DR	1.01	0.99	1.02	0.01	0.01	-0.02	0.05	0.02	9850982	1823664	23427
Autism	Myocardial infarction	2DR	Any 2DR	1.00	0.98	1.02	0.01	0.00	-0.05	0.05	0.03	9850982	814179	10286
Autism	Heart failure	2DR	Any 2DR	1.02	1.00	1.04	0.01	0.04	-0.01	0.08	0.02	9850982	990921	13027
Autism	ADHD	2DR	Aunt/Uncle	1.34	1.31	1.38	0.02	0.61	0.55	0.67	0.03	5677042	297711	6933
Type-2 diabetes	ADHD	2DR	Aunt/Uncle	0.94	0.91	0.97	0.01	-0.16	-0.08	-0.25	-0.04	5677042	297711	5546
Hypertension	ADHD	2DR	Aunt/Uncle	1.02	1.01	1.03	0.01	0.15	0.05	0.24	0.05	5677042	297711	39232
Dyslipidemia	ADHD	2DR	Aunt/Uncle	1.00	0.98	1.03	0.01	0.01	-0.12	0.15	0.07	5677042	297711	6723
Stroke	ADHD	2DR	Aunt/Uncle	1.01	0.96	1.07	0.03	0.06	-0.17	0.29	0.12	5677042	297711	1867
Angina pectoris	ADHD	2DR	Aunt/Uncle	1.00	0.93	1.07	0.04	0.01	-0.23	0.25	0.12	5677042	297711	848
Myocardial infarction	ADHD	2DR	Aunt/Uncle	1.07	0.96	1.17	0.05	0.21	-0.11	0.53	0.16	5677042	297711	456
Heart failure	ADHD	2DR	Aunt/Uncle	1.00	0.88	1.11	0.06	-0.01	0.26	-0.28	-0.14	5677042	297711	390
Type-2 diabetes	Autism	2DR	Aunt/Uncle	0.82	0.76	0.88	0.03	-0.43	-0.27	-0.59	-0.08	5677042	65359	1023
Hypertension	Autism	2DR	Aunt/Uncle	0.93	0.91	0.95	0.01	-0.55	-0.37	-0.73	-0.09	5677042	65359	7806
Dyslipidemia	Autism	2DR	Aunt/Uncle	0.86	0.80	0.91	0.03	-0.67	-0.38	-0.96	-0.15	5677042	65359	1103
Stroke	Autism	2DR	Aunt/Uncle	0.97	0.84	1.10	0.07	-0.10	0.36	-0.56	-0.23	5677042	65359	354
Angina pectoris	Autism	2DR	Aunt/Uncle	0.89	0.71	1.06	0.09	-0.31	0.20	-0.83	-0.26	5677042	65359	128
Myocardial infarction	Autism	2DR	Aunt/Uncle	0.95	0.70	1.19	0.13	-0.14	0.52	-0.79	-0.33	5677042	65359	78
Heart failure	Autism	2DR	Aunt/Uncle	1.02	0.73	1.32	0.15	0.04	-0.50	0.58	0.28	5677042	65359	72
ADHD	Autism	2DR	Aunt/Uncle	1.27	1.23	1.30	0.02	0.49	0.43	0.54	0.03	5677042	65359	6654
ADHD	Type-2 diabetes	2DR	Aunt/Uncle	1.00	0.99	1.01	0.00	0.00	-0.02	0.03	0.01	5677042	1799186	99683

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
ADHD	Hypertension	2DR	Aunt/Uncle	1.01	1.01	1.02	0.00	0.11	0.05	0.17	0.03	5677042	4640001	284062
ADHD	Dyslipidemia	2DR	Aunt/Uncle	1.01	1.01	1.02	0.00	0.07	0.03	0.11	0.02	5677042	3817489	217140
ADHD	Stroke	2DR	Aunt/Uncle	1.04	1.03	1.05	0.00	0.17	0.12	0.21	0.02	5677042	1172317	62669
ADHD	Angina pectoris	2DR	Aunt/Uncle	1.03	1.02	1.04	0.00	0.11	0.08	0.15	0.02	5677042	1212781	65165
ADHD	Myocardial infarction	2DR	Aunt/Uncle	1.03	1.01	1.04	0.01	0.08	0.04	0.12	0.02	5677042	533915	29081
ADHD	Heart failure	2DR	Aunt/Uncle	1.04	1.02	1.05	0.01	0.09	0.05	0.13	0.02	5677042	511680	24672
Autism	Type-2 diabetes	2DR	Aunt/Uncle	1.02	1.00	1.04	0.01	0.04	0.00	0.09	0.02	5677042	1799186	21568
Autism	Hypertension	2DR	Aunt/Uncle	1.01	1.00	1.02	0.01	0.08	-0.03	0.18	0.05	5677042	4640001	60905
Autism	Dyslipidemia	2DR	Aunt/Uncle	1.01	0.99	1.02	0.01	0.03	-0.04	0.09	0.03	5677042	3817489	46148
Autism	Stroke	2DR	Aunt/Uncle	1.05	1.03	1.07	0.01	0.18	0.10	0.25	0.04	5677042	1172317	13429
Autism	Angina pectoris	2DR	Aunt/Uncle	1.01	0.99	1.03	0.01	0.02	-0.03	0.08	0.03	5677042	1212781	13459
Autism	Myocardial infarction	2DR	Aunt/Uncle	1.00	0.97	1.03	0.01	0.01	-0.07	0.08	0.04	5677042	533915	6068
Autism	Heart failure	2DR	Aunt/Uncle	1.05	1.02	1.09	0.02	0.10	0.04	0.17	0.03	5677042	511680	5278
Autism	ADHD	2DR	Uncle	1.34	1.29	1.38	0.02	0.60	0.52	0.68	0.04	4882166	167005	3834
Type-2 diabetes	ADHD	2DR	Uncle	0.95	0.92	0.99	0.02	-0.12	-0.02	-0.23	-0.05	4882166	167005	3095
Hypertension	ADHD	2DR	Uncle	1.02	1.00	1.03	0.01	0.12	0.02	0.22	0.05	4882166	167005	21747
Dyslipidemia	ADHD	2DR	Uncle	0.99	0.96	1.02	0.02	-0.05	0.11	-0.21	-0.08	4882166	167005	3563
Stroke	ADHD	2DR	Uncle	1.00	0.93	1.07	0.04	0.00	-0.30	0.31	0.16	4882166	167005	996
Angina pectoris	ADHD	2DR	Uncle	1.02	0.92	1.13	0.05	0.07	-0.25	0.40	0.16	4882166	167005	451
Myocardial infarction	ADHD	2DR	Uncle	1.11	0.96	1.26	0.08	0.32	-0.11	0.76	0.22	4882166	167005	242
Heart failure	ADHD	2DR	Uncle	1.02	0.87	1.18	0.08	0.06	-0.31	0.42	0.19	4882166	167005	220
Type-2 diabetes	Autism	2DR	Uncle	0.84	0.77	0.91	0.03	-0.36	-0.19	-0.53	-0.09	4882166	49406	793
Hypertension	Autism	2DR	Uncle	0.95	0.93	0.98	0.01	-0.29	-0.14	-0.45	-0.08	4882166	49406	5976
Dyslipidemia	Autism	2DR	Uncle	0.89	0.83	0.96	0.03	-0.43	-0.15	-0.70	-0.14	4882166	49406	877
Stroke	Autism	2DR	Uncle	1.00	0.86	1.14	0.07	-0.01	0.49	-0.50	-0.25	4882166	49406	275
Angina pectoris	Autism	2DR	Uncle	0.96	0.75	1.16	0.10	-0.12	0.43	-0.66	-0.28	4882166	49406	106
Myocardial infarction	Autism	2DR	Uncle	0.98	0.70	1.25	0.14	-0.06	0.65	-0.78	-0.37	4882166	49406	62

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Heart failure	Autism	2DR	Uncle	1.03	0.72	1.35	0.16	0.06	-0.52	0.65	0.30	4882166	49406	60
ADHD	Autism	2DR	Uncle	1.25	1.22	1.29	0.02	0.47	0.40	0.53	0.03	4882166	49406	4828
ADHD	Type-2 diabetes	2DR	Uncle	1.02	1.01	1.03	0.00	0.05	0.02	0.07	0.01	4882166	1164306	63902
ADHD	Hypertension	2DR	Uncle	1.02	1.01	1.02	0.00	0.12	0.07	0.18	0.03	4882166	3335335	193394
ADHD	Dyslipidemia	2DR	Uncle	1.02	1.01	1.02	0.00	0.08	0.04	0.12	0.02	4882166	2842892	158315
ADHD	Stroke	2DR	Uncle	1.04	1.03	1.05	0.01	0.17	0.11	0.23	0.03	4882166	686749	35811
ADHD	Angina pectoris	2DR	Uncle	1.04	1.03	1.05	0.01	0.13	0.09	0.16	0.02	4882166	810594	42913
ADHD	Myocardial infarction	2DR	Uncle	1.03	1.02	1.05	0.01	0.11	0.06	0.16	0.03	4882166	385065	21262
ADHD	Heart failure	2DR	Uncle	1.04	1.02	1.06	0.01	0.10	0.05	0.14	0.02	4882166	306462	14747
Autism	Type-2 diabetes	2DR	Uncle	1.03	1.01	1.05	0.01	0.06	0.01	0.10	0.02	4882166	1164306	13727
Autism	Hypertension	2DR	Uncle	1.01	1.00	1.02	0.01	0.07	-0.02	0.16	0.05	4882166	3335335	41394
Autism	Dyslipidemia	2DR	Uncle	1.00	0.99	1.02	0.01	0.01	-0.05	0.08	0.03	4882166	2842892	33600
Autism	Stroke	2DR	Uncle	1.05	1.03	1.08	0.01	0.18	0.08	0.28	0.05	4882166	686749	7732
Autism	Angina pectoris	2DR	Uncle	1.01	0.98	1.03	0.01	0.02	-0.05	0.09	0.03	4882166	810594	8871
Autism	Myocardial infarction	2DR	Uncle	1.00	0.97	1.03	0.02	0.00	-0.08	0.09	0.04	4882166	385065	4441
Autism	Heart failure	2DR	Uncle	1.07	1.02	1.11	0.02	0.12	0.04	0.21	0.04	4882166	306462	3189
Autism	ADHD	2DR	Aunt	1.41	1.36	1.46	0.03	0.61	0.53	0.68	0.04	4888830	139436	3412
Type-2 diabetes	ADHD	2DR	Aunt	0.93	0.89	0.97	0.02	-0.16	-0.06	-0.25	-0.05	4888830	139436	2549
Hypertension	ADHD	2DR	Aunt	1.03	1.02	1.05	0.01	0.22	0.12	0.32	0.05	4888830	139436	18421
Dyslipidemia	ADHD	2DR	Aunt	1.03	0.99	1.06	0.02	0.10	-0.03	0.24	0.07	4888830	139436	3196
Stroke	ADHD	2DR	Aunt	1.05	0.97	1.12	0.04	0.16	-0.10	0.41	0.13	4888830	139436	906
Angina pectoris	ADHD	2DR	Aunt	0.98	0.88	1.08	0.05	-0.05	0.22	-0.32	-0.14	4888830	139436	392
Myocardial infarction	ADHD	2DR	Aunt	1.05	0.91	1.20	0.07	0.14	-0.23	0.51	0.19	4888830	139436	218
Heart failure	ADHD	2DR	Aunt	0.97	0.81	1.13	0.08	-0.06	0.25	-0.36	-0.15	4888830	139436	174
Type-2 diabetes	Autism	2DR	Aunt	0.80	0.67	0.93	0.07	-0.38	-0.11	-0.65	-0.14	4888830	16483	231
Hypertension	Autism	2DR	Aunt	0.90	0.86	0.95	0.02	-0.52	-0.26	-0.78	-0.13	4888830	16483	1894
Dyslipidemia	Autism	2DR	Aunt	0.78	0.67	0.90	0.06	-0.70	-0.29	-1.11	-0.21	4888830	16483	237

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Stroke	Autism	2DR	Aunt	0.91	0.66	1.16	0.13	-0.25	0.48	-0.98	-0.37	4888830	16483	82
Angina pectoris	Autism	2DR	Aunt	0.69	0.37	1.02	0.17	-0.71	0.19	-1.61	-0.46	4888830	16483	24
Myocardial infarction	Autism	2DR	Aunt	0.82	0.36	1.28	0.24	-0.40	0.72	-1.52	-0.57	4888830	16483	16
Heart failure	Autism	2DR	Aunt	0.94	0.29	1.59	0.33	-0.09	0.90	-1.07	-0.50	4888830	16483	12
ADHD	Autism	2DR	Aunt	1.40	1.33	1.47	0.04	0.59	0.49	0.69	0.05	4888830	16483	1895
ADHD	Type-2 diabetes	2DR	Aunt	1.01	1.00	1.02	0.00	0.01	-0.01	0.04	0.01	4888830	939262	51393
ADHD	Hypertension	2DR	Aunt	1.02	1.02	1.03	0.00	0.15	0.10	0.20	0.02	4888830	3461008	209573
ADHD	Dyslipidemia	2DR	Aunt	1.03	1.03	1.04	0.00	0.12	0.09	0.15	0.02	4888830	2426131	132419
ADHD	Stroke	2DR	Aunt	1.07	1.06	1.08	0.01	0.24	0.19	0.29	0.03	4888830	575363	31372
ADHD	Angina pectoris	2DR	Aunt	1.07	1.06	1.08	0.01	0.18	0.14	0.22	0.02	4888830	520137	28255
ADHD	Myocardial infarction	2DR	Aunt	1.08	1.06	1.10	0.01	0.21	0.14	0.27	0.03	4888830	162064	8703
ADHD	Heart failure	2DR	Aunt	1.08	1.05	1.10	0.01	0.14	0.10	0.18	0.02	4888830	216476	10564
Autism	Type-2 diabetes	2DR	Aunt	1.02	1.00	1.04	0.01	0.04	0.00	0.08	0.02	4888830	939262	11085
Autism	Hypertension	2DR	Aunt	1.02	1.01	1.03	0.01	0.11	0.03	0.19	0.04	4888830	3461008	44744
Autism	Dyslipidemia	2DR	Aunt	1.03	1.01	1.05	0.01	0.09	0.04	0.14	0.03	4888830	2426131	27997
Autism	Stroke	2DR	Aunt	1.08	1.05	1.11	0.01	0.20	0.12	0.28	0.04	4888830	575363	6660
Autism	Angina pectoris	2DR	Aunt	1.04	1.01	1.07	0.02	0.07	0.01	0.14	0.03	4888830	520137	5748
Autism	Myocardial infarction	2DR	Aunt	1.06	1.01	1.12	0.03	0.13	0.02	0.24	0.06	4888830	162064	1794
Autism	Heart failure	2DR	Aunt	1.07	1.01	1.12	0.03	0.09	0.02	0.17	0.04	4888830	216476	2211
Autism	ADHD	2DR	Niece/Nephew	1.21	1.17	1.25	0.02	0.43	0.36	0.51	0.04	4907238	1208998	4978
Type-2 diabetes	ADHD	2DR	Niece/Nephew	1.02	1.01	1.02	0.00	0.04	0.02	0.06	0.01	4907238	1208998	104615
Hypertension	ADHD	2DR	Niece/Nephew	1.01	1.01	1.01	0.00	0.09	0.07	0.11	0.01	4907238	1208998	508915
Dyslipidemia	ADHD	2DR	Niece/Nephew	1.02	1.02	1.02	0.00	0.07	0.05	0.08	0.01	4907238	1208998	335685
Stroke	ADHD	2DR	Niece/Nephew	1.05	1.04	1.06	0.01	0.17	0.13	0.21	0.02	4907238	1208998	53531
Angina pectoris	ADHD	2DR	Niece/Nephew	1.06	1.05	1.07	0.01	0.16	0.13	0.18	0.01	4907238	1208998	58812
Myocardial infarction	ADHD	2DR	Niece/Nephew	1.05	1.03	1.06	0.01	0.12	0.07	0.16	0.02	4907238	1208998	23159
Heart failure	ADHD	2DR	Niece/Nephew	1.03	1.01	1.04	0.01	0.06	0.02	0.10	0.02	4907238	1208998	18813

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Type-2 diabetes	Autism	2DR	Niece/Nephew	1.01	1.00	1.02	0.01	0.02	-0.01	0.04	0.01	4907238	315654	27131
Hypertension	Autism	2DR	Niece/Nephew	1.00	1.00	1.01	0.00	0.02	-0.01	0.05	0.02	4907238	315654	131405
Dyslipidemia	Autism	2DR	Niece/Nephew	1.00	1.00	1.01	0.00	0.01	-0.01	0.02	0.01	4907238	315654	85913
Stroke	Autism	2DR	Niece/Nephew	1.04	1.02	1.06	0.01	0.11	0.06	0.17	0.03	4907238	315654	13868
Angina pectoris	Autism	2DR	Niece/Nephew	1.02	1.00	1.04	0.01	0.04	0.00	0.07	0.02	4907238	315654	14708
Myocardial infarction	Autism	2DR	Niece/Nephew	1.03	1.00	1.06	0.01	0.06	0.00	0.11	0.03	4907238	315654	5934
Heart failure	Autism	2DR	Niece/Nephew	1.02	0.99	1.05	0.02	0.03	-0.02	0.07	0.03	4907238	315654	4833
ADHD	Autism	2DR	Niece/Nephew	1.34	1.31	1.37	0.02	0.67	0.60	0.74	0.03	4907238	315654	6868
ADHD	Type-2 diabetes	2DR	Niece/Nephew	0.91	0.88	0.94	0.02	-0.24	-0.15	-0.32	-0.04	4907238	488045	4929
ADHD	Hypertension	2DR	Niece/Nephew	1.01	0.99	1.03	0.01	0.07	-0.05	0.20	0.06	4907238	2075346	25475
ADHD	Dyslipidemia	2DR	Niece/Nephew	0.99	0.95	1.03	0.02	-0.04	0.11	-0.19	-0.08	4907238	600653	4827
ADHD	Stroke	2DR	Niece/Nephew	1.03	0.97	1.09	0.03	0.11	-0.12	0.33	0.11	4907238	192667	1804
ADHD	Angina pectoris	2DR	Niece/Nephew	0.98	0.85	1.10	0.06	-0.07	0.26	-0.39	-0.16	4907238	111976	773
ADHD	Myocardial infarction	2DR	Niece/Nephew	0.90	0.74	1.06	0.08	-0.27	0.19	-0.73	-0.24	4907238	61529	426
ADHD	Heart failure	2DR	Niece/Nephew	1.08	0.93	1.22	0.07	0.16	-0.13	0.45	0.15	4907238	46554	393
Autism	Type-2 diabetes	2DR	Niece/Nephew	0.83	0.77	0.90	0.03	-0.35	-0.20	-0.50	-0.08	4907238	488045	892
Autism	Hypertension	2DR	Niece/Nephew	0.96	0.93	0.99	0.02	-0.25	-0.04	-0.46	-0.11	4907238	2075346	5087
Autism	Dyslipidemia	2DR	Niece/Nephew	0.97	0.87	1.07	0.05	-0.09	0.18	-0.35	-0.13	4907238	600653	858
Autism	Stroke	2DR	Niece/Nephew	1.01	0.87	1.14	0.07	0.02	-0.36	0.41	0.20	4907238	192667	334
Autism	Angina pectoris	2DR	Niece/Nephew	0.88	0.61	1.16	0.14	-0.24	0.36	-0.83	-0.30	4907238	111976	123
Autism	Myocardial infarction	2DR	Niece/Nephew	1.21	0.72	1.71	0.25	0.38	-0.42	1.19	0.41	4907238	61529	76
Autism	Heart failure	2DR	Niece/Nephew	0.92	0.65	1.20	0.14	-0.13	0.35	-0.60	-0.24	4907238	46554	72
Autism	ADHD	2DR	Nephew	1.24	1.20	1.29	0.02	0.47	0.38	0.56	0.05	4175156	832299	3567
Type-2 diabetes	ADHD	2DR	Nephew	1.03	1.02	1.04	0.00	0.07	0.05	0.09	0.01	4175156	832299	70615
Hypertension	ADHD	2DR	Nephew	1.02	1.02	1.02	0.00	0.11	0.09	0.13	0.01	4175156	832299	344510
Dyslipidemia	ADHD	2DR	Nephew	1.03	1.02	1.03	0.00	0.08	0.07	0.09	0.01	4175156	832299	225277
Stroke	ADHD	2DR	Nephew	1.06	1.04	1.07	0.01	0.23	0.16	0.29	0.03	4175156	832299	35910

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Angina pectoris	ADHD	2DR	Nephew	1.07	1.06	1.08	0.01	0.17	0.14	0.20	0.02	4175156	832299	39598
Myocardial infarction	ADHD	2DR	Nephew	1.05	1.03	1.07	0.01	0.13	0.08	0.18	0.03	4175156	832299	15579
Heart failure	ADHD	2DR	Nephew	1.05	1.03	1.07	0.01	0.10	0.05	0.14	0.02	4175156	832299	12533
Type-2 diabetes	Autism	2DR	Nephew	1.02	1.01	1.03	0.01	0.04	0.01	0.06	0.01	4175156	224446	19258
Hypertension	Autism	2DR	Nephew	1.01	1.00	1.01	0.00	0.04	0.01	0.07	0.01	4175156	224446	93139
Dyslipidemia	Autism	2DR	Nephew	1.00	1.00	1.01	0.00	0.01	-0.01	0.03	0.01	4175156	224446	60671
Stroke	Autism	2DR	Nephew	1.06	1.04	1.08	0.01	0.18	0.11	0.25	0.04	4175156	224446	9943
Angina pectoris	Autism	2DR	Nephew	1.02	1.00	1.04	0.01	0.03	-0.01	0.07	0.02	4175156	224446	10398
Myocardial infarction	Autism	2DR	Nephew	1.05	1.02	1.09	0.02	0.10	0.04	0.16	0.03	4175156	224446	4263
Heart failure	Autism	2DR	Nephew	1.02	0.99	1.06	0.02	0.04	-0.02	0.09	0.03	4175156	224446	3404
ADHD	Autism	2DR	Nephew	1.37	1.33	1.41	0.02	0.69	0.62	0.77	0.04	4175156	224446	4965
ADHD	Type-2 diabetes	2DR	Nephew	0.95	0.90	1.03	0.03	-0.12	0.01	-0.24	-0.07	4175156	209033	1870
ADHD	Hypertension	2DR	Nephew	1.05	1.03	1.07	0.01	0.31	0.16	0.46	0.08	4175156	989280	10981
ADHD	Dyslipidemia	2DR	Nephew	0.98	0.93	1.04	0.03	-0.06	0.12	-0.24	-0.09	4175156	401889	2993
ADHD	Stroke	2DR	Nephew	1.04	0.96	1.13	0.04	0.17	-0.17	0.52	0.18	4175156	95330	858
ADHD	Angina pectoris	2DR	Nephew	0.95	0.80	1.10	0.08	-0.13	0.26	-0.51	-0.20	4175156	69671	448
ADHD	Myocardial infarction	2DR	Nephew	0.94	0.75	1.12	0.09	-0.16	0.32	-0.64	-0.25	4175156	44991	301
ADHD	Heart failure	2DR	Nephew	1.08	0.89	1.27	0.10	0.15	-0.21	0.51	0.18	4175156	25333	205
Autism	Type-2 diabetes	2DR	Nephew	0.80	0.70	0.91	0.05	-0.39	-0.15	-0.62	-0.12	4175156	209033	299
Autism	Hypertension	2DR	Nephew	1.00	0.95	1.05	0.03	0.00	0.24	-0.24	-0.12	4175156	989280	2162
Autism	Dyslipidemia	2DR	Nephew	0.92	0.80	1.03	0.06	-0.21	0.10	-0.53	-0.16	4175156	401889	528
Autism	Stroke	2DR	Nephew	1.03	0.84	1.22	0.10	0.10	-0.49	0.69	0.30	4175156	95330	162
Autism	Angina pectoris	2DR	Nephew	0.75	0.46	1.05	0.15	-0.53	0.20	-1.26	-0.37	4175156	69671	65
Autism	Myocardial infarction	2DR	Nephew	1.15	0.65	1.65	0.25	0.26	-0.57	1.09	0.42	4175156	44991	55
Autism	Heart failure	2DR	Nephew	0.96	0.55	1.37	0.21	-0.06	0.58	-0.70	-0.33	4175156	25333	37
Autism	ADHD	2DR	Niece	1.27	1.21	1.33	0.03	0.45	0.36	0.55	0.05	4144160	528515	2113
Type-2 diabetes	ADHD	2DR	Niece	1.01	1.00	1.02	0.01	0.02	0.00	0.04	0.01	4144160	528515	47203

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Hypertension	ADHD	2DR	Niece	1.01	1.01	1.02	0.00	0.08	0.06	0.10	0.01	4144160	528515	228894
Dyslipidemia	ADHD	2DR	Niece	1.02	1.01	1.02	0.00	0.04	0.03	0.06	0.01	4144160	528515	153133
Stroke	ADHD	2DR	Niece	1.04	1.03	1.06	0.01	0.13	0.08	0.17	0.02	4144160	528515	24496
Angina pectoris	ADHD	2DR	Niece	1.05	1.04	1.06	0.01	0.11	0.08	0.14	0.02	4144160	528515	27020
Myocardial infarction	ADHD	2DR	Niece	1.05	1.03	1.07	0.01	0.10	0.05	0.16	0.03	4144160	528515	10556
Heart failure	ADHD	2DR	Niece	1.03	1.01	1.06	0.01	0.06	0.02	0.11	0.02	4144160	528515	8766
Type-2 diabetes	Autism	2DR	Niece	1.00	0.98	1.02	0.01	0.00	0.04	-0.04	-0.02	4144160	103049	8812
Hypertension	Autism	2DR	Niece	1.01	1.00	1.01	0.00	0.03	-0.01	0.07	0.02	4144160	103049	43049
Dyslipidemia	Autism	2DR	Niece	1.00	0.99	1.01	0.01	0.01	-0.02	0.03	0.01	4144160	103049	28285
Stroke	Autism	2DR	Niece	1.02	0.99	1.05	0.02	0.04	-0.04	0.11	0.04	4144160	103049	4451
Angina pectoris	Autism	2DR	Niece	1.00	0.98	1.03	0.01	0.01	-0.05	0.06	0.03	4144160	103049	4807
Myocardial infarction	Autism	2DR	Niece	0.98	0.94	1.03	0.02	-0.04	0.05	-0.13	-0.05	4144160	103049	1864
Heart failure	Autism	2DR	Niece	1.03	0.98	1.08	0.03	0.05	-0.03	0.13	0.04	4144160	103049	1612
ADHD	Autism	2DR	Niece	1.36	1.30	1.42	0.03	0.59	0.50	0.68	0.05	4144160	103049	2196
ADHD	Type-2 diabetes	2DR	Niece	0.93	0.89	0.96	0.02	-0.16	-0.08	-0.25	-0.04	4144160	321020	3370
ADHD	Hypertension	2DR	Niece	1.03	1.01	1.04	0.01	0.17	0.05	0.28	0.06	4144160	1609417	19521
ADHD	Dyslipidemia	2DR	Niece	1.04	0.98	1.10	0.03	0.11	-0.04	0.27	0.08	4144160	306973	2523
ADHD	Stroke	2DR	Niece	1.06	0.98	1.14	0.04	0.16	-0.06	0.38	0.11	4144160	105255	991
ADHD	Angina pectoris	2DR	Niece	1.05	0.87	1.24	0.10	0.12	-0.29	0.52	0.21	4144160	48186	356
ADHD	Myocardial infarction	2DR	Niece	0.91	0.63	1.19	0.14	-0.21	0.48	-0.90	-0.35	4144160	17768	134
ADHD	Heart failure	2DR	Niece	1.10	0.90	1.30	0.10	0.18	-0.17	0.52	0.18	4144160	22346	195
Autism	Type-2 diabetes	2DR	Niece	0.87	0.79	0.94	0.04	-0.26	-0.10	-0.42	-0.08	4144160	321020	636
Autism	Hypertension	2DR	Niece	0.96	0.92	1.00	0.02	-0.22	-0.01	-0.43	-0.11	4144160	1609417	3862
Autism	Dyslipidemia	2DR	Niece	0.99	0.86	1.12	0.07	-0.02	0.29	-0.34	-0.16	4144160	306973	429
Autism	Stroke.	2DR	Niece	0.99	0.82	1.17	0.09	-0.01	0.41	-0.44	-0.22	4144160	105255	180
Autism	Angina pectoris	2DR	Niece	1.11	0.61	1.61	0.26	0.19	-0.65	1.04	0.43	4144160	48186	62
Autism	Myocardial infarction	2DR	Niece	1.27	0.21	2.34	0.55	0.47	-1.17	2.12	0.84	4144160	17768	22

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Autism	Heart failure	2DR	Niece	0.83	0.49	1.18	0.18	-0.28	0.35	-0.90	-0.32	4144160	22346	35
Autism	ADHD	2DR	Grandparent	1.24	1.11	1.37	0.07	0.41	0.19	0.62	0.11	885161	9318	327
Type-2 diabetes	ADHD	2DR	Grandparent	0.89	0.71	1.08	0.09	-0.51	0.43	-1.45	-0.48	885161	9318	91
Hypertension	ADHD	2DR	Grandparent	1.09	1.02	1.16	0.03	1.86	0.18	3.55	0.86	885161	9318	886
Dyslipidemia	ADHD	2DR	Grandparent	0.90	0.63	1.17	0.14	-0.69	1.32	-2.70	-1.02	885161	9318	45
Stroke	ADHD	2DR	Grandparent	1.01	0.62	1.40	0.20	0.05	-1.94	2.04	1.01	885161	9318	27
Hypertension	Autism	2DR	Grandparent	1.07	0.71	1.42	0.18	0.63	-2.75	4.02	1.73	885161	652	48
ADHD	Autism	2DR	Grandparent	1.58	1.32	1.84	0.13	0.90	0.54	1.26	0.18	885161	652	131
ADHD	Type-2 diabetes	2DR	Grandparent	0.98	0.97	0.99	0.01	-0.09	-0.04	-0.15	-0.03	885161	367980	43532
ADHD	Hypertension	2DR	Grandparent	1.00	0.99	1.01	0.00	0.06	-0.14	0.25	0.10	885161	808486	97574
ADHD	Dyslipidemia	2DR	Grandparent	1.00	1.00	1.01	0.00	0.03	-0.03	0.10	0.03	885161	722534	87698
ADHD	Stroke	2DR	Grandparent	1.04	1.03	1.05	0.01	0.20	0.10	0.29	0.05	885161	195565	24607
ADHD	Angina pectoris	2DR	Grandparent	1.02	1.01	1.04	0.01	0.21	-0.42	0.85	0.32	885161	206880	25879
ADHD	Myocardial infarction	2DR	Grandparent	1.02	1.00	1.04	0.01	0.06	-0.02	0.15	0.04	885161	76282	9533
ADHD	Heart failure	2DR	Grandparent	1.03	1.02	1.05	0.01	0.12	0.03	0.20	0.04	885161	111333	13754
Autism	Type-2 diabetes	2DR	Grandparent	1.00	0.97	1.02	0.01	-0.01	0.05	-0.06	-0.03	885161	367980	9926
Autism	Hypertension	2DR	Grandparent	1.00	0.98	1.02	0.01	0.02	-0.18	0.22	0.10	885161	808486	21882
Autism	Dyslipidemia	2DR	Grandparent	1.00	0.98	1.02	0.01	0.00	-0.06	0.07	0.03	885161	722534	19645
Autism	Stroke	2DR	Grandparent	1.04	1.01	1.07	0.02	0.09	0.01	0.18	0.04	885161	195565	5576
Autism	Angina pectoris	2DR	Grandparent	1.01	0.98	1.04	0.01	0.04	-0.13	0.22	0.09	885161	206880	5773
Autism	Myocardial infarction	2DR	Grandparent	1.02	0.98	1.06	0.02	0.03	-0.04	0.10	0.04	885161	76282	2161
Autism	Heart failure	2DR	Grandparent	1.04	1.00	1.08	0.02	0.06	-0.01	0.13	0.04	885161	111333	3116
Autism	ADHD	2DR	Grandfather	1.19	0.99	1.39	0.10	0.34	0.00	0.68	0.17	594150	3733	131
Type-2 diabetes	ADHD	2DR	Grandfather	0.81	0.52	1.10	0.15	-0.93	0.64	-2.50	-0.80	594150	3733	32
Hypertension	ADHD	2DR	Grandfather	1.18	1.07	1.29	0.06	2.87	0.76	4.97	1.07	594150	3733	380
Dyslipidemia	ADHD	2DR	Grandfather	0.84	0.41	1.27	0.22	-1.11	2.11	-4.33	-1.64	594150	3733	18
Stroke	ADHD	2DR	Grandfather	1.07	0.43	1.70	0.32	0.58	-4.81	5.97	2.75	594150	3733	11

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Hypertension	Autism	2DR	Grandfather	1.10	0.75	1.45	0.18	0.77	-1.86	3.39	1.34	594150	475	37
ADHD	Autism	2DR	Grandfather	1.50	1.22	1.79	0.15	0.83	0.40	1.27	0.22	594150	475	89
ADHD	Type-2 diabetes	2DR	Grandfather	0.99	0.98	1.00	0.01	-0.05	0.02	-0.12	-0.04	594150	174810	21461
ADHD	Hypertension	2DR	Grandfather	1.00	0.99	1.01	0.01	0.08	-0.10	0.26	0.09	594150	479186	59860
ADHD	Dyslipidemia	2DR	Grandfather	1.01	1.00	1.02	0.01	0.04	-0.03	0.12	0.04	594150	421798	52890
ADHD	Stroke	2DR	Grandfather	1.04	1.03	1.06	0.01	0.39	-0.15	0.92	0.27	594150	91074	11751
ADHD	Angina pectoris	2DR	Grandfather	1.02	1.01	1.04	0.01	0.22	-1.02	1.46	0.63	594150	108314	13794
ADHD	Myocardial infarction	2DR	Grandfather	1.02	0.99	1.04	0.01	0.07	-0.11	0.25	0.09	594150	41848	5327
ADHD	Heart failure	2DR	Grandfather	1.03	1.01	1.06	0.01	0.16	-0.13	0.46	0.15	594150	51721	6515
Autism	Type-2 diabetes	2DR	Grandfather	0.97	0.94	1.00	0.02	-0.06	0.01	-0.14	-0.04	594150	174810	4821
Autism	Hypertension	2DR	Grandfather	1.00	0.98	1.02	0.01	0.00	0.18	-0.19	-0.10	594150	479186	13652
Autism	Dyslipidemia	2DR	Grandfather	1.00	0.98	1.02	0.01	0.01	-0.07	0.08	0.04	594150	421798	12065
Autism	Stroke	2DR	Grandfather	1.03	0.98	1.07	0.02	0.11	-0.12	0.34	0.12	594150	91074	2655
Autism	Angina pectoris	2DR	Grandfather	1.00	0.96	1.03	0.02	-0.01	0.19	-0.22	-0.10	594150	108314	3087
Autism	Myocardial infarction	2DR	Grandfather	1.01	0.95	1.07	0.03	0.02	-0.10	0.14	0.06	594150	41848	1216
Autism	Heart failure	2DR	Grandfather	0.99	0.94	1.05	0.03	-0.01	0.12	-0.15	-0.07	594150	51721	1435
Autism	ADHD	2DR	Grandmother	1.22	1.05	1.39	0.09	0.36	0.08	0.63	0.14	915112	5674	189
Type-2 diabetes	ADHD	2DR	Grandmother	0.96	0.71	1.20	0.12	-0.18	0.81	-1.16	-0.50	915112	5674	60
Hypertension	ADHD	2DR	Grandmother	1.03	0.95	1.12	0.04	0.46	-0.68	1.60	0.58	915112	5674	515
Dyslipidemia	ADHD	2DR	Grandmother	0.87	0.53	1.22	0.18	-0.68	1.29	-2.66	-1.01	915112	5674	27
Stroke	ADHD	2DR	Grandmother	1.08	0.57	1.58	0.26	0.28	-1.54	2.10	0.93	915112	5674	18
ADHD	Autism	2DR	Grandmother	1.86	1.34	2.38	0.27	1.20	0.54	1.86	0.34	915112	173	41
ADHD	Type-2 diabetes	2DR	Grandmother	0.96	0.95	0.98	0.01	-0.14	-0.09	-0.19	-0.03	915112	254445	28697
ADHD	Hypertension	2DR	Grandmother	1.00	0.99	1.01	0.00	0.03	-0.10	0.16	0.07	915112	756066	89515
ADHD	Dyslipidemia	2DR	Grandmother	1.00	0.99	1.01	0.00	0.02	-0.03	0.07	0.03	915112	609255	72347
ADHD	Stroke	2DR	Grandmother	1.05	1.03	1.07	0.01	0.18	0.10	0.26	0.04	915112	117483	14526
ADHD	Angina pectoris	2DR	Grandmother	1.03	1.01	1.05	0.01	0.19	-0.16	0.54	0.18	915112	114417	13944

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
ADHD	Myocardial infarction	2DR	Grandmother	1.03	1.00	1.06	0.01	0.07	-0.24	0.38	0.16	915112	35025	4257
ADHD	Heart failure	2DR	Grandmother	1.04	1.01	1.06	0.01	0.12	0.02	0.23	0.05	915112	61632	7338
Autism	Type-2 diabetes	2DR	Grandmother	0.99	0.96	1.01	0.01	-0.03	0.03	-0.08	-0.03	915112	254445	6529
Autism	Hypertension	2DR	Grandmother	1.00	0.99	1.02	0.01	0.03	-0.11	0.17	0.07	915112	756066	20055
Autism	Dyslipidemia	2DR	Grandmother	1.00	0.98	1.02	0.01	0.00	-0.06	0.06	0.03	915112	609255	16123
Autism	Stroke	2DR	Grandmother	1.06	1.02	1.10	0.02	0.12	0.03	0.20	0.04	915112	117483	3291
Autism	Angina pectoris	2DR	Grandmother	1.02	0.99	1.06	0.02	0.08	-0.10	0.25	0.09	915112	114417	3093
Autism	Myocardial infarction	2DR	Grandmother	1.00	0.94	1.07	0.03	0.00	-0.08	0.09	0.04	915112	35025	926
Autism	Heart failure	2DR	Grandmother	1.06	1.01	1.11	0.03	0.10	-0.01	0.21	0.05	915112	61632	1678
Autism	ADHD	2DR	Grandchild	1.40	1.08	1.73	0.17	0.68	0.20	1.17	0.25	843145	205888	100
Type-2 diabetes	ADHD	2DR	Grandchild	1.00	0.99	1.01	0.00	-0.01	0.02	-0.05	-0.02	843145	205888	42046
Hypertension	ADHD	2DR	Grandchild	1.01	1.01	1.01	0.00	0.10	0.05	0.14	0.02	843145	205888	150841
Dyslipidemia	ADHD	2DR	Grandchild	1.01	1.01	1.01	0.00	0.05	0.02	0.07	0.01	843145	205888	119838
Stroke	ADHD	2DR	Grandchild	1.04	1.03	1.06	0.01	0.24	0.13	0.36	0.06	843145	205888	21181
Angina pectoris	ADHD	2DR	Grandchild	1.04	1.02	1.05	0.01					843145	205888	22846
Myocardial infarction	ADHD	2DR	Grandchild	1.03	1.00	1.06	0.01	0.12	-0.07	0.31	0.10	843145	205888	7681
Heart failure	ADHD	2DR	Grandchild	1.05	1.03	1.07	0.01	0.14	0.07	0.21	0.04	843145	205888	10706
Type-2 diabetes	Autism	2DR	Grandchild	1.01	0.99	1.03	0.01	0.02	-0.01	0.05	0.02	843145	53154	11034
Hypertension	Autism	2DR	Grandchild	1.01	1.00	1.02	0.00	0.06	0.02	0.10	0.02	843145	53154	39077
Dyslipidemia	Autism	2DR	Grandchild	1.01	1.00	1.01	0.00	0.02	0.00	0.04	0.01	843145	53154	30937
Stroke	Autism	2DR	Grandchild	1.05	1.02	1.08	0.01	0.13	0.05	0.22	0.04	843145	53154	5515
Angina pectoris	Autism	2DR	Grandchild	1.02	1.00	1.05	0.01					843145	53154	5843
Myocardial infarction	Autism	2DR	Grandchild	1.01	0.97	1.06	0.02	0.03	-0.07	0.13	0.05	843145	53154	1957
Heart failure	Autism	2DR	Grandchild	1.05	1.01	1.09	0.02	0.06	0.01	0.11	0.03	843145	53154	2769
ADHD	Autism	2DR	Grandchild	1.24	1.05	1.42	0.09	0.42	0.11	0.73	0.16	843145	53154	291
ADHD	Type-2 diabetes	2DR	Grandchild	1.00	0.78	1.23	0.11	0.02	-0.80	0.83	0.42	843145	19661	89
ADHD	Hypertension	2DR	Grandchild	1.10	1.01	1.19	0.05	1.15	0.13	2.18	0.52	843145	146940	725

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
ADHD	Dyslipidemia	2DR	Grandchild	0.92	0.60	1.23	0.16	-0.43	1.31	-2.17	-0.89	843145	8180	37
ADHD	Stroke	2DR	Grandchild	1.13	0.72	1.55	0.21	0.69	-1.39	2.77	1.06	843145	5602	31
Autism	Hypertension	2DR	Grandchild	1.00	0.66	1.33	0.17	-0.03	1.92	-1.97	-0.99	843145	146940	43
Autism	ADHD	2DR	Half-sibling	1.35	1.27	1.44	0.04	0.49	0.39	0.59	0.05	425754	51758	1275
Type-2 diabetes	ADHD	2DR	Half-sibling	0.95	0.89	1.00	0.03	-0.12	0.00	-0.23	-0.06	425754	51758	1589
Hypertension	ADHD	2DR	Half-sibling	1.03	1.01	1.04	0.01	0.13	0.03	0.22	0.05	425754	51758	9228
Dyslipidemia	ADHD	2DR	Half-sibling	1.01	0.97	1.04	0.02	0.01	-0.09	0.12	0.05	425754	51758	2489
Stroke	ADHD	2DR	Half-sibling	0.99	0.89	1.08	0.05	-0.06	0.31	-0.43	-0.19	425754	51758	574
Angina pectoris	ADHD	2DR	Half-sibling	1.00	0.90	1.11	0.05	0.01	-0.27	0.29	0.14	425754	51758	401
Myocardial infarction	ADHD	2DR	Half-sibling	0.97	0.81	1.12	0.08	-0.10	0.36	-0.56	-0.24	425754	51758	187
Heart failure	ADHD	2DR	Half-sibling	0.94	0.76	1.12	0.09	-0.08	0.18	-0.35	-0.13	425754	51758	138
Type-2 diabetes	Autism	2DR	Half-sibling	1.02	0.90	1.14	0.06	0.03	-0.12	0.19	0.08	425754	10745	355
Hypertension	Autism	2DR	Half-sibling	0.97	0.92	1.01	0.02	-0.11	0.03	-0.25	-0.07	425754	10745	1841
Dyslipidemia	Autism	2DR	Half-sibling	0.96	0.88	1.04	0.04	-0.08	0.07	-0.22	-0.07	425754	10745	468
Stroke	Autism	2DR	Half-sibling	1.03	0.81	1.24	0.11	0.06	-0.47	0.59	0.27	425754	10745	117
Angina pectoris	Autism	2DR	Half-sibling	0.85	0.63	1.08	0.11	-0.26	0.17	-0.69	-0.22	425754	10745	68
Myocardial infarction	Autism	2DR	Half-sibling	0.85	0.52	1.17	0.17	-0.30	0.41	-1.02	-0.36	425754	10745	31
Heart failure	Autism	2DR	Half-sibling	0.89	0.50	1.28	0.20	-0.10	0.28	-0.48	-0.19	425754	10745	28
ADHD	Autism	2DR	Half-sibling	1.37	1.30	1.44	0.04	0.51	0.42	0.60	0.05	425754	10745	1367
ADHD	Type-2 diabetes	2DR	Half-sibling	0.97	0.92	1.02	0.02	-0.06	0.04	-0.17	-0.05	425754	29411	1626
ADHD	Hypertension	2DR	Half-sibling	1.05	1.03	1.08	0.01	0.27	0.14	0.39	0.06	425754	127461	8470
ADHD	Dyslipidemia	2DR	Half-sibling	0.97	0.92	1.02	0.02	-0.08	0.06	-0.22	-0.07	425754	51856	2240
ADHD	Stroke	2DR	Half-sibling	1.05	0.96	1.13	0.04	0.18	-0.16	0.52	0.17	425754	12437	621
ADHD	Angina pectoris	2DR	Half-sibling	1.01	0.89	1.13	0.06	0.03	-0.29	0.34	0.16	425754	10404	405
ADHD	Myocardial infarction	2DR	Half-sibling	1.02	0.86	1.18	0.08	0.05	-0.41	0.52	0.24	425754	4928	205
ADHD	Heart failure	2DR	Half-sibling	1.03	0.85	1.21	0.09	0.04	-0.21	0.28	0.12	425754	3682	153
Autism	Type-2 diabetes	2DR	Half-sibling	1.06	0.94	1.18	0.06	0.08	-0.07	0.23	0.08	425754	29411	348

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Autism	Hypertension	2DR	Half-sibling	1.05	0.99	1.11	0.03	0.16	-0.03	0.34	0.09	425754	127461	1640
Autism	Dyslipidemia	2DR	Half-sibling	0.93	0.81	1.04	0.06	-0.14	0.08	-0.35	-0.11	425754	51856	410
Autism	Stroke	2DR	Half-sibling	1.03	0.82	1.23	0.11	0.06	-0.45	0.58	0.26	425754	12437	114
Autism	Angina pectoris	2DR	Half-sibling	0.99	0.70	1.28	0.15	-0.02	0.47	-0.51	-0.25	425754	10404	69
Autism	Myocardial infarction	2DR	Half-sibling	0.72	0.42	1.02	0.15	-0.58	0.21	-1.37	-0.40	425754	4928	33
Autism	Heart failure	2DR	Half-sibling	1.07	0.62	1.52	0.23	0.06	-0.32	0.43	0.19	425754	3682	28
Autism	ADHD	2DR	Half-brother	1.30	1.20	1.40	0.05	0.43	0.29	0.56	0.07	266959	32152	766
Type-2 diabetes	ADHD	2DR	Half-brother	0.97	0.90	1.04	0.04	-0.06	0.09	-0.22	-0.08	266959	32152	979
Hypertension	ADHD	2DR	Half-brother	1.03	1.01	1.06	0.01	0.16	0.03	0.28	0.06	266959	32152	5613
Dyslipidemia	ADHD	2DR	Half-brother	1.04	0.99	1.09	0.03	0.11	-0.03	0.25	0.07	266959	32152	1434
Stroke	ADHD	2DR	Half-brother	1.02	0.89	1.15	0.07	0.10	-0.46	0.65	0.28	266959	32152	348
Angina pectoris	ADHD	2DR	Half-brother	1.00	0.85	1.15	0.08	0.00	-0.44	0.44	0.23	266959	32152	217
Myocardial infarction	ADHD	2DR	Half-brother	1.00	0.79	1.22	0.11	0.01	-0.54	0.55	0.28	266959	32152	107
Heart failure	ADHD	2DR	Half-brother	1.06	0.78	1.33	0.14	0.07	-0.25	0.38	0.16	266959	32152	86
Type-2 diabetes	Autism	2DR	Half-brother	0.98	0.85	1.12	0.07	-0.02	0.16	-0.21	-0.09	266959	7600	244
Hypertension	Autism	2DR	Half-brother	0.96	0.91	1.01	0.03	-0.11	0.04	-0.26	-0.08	266959	7600	1301
Dyslipidemia	Autism	2DR	Half-brother	0.90	0.81	1.00	0.05	-0.18	0.00	-0.36	-0.09	266959	7600	314
Stroke	Autism	2DR	Half-brother	0.97	0.74	1.21	0.12	-0.08	0.58	-0.74	-0.34	266959	7600	84
Angina pectoris	Autism	2DR	Half-brother	0.81	0.55	1.06	0.13	-0.39	0.19	-0.97	-0.30	266959	7600	44
Myocardial infarction	Autism	2DR	Half-brother	0.87	0.48	1.27	0.20	-0.21	0.50	-0.92	-0.36	266959	7600	22
Heart failure	Autism	2DR	Half-brother	0.91	0.47	1.35	0.22	-0.07	0.29	-0.43	-0.18	266959	7600	22
ADHD	Autism	2DR	Half-brother	1.36	1.28	1.45	0.04	0.51	0.40	0.62	0.06	266959	7600	966
ADHD	Type-2 diabetes	2DR	Half-brother	0.91	0.83	0.99	0.04	-0.19	-0.01	-0.37	-0.09	266959	13721	609
ADHD	Hypertension	2DR	Half-brother	1.06	1.02	1.10	0.02	0.29	0.10	0.47	0.10	266959	54133	3108
ADHD	Dyslipidemia	2DR	Half-brother	0.93	0.87	0.99	0.03	-0.21	-0.01	-0.41	-0.10	266959	30708	1214
ADHD	Stroke	2DR	Half-brother	0.94	0.82	1.07	0.06	-0.25	0.36	-0.85	-0.31	266959	6026	248
ADHD	Angina pectoris	2DR	Half-brother	1.05	0.88	1.22	0.09	0.15	-0.33	0.62	0.24	266959	6107	235

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
ADHD	Myocardial infarction	2DR	Half-brother	0.96	0.77	1.15	0.10	-0.09	0.41	-0.60	-0.26	266959	3443	136
ADHD	Heart failure	2DR	Half-brother	0.96	0.72	1.21	0.13	-0.05	0.26	-0.35	-0.15	266959	2068	80
Autism	Type-2 diabetes	2DR	Half-brother	1.08	0.87	1.28	0.10	0.10	-0.15	0.35	0.13	266959	13721	137
Autism	Hypertension	2DR	Half-brother	1.07	0.98	1.17	0.05	0.22	-0.06	0.49	0.14	266959	54133	597
Autism	Dyslipidemia	2DR	Half-brother	0.89	0.74	1.04	0.08	-0.21	0.09	-0.51	-0.15	266959	30708	221
Autism	Stroke	2DR	Half-brother	0.96	0.65	1.26	0.16	-0.12	0.76	-0.99	-0.44	266959	6026	47
Autism	Angina pectoris	2DR	Half-brother	1.07	0.65	1.49	0.21	0.13	-0.60	0.85	0.37	266959	6107	42
Autism	Myocardial infarction	2DR	Half-brother	0.55	0.24	0.86	0.16	-0.89	0.01	-1.79	-0.46	266959	3443	19
Autism	Heart failure	2DR	Half-brother	0.73	0.23	1.23	0.25	-0.23	0.27	-0.72	-0.25	266959	2068	12
Autism	ADHD	2DR	Half-sister	1.45	1.32	1.58	0.07	0.56	0.42	0.70	0.07	277217	21786	573
Type-2 diabetes	ADHD	2DR	Half-sister	0.91	0.84	0.98	0.04	-0.18	-0.03	-0.34	-0.08	277217	21786	685
Hypertension	ADHD	2DR	Half-sister	1.02	0.99	1.05	0.01	0.09	-0.04	0.23	0.07	277217	21786	4005
Dyslipidemia	ADHD	2DR	Half-sister	0.99	0.93	1.04	0.03	-0.04	0.10	-0.17	-0.07	277217	21786	1162
Stroke	ADHD	2DR	Half-sister	0.97	0.84	1.10	0.07	-0.10	0.33	-0.54	-0.22	277217	21786	259
Angina pectoris	ADHD	2DR	Half-sister	1.04	0.88	1.19	0.08	0.08	-0.26	0.42	0.17	277217	21786	199
Myocardial infarction	ADHD	2DR	Half-sister	1.00	0.78	1.22	0.11	0.01	-0.98	0.99	0.50	277217	21786	93
Heart failure	ADHD	2DR	Half-sister	0.83	0.60	1.07	0.12	-0.25	0.14	-0.64	-0.20	277217	21786	58
Type-2 diabetes	Autism	2DR	Half-sister	1.13	0.88	1.37	0.13	0.16	-0.13	0.45	0.15	277217	3323	118
Hypertension	Autism	2DR	Half-sister	0.98	0.91	1.06	0.04	-0.06	0.19	-0.31	-0.13	277217	3323	574
Dyslipidemia	Autism	2DR	Half-sister	1.12	0.97	1.27	0.08	0.20	-0.05	0.44	0.12	277217	3323	162
Stroke	Autism	2DR	Half-sister	1.23	0.73	1.73	0.26	0.46	-0.48	1.40	0.48	277217	3323	33
Angina pectoris	Autism	2DR	Half-sister	1.01	0.54	1.48	0.24	0.01	-0.68	0.71	0.35	277217	3323	26
ADHD	Autism	2DR	Half-sister	1.42	1.29	1.55	0.07	0.53	0.38	0.67	0.08	277217	3323	426
ADHD	Type-2 diabetes	2DR	Half-sister	1.00	0.94	1.05	0.03	-0.01	0.11	-0.13	-0.06	277217	17094	1073
ADHD	Hypertension	2DR	Half-sister	1.05	1.02	1.08	0.01	0.24	0.10	0.38	0.07	277217	86861	6002
ADHD	Dyslipidemia	2DR	Half-sister	1.05	0.98	1.12	0.04	0.14	-0.04	0.31	0.09	277217	26912	1221
ADHD	Stroke	2DR	Half-sister	1.13	1.01	1.25	0.06	0.42	0.03	0.80	0.20	277217	6690	382

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
ADHD	Angina pectoris	2DR	Half-sister	1.02	0.85	1.20	0.09	0.05	-0.33	0.44	0.20	277217	4599	184
ADHD	Myocardial infarction	2DR	Half-sister	1.18	0.87	1.48	0.16	0.75	-1.33	2.83	1.06	277217	1550	70
ADHD	Heart failure	2DR	Half-sister	1.07	0.81	1.33	0.13	0.10	-0.24	0.44	0.17	277217	1662	72
Autism	Type-2 diabetes	2DR	Half-sister	1.02	0.88	1.16	0.07	0.03	-0.15	0.21	0.09	277217	17094	218
Autism	Hypertension	2DR	Half-sister	1.03	0.96	1.10	0.03	0.09	-0.13	0.31	0.11	277217	86861	1157
Autism	Dyslipidemia	2DR	Half-sister	0.98	0.82	1.14	0.08	-0.03	0.25	-0.31	-0.14	277217	26912	216
Autism	Stroke	2DR	Half-sister	1.06	0.79	1.34	0.14	0.14	-0.43	0.70	0.29	277217	6690	69
Autism	Angina pectoris	2DR	Half-sister	0.98	0.57	1.38	0.21	-0.03	0.58	-0.65	-0.31	277217	4599	29
Autism	Myocardial infarction	2DR	Half-sister	1.11	0.47	1.75	0.33	0.32	-1.57	2.21	0.96	277217	1550	15
Autism	Heart failure	2DR	Half-sister	1.35	0.64	2.06	0.36	0.29	-0.22	0.80	0.26	277217	1662	16
Autism	ADHD	3DR	Cousin	1.13	1.11	1.14	0.01	0.51	0.43	0.58	0.04	6143917	2003683	30753
Type-2 diabetes	ADHD	3DR	Cousin	1.00	0.99	1.01	0.01	0.00	0.05	-0.06	-0.03	6143917	2003683	49720
Hypertension	ADHD	3DR	Cousin	1.01	1.01	1.02	0.00	0.16	0.11	0.21	0.03	6143917	2003683	316360
Dyslipidemia	ADHD	3DR	Cousin	1.02	1.01	1.03	0.00	0.14	0.09	0.18	0.02	6143917	2003683	83229
Stroke	ADHD	3DR	Cousin	1.05	1.03	1.07	0.01	0.33	0.20	0.46	0.07	6143917	2003683	18352
Angina pectoris	ADHD	3DR	Cousin	1.04	1.02	1.06	0.01	0.17	0.07	0.27	0.05	6143917	2003683	11945
Myocardial infarction	ADHD	3DR	Cousin	1.03	1.00	1.06	0.02	0.16	0.01	0.32	0.08	6143917	2003683	5887
Heart failure	ADHD	3DR	Cousin	1.01	0.97	1.04	0.02	0.02	-0.10	0.15	0.06	6143917	2003683	4391
Type-2 diabetes	Autism	3DR	Cousin	0.99	0.97	1.01	0.01	-0.04	0.02	-0.11	-0.03	6143917	563371	13643
Hypertension	Autism	3DR	Cousin	0.99	0.98	0.99	0.00	-0.10	-0.04	-0.16	-0.03	6143917	563371	85945
Dyslipidemia	Autism	3DR	Cousin	0.99	0.97	1.00	0.01	-0.06	0.00	-0.12	-0.03	6143917	563371	21467
Stroke	Autism	3DR	Cousin	1.02	0.99	1.06	0.02	0.12	-0.04	0.29	0.08	6143917	563371	4888
Angina pectoris	Autism	3DR	Cousin	1.01	0.97	1.05	0.02	0.03	-0.10	0.16	0.07	6143917	563371	3037
Myocardial infarction	Autism	3DR	Cousin	0.98	0.93	1.04	0.03	-0.06	0.14	-0.27	-0.10	6143917	563371	1477
Heart failure	Autism	3DR	Cousin	1.03	0.96	1.09	0.03	0.06	-0.10	0.22	0.08	6143917	563371	1197
ADHD	Autism	3DR	Cousin	1.16	1.14	1.17	0.01	0.62	0.56	0.67	0.03	6143917	563371	42113
ADHD	Type-2 diabetes	3DR	Cousin	0.97	0.96	0.98	0.00	-0.13	-0.08	-0.18	-0.03	6143917	1256267	55085

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
ADHD	Hypertension	3DR	Cousin	1.00	0.99	1.01	0.00	0.00	-0.08	0.09	0.04	6143917	3977748	202922
ADHD	Dyslipidemia	3DR	Cousin	1.00	0.99	1.01	0.01	-0.03	0.05	-0.10	-0.04	6143917	1759817	64396
ADHD	Stroke	3DR	Cousin	0.99	0.98	1.01	0.01	-0.05	0.06	-0.16	-0.06	6143917	585967	22604
ADHD	Angina pectoris	3DR	Cousin	1.01	0.98	1.04	0.01	0.05	-0.07	0.17	0.06	6143917	428328	13647
ADHD	Myocardial infarction	3DR	Cousin	0.99	0.95	1.02	0.02	-0.06	0.12	-0.23	-0.09	6143917	228302	7401
ADHD	Heart failure	3DR	Cousin	0.97	0.94	1.00	0.02	-0.09	0.02	-0.21	-0.06	6143917	166005	5668
Autism	Type-2 diabetes	3DR	Cousin	0.98	0.95	1.00	0.01	-0.08	-0.01	-0.16	-0.04	6143917	1256267	11690
Autism	Hypertension	3DR	Cousin	1.00	0.98	1.01	0.01	-0.03	0.10	-0.16	-0.07	6143917	3977748	43084
Autism	Dyslipidemia	3DR	Cousin	0.99	0.97	1.01	0.01	-0.04	0.07	-0.16	-0.06	6143917	1759817	13528
Autism	Stroke	3DR	Cousin	0.99	0.95	1.02	0.02	-0.06	0.12	-0.23	-0.09	6143917	585967	4780
Autism	Angina pectoris	3DR	Cousin	1.01	0.95	1.07	0.03	0.02	-0.17	0.21	0.10	6143917	428328	2790
Autism	Myocardial infarction	3DR	Cousin	0.91	0.84	0.99	0.04	-0.31	-0.03	-0.60	-0.15	6143917	228302	1472
Autism	Heart failure	3DR	Cousin	1.00	0.93	1.08	0.04	0.01	-0.17	0.19	0.09	6143917	166005	1227
Autism	ADHD	3DR	Cousin-male	1.15	1.13	1.17	0.01	0.54	0.47	0.62	0.04	5734135	1403789	22291
Type-2 diabetes	ADHD	3DR	Cousin-male	1.00	0.99	1.02	0.01	0.01	-0.04	0.06	0.03	5734135	1403789	33630
Hypertension	ADHD	3DR	Cousin-male	1.01	1.01	1.02	0.00	0.13	0.09	0.17	0.02	5734135	1403789	215222
Dyslipidemia	ADHD	3DR	Cousin-male	1.03	1.02	1.04	0.00	0.15	0.10	0.20	0.03	5734135	1403789	53566
Stroke	ADHD	3DR	Cousin-male	1.05	1.03	1.07	0.01	0.29	0.16	0.42	0.07	5734135	1403789	12128
Angina pectoris	ADHD	3DR	Cousin-male	1.05	1.02	1.08	0.01	0.21	0.09	0.32	0.06	5734135	1403789	7634
Myocardial infarction	ADHD	3DR	Cousin-male	1.05	1.02	1.09	0.02	0.25	0.07	0.43	0.09	5734135	1403789	3795
Heart failure	ADHD	3DR	Cousin-male	1.00	0.96	1.05	0.02	0.00	-0.14	0.15	0.07	5734135	1403789	2831
Type-2 diabetes	Autism	3DR	Cousin-male	0.99	0.97	1.01	0.01	-0.04	0.03	-0.11	-0.03	5734135	404451	9809
Hypertension	Autism	3DR	Cousin-male	0.99	0.98	1.00	0.00	-0.06	-0.01	-0.11	-0.03	5734135	404451	61751
Dyslipidemia	Autism	3DR	Cousin-male	0.99	0.97	1.00	0.01	-0.05	0.01	-0.12	-0.03	5734135	404451	15402
Stroke	Autism	3DR	Cousin-male	1.02	0.98	1.06	0.02	0.09	-0.07	0.26	0.08	5734135	404451	3516
Angina pectoris	Autism	3DR	Cousin-male	1.00	0.96	1.05	0.02	0.01	-0.13	0.16	0.08	5734135	404451	2199
Myocardial infarction	Autism	3DR	Cousin-male	1.01	0.94	1.07	0.03	0.03	-0.20	0.26	0.12	5734135	404451	1095

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Heart failure	Autism	3DR	Cousin-male	1.01	0.93	1.09	0.04	0.03	-0.16	0.22	0.10	5734135	404451	835
ADHD	Autism	3DR	Cousin-male	1.18	1.16	1.19	0.01	0.63	0.58	0.69	0.03	5734135	404451	30449
ADHD	Type-2 diabetes	3DR	Cousin-male	0.98	0.97	1.00	0.01	-0.07	-0.01	-0.13	-0.03	5734135	637735	23897
ADHD	Hypertension	3DR	Cousin-male	1.01	1.00	1.02	0.00	0.11	0.03	0.18	0.04	5734135	2350871	106927
ADHD	Dyslipidemia	3DR	Cousin-male	1.01	1.00	1.02	0.01	0.05	-0.02	0.13	0.04	5734135	1276901	44584
ADHD	Stroke	3DR	Cousin-male	1.01	0.99	1.03	0.01	0.06	-0.07	0.19	0.07	5734135	311974	11490
ADHD	Angina pectoris	3DR	Cousin-male	1.01	0.98	1.04	0.02	0.03	-0.11	0.17	0.07	5734135	279327	8578
ADHD	Myocardial infarction	3DR	Cousin-male	1.01	0.97	1.05	0.02	0.03	-0.16	0.21	0.10	5734135	170022	5475
ADHD	Heart failure	3DR	Cousin-male	0.99	0.94	1.03	0.02	-0.04	0.10	-0.19	-0.07	5734135	95959	3138
Autism	Type-2 diabetes	3DR	Cousin-male	0.99	0.96	1.03	0.02	-0.02	0.09	-0.12	-0.05	5734135	637735	5118
Autism	Hypertension	3DR	Cousin-male	1.01	0.99	1.02	0.01	0.04	-0.08	0.16	0.06	5734135	2350871	22681
Autism	Dyslipidemia	3DR	Cousin-male	1.00	0.97	1.03	0.02	0.01	-0.12	0.13	0.06	5734135	1276901	9296
Autism	Stroke	3DR	Cousin-male	1.01	0.96	1.06	0.03	0.03	-0.19	0.25	0.11	5734135	311974	2428
Autism	Angina pectoris	3DR	Cousin-male	0.97	0.89	1.04	0.04	-0.11	0.13	-0.35	-0.12	5734135	279327	1728
Autism	Myocardial infarction	3DR	Cousin-male	0.92	0.84	1.01	0.04	-0.28	0.05	-0.60	-0.17	5734135	170022	1100
Autism	Heart failure	3DR	Cousin-male	1.08	0.98	1.19	0.05	0.20	-0.05	0.44	0.12	5734135	95959	711
Autism	ADHD	3DR	Cousin-female	1.19	1.17	1.21	0.01	0.59	0.52	0.66	0.04	5723959	966326	15014
Type-2 diabetes	ADHD	3DR	Cousin-female	1.00	0.99	1.02	0.01	0.01	-0.04	0.07	0.03	5723959	966326	24609
Hypertension	ADHD	3DR	Cousin-female	1.02	1.01	1.02	0.00	0.17	0.13	0.22	0.02	5723959	966326	155532
Dyslipidemia	ADHD	3DR	Cousin-female	1.03	1.02	1.04	0.00	0.11	0.07	0.16	0.02	5723959	966326	41592
Stroke	ADHD	3DR	Cousin-female	1.05	1.02	1.07	0.01	0.25	0.12	0.38	0.07	5723959	966326	9086
Angina pectoris	ADHD	3DR	Cousin-female	1.04	1.01	1.07	0.02	0.15	0.04	0.25	0.05	5723959	966326	5975
Myocardial infarction	ADHD	3DR	Cousin-female	1.02	0.98	1.06	0.02	0.07	-0.10	0.24	0.08	5723959	966326	2898
Heart failure	ADHD	3DR	Cousin-female	1.00	0.95	1.05	0.02	0.01	-0.12	0.13	0.06	5723959	966326	2197
Type-2 diabetes	Autism	3DR	Cousin-female	0.99	0.95	1.02	0.02	-0.04	0.06	-0.13	-0.05	5723959	188212	4462
Hypertension	Autism	3DR	Cousin-female	0.99	0.98	1.00	0.01	-0.08	0.00	-0.16	-0.04	5723959	188212	28167
Dyslipidemia	Autism	3DR	Cousin-female	1.00	0.97	1.02	0.01	-0.01	0.06	-0.09	-0.04	5723959	188212	6832

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Stroke	Autism	3DR	Cousin-female	1.04	0.98	1.10	0.03	0.14	-0.09	0.36	0.12	5723959	188212	1566
Angina pectoris	Autism	3DR	Cousin-female	1.02	0.95	1.10	0.04	0.06	-0.14	0.26	0.10	5723959	188212	930
Myocardial infarction	Autism	3DR	Cousin-female	0.94	0.84	1.03	0.05	-0.20	0.12	-0.52	-0.16	5723959	188212	434
Heart failure	Autism	3DR	Cousin-female	1.05	0.92	1.17	0.06	0.09	-0.14	0.32	0.12	5723959	188212	403
ADHD	Autism	3DR	Cousin-female	1.19	1.17	1.21	0.01	0.57	0.50	0.63	0.03	5723959	188212	14291
ADHD	Type-2 diabetes	3DR	Cousin-female	0.98	0.97	1.00	0.01	-0.06	-0.01	-0.10	-0.02	5723959	803891	37345
ADHD	Hypertension	3DR	Cousin-female	1.01	1.01	1.02	0.00	0.10	0.03	0.17	0.03	5723959	3260095	164883
ADHD	Dyslipidemia	3DR	Cousin-female	1.02	1.01	1.03	0.01	0.08	0.02	0.15	0.03	5723959	996654	34956
ADHD	Stroke	3DR	Cousin-female	1.01	0.99	1.03	0.01	0.03	-0.08	0.14	0.06	5723959	317278	12399
ADHD	Angina pectoris	3DR	Cousin-female	1.05	1.01	1.09	0.02	0.17	0.03	0.30	0.07	5723959	187213	6029
ADHD	Myocardial infarction	3DR	Cousin-female	1.00	0.94	1.07	0.03	0.01	-0.25	0.26	0.13	5723959	65966	2126
ADHD	Heart failure	3DR	Cousin-female	0.99	0.94	1.03	0.02	-0.03	0.09	-0.15	-0.06	5723959	76127	2687
Autism	Type-2 diabetes	3DR	Cousin-female	0.99	0.96	1.01	0.01	-0.03	0.04	-0.11	-0.04	5723959	803891	7900
Autism	Hypertension	3DR	Cousin-female	1.00	0.99	1.02	0.01	0.03	-0.08	0.14	0.06	5723959	3260095	34836
Autism	Dyslipidemia	3DR	Cousin-female	1.01	0.98	1.04	0.02	0.04	-0.07	0.15	0.06	5723959	996654	7342
Autism	Stroke	3DR	Cousin-female	1.00	0.96	1.05	0.02	0.01	-0.17	0.20	0.09	5723959	317278	2591
Autism	Angina pectoris	3DR	Cousin-female	1.09	1.00	1.18	0.05	0.24	0.01	0.47	0.12	5723959	187213	1249
Autism	Myocardial infarction	3DR	Cousin-female	0.99	0.84	1.13	0.07	-0.04	0.40	-0.49	-0.23	5723959	65966	416
Autism	Heart failure	3DR	Cousin-female	0.97	0.87	1.07	0.05	-0.06	0.15	-0.27	-0.11	5723959	76127	552
Autism	ADHD	Spouse	Spouse	3.52	3.31	3.72	0.10	NA	NA	NA	NA	7293494	143234	1875
Type-2 diabetes	ADHD	Spouse	Spouse	1.03	1.00	1.06	0.02	NA	NA	NA	NA	7293494	143234	6637
Hypertension	ADHD	Spouse	Spouse	1.07	1.06	1.08	0.00	NA	NA	NA	NA	7293494	143234	35392
Dyslipidemia	ADHD	Spouse	Spouse	1.05	1.03	1.06	0.01	NA	NA	NA	NA	7293494	143234	14238
Stroke	ADHD	Spouse	Spouse	1.12	1.07	1.17	0.03	NA	NA	NA	NA	7293494	143234	2541
Angina pectoris	ADHD	Spouse	Spouse	1.12	1.07	1.17	0.03	NA	NA	NA	NA	7293494	143234	2443
Myocardial infarction	ADHD	Spouse	Spouse	0.98	0.90	1.05	0.04	NA	NA	NA	NA	7293494	143234	923
Heart failure	ADHD	Spouse	Spouse	1.19	1.09	1.29	0.05	NA	NA	NA	NA	7293494	143234	782

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Type-2 diabetes	Autism	Spouse	Spouse	1.03	0.95	1.10	0.04	NA	NA	NA	NA	7293494	20695	1176
Hypertension	Autism	Spouse	Spouse	1.03	1.01	1.06	0.01	NA	NA	NA	NA	7293494	20695	5721
Dyslipidemia	Autism	Spouse	Spouse	0.97	0.93	1.01	0.02	NA	NA	NA	NA	7293494	20695	2146
Stroke	Autism	Spouse	Spouse	1.01	0.88	1.15	0.07	NA	NA	NA	NA	7293494	20695	393
Angina pectoris	Autism	Spouse	Spouse	1.01	0.86	1.15	0.07	NA	NA	NA	NA	7293494	20695	327
Myocardial infarction	Autism	Spouse	Spouse	0.98	0.74	1.22	0.12	NA	NA	NA	NA	7293494	20695	114
Heart failure	Autism	Spouse	Spouse	0.92	0.68	1.16	0.12	NA	NA	NA	NA	7293494	20695	113
ADHD	Autism	Spouse	Spouse	3.39	3.21	3.57	0.09	NA	NA	NA	NA	7293494	20695	1875
ADHD	Type-2 diabetes	Spouse	Spouse	1.03	1.00	1.06	0.01	NA	NA	NA	NA	7293494	524379	6637
ADHD	Hypertension	Spouse	Spouse	1.14	1.13	1.16	0.01	NA	NA	NA	NA	7293494	2471106	35392
ADHD	Dyslipidemia	Spouse	Spouse	1.15	1.12	1.19	0.02	NA	NA	NA	NA	7293494	1492604	14238
ADHD	Stroke	Spouse	Spouse	1.20	1.13	1.26	0.03	NA	NA	NA	NA	7293494	228418	2541
ADHD	Angina pectoris	Spouse	Spouse	1.27	1.16	1.38	0.06	NA	NA	NA	NA	7293494	254971	2443
ADHD	Myocardial infarction	Spouse	Spouse	1.28	1.11	1.46	0.09	NA	NA	NA	NA	7293494	100332	923
ADHD	Heart failure	Spouse	Spouse	1.31	1.15	1.47	0.08	NA	NA	NA	NA	7293494	83159	782
Autism	Type-2 diabetes	Spouse	Spouse	1.20	1.12	1.27	0.04	NA	NA	NA	NA	7293494	524379	1176
Autism	Hypertension	Spouse	Spouse	1.16	1.12	1.20	0.02	NA	NA	NA	NA	7293494	2471106	5721
Autism	Dyslipidemia	Spouse	Spouse	1.41	1.30	1.52	0.06	NA	NA	NA	NA	7293494	1492604	2146
Autism	Stroke	Spouse	Spouse	1.33	1.16	1.51	0.09	NA	NA	NA	NA	7293494	228418	393
Autism	Angina pectoris	Spouse	Spouse	1.52	1.16	1.89	0.19	NA	NA	NA	NA	7293494	254971	327
Autism	Myocardial infarction	Spouse	Spouse	1.32	0.85	1.79	0.24	NA	NA	NA	NA	7293494	100332	114
Autism	Heart failure	Spouse	Spouse	1.69	1.21	2.16	0.24	NA	NA	NA	NA	7293494	83159	113
Autism	ADHD	Spouse	Husband	3.22	2.92	3.51	0.15	NA	NA	NA	NA	3646802	80109	804
Type-2 diabetes	ADHD	Spouse	Husband	1.02	0.98	1.06	0.02	NA	NA	NA	NA	3646802	80109	3783
Hypertension	ADHD	Spouse	Husband	1.08	1.07	1.09	0.01	NA	NA	NA	NA	3646802	80109	21797
Dyslipidemia	ADHD	Spouse	Husband	1.06	1.04	1.08	0.01	NA	NA	NA	NA	3646802	80109	5965
Stroke	ADHD	Spouse	Husband	1.13	1.05	1.20	0.04	NA	NA	NA	NA	3646802	80109	1247

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Angina pectoris	ADHD	Spouse	Husband	1.24	1.15	1.33	0.05	NA	NA	NA	NA	3646802	80109	918
Myocardial infarction	ADHD	Spouse	Husband	1.07	0.91	1.23	0.08	NA	NA	NA	NA	3646802	80109	247
Heart failure	ADHD	Spouse	Husband	1.12	0.97	1.27	0.08	NA	NA	NA	NA	3646802	80109	311
Type-2 diabetes	Autism	Spouse	Husband	1.16	1.08	1.25	0.04	NA	NA	NA	NA	3646802	13573	851
Hypertension	Autism	Spouse	Husband	1.11	1.08	1.14	0.01	NA	NA	NA	NA	3646802	13573	4317
Dyslipidemia	Autism	Spouse	Husband	1.04	0.99	1.09	0.03	NA	NA	NA	NA	3646802	13573	1422
Stroke	Autism	Spouse	Husband	1.09	0.94	1.24	0.08	NA	NA	NA	NA	3646802	13573	267
Angina pectoris	Autism	Spouse	Husband	1.28	1.09	1.47	0.10	NA	NA	NA	NA	3646802	13573	218
Myocardial infarction	Autism	Spouse	Husband	0.86	0.59	1.13	0.14	NA	NA	NA	NA	3646802	13573	52
Heart failure	Autism	Spouse	Husband	1.13	0.84	1.43	0.15	NA	NA	NA	NA	3646802	13573	79
ADHD	Autism	Spouse	Husband	3.56	3.34	3.78	0.11	NA	NA	NA	NA	3646802	13573	1107
ADHD	Type-2 diabetes	Spouse	Husband	1.06	1.00	1.12	0.03	NA	NA	NA	NA	3646802	292957	2823
ADHD	Hypertension	Spouse	Husband	1.13	1.10	1.15	0.01	NA	NA	NA	NA	3646802	1210036	13397
ADHD	Dyslipidemia	Spouse	Husband	1.11	1.07	1.16	0.02	NA	NA	NA	NA	3646802	902896	8304
ADHD	Stroke	Spouse	Husband	1.18	1.08	1.28	0.05	NA	NA	NA	NA	3646802	135953	1292
ADHD	Angina pectoris	Spouse	Husband	1.18	1.05	1.31	0.07	NA	NA	NA	NA	3646802	172610	1525
ADHD	Myocardial infarction	Spouse	Husband	1.27	1.08	1.47	0.10	NA	NA	NA	NA	3646802	76594	686
ADHD	Heart failure	Spouse	Husband	1.42	1.18	1.66	0.12	NA	NA	NA	NA	3646802	54528	475
Autism	Type-2 diabetes	Spouse	Husband	1.43	1.21	1.64	0.11	NA	NA	NA	NA	3646802	292957	333
Autism	Hypertension	Spouse	Husband	1.26	1.17	1.34	0.04	NA	NA	NA	NA	3646802	1210036	1400
Autism	Dyslipidemia	Spouse	Husband	1.13	0.98	1.27	0.07	NA	NA	NA	NA	3646802	902896	742
Autism	Stroke	Spouse	Husband	1.23	0.92	1.53	0.15	NA	NA	NA	NA	3646802	135953	125
Autism	Angina pectoris	Spouse	Husband	1.10	0.69	1.51	0.21	NA	NA	NA	NA	3646802	172610	110
Autism	Myocardial infarction	Spouse	Husband	1.22	0.65	1.79	0.29	NA	NA	NA	NA	3646802	76594	65
Autism	Heart failure	Spouse	Husband	1.78	0.90	2.66	0.45	NA	NA	NA	NA	3646802	54528	38
Autism	ADHD	Spouse	Wife	3.60	3.33	3.87	0.14	NA	NA	NA	NA	3646692	63125	1071
Type-2 diabetes	ADHD	Spouse	Wife	1.02	0.98	1.06	0.02	NA	NA	NA	NA	3646692	63125	2854

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Hypertension	ADHD	Spouse	Wife	1.05	1.03	1.06	0.01	NA	NA	NA	NA	3646692	63125	13595
Dyslipidemia	ADHD	Spouse	Wife	1.03	1.02	1.05	0.01	NA	NA	NA	NA	3646692	63125	8273
Stroke	ADHD	Spouse	Wife	1.11	1.04	1.18	0.04	NA	NA	NA	NA	3646692	63125	1294
Angina pectoris	ADHD	Spouse	Wife	1.07	1.01	1.13	0.03	NA	NA	NA	NA	3646692	63125	1525
Myocardial infarction	ADHD	Spouse	Wife	0.95	0.87	1.03	0.04	NA	NA	NA	NA	3646692	63125	676
Heart failure	ADHD	Spouse	Wife	1.22	1.10	1.35	0.06	NA	NA	NA	NA	3646692	63125	471
Type-2 diabetes	Autism	Spouse	Wife	1.06	0.90	1.22	0.08	NA	NA	NA	NA	3646692	7122	325
Hypertension	Autism	Spouse	Wife	1.02	0.97	1.07	0.02	NA	NA	NA	NA	3646692	7122	1404
Dyslipidemia	Autism	Spouse	Wife	0.92	0.85	0.99	0.04	NA	NA	NA	NA	3646692	7122	724
Stroke	Autism	Spouse	Wife	1.06	0.80	1.32	0.13	NA	NA	NA	NA	3646692	7122	126
Angina pectoris	Autism	Spouse	Wife	0.88	0.66	1.10	0.11	NA	NA	NA	NA	3646692	7122	109
Myocardial infarction	Autism	Spouse	Wife	1.14	0.75	1.52	0.20	NA	NA	NA	NA	3646692	7122	62
Heart failure	Autism	Spouse	Wife	0.84	0.42	1.25	0.21	NA	NA	NA	NA	3646692	7122	34
ADHD	Autism	Spouse	Wife	3.37	3.03	3.72	0.18	NA	NA	NA	NA	3646692	7122	768
ADHD	Type-2 diabetes	Spouse	Wife	1.02	0.98	1.05	0.02	NA	NA	NA	NA	3646692	231422	3814
ADHD	Hypertension	Spouse	Wife	1.14	1.12	1.16	0.01	NA	NA	NA	NA	3646692	1261070	21995
ADHD	Dyslipidemia	Spouse	Wife	1.20	1.14	1.25	0.03	NA	NA	NA	NA	3646692	589708	5934
ADHD	Stroke	Spouse	Wife	1.21	1.12	1.30	0.05	NA	NA	NA	NA	3646692	92465	1249
ADHD	Angina pectoris	Spouse	Wife	1.35	1.14	1.55	0.10	NA	NA	NA	NA	3646692	82361	918
ADHD	Myocardial infarction	Spouse	Wife	1.21	0.85	1.57	0.19	NA	NA	NA	NA	3646692	23738	237
ADHD	Heart failure	Spouse	Wife	1.22	1.02	1.43	0.11	NA	NA	NA	NA	3646692	28631	307
Autism	Type-2 diabetes	Spouse	Wife	1.28	1.19	1.37	0.05	NA	NA	NA	NA	3646692	231422	843
Autism	Hypertension	Spouse	Wife	1.20	1.16	1.25	0.02	NA	NA	NA	NA	3646692	1261070	4321
Autism	Dyslipidemia	Spouse	Wife	1.39	1.25	1.52	0.07	NA	NA	NA	NA	3646692	589708	1404
Autism	Stroke	Spouse	Wife	1.36	1.14	1.58	0.11	NA	NA	NA	NA	3646692	92465	268
Autism	Angina pectoris	Spouse	Wife	1.44	0.81	2.06	0.32	NA	NA	NA	NA	3646692	82361	217
Autism	Myocardial infarction	Spouse	Wife	0.99	0.42	1.56	0.29	NA	NA	NA	NA	3646692	23738	49

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{\text{SE}}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Autism	Heart failure	Spouse	Wife	1.47	0.96	1.99	0.26	NA	NA	NA	NA	3646692	28631	75

Note:

SE: standard error; CI: confidence interval; ADHD: attention-deficit/hyperactivity disorder; 1DR: first-degree relative; 2DR: second-degree relative; 3DR: third-degree relative; NA: not available (Genetic correlation was not estimated from spouses).

Results of some relatives were unavailable due to the limited number of cases.

eTable 6. Familial co-aggregation (λ) and genetic correlation estimates in the sensitivity analysis (among individuals aged 18 to 65 years)

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Autism	ADHD	1DR	Any 1DR	2.19	2.15	2.22	0.02	0.54	0.53	0.56	0.01	8589798	1001644	20276
Type-2 diabetes	ADHD	1DR	Any 1DR	0.97	0.96	0.98	0.00	-0.03	-0.02	-0.04	0.00	8589798	1001644	42919
Hypertension	ADHD	1DR	Any 1DR	1.08	1.08	1.09	0.00	0.16	0.15	0.17	0.00	8589798	1001644	255018
Dyslipidemia	ADHD	1DR	Any 1DR	1.05	1.04	1.05	0.00	0.05	0.05	0.06	0.00	8589798	1001644	112579
Stroke	ADHD	1DR	Any 1DR	1.14	1.13	1.16	0.01	0.15	0.13	0.17	0.01	8589798	1001644	19446
Angina pectoris	ADHD	1DR	Any 1DR	1.10	1.09	1.12	0.01	0.09	0.07	0.11	0.01	8589798	1001644	19354
Myocardial infarction	ADHD	1DR	Any 1DR	1.07	1.05	1.10	0.01	0.07	0.04	0.09	0.01	8589798	1001644	8389
Heart failure	ADHD	1DR	Any 1DR	1.11	1.08	1.14	0.02	0.07	0.05	0.09	0.01	8589798	1001644	5048
Type-2 diabetes	Autism	1DR	Any 1DR	1.01	0.99	1.03	0.01	0.00	-0.01	0.02	0.01	8589798	229404	10476
Hypertension	Autism	1DR	Any 1DR	1.07	1.06	1.07	0.00	0.10	0.09	0.11	0.01	8589798	229404	58719
Dyslipidemia	Autism	1DR	Any 1DR	1.02	1.00	1.03	0.01	0.01	0.00	0.03	0.01	8589798	229404	25913
Stroke	Autism	1DR	Any 1DR	1.13	1.09	1.16	0.02	0.10	0.08	0.13	0.01	8589798	229404	4526
Angina pectoris	Autism	1DR	Any 1DR	1.04	1.01	1.07	0.02	0.03	0.01	0.05	0.01	8589798	229404	4349
Myocardial infarction	Autism	1DR	Any 1DR	1.03	0.98	1.07	0.02	0.02	-0.02	0.05	0.02	8589798	229404	1923
Heart failure	Autism	1DR	Any 1DR	1.10	1.03	1.16	0.03	0.05	0.02	0.08	0.02	8589798	229404	1176
ADHD	Autism	1DR	Any 1DR	2.25	2.23	2.28	0.01	0.57	0.56	0.58	0.01	8589798	229404	23400
ADHD	Type-2 diabetes	1DR	Any 1DR	0.99	0.98	1.00	0.00	-0.01	0.00	-0.02	0.00	8589798	896425	45081
ADHD	Hypertension	1DR	Any 1DR	1.08	1.07	1.08	0.00	0.15	0.14	0.17	0.01	8589798	3970563	220252
ADHD	Dyslipidemia	1DR	Any 1DR	1.06	1.05	1.07	0.00	0.07	0.06	0.08	0.00	8589798	2027057	112586
ADHD	Stroke	1DR	Any 1DR	1.15	1.13	1.16	0.01	0.16	0.14	0.17	0.01	8589798	379850	21902
ADHD	Angina pectoris	1DR	Any 1DR	1.12	1.10	1.13	0.01	0.10	0.09	0.11	0.01	8589798	377105	21798
ADHD	Myocardial infarction	1DR	Any 1DR	1.08	1.06	1.10	0.01	0.07	0.05	0.09	0.01	8589798	169608	9566
ADHD	Heart failure	1DR	Any 1DR	1.13	1.10	1.16	0.01	0.08	0.07	0.10	0.01	8589798	103653	5743
Autism	Type-2 diabetes	1DR	Any 1DR	1.04	1.02	1.06	0.01	0.03	0.01	0.04	0.01	8589798	896425	10170
Autism	Hypertension	1DR	Any 1DR	1.06	1.05	1.07	0.01	0.09	0.07	0.11	0.01	8589798	3970563	46677

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Autism	Dyslipidemia	1DR	Any 1DR	1.03	1.02	1.05	0.01	0.03	0.01	0.05	0.01	8589798	2027057	23821
Autism	Stroke	1DR	Any 1DR	1.13	1.10	1.16	0.02	0.11	0.08	0.14	0.01	8589798	379850	4653
Autism	Angina pectoris	1DR	Any 1DR	1.05	1.02	1.09	0.02	0.04	0.01	0.06	0.01	8589798	377105	4436
Autism	Myocardial infarction	1DR	Any 1DR	1.04	1.00	1.09	0.02	0.03	0.00	0.06	0.02	8589798	169608	2000
Autism	Heart failure	1DR	Any 1DR	1.11	1.05	1.18	0.03	0.06	0.03	0.09	0.02	8589798	103653	1216
Autism	ADHD	1DR	Parent	2.79	2.71	2.86	0.04	0.57	0.55	0.59	0.01	3532491	101862	6142
Type-2 diabetes	ADHD	1DR	Parent	0.99	0.93	1.05	0.03	-0.01	0.04	-0.06	-0.02	3532491	101862	1324
Hypertension	ADHD	1DR	Parent	1.17	1.15	1.19	0.01	0.42	0.37	0.47	0.03	3532491	101862	11561
Dyslipidemia	ADHD	1DR	Parent	1.13	1.04	1.22	0.05	0.13	0.04	0.21	0.04	3532491	101862	734
Stroke	ADHD	1DR	Parent	1.28	1.14	1.43	0.07	0.24	0.13	0.35	0.05	3532491	101862	400
Heart failure	ADHD	1DR	Parent	1.07	0.77	1.37	0.15	0.03	-0.11	0.18	0.07	3532491	101862	60
Hypertension	Autism	1DR	Parent	1.11	1.05	1.16	0.03	0.21	0.10	0.31	0.05	3532491	15694	1675
ADHD	Autism	1DR	Parent	2.46	2.38	2.54	0.04	0.49	0.47	0.51	0.01	3532491	15694	3785
ADHD	Type-2 diabetes	1DR	Parent	1.00	0.99	1.01	0.01	0.00	-0.01	0.01	0.01	3532491	400576	31526
ADHD	Hypertension	1DR	Parent	1.05	1.05	1.06	0.00	0.14	0.12	0.16	0.01	3532491	1512778	130148
ADHD	Dyslipidemia	1DR	Parent	1.06	1.05	1.07	0.00	0.06	0.05	0.07	0.00	3532491	1014074	83472
ADHD	Stroke	1DR	Parent	1.16	1.14	1.18	0.01	0.14	0.12	0.15	0.01	3532491	179547	16389
ADHD	Angina pectoris	1DR	Parent	1.14	1.12	1.15	0.01	0.10	0.09	0.11	0.01	3532491	208107	18070
ADHD	Myocardial infarction	1DR	Parent	1.10	1.07	1.12	0.01	0.08	0.06	0.10	0.01	3532491	90392	7879
ADHD	Heart failure	1DR	Parent	1.15	1.12	1.19	0.02	0.07	0.06	0.09	0.01	3532491	51564	4445
Autism	Type-2 diabetes	1DR	Parent	1.10	1.08	1.13	0.01	0.06	0.05	0.08	0.01	3532491	400576	7289
Autism	Hypertension	1DR	Parent	1.07	1.05	1.08	0.01	0.13	0.10	0.17	0.02	3532491	1512778	28076
Autism	Dyslipidemia	1DR	Parent	1.07	1.05	1.09	0.01	0.06	0.04	0.07	0.01	3532491	1014074	17741
Autism	Stroke	1DR	Parent	1.20	1.16	1.24	0.02	0.14	0.11	0.16	0.01	3532491	179547	3581
Autism	Angina pectoris	1DR	Parent	1.10	1.06	1.14	0.02	0.06	0.04	0.08	0.01	3532491	208107	3676
Autism	Myocardial infarction	1DR	Parent	1.09	1.03	1.14	0.03	0.06	0.02	0.09	0.02	3532491	90392	1662
Autism	Heart failure	1DR	Parent	1.19	1.11	1.27	0.04	0.07	0.04	0.10	0.01	3532491	51564	960

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Autism	ADHD	1DR	Both parents	4.39	3.84	4.93	0.28	0.59	0.52	0.65	0.03	3532491	2753	314
Type-2 diabetes	ADHD	1DR	Both parents	1.24	0.64	1.84	0.31	0.11	-0.13	0.34	0.12	3532491	2753	35
Hypertension	ADHD	1DR	Both parents	1.41	1.20	1.62	0.11	0.40	0.22	0.59	0.09	3532491	2753	299
Dyslipidemia	ADHD	1DR	Both parents	1.35	0.23	2.48	0.57	0.16	-0.30	0.62	0.23	3532491	2753	17
Stroke	ADHD	1DR	Both parents	1.69	0.51	2.88	0.61	0.31	-0.12	0.74	0.22	3532491	2753	17
Hypertension	Autism	1DR	Both parents	0.71	0.28	1.15	0.22	-0.28	0.20	-0.76	-0.25	3532491	136	14
ADHD	Autism	1DR	Both parents	4.66	3.39	5.94	0.65	0.64	0.49	0.78	0.07	3532491	136	43
ADHD	Type-2 diabetes	1DR	Both parents	0.87	0.83	0.91	0.02	-0.07	-0.04	-0.09	-0.01	3532491	24954	1629
ADHD	Hypertension	1DR	Both parents	1.16	1.14	1.17	0.01	0.16	0.15	0.18	0.01	3532491	361488	32476
ADHD	Dyslipidemia	1DR	Both parents	1.13	1.11	1.15	0.01	0.06	0.05	0.07	0.01	3532491	137536	11044
ADHD	Stroke	1DR	Both parents	1.47	1.31	1.63	0.08	0.23	0.15	0.30	0.04	3532491	2849	317
ADHD	Angina pectoris	1DR	Both parents	1.36	1.23	1.49	0.07	0.14	0.09	0.20	0.03	3532491	4861	446
ADHD	Myocardial infarction	1DR	Both parents	1.31	0.97	1.65	0.17	0.10	0.00	0.19	0.05	3532491	608	58
ADHD	Heart failure	1DR	Both parents	1.11	0.57	1.65	0.27	0.03	-0.11	0.17	0.07	3532491	268	21
Autism	Type-2 diabetes	1DR	Both parents	1.08	0.97	1.18	0.05	0.03	-0.01	0.07	0.02	3532491	24954	414
Autism	Hypertension	1DR	Both parents	1.19	1.16	1.22	0.02	0.16	0.13	0.19	0.01	3532491	361488	7011
Autism	Dyslipidemia	1DR	Both parents	1.19	1.14	1.25	0.03	0.07	0.05	0.09	0.01	3532491	137536	2325
Autism	Stroke	1DR	Both parents	1.11	0.79	1.43	0.16	0.05	-0.08	0.18	0.07	3532491	2849	51
Autism	Angina pectoris	1DR	Both parents	1.35	1.03	1.67	0.16	0.11	0.02	0.21	0.05	3532491	4861	88
Autism	ADHD	1DR	Father	2.61	2.51	2.70	0.05	0.55	0.53	0.57	0.01	2636298	49996	2881
Type-2 diabetes	ADHD	1DR	Father	1.05	0.97	1.14	0.04	0.04	-0.03	0.11	0.03	2636298	49996	628
Hypertension	ADHD	1DR	Father	1.17	1.14	1.19	0.02	0.33	0.27	0.38	0.03	2636298	49996	5496
Dyslipidemia	ADHD	1DR	Father	1.18	1.05	1.32	0.07	0.16	0.06	0.27	0.06	2636298	49996	341
Stroke	ADHD	1DR	Father	1.35	1.15	1.54	0.10	0.33	0.17	0.50	0.09	2636298	49996	200
Angina pectoris	ADHD	1DR	Father	1.10	0.60	1.59	0.25	0.07	-0.28	0.42	0.18	2636298	49996	20
Heart failure	ADHD	1DR	Father	1.24	0.79	1.69	0.23	0.12	-0.08	0.32	0.10	2636298	49996	32
Type-2 diabetes	Autism	1DR	Father	0.97	0.80	1.14	0.09	-0.02	0.10	-0.13	-0.06	2636298	11227	133

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Hypertension	Autism	1DR	Father	1.11	1.05	1.17	0.03	0.17	0.08	0.27	0.05	2636298	11227	1183
Dyslipidemia	Autism	1DR	Father	1.24	0.96	1.52	0.14	0.17	-0.01	0.35	0.09	2636298	11227	82
Stroke	Autism	1DR	Father	1.46	1.02	1.91	0.23	0.34	0.06	0.62	0.14	2636298	11227	46
ADHD	Autism	1DR	Father	2.37	2.29	2.45	0.04	0.49	0.47	0.51	0.01	2636298	11227	2615
ADHD	Type-2 diabetes	1DR	Father	0.99	0.98	1.01	0.01	0.00	0.01	-0.02	-0.01	2636298	226246	18258
ADHD	Hypertension	1DR	Father	1.07	1.06	1.07	0.00	0.13	0.11	0.15	0.01	2636298	934897	81868
ADHD	Dyslipidemia	1DR	Father	1.06	1.05	1.07	0.00	0.06	0.05	0.07	0.00	2636298	693471	58929
ADHD	Stroke	1DR	Father	1.13	1.11	1.16	0.01	0.13	0.11	0.16	0.01	2636298	91141	8269
ADHD	Angina pectoris	1DR	Father	1.09	1.07	1.12	0.01	0.07	0.05	0.09	0.01	2636298	128191	11104
ADHD	Myocardial infarction	1DR	Father	1.08	1.06	1.11	0.01	0.08	0.05	0.11	0.02	2636298	65847	5777
ADHD	Heart failure	1DR	Father	1.14	1.09	1.18	0.02	0.07	0.05	0.09	0.01	2636298	28534	2511
Autism	Type-2 diabetes	1DR	Father	1.05	1.02	1.09	0.02	0.04	0.01	0.06	0.01	2636298	226246	4065
Autism	Hypertension	1DR	Father	1.07	1.05	1.09	0.01	0.11	0.08	0.14	0.02	2636298	934897	17422
Autism	Dyslipidemia	1DR	Father	1.04	1.02	1.06	0.01	0.03	0.01	0.05	0.01	2636298	693471	12246
Autism	Stroke	1DR	Father	1.14	1.08	1.19	0.03	0.11	0.07	0.16	0.02	2636298	91141	1751
Autism	Angina pectoris	1DR	Father	1.05	1.01	1.10	0.02	0.03	0.00	0.06	0.01	2636298	128191	2234
Autism	Myocardial infarction	1DR	Father	1.07	1.01	1.13	0.03	0.05	0.00	0.10	0.02	2636298	65847	1223
Autism	Heart failure	1DR	Father	1.16	1.06	1.27	0.05	0.06	0.03	0.10	0.02	2636298	28534	533
Autism	ADHD	1DR	Mother	3.14	3.03	3.24	0.05	0.58	0.57	0.60	0.01	3392603	57363	3887
Type-2 diabetes	ADHD	1DR	Mother	0.98	0.91	1.06	0.04	-0.01	0.04	-0.06	-0.03	3392603	57363	766
Hypertension	ADHD	1DR	Mother	1.19	1.17	1.22	0.01	0.32	0.28	0.36	0.02	3392603	57363	6660
Dyslipidemia	ADHD	1DR	Mother	1.11	1.00	1.22	0.06	0.08	0.00	0.16	0.04	3392603	57363	427
Stroke	ADHD	1DR	Mother	1.28	1.11	1.46	0.09	0.21	0.09	0.32	0.06	3392603	57363	234
Angina pectoris	ADHD	1DR	Mother	0.83	0.46	1.20	0.19	-0.12	0.17	-0.42	-0.15	3392603	57363	22
Myocardial infarction	ADHD	1DR	Mother	0.78	0.27	1.29	0.26	-0.16	0.26	-0.58	-0.21	3392603	57363	11
Heart failure	ADHD	1DR	Mother	0.99	0.62	1.35	0.18	-0.01	0.16	-0.17	-0.09	3392603	57363	32
Type-2 diabetes	Autism	1DR	Mother	0.81	0.56	1.05	0.12	-0.11	0.04	-0.27	-0.08	3392603	4738	52

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Hypertension	Autism	1DR	Mother	1.14	1.04	1.23	0.05	0.17	0.06	0.29	0.06	3392603	4738	519
Dyslipidemia	Autism	1DR	Mother	1.33	0.89	1.77	0.22	0.18	-0.03	0.39	0.11	3392603	4738	41
Stroke	Autism	1DR	Mother	0.81	0.30	1.32	0.26	-0.13	0.25	-0.50	-0.19	3392603	4738	12
ADHD	Autism	1DR	Mother	2.76	2.62	2.90	0.07	0.51	0.48	0.54	0.01	3392603	4738	1255
ADHD	Type-2 diabetes	1DR	Mother	0.99	0.98	1.01	0.01	-0.01	0.01	-0.02	-0.01	3392603	224235	16525
ADHD	Hypertension	1DR	Mother	1.10	1.10	1.11	0.00	0.17	0.16	0.19	0.01	3392603	1300694	113210
ADHD	Dyslipidemia	1DR	Mother	1.11	1.10	1.12	0.01	0.08	0.07	0.09	0.00	3392603	595636	46625
ADHD	Stroke	1DR	Mother	1.21	1.18	1.23	0.01	0.16	0.14	0.17	0.01	3392603	94103	8754
ADHD	Angina pectoris	1DR	Mother	1.24	1.21	1.27	0.01	0.15	0.13	0.17	0.01	3392603	89635	7857
ADHD	Myocardial infarction	1DR	Mother	1.18	1.13	1.23	0.03	0.11	0.08	0.14	0.02	3392603	25761	2218
ADHD	Heart failure	1DR	Mother	1.18	1.13	1.24	0.03	0.08	0.06	0.10	0.01	3392603	23566	1976
Autism	Type-2 diabetes	1DR	Mother	1.18	1.14	1.21	0.02	0.09	0.07	0.11	0.01	3392603	224235	4052
Autism	Hypertension	1DR	Mother	1.14	1.12	1.16	0.01	0.18	0.15	0.20	0.01	3392603	1300694	24665
Autism	Dyslipidemia	1DR	Mother	1.18	1.16	1.21	0.01	0.10	0.09	0.12	0.01	3392603	595636	10142
Autism	Stroke	1DR	Mother	1.28	1.22	1.34	0.03	0.15	0.12	0.18	0.02	3392603	94103	1932
Autism	Angina pectoris	1DR	Mother	1.23	1.17	1.30	0.03	0.11	0.08	0.14	0.02	3392603	89635	1618
Autism	Myocardial infarction	1DR	Mother	1.18	1.06	1.29	0.06	0.09	0.03	0.14	0.03	3392603	25761	453
Autism	Heart failure	1DR	Mother	1.29	1.16	1.42	0.06	0.09	0.06	0.13	0.02	3392603	23566	443
Autism	ADHD	1DR	Offspring	2.32	2.22	2.41	0.05	0.48	0.45	0.50	0.01	3094330	464616	3081
Type-2 diabetes	ADHD	1DR	Offspring	1.00	0.99	1.01	0.01	0.00	-0.01	0.01	0.01	3094330	464616	30547
Hypertension	ADHD	1DR	Offspring	1.07	1.07	1.07	0.00	0.13	0.13	0.14	0.00	3094330	464616	170701
Dyslipidemia	ADHD	1DR	Offspring	1.06	1.06	1.07	0.00	0.05	0.05	0.06	0.00	3094330	464616	92782
Stroke	ADHD	1DR	Offspring	1.16	1.14	1.18	0.01	0.15	0.13	0.17	0.01	3094330	464616	14944
Angina pectoris	ADHD	1DR	Offspring	1.14	1.12	1.16	0.01	0.09	0.08	0.11	0.01	3094330	464616	16549
Myocardial infarction	ADHD	1DR	Offspring	1.09	1.06	1.12	0.01	0.07	0.05	0.10	0.01	3094330	464616	7048
Heart failure	ADHD	1DR	Offspring	1.13	1.10	1.17	0.02	0.07	0.05	0.09	0.01	3094330	464616	3939
Type-2 diabetes	Autism	1DR	Offspring	1.10	1.07	1.12	0.01	0.06	0.04	0.07	0.01	3094330	108785	7672

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Hypertension	Autism	1DR	Offspring	1.09	1.08	1.09	0.00	0.13	0.11	0.14	0.01	3094330	108785	39976
Dyslipidemia	Autism	1DR	Offspring	1.07	1.06	1.08	0.01	0.05	0.04	0.05	0.00	3094330	108785	21321
Stroke	Autism	1DR	Offspring	1.19	1.15	1.23	0.02	0.13	0.11	0.16	0.01	3094330	108785	3508
Angina pectoris	Autism	1DR	Offspring	1.11	1.07	1.15	0.02	0.06	0.04	0.07	0.01	3094330	108785	3674
Myocardial infarction	Autism	1DR	Offspring	1.08	1.03	1.14	0.03	0.05	0.02	0.09	0.02	3094330	108785	1606
Heart failure	Autism	1DR	Offspring	1.15	1.08	1.23	0.04	0.06	0.03	0.09	0.01	3094330	108785	924
ADHD	Autism	1DR	Offspring	2.86	2.78	2.93	0.04	0.62	0.60	0.63	0.01	3094330	108785	6199
ADHD	Type-2 diabetes	1DR	Offspring	1.04	0.97	1.10	0.03	0.03	-0.02	0.08	0.02	3094330	87038	1341
ADHD	Hypertension	1DR	Offspring	1.17	1.14	1.19	0.01	0.31	0.27	0.36	0.02	3094330	572769	10783
ADHD	Dyslipidemia	1DR	Offspring	1.20	1.09	1.31	0.06	0.16	0.08	0.24	0.04	3094330	46075	703
ADHD	Stroke	1DR	Offspring	1.28	1.15	1.41	0.07	0.25	0.14	0.36	0.05	3094330	21627	424
ADHD	Angina pectoris	1DR	Offspring	0.94	0.51	1.36	0.22	-0.05	0.26	-0.35	-0.16	3094330	3977	42
ADHD	Myocardial infarction	1DR	Offspring	2.28	0.91	3.66	0.70	0.77	0.16	1.39	0.32	3094330	1972	21
ADHD	Heart failure	1DR	Offspring	1.23	0.82	1.64	0.21	0.11	-0.07	0.29	0.09	3094330	3969	63
Autism	Type-2 diabetes	1DR	Offspring	1.03	0.86	1.20	0.09	0.02	-0.08	0.12	0.05	3094330	87038	178
Autism	Hypertension	1DR	Offspring	1.13	1.06	1.19	0.03	0.18	0.09	0.27	0.05	3094330	572769	1494
Autism	Dyslipidemia	1DR	Offspring	1.46	1.13	1.80	0.17	0.27	0.11	0.43	0.08	3094330	46075	110
Autism	Stroke	1DR	Offspring	1.15	0.82	1.49	0.17	0.11	-0.12	0.34	0.12	3094330	21627	52
Autism	Heart failure	1DR	Offspring	1.46	0.34	2.57	0.57	0.16	-0.16	0.48	0.17	3094330	3969	11
Autism	ADHD	1DR	Son	2.22	2.11	2.33	0.06	0.46	0.43	0.49	0.02	2192558	318381	2169
Type-2 diabetes	ADHD	1DR	Son	0.99	0.98	1.01	0.01	-0.01	0.01	-0.02	-0.01	2192558	318381	20518
Hypertension	ADHD	1DR	Son	1.08	1.07	1.08	0.00	0.14	0.13	0.15	0.01	2192558	318381	116178
Dyslipidemia	ADHD	1DR	Son	1.07	1.06	1.08	0.00	0.06	0.05	0.07	0.00	2192558	318381	62493
Stroke	ADHD	1DR	Son	1.17	1.15	1.20	0.01	0.17	0.14	0.19	0.01	2192558	318381	10092
Angina pectoris	ADHD	1DR	Son	1.16	1.13	1.18	0.01	0.10	0.09	0.12	0.01	2192558	318381	11169
Myocardial infarction	ADHD	1DR	Son	1.11	1.07	1.14	0.02	0.08	0.05	0.11	0.02	2192558	318381	4850
Heart failure	ADHD	1DR	Son	1.14	1.09	1.19	0.02	0.07	0.05	0.09	0.01	2192558	318381	2635

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Type-2 diabetes	Autism	1DR	Son	1.12	1.09	1.15	0.02	0.07	0.05	0.09	0.01	2192558	76976	5514
Hypertension	Autism	1DR	Son	1.09	1.08	1.10	0.01	0.13	0.11	0.14	0.01	2192558	76976	28276
Dyslipidemia	Autism	1DR	Son	1.09	1.07	1.10	0.01	0.06	0.05	0.07	0.01	2192558	76976	15102
Stroke	Autism	1DR	Son	1.22	1.17	1.26	0.03	0.16	0.12	0.20	0.02	2192558	76976	2492
Angina pectoris	Autism	1DR	Son	1.10	1.05	1.14	0.02	0.05	0.03	0.07	0.01	2192558	76976	2520
Myocardial infarction	Autism	1DR	Son	1.11	1.04	1.17	0.03	0.06	0.02	0.10	0.02	2192558	76976	1148
Heart failure	Autism	1DR	Son	1.18	1.08	1.27	0.05	0.07	0.03	0.10	0.02	2192558	76976	658
ADHD	Autism	1DR	Son	2.81	2.72	2.90	0.04	0.62	0.60	0.65	0.01	2192558	76976	4535
ADHD	Type-2 diabetes	1DR	Son	1.06	0.96	1.16	0.05	0.04	-0.03	0.12	0.04	2192558	25213	440
ADHD	Hypertension	1DR	Son	1.23	1.19	1.27	0.02	0.41	0.34	0.47	0.03	2192558	189424	3889
ADHD	Dyslipidemia	1DR	Son	1.15	1.01	1.30	0.07	0.12	0.02	0.23	0.06	2192558	24403	358
ADHD	Stroke	1DR	Son	1.39	1.20	1.57	0.10	0.35	0.20	0.50	0.08	2192558	9956	220
ADHD	Angina pectoris	1DR	Son	0.83	0.38	1.29	0.23	-0.13	0.25	-0.50	-0.19	2192558	2297	21
ADHD	Myocardial infarction	1DR	Son	2.20	0.74	3.67	0.75	0.69	0.06	1.31	0.32	2192558	1384	15
ADHD	Heart failure	1DR	Son	0.80	0.46	1.15	0.18	-0.11	0.10	-0.32	-0.11	2192558	1982	26
Autism	Type-2 diabetes	1DR	Son	1.21	0.92	1.50	0.15	0.12	-0.03	0.27	0.08	2192558	25213	73
Autism	Hypertension	1DR	Son	1.26	1.15	1.37	0.06	0.36	0.22	0.49	0.07	2192558	189424	582
Autism	Dyslipidemia	1DR	Son	1.32	0.91	1.73	0.21	0.19	-0.02	0.41	0.11	2192558	24403	58
Autism	Stroke	1DR	Son	1.10	0.64	1.55	0.23	0.08	-0.26	0.41	0.17	2192558	9956	24
Autism	ADHD	1DR	Daughter	2.73	2.56	2.89	0.09	0.50	0.46	0.53	0.02	2138817	174527	1262
Type-2 diabetes	ADHD	1DR	Daughter	1.00	0.98	1.02	0.01	0.00	0.01	-0.01	-0.01	2138817	174527	11926
Hypertension	ADHD	1DR	Daughter	1.07	1.06	1.07	0.00	0.11	0.10	0.13	0.01	2138817	174527	65353
Dyslipidemia	ADHD	1DR	Daughter	1.06	1.05	1.07	0.00	0.04	0.03	0.05	0.00	2138817	174527	35998
Stroke	ADHD	1DR	Daughter	1.15	1.12	1.18	0.02	0.12	0.10	0.14	0.01	2138817	174527	5775
Angina pectoris	ADHD	1DR	Daughter	1.13	1.10	1.16	0.01	0.08	0.06	0.09	0.01	2138817	174527	6456
Myocardial infarction	ADHD	1DR	Daughter	1.06	1.02	1.11	0.02	0.07	0.01	0.12	0.03	2138817	174527	2642
Heart failure	ADHD	1DR	Daughter	1.12	1.06	1.18	0.03	0.06	0.03	0.08	0.01	2138817	174527	1543

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Type-2 diabetes	Autism	1DR	Daughter	1.03	0.99	1.07	0.02	0.02	-0.01	0.04	0.01	2138817	34037	2334
Hypertension	Autism	1DR	Daughter	1.07	1.06	1.09	0.01	0.10	0.08	0.12	0.01	2138817	34037	12594
Dyslipidemia	Autism	1DR	Daughter	1.04	1.02	1.06	0.01	0.02	0.01	0.04	0.01	2138817	34037	6667
Stroke	Autism	1DR	Daughter	1.15	1.08	1.21	0.03	0.09	0.05	0.13	0.02	2138817	34037	1088
Angina pectoris	Autism	1DR	Daughter	1.12	1.06	1.19	0.03	0.06	0.03	0.09	0.01	2138817	34037	1223
Myocardial infarction	Autism	1DR	Daughter	1.03	0.94	1.12	0.05	0.02	-0.05	0.10	0.04	2138817	34037	487
Heart failure	Autism	1DR	Daughter	1.12	0.99	1.25	0.07	0.04	0.00	0.09	0.02	2138817	34037	291
ADHD	Autism	1DR	Daughter	3.00	2.86	3.13	0.07	0.55	0.52	0.58	0.01	2138817	34037	1896
ADHD	Type-2 diabetes	1DR	Daughter	1.05	0.97	1.12	0.04	0.03	-0.02	0.08	0.03	2138817	63434	919
ADHD	Hypertension	1DR	Daughter	1.17	1.14	1.20	0.02	0.29	0.24	0.34	0.02	2138817	414373	7480
ADHD	Dyslipidemia	1DR	Daughter	1.24	1.09	1.38	0.07	0.17	0.08	0.27	0.05	2138817	23661	374
ADHD	Stroke	1DR	Daughter	1.19	1.01	1.36	0.09	0.15	0.02	0.27	0.06	2138817	11858	210
ADHD	Angina pectoris	1DR	Daughter	1.10	0.34	1.85	0.39	0.06	-0.37	0.49	0.22	2138817	1698	21
ADHD	Heart failure	1DR	Daughter	1.67	1.04	2.30	0.32	0.27	0.07	0.47	0.10	2138817	2057	37
Autism	Type-2 diabetes	1DR	Daughter	0.92	0.73	1.12	0.10	-0.05	0.07	-0.16	-0.06	2138817	63434	108
Autism	Hypertension	1DR	Daughter	1.07	0.99	1.14	0.04	0.10	-0.01	0.20	0.05	2138817	414373	991
Autism	Dyslipidemia	1DR	Daughter	1.62	1.16	2.08	0.23	0.33	0.14	0.51	0.10	2138817	23661	60
Autism	Stroke	1DR	Daughter	1.13	0.69	1.58	0.23	0.09	-0.18	0.35	0.14	2138817	11858	28
Autism	ADHD	1DR	Sibling	1.98	1.94	2.02	0.02	0.54	0.52	0.55	0.01	6735541	483860	13294
Type-2 diabetes	ADHD	1DR	Sibling	0.99	0.98	1.01	0.01	0.00	0.01	-0.02	-0.01	6735541	483860	12453
Hypertension	ADHD	1DR	Sibling	1.08	1.08	1.09	0.00	0.14	0.12	0.15	0.01	6735541	483860	82785
Dyslipidemia	ADHD	1DR	Sibling	1.05	1.03	1.06	0.01	0.04	0.03	0.05	0.01	6735541	483860	22360
Stroke	ADHD	1DR	Sibling	1.13	1.09	1.16	0.02	0.11	0.08	0.14	0.02	6735541	483860	4778
Angina pectoris	ADHD	1DR	Sibling	1.07	1.03	1.11	0.02	0.06	0.03	0.09	0.02	6735541	483860	3313
Myocardial infarction	ADHD	1DR	Sibling	1.08	1.02	1.13	0.03	0.07	0.02	0.12	0.02	6735541	483860	1577
Heart failure	ADHD	1DR	Sibling	1.13	1.06	1.20	0.04	0.07	0.03	0.10	0.02	6735541	483860	1193
Type-2 diabetes	Autism	1DR	Sibling	0.94	0.90	0.98	0.02	-0.04	-0.01	-0.06	-0.01	6735541	108572	2717

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Hypertension	Autism	1DR	Sibling	1.02	1.00	1.03	0.01	0.02	0.00	0.04	0.01	6735541	108572	17773
Dyslipidemia	Autism	1DR	Sibling	0.91	0.89	0.94	0.01	-0.07	-0.05	-0.09	-0.01	6735541	108572	4683
Stroke	Autism	1DR	Sibling	1.00	0.93	1.06	0.03	0.00	0.05	-0.05	-0.02	6735541	108572	1009
Angina pectoris	Autism	1DR	Sibling	0.94	0.87	1.01	0.04	-0.04	0.01	-0.09	-0.03	6735541	108572	705
Myocardial infarction	Autism	1DR	Sibling	0.96	0.85	1.06	0.05	-0.03	0.05	-0.11	-0.04	6735541	108572	333
Heart failure	Autism	1DR	Sibling	0.98	0.85	1.11	0.07	-0.01	0.05	-0.06	-0.03	6735541	108572	249
ADHD	Autism	1DR	Sibling	2.00	1.96	2.03	0.02	0.54	0.53	0.56	0.01	6735541	108572	14245
ADHD	Type-2 diabetes	1DR	Sibling	0.98	0.96	1.00	0.01	-0.02	0.00	-0.04	-0.01	6735541	418309	12157
ADHD	Hypertension	1DR	Sibling	1.15	1.14	1.16	0.00	0.24	0.23	0.26	0.01	6735541	2007543	74728
ADHD	Dyslipidemia	1DR	Sibling	1.03	1.00	1.06	0.02	0.03	0.00	0.06	0.01	6735541	868299	19322
ADHD	Stroke	1DR	Sibling	1.16	1.12	1.20	0.02	0.14	0.10	0.18	0.02	6735541	178589	4936
ADHD	Angina pectoris	1DR	Sibling	1.03	0.92	1.14	0.06	0.03	-0.07	0.12	0.05	6735541	161171	3293
ADHD	Myocardial infarction	1DR	Sibling	0.96	0.81	1.12	0.08	-0.03	0.11	-0.18	-0.07	6735541	76824	1614
ADHD	Heart failure	1DR	Sibling	1.14	1.04	1.25	0.05	0.07	0.02	0.12	0.03	6735541	48289	1237
Autism	Type-2 diabetes	1DR	Sibling	0.98	0.94	1.03	0.02	-0.01	0.02	-0.04	-0.02	6735541	418309	2578
Autism	Hypertension	1DR	Sibling	1.11	1.09	1.13	0.01	0.15	0.12	0.18	0.01	6735541	2007543	15424
Autism	Dyslipidemia	1DR	Sibling	1.04	0.97	1.11	0.04	0.03	-0.02	0.08	0.03	6735541	868299	3993
Autism	Stroke	1DR	Sibling	1.12	1.02	1.22	0.05	0.08	0.01	0.15	0.03	6735541	178589	1003
Autism	Angina pectoris	1DR	Sibling	0.85	0.63	1.07	0.11	-0.11	0.07	-0.28	-0.09	6735541	161171	679
Autism	Myocardial infarction	1DR	Sibling	0.68	0.41	0.95	0.14	-0.26	0.01	-0.53	-0.14	6735541	76824	330
Autism	Heart failure	1DR	Sibling	1.23	0.97	1.50	0.14	0.09	0.00	0.18	0.05	6735541	48289	242
Autism	ADHD	1DR	Brother	1.94	1.89	2.00	0.03	0.52	0.50	0.55	0.01	4356925	303473	8282
Type-2 diabetes	ADHD	1DR	Brother	0.99	0.97	1.02	0.01	0.00	0.02	-0.02	-0.01	4356925	303473	7406
Hypertension	ADHD	1DR	Brother	1.08	1.08	1.09	0.00	0.13	0.12	0.14	0.01	4356925	303473	49892
Dyslipidemia	ADHD	1DR	Brother	1.06	1.05	1.08	0.01	0.06	0.04	0.08	0.01	4356925	303473	12837
Stroke	ADHD	1DR	Brother	1.13	1.08	1.18	0.02	0.12	0.08	0.16	0.02	4356925	303473	2772
Angina pectoris	ADHD	1DR	Brother	1.10	1.05	1.15	0.03	0.09	0.05	0.13	0.02	4356925	303473	1921

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Myocardial infarction	ADHD	1DR	Brother	1.11	1.04	1.19	0.04	0.10	0.03	0.16	0.03	4356925	303473	905
Heart failure	ADHD	1DR	Brother	1.10	1.01	1.19	0.05	0.05	0.01	0.10	0.02	4356925	303473	661
Type-2 diabetes	Autism	1DR	Brother	0.94	0.90	0.99	0.02	-0.03	-0.01	-0.06	-0.01	4356925	76161	1960
Hypertension	Autism	1DR	Brother	1.03	1.01	1.04	0.01	0.03	0.01	0.05	0.01	4356925	76161	12691
Dyslipidemia	Autism	1DR	Brother	0.92	0.89	0.95	0.01	-0.06	-0.04	-0.09	-0.01	4356925	76161	3458
Stroke	Autism	1DR	Brother	1.00	0.92	1.07	0.04	0.00	0.05	-0.06	-0.03	4356925	76161	732
Angina pectoris	Autism	1DR	Brother	0.95	0.86	1.03	0.04	-0.04	0.02	-0.10	-0.03	4356925	76161	519
Myocardial infarction	Autism	1DR	Brother	0.98	0.86	1.10	0.06	-0.01	0.08	-0.10	-0.05	4356925	76161	247
Heart failure	Autism	1DR	Brother	1.01	0.86	1.17	0.08	0.01	-0.06	0.07	0.03	4356925	76161	184
ADHD	Autism	1DR	Brother	2.05	2.01	2.10	0.02	0.57	0.55	0.59	0.01	4356925	76161	10009
ADHD	Type-2 diabetes	1DR	Brother	0.97	0.94	1.01	0.02	-0.02	0.01	-0.05	-0.02	4356925	215223	5126
ADHD	Hypertension	1DR	Brother	1.17	1.16	1.19	0.01	0.26	0.23	0.28	0.01	4356925	938647	29127
ADHD	Dyslipidemia	1DR	Brother	1.00	0.96	1.04	0.02	0.00	-0.04	0.04	0.02	4356925	560019	11815
ADHD	Stroke	1DR	Brother	1.17	1.10	1.23	0.03	0.15	0.10	0.21	0.03	4356925	93908	2440
ADHD	Angina pectoris	1DR	Brother	0.94	0.81	1.08	0.07	-0.05	0.07	-0.17	-0.06	4356925	102600	1995
ADHD	Myocardial infarction	1DR	Brother	0.87	0.71	1.04	0.09	-0.12	0.05	-0.29	-0.09	4356925	57930	1161
ADHD	Heart failure	1DR	Brother	1.01	0.87	1.14	0.07	0.00	-0.07	0.07	0.04	4356925	28221	619
Autism	Type-2 diabetes	1DR	Brother	1.04	0.95	1.13	0.04	0.03	-0.03	0.08	0.03	4356925	215223	1110
Autism	Hypertension	1DR	Brother	1.15	1.11	1.19	0.02	0.18	0.14	0.22	0.02	4356925	938647	6147
Autism	Dyslipidemia	1DR	Brother	1.01	0.91	1.11	0.05	0.01	-0.07	0.09	0.04	4356925	560019	2421
Autism	Stroke	1DR	Brother	1.03	0.89	1.17	0.07	0.02	-0.08	0.13	0.05	4356925	93908	464
Autism	Angina pectoris	1DR	Brother	0.85	0.57	1.14	0.15	-0.11	0.12	-0.34	-0.12	4356925	102600	402
Autism	Myocardial infarction	1DR	Brother	0.68	0.38	0.97	0.15	-0.27	0.03	-0.57	-0.15	4356925	57930	251
Autism	Heart failure	1DR	Brother	1.15	0.79	1.51	0.18	0.06	-0.07	0.20	0.07	4356925	28221	137
Autism	ADHD	1DR	Sister	2.17	2.10	2.23	0.03	0.56	0.54	0.59	0.01	4303520	196516	5720
Type-2 diabetes	ADHD	1DR	Sister	0.97	0.94	1.00	0.01	-0.02	0.00	-0.04	-0.01	4303520	196516	5391
Hypertension	ADHD	1DR	Sister	1.08	1.07	1.09	0.01	0.12	0.11	0.14	0.01	4303520	196516	35394

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Dyslipidemia	ADHD	1DR	Sister	1.02	1.00	1.04	0.01	0.02	0.00	0.03	0.01	4303520	196516	9981
Stroke	ADHD	1DR	Sister	1.13	1.08	1.18	0.03	0.10	0.06	0.14	0.02	4303520	196516	2138
Angina pectoris	ADHD	1DR	Sister	1.02	0.96	1.07	0.03	0.01	-0.03	0.06	0.02	4303520	196516	1463
Myocardial infarction	ADHD	1DR	Sister	1.03	0.95	1.10	0.04	0.02	-0.04	0.09	0.03	4303520	196516	698
Heart failure	ADHD	1DR	Sister	1.17	1.07	1.28	0.05	0.08	0.04	0.13	0.02	4303520	196516	557
Type-2 diabetes	Autism	1DR	Sister	0.89	0.82	0.95	0.04	-0.07	-0.03	-0.12	-0.02	4303520	33628	780
Hypertension	Autism	1DR	Sister	0.98	0.96	1.01	0.01	-0.02	0.01	-0.06	-0.02	4303520	33628	5275
Dyslipidemia	Autism	1DR	Sister	0.88	0.83	0.93	0.02	-0.09	-0.05	-0.13	-0.02	4303520	33628	1255
Stroke	Autism	1DR	Sister	1.05	0.92	1.19	0.07	0.04	-0.05	0.12	0.04	4303520	33628	293
Angina pectoris	Autism	1DR	Sister	0.93	0.80	1.07	0.07	-0.05	0.05	-0.15	-0.05	4303520	33628	193
Myocardial infarction	Autism	1DR	Sister	0.88	0.69	1.08	0.10	-0.08	0.06	-0.23	-0.08	4303520	33628	86
Heart failure	Autism	1DR	Sister	0.87	0.64	1.10	0.12	-0.06	0.05	-0.16	-0.05	4303520	33628	66
ADHD	Autism	1DR	Sister	2.02	1.95	2.08	0.03	0.51	0.48	0.53	0.01	4303520	33628	4514
ADHD	Type-2 diabetes	1DR	Sister	0.96	0.94	0.99	0.01	-0.03	-0.01	-0.05	-0.01	4303520	227448	7489
ADHD	Hypertension	1DR	Sister	1.13	1.12	1.14	0.01	0.20	0.19	0.22	0.01	4303520	1304479	51095
ADHD	Dyslipidemia	1DR	Sister	1.07	1.03	1.11	0.02	0.06	0.03	0.10	0.02	4303520	403027	9129
ADHD	Stroke	1DR	Sister	1.16	1.10	1.22	0.03	0.13	0.08	0.17	0.02	4303520	88026	2568
ADHD	Angina pectoris	1DR	Sister	1.16	0.99	1.33	0.09	0.12	0.00	0.25	0.06	4303520	63404	1386
ADHD	Myocardial infarction	1DR	Sister	1.29	0.94	1.64	0.18	0.22	-0.02	0.47	0.12	4303520	19605	467
ADHD	Heart failure	1DR	Sister	1.29	1.13	1.44	0.08	0.13	0.07	0.19	0.03	4303520	20552	625
Autism	Type-2 diabetes	1DR	Sister	0.93	0.88	0.99	0.03	-0.04	-0.01	-0.08	-0.02	4303520	227448	1536
Autism	Hypertension	1DR	Sister	1.08	1.05	1.10	0.01	0.10	0.07	0.14	0.02	4303520	1304479	10383
Autism	Dyslipidemia	1DR	Sister	1.07	0.97	1.17	0.05	0.05	-0.02	0.12	0.03	4303520	403027	1896
Autism	Stroke	1DR	Sister	1.20	1.06	1.34	0.07	0.13	0.04	0.21	0.04	4303520	88026	559
Autism	Angina pectoris	1DR	Sister	0.87	0.56	1.18	0.16	-0.09	0.14	-0.33	-0.12	4303520	63404	293
Autism	Myocardial infarction	1DR	Sister	0.71	0.20	1.22	0.26	-0.23	0.25	-0.71	-0.24	4303520	19605	81
Autism	Heart failure	1DR	Sister	1.28	0.91	1.66	0.19	0.10	-0.02	0.23	0.06	4303520	20552	107

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Autism	ADHD	2DR	Any 2DR	1.37	1.34	1.39	0.01	0.58	0.54	0.63	0.02	7236980	1138090	11785
Type-2 diabetes	ADHD	2DR	Any 2DR	1.00	0.99	1.01	0.00	0.00	-0.02	0.03	0.01	7236980	1138090	60836
Hypertension	ADHD	2DR	Any 2DR	1.02	1.02	1.03	0.00	0.15	0.12	0.18	0.01	7236980	1138090	328467
Dyslipidemia	ADHD	2DR	Any 2DR	1.03	1.03	1.04	0.00	0.09	0.07	0.11	0.01	7236980	1138090	174589
Stroke	ADHD	2DR	Any 2DR	1.06	1.05	1.08	0.01	0.18	0.13	0.23	0.02	7236980	1138090	27802
Angina pectoris	ADHD	2DR	Any 2DR	1.08	1.06	1.09	0.01	0.16	0.12	0.19	0.02	7236980	1138090	29642
Myocardial infarction	ADHD	2DR	Any 2DR	1.06	1.03	1.08	0.01	0.12	0.07	0.17	0.03	7236980	1138090	12918
Heart failure	ADHD	2DR	Any 2DR	1.06	1.03	1.08	0.01	0.10	0.05	0.15	0.03	7236980	1138090	7898
Type-2 diabetes	Autism	2DR	Any 2DR	0.99	0.98	1.01	0.01	-0.01	0.02	-0.04	-0.02	7236980	288074	15847
Hypertension	Autism	2DR	Any 2DR	1.01	1.00	1.01	0.00	0.03	-0.01	0.07	0.02	7236980	288074	83980
Dyslipidemia	Autism	2DR	Any 2DR	1.01	1.00	1.02	0.00	0.02	0.00	0.04	0.01	7236980	288074	44828
Stroke	Autism	2DR	Any 2DR	1.06	1.03	1.08	0.01	0.13	0.07	0.19	0.03	7236980	288074	7246
Angina pectoris	Autism	2DR	Any 2DR	1.02	1.00	1.05	0.01	0.04	-0.01	0.08	0.02	7236980	288074	7431
Myocardial infarction	Autism	2DR	Any 2DR	1.01	0.97	1.05	0.02	0.02	-0.05	0.08	0.03	7236980	288074	3246
Heart failure	Autism	2DR	Any 2DR	1.04	0.99	1.09	0.03	0.06	-0.01	0.12	0.03	7236980	288074	2043
ADHD	Autism	2DR	Any 2DR	1.34	1.32	1.36	0.01	0.55	0.51	0.58	0.02	7236980	288074	13483
ADHD	Type-2 diabetes	2DR	Any 2DR	1.00	0.99	1.01	0.00	0.00	0.02	-0.02	-0.01	7236980	1054750	65160
ADHD	Hypertension	2DR	Any 2DR	1.02	1.01	1.02	0.00	0.11	0.07	0.15	0.02	7236980	4017372	241663
ADHD	Dyslipidemia	2DR	Any 2DR	1.03	1.02	1.04	0.00	0.08	0.06	0.10	0.01	7236980	2263264	153943
ADHD	Stroke	2DR	Any 2DR	1.06	1.05	1.07	0.01	0.18	0.14	0.21	0.02	7236980	508476	34478
ADHD	Angina pectoris	2DR	Any 2DR	1.07	1.06	1.08	0.01	0.15	0.12	0.18	0.02	7236980	513230	36265
ADHD	Myocardial infarction	2DR	Any 2DR	1.04	1.03	1.06	0.01	0.10	0.05	0.14	0.02	7236980	236369	16647
ADHD	Heart failure	2DR	Any 2DR	1.08	1.05	1.10	0.01	0.13	0.09	0.17	0.02	7236980	149488	10316
Autism	Type-2 diabetes	2DR	Any 2DR	1.00	0.98	1.02	0.01	0.00	-0.03	0.04	0.02	7236980	1054750	14060
Autism	Hypertension	2DR	Any 2DR	1.00	0.99	1.01	0.01	0.01	-0.06	0.08	0.04	7236980	4017372	51295
Autism	Dyslipidemia	2DR	Any 2DR	1.00	0.99	1.02	0.01	0.00	-0.03	0.04	0.02	7236980	2263264	32520
Autism	Stroke	2DR	Any 2DR	1.05	1.02	1.08	0.01	0.11	0.05	0.17	0.03	7236980	508476	7391

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Autism	Angina pectoris	2DR	Any 2DR	1.00	0.97	1.03	0.01	0.00	-0.05	0.05	0.02	7236980	513230	7338
Autism	Myocardial infarction	2DR	Any 2DR	0.98	0.94	1.02	0.02	-0.04	0.03	-0.10	-0.03	7236980	236369	3390
Autism	Heart failure	2DR	Any 2DR	1.06	1.01	1.10	0.02	0.07	0.01	0.14	0.03	7236980	149488	2181
Autism	ADHD	2DR	Aunt/Uncle	1.37	1.33	1.40	0.02	0.62	0.55	0.68	0.03	4332781	241633	6268
Type-2 diabetes	ADHD	2DR	Aunt/Uncle	0.96	0.93	0.99	0.02	-0.09	-0.01	-0.17	-0.04	4332781	241633	3940
Hypertension	ADHD	2DR	Aunt/Uncle	1.03	1.02	1.04	0.01	0.21	0.13	0.29	0.04	4332781	241633	28941
Dyslipidemia	ADHD	2DR	Aunt/Uncle	1.01	0.97	1.04	0.02	0.02	-0.09	0.13	0.06	4332781	241633	3437
Stroke	ADHD	2DR	Aunt/Uncle	1.06	1.00	1.13	0.03	0.18	-0.01	0.38	0.10	4332781	241633	1210
Angina pectoris	ADHD	2DR	Aunt/Uncle	1.05	0.93	1.16	0.06	0.11	-0.15	0.37	0.13	4332781	241633	385
Myocardial infarction	ADHD	2DR	Aunt/Uncle	1.00	0.85	1.15	0.08	0.01	-0.34	0.36	0.18	4332781	241633	196
Heart failure	ADHD	2DR	Aunt/Uncle	1.00	0.85	1.14	0.07	0.00	0.25	-0.25	-0.13	4332781	241633	231
Type-2 diabetes	Autism	2DR	Aunt/Uncle	0.87	0.80	0.94	0.03	-0.26	-0.12	-0.40	-0.07	4332781	53338	766
Hypertension	Autism	2DR	Aunt/Uncle	0.97	0.94	0.99	0.01	-0.17	-0.03	-0.30	-0.07	4332781	53338	5898
Dyslipidemia	Autism	2DR	Aunt/Uncle	0.85	0.78	0.92	0.04	-0.40	-0.20	-0.61	-0.11	4332781	53338	614
Stroke	Autism	2DR	Aunt/Uncle	0.94	0.80	1.07	0.07	-0.16	0.18	-0.49	-0.17	4332781	53338	236
Angina pectoris	Autism	2DR	Aunt/Uncle	0.83	0.62	1.05	0.11	-0.34	0.15	-0.84	-0.25	4332781	53338	63
Myocardial infarction	Autism	2DR	Aunt/Uncle	0.83	0.54	1.13	0.15	-0.33	0.31	-0.98	-0.33	4332781	53338	36
Heart failure	Autism	2DR	Aunt/Uncle	0.88	0.58	1.17	0.15	-0.18	0.27	-0.62	-0.23	4332781	53338	44
ADHD	Autism	2DR	Aunt/Uncle	1.27	1.24	1.31	0.02	0.47	0.42	0.53	0.03	4332781	53338	5926
ADHD	Type-2 diabetes	2DR	Aunt/Uncle	1.01	1.00	1.02	0.00	0.02	0.00	0.04	0.01	4332781	800411	59177
ADHD	Hypertension	2DR	Aunt/Uncle	1.02	1.01	1.02	0.00	0.11	0.07	0.16	0.02	4332781	2888604	217678
ADHD	Dyslipidemia	2DR	Aunt/Uncle	1.02	1.02	1.03	0.00	0.08	0.05	0.10	0.01	4332781	2030911	147161
ADHD	Stroke	2DR	Aunt/Uncle	1.06	1.05	1.07	0.01	0.17	0.13	0.21	0.02	4332781	424363	32156
ADHD	Angina pectoris	2DR	Aunt/Uncle	1.06	1.05	1.07	0.01	0.13	0.10	0.17	0.02	4332781	474964	34795
ADHD	Myocardial infarction	2DR	Aunt/Uncle	1.04	1.03	1.06	0.01	0.10	0.06	0.14	0.02	4332781	216367	16008
ADHD	Heart failure	2DR	Aunt/Uncle	1.07	1.05	1.09	0.01	0.12	0.08	0.16	0.02	4332781	130659	9732
Autism	Type-2 diabetes	2DR	Aunt/Uncle	1.03	1.01	1.05	0.01	0.06	0.02	0.09	0.02	4332781	800411	12921

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Autism	Hypertension	2DR	Aunt/Uncle	1.01	1.00	1.02	0.01	0.06	-0.01	0.14	0.04	4332781	2888604	46461
Autism	Dyslipidemia	2DR	Aunt/Uncle	1.02	1.01	1.03	0.01	0.05	0.01	0.09	0.02	4332781	2030911	31251
Autism	Stroke	2DR	Aunt/Uncle	1.07	1.04	1.10	0.01	0.16	0.10	0.23	0.03	4332781	424363	6950
Autism	Angina pectoris	2DR	Aunt/Uncle	1.02	0.99	1.04	0.01	0.03	-0.02	0.08	0.03	4332781	474964	7082
Autism	Myocardial infarction	2DR	Aunt/Uncle	1.00	0.96	1.03	0.02	0.00	0.06	-0.07	-0.04	4332781	216367	3269
Autism	Heart failure	2DR	Aunt/Uncle	1.08	1.03	1.12	0.02	0.10	0.04	0.16	0.03	4332781	130659	2075
Autism	ADHD	2DR	Uncle	1.35	1.30	1.40	0.02	0.60	0.52	0.67	0.04	3456798	136566	3442
Type-2 diabetes	ADHD	2DR	Uncle	0.95	0.91	0.99	0.02	-0.12	-0.02	-0.22	-0.05	3456798	136566	2207
Hypertension	ADHD	2DR	Uncle	1.05	1.03	1.06	0.01	0.26	0.17	0.35	0.04	3456798	136566	16403
Dyslipidemia	ADHD	2DR	Uncle	0.99	0.94	1.03	0.02	-0.04	0.10	-0.19	-0.07	3456798	136566	1936
Stroke	ADHD	2DR	Uncle	1.05	0.97	1.14	0.04	0.15	-0.09	0.39	0.12	3456798	136566	663
Angina pectoris	ADHD	2DR	Uncle	1.09	0.94	1.24	0.07	0.22	-0.12	0.56	0.17	3456798	136566	233
Myocardial infarction	ADHD	2DR	Uncle	0.92	0.73	1.10	0.09	-0.20	0.27	-0.67	-0.24	3456798	136566	101
Heart failure	ADHD	2DR	Uncle	1.05	0.86	1.24	0.10	0.09	-0.22	0.40	0.16	3456798	136566	141
Type-2 diabetes	Autism	2DR	Uncle	0.86	0.79	0.94	0.04	-0.27	-0.11	-0.42	-0.08	3456798	39644	575
Hypertension	Autism	2DR	Uncle	0.98	0.96	1.01	0.01	-0.07	0.06	-0.20	-0.07	3456798	39644	4414
Dyslipidemia	Autism	2DR	Uncle	0.86	0.78	0.94	0.04	-0.37	-0.14	-0.60	-0.12	3456798	39644	461
Stroke	Autism	2DR	Uncle	0.95	0.80	1.10	0.08	-0.13	0.25	-0.51	-0.19	3456798	39644	176
Angina pectoris	Autism	2DR	Uncle	0.88	0.62	1.13	0.13	-0.26	0.32	-0.85	-0.30	3456798	39644	49
Myocardial infarction	Autism	2DR	Uncle	0.71	0.41	1.01	0.15	-0.63	0.15	-1.41	-0.40	3456798	39644	24
Heart failure	Autism	2DR	Uncle	0.94	0.61	1.26	0.17	-0.09	0.39	-0.58	-0.25	3456798	39644	37
ADHD	Autism	2DR	Uncle	1.26	1.23	1.30	0.02	0.46	0.40	0.53	0.03	3456798	39644	4257
ADHD	Type-2 diabetes	2DR	Uncle	1.02	1.01	1.03	0.01	0.04	0.01	0.07	0.01	3456798	497137	36071
ADHD	Hypertension	2DR	Uncle	1.02	1.02	1.03	0.00	0.13	0.09	0.18	0.02	3456798	1780673	131040
ADHD	Dyslipidemia	2DR	Uncle	1.03	1.02	1.03	0.00	0.08	0.05	0.11	0.01	3456798	1391610	99808
ADHD	Stroke	2DR	Uncle	1.05	1.04	1.07	0.01	0.16	0.11	0.21	0.03	3456798	237886	17420
ADHD	Angina pectoris	2DR	Uncle	1.05	1.04	1.07	0.01	0.13	0.09	0.17	0.02	3456798	308583	22132

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
ADHD	Myocardial infarction	2DR	Uncle	1.05	1.03	1.06	0.01	0.11	0.06	0.15	0.02	3456798	163053	11965
ADHD	Heart failure	2DR	Uncle	1.09	1.06	1.11	0.01	0.15	0.10	0.19	0.02	3456798	79518	5857
Autism	Type-2 diabetes	2DR	Uncle	1.04	1.01	1.06	0.01	0.07	0.02	0.11	0.02	3456798	497137	7866
Autism	Hypertension	2DR	Uncle	1.02	1.01	1.04	0.01	0.09	0.01	0.17	0.04	3456798	1780673	28111
Autism	Dyslipidemia	2DR	Uncle	1.01	0.99	1.03	0.01	0.02	-0.02	0.07	0.02	3456798	1391610	21088
Autism	Stroke	2DR	Uncle	1.07	1.04	1.11	0.02	0.17	0.08	0.25	0.04	3456798	237886	3800
Autism	Angina pectoris	2DR	Uncle	1.01	0.97	1.04	0.02	0.01	-0.05	0.08	0.03	3456798	308583	4502
Autism	Myocardial infarction	2DR	Uncle	0.98	0.94	1.02	0.02	-0.03	0.05	-0.11	-0.04	3456798	163053	2420
Autism	Heart failure	2DR	Uncle	1.11	1.05	1.17	0.03	0.15	0.06	0.23	0.04	3456798	79518	1279
Autism	ADHD	2DR	Aunt	1.45	1.40	1.51	0.03	0.65	0.57	0.72	0.04	3464015	112796	3112
Type-2 diabetes	ADHD	2DR	Aunt	0.98	0.93	1.03	0.02	-0.04	0.05	-0.14	-0.05	3464015	112796	1843
Hypertension	ADHD	2DR	Aunt	1.03	1.02	1.05	0.01	0.17	0.08	0.26	0.05	3464015	112796	13383
Dyslipidemia	ADHD	2DR	Aunt	1.03	0.98	1.08	0.03	0.08	-0.05	0.20	0.06	3464015	112796	1567
Stroke	ADHD	2DR	Aunt	1.10	1.00	1.19	0.05	0.22	0.00	0.45	0.11	3464015	112796	583
Angina pectoris	ADHD	2DR	Aunt	0.99	0.83	1.15	0.08	-0.02	0.30	-0.34	-0.17	3464015	112796	162
Myocardial infarction	ADHD	2DR	Aunt	1.09	0.86	1.32	0.12	0.18	-0.26	0.63	0.23	3464015	112796	98
Heart failure	ADHD	2DR	Aunt	0.93	0.73	1.14	0.10	-0.10	0.21	-0.40	-0.16	3464015	112796	95
Type-2 diabetes	Autism	2DR	Aunt	0.88	0.75	1.01	0.07	-0.20	0.03	-0.43	-0.12	3464015	14169	193
Hypertension	Autism	2DR	Aunt	0.94	0.90	0.99	0.02	-0.23	-0.03	-0.44	-0.10	3464015	14169	1533
Dyslipidemia	Autism	2DR	Aunt	0.85	0.71	0.98	0.07	-0.32	-0.02	-0.62	-0.15	3464015	14169	160
Stroke	Autism	2DR	Aunt	0.98	0.72	1.24	0.13	-0.04	0.47	-0.56	-0.26	3464015	14169	63
Angina pectoris	Autism	2DR	Aunt	0.70	0.32	1.09	0.20	-0.53	0.29	-1.35	-0.42	3464015	14169	14
Myocardial infarction	Autism	2DR	Aunt	1.19	0.50	1.89	0.35	0.29	-0.69	1.28	0.50	3464015	14169	12
ADHD	Autism	2DR	Aunt	1.38	1.32	1.45	0.03	0.55	0.46	0.64	0.05	3464015	14169	1735
ADHD	Type-2 diabetes	2DR	Aunt	1.01	1.00	1.02	0.01	0.01	-0.01	0.04	0.01	3464015	388014	28905
ADHD	Hypertension	2DR	Aunt	1.03	1.02	1.04	0.00	0.16	0.12	0.20	0.02	3464015	1930043	148444
ADHD	Dyslipidemia	2DR	Aunt	1.05	1.04	1.06	0.00	0.12	0.10	0.15	0.01	3464015	1048790	76617

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
ADHD	Stroke	2DR	Aunt	1.09	1.07	1.10	0.01	0.21	0.16	0.25	0.02	3464015	202651	15916
ADHD	Angina pectoris	2DR	Aunt	1.10	1.08	1.12	0.01	0.19	0.15	0.23	0.02	3464015	190878	14459
ADHD	Myocardial infarction	2DR	Aunt	1.11	1.08	1.14	0.02	0.22	0.14	0.29	0.04	3464015	56889	4348
ADHD	Heart failure	2DR	Aunt	1.09	1.06	1.12	0.02	0.12	0.08	0.17	0.02	3464015	53208	4036
Autism	Type-2 diabetes	2DR	Aunt	1.02	1.00	1.05	0.01	0.04	-0.01	0.08	0.02	3464015	388014	6265
Autism	Hypertension	2DR	Aunt	1.03	1.01	1.04	0.01	0.11	0.04	0.18	0.04	3464015	1930043	31649
Autism	Dyslipidemia	2DR	Aunt	1.06	1.04	1.08	0.01	0.11	0.07	0.15	0.02	3464015	1048790	16323
Autism	Stroke	2DR	Aunt	1.09	1.06	1.13	0.02	0.17	0.10	0.25	0.04	3464015	202651	3403
Autism	Angina pectoris	2DR	Aunt	1.06	1.02	1.10	0.02	0.09	0.02	0.15	0.03	3464015	190878	2923
Autism	Myocardial infarction	2DR	Aunt	1.10	1.02	1.17	0.04	0.15	0.04	0.27	0.06	3464015	56889	913
Autism	Heart failure	2DR	Aunt	1.05	0.98	1.13	0.04	0.06	-0.02	0.14	0.04	3464015	53208	824
Autism	ADHD	2DR	Niece/Nephew	1.22	1.18	1.26	0.02	0.43	0.35	0.51	0.04	3267506	851363	4439
Type-2 diabetes	ADHD	2DR	Niece/Nephew	1.01	1.00	1.02	0.00	0.02	0.00	0.05	0.01	3267506	851363	54795
Hypertension	ADHD	2DR	Niece/Nephew	1.02	1.02	1.02	0.00	0.13	0.11	0.16	0.01	3267506	851363	289714
Dyslipidemia	ADHD	2DR	Niece/Nephew	1.03	1.03	1.04	0.00	0.08	0.07	0.10	0.01	3267506	851363	167207
Stroke	ADHD	2DR	Niece/Nephew	1.06	1.04	1.07	0.01	0.18	0.13	0.23	0.03	3267506	851363	25852
Angina pectoris	ADHD	2DR	Niece/Nephew	1.07	1.06	1.09	0.01	0.16	0.12	0.19	0.02	3267506	851363	28570
Myocardial infarction	ADHD	2DR	Niece/Nephew	1.05	1.03	1.07	0.01	0.11	0.06	0.17	0.03	3267506	851363	12469
Heart failure	ADHD	2DR	Niece/Nephew	1.06	1.03	1.08	0.01	0.09	0.04	0.14	0.03	3267506	851363	7453
Type-2 diabetes	Autism	2DR	Niece/Nephew	1.02	1.00	1.04	0.01	0.03	0.00	0.06	0.02	3267506	223101	14495
Hypertension	Autism	2DR	Niece/Nephew	1.01	1.01	1.02	0.00	0.07	0.03	0.10	0.02	3267506	223101	75422
Dyslipidemia	Autism	2DR	Niece/Nephew	1.01	1.00	1.02	0.00	0.03	0.01	0.05	0.01	3267506	223101	43114
Stroke	Autism	2DR	Niece/Nephew	1.06	1.03	1.08	0.01	0.13	0.07	0.20	0.03	3267506	223101	6785
Angina pectoris	Autism	2DR	Niece/Nephew	1.02	1.00	1.05	0.01	0.04	0.00	0.08	0.02	3267506	223101	7171
Myocardial infarction	Autism	2DR	Niece/Nephew	1.01	0.97	1.04	0.02	0.01	-0.05	0.08	0.03	3267506	223101	3139
Heart failure	Autism	2DR	Niece/Nephew	1.05	1.00	1.09	0.02	0.06	-0.01	0.12	0.03	3267506	223101	1938
ADHD	Autism	2DR	Niece/Nephew	1.36	1.32	1.39	0.02	0.68	0.61	0.75	0.03	3267506	223101	6225

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
ADHD	Type-2 diabetes	2DR	Niece/Nephew	0.91	0.88	0.94	0.02	-0.22	-0.13	-0.31	-0.04	3267506	229373	3650
ADHD	Hypertension	2DR	Niece/Nephew	1.01	1.00	1.03	0.01	0.09	-0.02	0.20	0.06	3267506	1114821	20461
ADHD	Dyslipidemia	2DR	Niece/Nephew	0.99	0.94	1.04	0.02	-0.03	0.10	-0.16	-0.07	3267506	189810	2800
ADHD	Stroke	2DR	Niece/Nephew	1.05	0.98	1.11	0.03	0.14	-0.06	0.35	0.10	3267506	72726	1225
ADHD	Angina pectoris	2DR	Niece/Nephew	1.01	0.86	1.15	0.07	0.01	-0.31	0.34	0.16	3267506	27302	381
ADHD	Myocardial infarction	2DR	Niece/Nephew	0.90	0.71	1.08	0.10	-0.25	0.22	-0.71	-0.24	3267506	15152	195
ADHD	Heart failure	2DR	Niece/Nephew	1.08	0.92	1.25	0.08	0.14	-0.13	0.41	0.14	3267506	15389	239
Autism	Type-2 diabetes	2DR	Niece/Nephew	0.83	0.76	0.90	0.04	-0.32	-0.17	-0.47	-0.08	3267506	229373	671
Autism	Hypertension	2DR	Niece/Nephew	0.96	0.92	1.00	0.02	-0.19	0.00	-0.38	-0.10	3267506	1114821	4058
Autism	Dyslipidemia	2DR	Niece/Nephew	0.96	0.85	1.07	0.06	-0.08	0.16	-0.31	-0.12	3267506	189810	516
Autism	Stroke	2DR	Niece/Nephew	1.00	0.85	1.15	0.08	0.00	0.36	-0.36	-0.18	3267506	72726	228
Autism	Angina pectoris	2DR	Niece/Nephew	0.83	0.52	1.14	0.16	-0.30	0.31	-0.91	-0.31	3267506	27302	62
Autism	Myocardial infarction	2DR	Niece/Nephew	1.20	0.61	1.79	0.30	0.32	-0.54	1.18	0.44	3267506	15152	35
Autism	Heart failure	2DR	Niece/Nephew	0.90	0.57	1.24	0.17	-0.13	0.34	-0.60	-0.24	3267506	15389	43
Autism	ADHD	2DR	Nephew	1.24	1.19	1.29	0.03	0.45	0.37	0.54	0.05	2700867	601952	3198
Type-2 diabetes	ADHD	2DR	Nephew	1.02	1.01	1.03	0.01	0.04	0.01	0.07	0.01	2700867	601952	38413
Hypertension	ADHD	2DR	Nephew	1.03	1.02	1.03	0.00	0.15	0.13	0.18	0.01	2700867	601952	203634
Dyslipidemia	ADHD	2DR	Nephew	1.04	1.03	1.05	0.00	0.10	0.08	0.12	0.01	2700867	601952	117181
Stroke	ADHD	2DR	Nephew	1.07	1.05	1.09	0.01	0.25	0.18	0.32	0.04	2700867	601952	18167
Angina pectoris	ADHD	2DR	Nephew	1.08	1.07	1.10	0.01	0.18	0.14	0.22	0.02	2700867	601952	20083
Myocardial infarction	ADHD	2DR	Nephew	1.06	1.03	1.08	0.01	0.13	0.07	0.18	0.03	2700867	601952	8707
Heart failure	ADHD	2DR	Nephew	1.08	1.05	1.11	0.02	0.12	0.07	0.17	0.03	2700867	601952	5243
Type-2 diabetes	Autism	2DR	Nephew	1.03	1.01	1.05	0.01	0.04	0.01	0.08	0.02	2700867	159250	10292
Hypertension	Autism	2DR	Nephew	1.02	1.01	1.03	0.00	0.09	0.05	0.12	0.02	2700867	159250	53659
Dyslipidemia	Autism	2DR	Nephew	1.02	1.01	1.03	0.01	0.03	0.01	0.06	0.01	2700867	159250	30579
Stroke	Autism	2DR	Nephew	1.08	1.05	1.11	0.02	0.21	0.12	0.30	0.05	2700867	159250	4873
Angina pectoris	Autism	2DR	Nephew	1.02	0.99	1.05	0.01	0.03	-0.02	0.08	0.03	2700867	159250	5071

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Myocardial infarction	Autism	2DR	Nephew	1.03	0.99	1.08	0.02	0.06	-0.02	0.13	0.04	2700867	159250	2267
Heart failure	Autism	2DR	Nephew	1.05	0.99	1.11	0.03	0.06	-0.01	0.13	0.03	2700867	159250	1361
ADHD	Autism	2DR	Nephew	1.39	1.35	1.43	0.02	0.70	0.63	0.78	0.04	2700867	159250	4500
ADHD	Type-2 diabetes	2DR	Nephew	0.95	0.89	1.01	0.03	-0.11	0.02	-0.24	-0.07	2700867	79698	1240
ADHD	Hypertension	2DR	Nephew	1.06	1.03	1.09	0.01	0.32	0.18	0.46	0.07	2700867	465387	8319
ADHD	Dyslipidemia	2DR	Nephew	0.98	0.92	1.05	0.03	-0.04	0.12	-0.21	-0.08	2700867	116123	1614
ADHD	Stroke	2DR	Nephew	1.07	0.97	1.17	0.05	0.24	-0.08	0.57	0.17	2700867	34072	569
ADHD	Angina pectoris	2DR	Nephew	1.00	0.82	1.18	0.09	0.00	0.40	-0.40	-0.20	2700867	16183	205
ADHD	Myocardial infarction	2DR	Nephew	0.97	0.74	1.19	0.12	-0.07	0.43	-0.57	-0.26	2700867	10828	137
ADHD	Heart failure	2DR	Nephew	1.06	0.84	1.29	0.12	0.10	-0.24	0.43	0.17	2700867	7980	114
Autism	Type-2 diabetes	2DR	Nephew	0.80	0.68	0.91	0.06	-0.37	-0.13	-0.61	-0.12	2700867	79698	213
Autism	Hypertension	2DR	Nephew	1.01	0.95	1.06	0.03	0.03	-0.20	0.26	0.12	2700867	465387	1648
Autism	Dyslipidemia	2DR	Nephew	0.89	0.75	1.02	0.07	-0.23	0.07	-0.52	-0.15	2700867	116123	301
Autism	Stroke	2DR	Nephew	1.02	0.81	1.23	0.11	0.06	-0.51	0.63	0.29	2700867	34072	111
Autism	Angina pectoris	2DR	Nephew	0.71	0.39	1.04	0.17	-0.55	0.19	-1.28	-0.38	2700867	16183	35
Autism	Myocardial infarction	2DR	Nephew	0.98	0.44	1.52	0.28	-0.03	0.88	-0.95	-0.46	2700867	10828	25
Autism	Heart failure	2DR	Nephew	0.94	0.46	1.42	0.24	-0.07	0.52	-0.67	-0.30	2700867	7980	21
Autism	ADHD	2DR	Niece	1.29	1.23	1.36	0.03	0.46	0.37	0.56	0.05	2667915	357488	1872
Type-2 diabetes	ADHD	2DR	Niece	1.00	0.99	1.01	0.01	0.00	-0.03	0.03	0.01	2667915	357488	23523
Hypertension	ADHD	2DR	Niece	1.02	1.02	1.03	0.00	0.12	0.09	0.14	0.02	2667915	357488	124031
Dyslipidemia	ADHD	2DR	Niece	1.02	1.02	1.03	0.00	0.05	0.03	0.07	0.01	2667915	357488	72390
Stroke	ADHD	2DR	Niece	1.05	1.03	1.07	0.01	0.12	0.07	0.17	0.03	2667915	357488	11134
Angina pectoris	ADHD	2DR	Niece	1.07	1.05	1.09	0.01	0.14	0.09	0.18	0.02	2667915	357488	12628
Myocardial infarction	ADHD	2DR	Niece	1.06	1.03	1.09	0.02	0.11	0.05	0.18	0.03	2667915	357488	5434
Heart failure	ADHD	2DR	Niece	1.05	1.01	1.09	0.02	0.08	0.02	0.14	0.03	2667915	357488	3245
Type-2 diabetes	Autism	2DR	Niece	1.01	0.98	1.04	0.01	0.01	-0.03	0.06	0.02	2667915	72831	4754
Hypertension	Autism	2DR	Niece	1.02	1.01	1.03	0.01	0.07	0.02	0.12	0.02	2667915	72831	24816

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Dyslipidemia	Autism	2DR	Niece	1.01	0.99	1.02	0.01	0.01	-0.01	0.04	0.01	2667915	72831	14252
Stroke	Autism	2DR	Niece	1.05	1.00	1.09	0.02	0.09	0.01	0.17	0.04	2667915	72831	2228
Angina pectoris	Autism	2DR	Niece	1.01	0.97	1.05	0.02	0.02	-0.05	0.08	0.03	2667915	72831	2379
Myocardial infarction	Autism	2DR	Niece	0.96	0.90	1.02	0.03	-0.07	0.03	-0.18	-0.05	2667915	72831	985
Heart failure	Autism	2DR	Niece	1.09	1.01	1.18	0.04	0.11	0.01	0.20	0.05	2667915	72831	670
ADHD	Autism	2DR	Niece	1.39	1.33	1.45	0.03	0.60	0.51	0.69	0.05	2667915	72831	1993
ADHD	Type-2 diabetes	2DR	Niece	0.93	0.89	0.96	0.02	-0.15	-0.07	-0.24	-0.04	2667915	164017	2592
ADHD	Hypertension	2DR	Niece	1.03	1.01	1.05	0.01	0.16	0.05	0.26	0.05	2667915	862154	15601
ADHD	Dyslipidemia	2DR	Niece	1.04	0.98	1.11	0.03	0.10	-0.05	0.24	0.07	2667915	97558	1489
ADHD	Stroke	2DR	Niece	1.07	0.98	1.16	0.05	0.16	-0.04	0.36	0.10	2667915	40592	681
ADHD	Angina pectoris	2DR	Niece	1.05	0.83	1.26	0.11	0.10	-0.31	0.51	0.21	2667915	12073	182
ADHD	Myocardial infarction	2DR	Niece	0.84	0.55	1.12	0.14	-0.36	0.31	-1.02	-0.34	2667915	4538	62
ADHD	Heart failure	2DR	Niece	1.14	0.91	1.37	0.12	0.20	-0.11	0.51	0.16	2667915	7753	129
Autism	Type-2 diabetes	2DR	Niece	0.86	0.78	0.95	0.04	-0.24	-0.07	-0.40	-0.08	2667915	164017	488
Autism	Hypertension	2DR	Niece	0.96	0.92	1.00	0.02	-0.19	0.01	-0.38	-0.10	2667915	862154	3059
Autism	Dyslipidemia	2DR	Niece	0.99	0.84	1.15	0.08	-0.01	0.27	-0.30	-0.14	2667915	97558	255
Autism	Stroke	2DR	Niece	0.98	0.78	1.17	0.10	-0.05	0.34	-0.44	-0.20	2667915	40592	120
Autism	Angina pectoris	2DR	Niece	1.05	0.46	1.64	0.30	0.08	-0.84	1.00	0.47	2667915	12073	27
Autism	Myocardial infarction	2DR	Niece	1.36	0.26	2.45	0.56	0.52	-0.87	1.92	0.71	2667915	4538	11
Autism	Heart failure	2DR	Niece	0.81	0.42	1.21	0.20	-0.24	0.32	-0.81	-0.29	2667915	7753	22
Autism	ADHD	2DR	Grandparent	1.76	1.17	2.35	0.30	0.70	0.23	1.17	0.24	46385	630	32
Hypertension	ADHD	2DR	Grandparent	1.05	0.76	1.35	0.15	0.54	-2.45	3.52	1.52	46385	630	52
ADHD	Autism	2DR	Grandparent	2.16	1.40	2.91	0.39	0.98	0.41	1.55	0.29	46385	65	22
ADHD	Type-2 diabetes	2DR	Grandparent	0.88	0.84	0.93	0.02	-0.35	-0.14	-0.56	-0.11	46385	11913	1587
ADHD	Hypertension	2DR	Grandparent	1.01	0.98	1.04	0.02	0.10	-0.27	0.48	0.19	46385	31995	4866
ADHD	Dyslipidemia	2DR	Grandparent	0.99	0.95	1.03	0.02	-0.04	0.10	-0.17	-0.07	46385	24672	3707
ADHD	Stroke	2DR	Grandparent	1.12	1.04	1.20	0.04	0.42	-0.53	1.36	0.48	46385	3727	641

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
ADHD	Angina pectoris	2DR	Grandparent	1.04	0.97	1.11	0.04	0.05	-0.04	0.13	0.04	46385	5234	831
Autism	Type-2 diabetes	2DR	Grandparent	0.81	0.71	0.91	0.05	-0.34	-0.07	-0.60	-0.14	46385	11913	295
Autism	Hypertension	2DR	Grandparent	1.01	0.93	1.10	0.04	0.09	-0.42	0.59	0.26	46385	31995	989
Autism	Dyslipidemia	2DR	Grandparent	0.96	0.87	1.04	0.04	-0.09	0.11	-0.30	-0.10	46385	24672	728
Autism	Stroke	2DR	Grandparent	1.19	0.99	1.40	0.11	0.39	-0.54	1.32	0.47	46385	3727	138
Autism	Angina pectoris	2DR	Grandparent	0.94	0.78	1.10	0.08	-0.05	0.08	-0.17	-0.06	46385	5234	153
Hypertension	ADHD	2DR	Grandfather	1.14	0.60	1.67	0.27	1.49	-4.84	7.82	3.23	13656	205	24
ADHD	Type-2 diabetes	2DR	Grandfather	0.87	0.79	0.95	0.04	-1.99	23.10	-27.08	-12.80	13656	3279	443
ADHD	Hypertension	2DR	Grandfather	1.02	0.95	1.08	0.03	0.20	-0.62	1.02	0.42	13656	8326	1301
ADHD	Dyslipidemia	2DR	Grandfather	0.99	0.92	1.05	0.03	-0.04	0.21	-0.29	-0.13	13656	7384	1132
ADHD	Angina pectoris	2DR	Grandfather	1.00	0.88	1.11	0.06	0.00	0.14	-0.14	-0.07	13656	1774	275
Autism	ADHD	2DR	Grandmother	1.99	1.24	2.75	0.38	0.69	0.27	1.12	0.22	43042	432	25
Hypertension	ADHD	2DR	Grandmother	0.98	0.64	1.33	0.18	-0.12	2.61	-2.85	-1.39	43042	432	28
ADHD	Autism	2DR	Grandmother	2.66	1.73	3.59	0.47	1.03	0.53	1.52	0.25	43042	34	14
ADHD	Type-2 diabetes	2DR	Grandmother	0.87	0.82	0.92	0.02	-0.33	-0.15	-0.52	-0.09	43042	9344	1219
ADHD	Hypertension	2DR	Grandmother	1.01	0.98	1.05	0.02	0.08	-0.21	0.37	0.15	43042	27865	4258
ADHD	Dyslipidemia	2DR	Grandmother	0.99	0.95	1.03	0.02	-0.03	0.08	-0.14	-0.06	43042	20121	3020
ADHD	Stroke	2DR	Grandmother	1.16	1.07	1.26	0.05	0.56	-1.09	2.22	0.84	43042	2730	486
Autism	Type-2 diabetes	2DR	Grandmother	0.81	0.70	0.93	0.06	-0.26	-0.05	-0.46	-0.11	43042	9344	230
Autism	Hypertension	2DR	Grandmother	1.03	0.95	1.12	0.04	0.14	-0.24	0.52	0.19	43042	27865	879
Autism	Dyslipidemia	2DR	Grandmother	0.96	0.87	1.05	0.05	-0.06	0.09	-0.21	-0.07	43042	20121	593
Autism	Stroke	2DR	Grandmother	1.25	1.01	1.49	0.12	0.45	-0.90	1.79	0.69	43042	2730	104
Autism	ADHD	2DR	Grandchild	1.89	0.79	3.00	0.56	1.11	-0.09	2.30	0.61	40801	8339	16
Type-2 diabetes	ADHD	2DR	Grandchild	0.88	0.84	0.93	0.02	-0.39	-0.16	-0.62	-0.12	40801	8339	1497
Hypertension	ADHD	2DR	Grandchild	1.01	0.99	1.03	0.01	0.11	-0.06	0.27	0.09	40801	8339	5206
Dyslipidemia	ADHD	2DR	Grandchild	1.00	0.98	1.03	0.01	0.00	-0.08	0.09	0.04	40801	8339	3865
Type-2 diabetes	Autism	2DR	Grandchild	0.84	0.75	0.92	0.05	-0.37	-0.05	-0.69	-0.16	40801	1795	304

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Hypertension	Autism	2DR	Grandchild	1.01	0.97	1.05	0.02	0.07	-0.15	0.28	0.11	40801	1795	1128
Dyslipidemia	Autism	2DR	Grandchild	0.97	0.92	1.03	0.03	-0.06	0.07	-0.18	-0.06	40801	1795	815
ADHD	Autism	2DR	Grandchild	1.63	1.02	2.24	0.31	0.83	0.01	1.64	0.42	40801	1795	30
ADHD	Hypertension	2DR	Grandchild	1.12	0.76	1.48	0.18	0.97	-1.80	3.74	1.42	40801	3702	44
Autism	ADHD	2DR	Half-sibling	1.35	1.27	1.44	0.04	0.49	0.39	0.59	0.05	398082	50859	1272
Type-2 diabetes	ADHD	2DR	Half-sibling	0.96	0.91	1.01	0.03	-0.08	0.03	-0.19	-0.06	398082	50859	1470
Hypertension	ADHD	2DR	Half-sibling	1.04	1.02	1.06	0.01	0.17	0.07	0.27	0.05	398082	50859	8726
Dyslipidemia	ADHD	2DR	Half-sibling	1.00	0.96	1.04	0.02	0.00	-0.10	0.10	0.05	398082	50859	2111
Stroke	ADHD	2DR	Half-sibling	1.00	0.91	1.10	0.05	0.00	-0.32	0.33	0.17	398082	50859	514
Angina pectoris	ADHD	2DR	Half-sibling	1.08	0.96	1.20	0.06	0.17	-0.09	0.43	0.13	398082	50859	345
Myocardial infarction	ADHD	2DR	Half-sibling	0.98	0.82	1.14	0.08	-0.04	0.36	-0.44	-0.21	398082	50859	163
Heart failure	ADHD	2DR	Half-sibling	1.03	0.82	1.23	0.10	0.03	-0.21	0.27	0.12	398082	50859	118
Type-2 diabetes	Autism	2DR	Half-sibling	1.05	0.93	1.17	0.06	0.07	-0.08	0.21	0.07	398082	10590	335
Hypertension	Autism	2DR	Half-sibling	0.99	0.95	1.03	0.02	-0.02	0.11	-0.15	-0.07	398082	10590	1770
Dyslipidemia	Autism	2DR	Half-sibling	0.95	0.87	1.04	0.04	-0.07	0.07	-0.21	-0.07	398082	10590	410
Stroke	Autism	2DR	Half-sibling	0.96	0.76	1.16	0.10	-0.09	0.36	-0.54	-0.23	398082	10590	103
Angina pectoris	Autism	2DR	Half-sibling	0.89	0.66	1.12	0.12	-0.16	0.21	-0.54	-0.19	398082	10590	60
Myocardial infarction	Autism	2DR	Half-sibling	0.87	0.54	1.20	0.17	-0.22	0.37	-0.81	-0.30	398082	10590	28
Heart failure	Autism	2DR	Half-sibling	1.09	0.64	1.54	0.23	0.07	-0.25	0.39	0.16	398082	10590	26
ADHD	Autism	2DR	Half-sibling	1.37	1.30	1.44	0.04	0.51	0.42	0.60	0.05	398082	10590	1362
ADHD	Type-2 diabetes	2DR	Half-sibling	0.97	0.92	1.02	0.02	-0.06	0.04	-0.16	-0.05	398082	22721	1522
ADHD	Hypertension	2DR	Half-sibling	1.05	1.03	1.08	0.01	0.25	0.13	0.37	0.06	398082	107901	8150
ADHD	Dyslipidemia	2DR	Half-sibling	0.98	0.93	1.03	0.03	-0.06	0.07	-0.18	-0.06	398082	36234	1980
ADHD	Stroke	2DR	Half-sibling	1.05	0.96	1.14	0.05	0.17	-0.13	0.48	0.15	398082	8792	561
ADHD	Angina pectoris	2DR	Half-sibling	1.03	0.90	1.15	0.06	0.06	-0.21	0.34	0.14	398082	6530	351
ADHD	Myocardial infarction	2DR	Half-sibling	1.01	0.85	1.18	0.08	0.03	-0.37	0.43	0.20	398082	3338	179
ADHD	Heart failure	2DR	Half-sibling	1.05	0.86	1.24	0.09	0.06	-0.16	0.27	0.11	398082	2137	132

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Autism	Type-2 diabetes	2DR	Half-sibling	1.07	0.95	1.19	0.06	0.08	-0.06	0.23	0.07	398082	22721	332
Autism	Hypertension	2DR	Half-sibling	1.05	0.99	1.11	0.03	0.15	-0.02	0.33	0.09	398082	107901	1597
Autism	Dyslipidemia	2DR	Half-sibling	0.94	0.82	1.05	0.06	-0.10	0.09	-0.29	-0.10	398082	36234	372
Autism	Stroke	2DR	Half-sibling	1.02	0.81	1.23	0.11	0.04	-0.41	0.50	0.23	398082	8792	103
Autism	Angina pectoris	2DR	Half-sibling	1.00	0.70	1.30	0.15	0.00	0.43	-0.43	-0.22	398082	6530	61
Autism	Myocardial infarction	2DR	Half-sibling	0.73	0.43	1.04	0.16	-0.47	0.19	-1.13	-0.34	398082	3338	30
Autism	Heart failure	2DR	Half-sibling	1.12	0.65	1.59	0.24	0.09	-0.24	0.41	0.17	398082	2137	27
Autism	ADHD	2DR	Half-brother	1.30	1.20	1.40	0.05	0.43	0.30	0.56	0.07	248403	31688	765
Type-2 diabetes	ADHD	2DR	Half-brother	0.98	0.91	1.05	0.04	-0.04	0.11	-0.18	-0.07	248403	31688	914
Hypertension	ADHD	2DR	Half-brother	1.04	1.02	1.07	0.01	0.20	0.08	0.32	0.06	248403	31688	5351
Dyslipidemia	ADHD	2DR	Half-brother	1.03	0.97	1.08	0.03	0.07	-0.07	0.20	0.07	248403	31688	1232
Stroke	ADHD	2DR	Half-brother	1.05	0.92	1.18	0.07	0.17	-0.26	0.59	0.22	248403	31688	318
Angina pectoris	ADHD	2DR	Half-brother	1.04	0.88	1.20	0.08	0.09	-0.28	0.47	0.19	248403	31688	186
Myocardial infarction	ADHD	2DR	Half-brother	0.99	0.77	1.21	0.11	-0.02	0.46	-0.51	-0.25	248403	31688	93
Heart failure	ADHD	2DR	Half-brother	1.09	0.81	1.37	0.14	0.09	-0.18	0.36	0.14	248403	31688	73
Type-2 diabetes	Autism	2DR	Half-brother	1.03	0.89	1.17	0.07	0.04	-0.14	0.21	0.09	248403	7477	229
Hypertension	Autism	2DR	Half-brother	1.00	0.95	1.05	0.03	0.00	0.14	-0.15	-0.07	248403	7477	1247
Dyslipidemia	Autism	2DR	Half-brother	0.90	0.80	1.00	0.05	-0.16	0.01	-0.34	-0.09	248403	7477	270
Stroke	Autism	2DR	Half-brother	0.98	0.75	1.22	0.12	-0.03	0.48	-0.54	-0.26	248403	7477	75
Angina pectoris	Autism	2DR	Half-brother	0.87	0.59	1.15	0.14	-0.21	0.28	-0.69	-0.25	248403	7477	39
Myocardial infarction	Autism	2DR	Half-brother	0.86	0.46	1.25	0.20	-0.21	0.42	-0.85	-0.32	248403	7477	19
Heart failure	Autism	2DR	Half-brother	1.13	0.59	1.66	0.27	0.08	-0.24	0.39	0.16	248403	7477	20
ADHD	Autism	2DR	Half-brother	1.36	1.27	1.44	0.04	0.50	0.39	0.61	0.06	248403	7477	963
ADHD	Type-2 diabetes	2DR	Half-brother	0.91	0.83	0.99	0.04	-0.18	-0.01	-0.36	-0.09	248403	9626	543
ADHD	Hypertension	2DR	Half-brother	1.06	1.02	1.10	0.02	0.27	0.09	0.46	0.09	248403	42345	2926
ADHD	Dyslipidemia	2DR	Half-brother	0.93	0.86	0.99	0.03	-0.18	-0.01	-0.36	-0.09	248403	20868	1047
ADHD	Stroke	2DR	Half-brother	0.94	0.81	1.07	0.07	-0.19	0.28	-0.67	-0.24	248403	3981	214

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
ADHD	Angina pectoris	2DR	Half-brother	1.06	0.89	1.24	0.09	0.15	-0.26	0.55	0.21	248403	3652	194
ADHD	Myocardial infarction	2DR	Half-brother	0.95	0.76	1.15	0.10	-0.10	0.35	-0.56	-0.23	248403	2305	114
ADHD	Heart failure	2DR	Half-brother	0.98	0.72	1.23	0.13	-0.03	0.24	-0.29	-0.14	248403	1134	66
Autism	Type-2 diabetes	2DR	Half-brother	1.09	0.88	1.29	0.11	0.11	-0.14	0.35	0.12	248403	9626	127
Autism	Hypertension	2DR	Half-brother	1.08	0.98	1.17	0.05	0.21	-0.05	0.48	0.14	248403	42345	573
Autism	Dyslipidemia	2DR	Half-brother	0.90	0.75	1.06	0.08	-0.16	0.11	-0.42	-0.14	248403	20868	201
Autism	Stroke	2DR	Half-brother	0.94	0.64	1.24	0.15	-0.13	0.55	-0.82	-0.35	248403	3981	41
Autism	Angina pectoris	2DR	Half-brother	1.10	0.66	1.54	0.22	0.15	-0.47	0.76	0.31	248403	3652	37
Autism	Myocardial infarction	2DR	Half-brother	0.56	0.25	0.88	0.16	-0.75	0.04	-1.55	-0.41	248403	2305	17
Autism	Heart failure	2DR	Half-brother	0.81	0.27	1.35	0.28	-0.14	0.29	-0.56	-0.22	248403	1134	12
Autism	ADHD	2DR	Half-sister	1.44	1.32	1.57	0.06	0.55	0.41	0.69	0.07	258109	21341	570
Type-2 diabetes	ADHD	2DR	Half-sister	0.93	0.85	1.00	0.04	-0.14	0.01	-0.29	-0.08	258109	21341	629
Hypertension	ADHD	2DR	Half-sister	1.03	1.00	1.06	0.02	0.14	0.00	0.28	0.07	258109	21341	3759
Dyslipidemia	ADHD	2DR	Half-sister	1.00	0.94	1.06	0.03	0.00	0.13	-0.14	-0.07	258109	21341	982
Stroke	ADHD	2DR	Half-sister	0.99	0.86	1.13	0.07	-0.03	0.40	-0.45	-0.22	258109	21341	229
Angina pectoris	ADHD	2DR	Half-sister	1.14	0.97	1.32	0.09	0.28	-0.05	0.61	0.17	258109	21341	173
Myocardial infarction	ADHD	2DR	Half-sister	1.06	0.82	1.30	0.12	0.17	-0.54	0.89	0.36	258109	21341	82
Heart failure	ADHD	2DR	Half-sister	0.98	0.70	1.26	0.14	-0.02	0.33	-0.38	-0.18	258109	21341	51
Type-2 diabetes	Autism	2DR	Half-sister	1.13	0.91	1.34	0.11	0.15	-0.10	0.40	0.13	258109	3288	113
Hypertension	Autism	2DR	Half-sister	1.00	0.92	1.07	0.04	-0.01	0.23	-0.24	-0.12	258109	3288	557
Dyslipidemia	Autism	2DR	Half-sister	1.12	0.95	1.28	0.08	0.16	-0.06	0.38	0.11	258109	3288	147
Stroke	Autism	2DR	Half-sister	0.89	0.53	1.24	0.18	-0.24	0.57	-1.06	-0.42	258109	3288	28
Angina pectoris	Autism	2DR	Half-sister	0.96	0.55	1.38	0.21	-0.05	0.53	-0.63	-0.30	258109	3288	23
ADHD	Autism	2DR	Half-sister	1.42	1.29	1.55	0.06	0.52	0.38	0.67	0.07	258109	3288	424
ADHD	Type-2 diabetes	2DR	Half-sister	0.99	0.93	1.05	0.03	-0.01	0.10	-0.12	-0.06	258109	13915	1021
ADHD	Hypertension	2DR	Half-sister	1.05	1.02	1.08	0.02	0.23	0.09	0.36	0.07	258109	74436	5784
ADHD	Dyslipidemia	2DR	Half-sister	1.06	0.99	1.14	0.04	0.14	-0.01	0.29	0.08	258109	18164	1071

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
ADHD	Stroke	2DR	Half-sister	1.14	1.02	1.26	0.06	0.43	0.04	0.82	0.20	258109	4951	354
ADHD	Angina pectoris	2DR	Half-sister	1.05	0.87	1.23	0.09	0.11	-0.24	0.46	0.18	258109	3010	168
ADHD	Myocardial infarction	2DR	Half-sister	1.20	0.88	1.51	0.16	0.54	-0.52	1.61	0.54	258109	1063	66
ADHD	Heart failure	2DR	Half-sister	1.11	0.84	1.37	0.14	0.12	-0.18	0.43	0.15	258109	1019	66
Autism	Type-2 diabetes	2DR	Half-sister	1.03	0.88	1.17	0.07	0.03	-0.14	0.21	0.09	258109	13915	212
Autism	Hypertension	2DR	Half-sister	1.03	0.96	1.10	0.04	0.09	-0.12	0.30	0.11	258109	74436	1126
Autism	Dyslipidemia	2DR	Half-sister	1.00	0.83	1.16	0.09	-0.01	0.24	-0.25	-0.12	258109	18164	192
Autism	Stroke	2DR	Half-sister	1.06	0.78	1.34	0.14	0.12	-0.43	0.67	0.28	258109	4951	62
Autism	Angina pectoris	2DR	Half-sister	0.98	0.56	1.40	0.21	-0.03	0.55	-0.61	-0.30	258109	3010	26
Autism	Myocardial infarction	2DR	Half-sister	1.13	0.46	1.81	0.34	0.25	-0.98	1.48	0.63	258109	1063	14
Autism	Heart failure	2DR	Half-sister	1.36	0.64	2.08	0.37	0.26	-0.20	0.71	0.23	258109	1019	15
Autism	ADHD	3DR	Cousin	1.13	1.11	1.14	0.01	0.51	0.43	0.58	0.04	6014202	1988721	30733
Type-2 diabetes	ADHD	3DR	Cousin	1.00	0.99	1.01	0.01	-0.01	0.04	-0.06	-0.03	6014202	1988721	47796
Hypertension	ADHD	3DR	Cousin	1.01	1.01	1.02	0.00	0.15	0.10	0.20	0.03	6014202	1988721	308123
Dyslipidemia	ADHD	3DR	Cousin	1.02	1.01	1.03	0.00	0.10	0.05	0.15	0.02	6014202	1988721	77181
Stroke	ADHD	3DR	Cousin	1.04	1.02	1.06	0.01	0.27	0.14	0.40	0.07	6014202	1988721	17408
Angina pectoris	ADHD	3DR	Cousin	1.04	1.02	1.07	0.01	0.19	0.09	0.29	0.05	6014202	1988721	10970
Myocardial infarction	ADHD	3DR	Cousin	1.03	1.00	1.06	0.02	0.15	-0.02	0.32	0.09	6014202	1988721	5499
Heart failure	ADHD	3DR	Cousin	1.02	0.98	1.06	0.02	0.07	-0.05	0.19	0.06	6014202	1988721	4068
Type-2 diabetes	Autism	3DR	Cousin	0.99	0.97	1.01	0.01	-0.04	0.03	-0.10	-0.03	6014202	559920	13214
Hypertension	Autism	3DR	Cousin	0.99	0.98	0.99	0.00	-0.10	-0.04	-0.16	-0.03	6014202	559920	84089
Dyslipidemia	Autism	3DR	Cousin	0.99	0.97	1.00	0.01	-0.06	0.00	-0.12	-0.03	6014202	559920	20161
Stroke	Autism	3DR	Cousin	1.02	0.99	1.05	0.02	0.09	-0.07	0.24	0.08	6014202	559920	4677
Angina pectoris	Autism	3DR	Cousin	0.99	0.95	1.03	0.02	-0.02	0.11	-0.15	-0.06	6014202	559920	2797
Myocardial infarction	Autism	3DR	Cousin	0.99	0.93	1.04	0.03	-0.05	0.16	-0.25	-0.11	6014202	559920	1395
Heart failure	Autism	3DR	Cousin	1.03	0.96	1.09	0.03	0.06	-0.09	0.21	0.08	6014202	559920	1112
ADHD	Autism	3DR	Cousin	1.16	1.14	1.17	0.01	0.62	0.56	0.67	0.03	6014202	559920	42089

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
ADHD	Type-2 diabetes	3DR	Cousin	0.97	0.96	0.98	0.00	-0.12	-0.07	-0.17	-0.03	6014202	1175430	54103
ADHD	Hypertension	3DR	Cousin	1.00	1.00	1.01	0.00	0.01	-0.07	0.10	0.04	6014202	3849423	201728
ADHD	Dyslipidemia	3DR	Cousin	1.00	0.99	1.01	0.01	0.00	0.07	-0.07	-0.03	6014202	1633618	62977
ADHD	Stroke	3DR	Cousin	0.99	0.98	1.01	0.01	-0.03	0.08	-0.15	-0.06	6014202	530175	21852
ADHD	Angina pectoris	3DR	Cousin	1.02	0.99	1.04	0.01	0.08	-0.04	0.19	0.06	6014202	371488	12925
ADHD	Myocardial infarction	3DR	Cousin	1.00	0.96	1.03	0.02	-0.02	0.17	-0.20	-0.09	6014202	200458	7016
ADHD	Heart failure	3DR	Cousin	0.98	0.94	1.01	0.02	-0.07	0.04	-0.18	-0.06	6014202	139893	5333
Autism	Type-2 diabetes	3DR	Cousin	0.98	0.96	1.00	0.01	-0.07	0.01	-0.14	-0.04	6014202	1175430	11503
Autism	Hypertension	3DR	Cousin	1.00	0.99	1.01	0.01	-0.02	0.11	-0.14	-0.06	6014202	3849423	42839
Autism	Dyslipidemia	3DR	Cousin	1.00	0.97	1.02	0.01	-0.01	0.10	-0.11	-0.05	6014202	1633618	13246
Autism	Stroke	3DR	Cousin	0.99	0.96	1.03	0.02	-0.03	0.15	-0.20	-0.09	6014202	530175	4624
Autism	Angina pectoris	3DR	Cousin	1.02	0.96	1.08	0.03	0.05	-0.14	0.24	0.10	6014202	371488	2633
Autism	Myocardial infarction	3DR	Cousin	0.93	0.85	1.01	0.04	-0.26	0.04	-0.56	-0.15	6014202	200458	1404
Autism	Heart failure	3DR	Cousin	1.02	0.94	1.09	0.04	0.04	-0.14	0.21	0.09	6014202	139893	1154
Autism	ADHD	3DR	Cousin-female	1.19	1.17	1.22	0.01	0.59	0.52	0.67	0.04	5599935	958944	15006
Type-2 diabetes	ADHD	3DR	Cousin-female	1.01	0.99	1.02	0.01	0.02	-0.03	0.08	0.03	5599935	958944	23681
Hypertension	ADHD	3DR	Cousin-female	1.02	1.01	1.02	0.00	0.17	0.12	0.22	0.03	5599935	958944	151490
Dyslipidemia	ADHD	3DR	Cousin-female	1.02	1.01	1.03	0.01	0.10	0.05	0.14	0.02	5599935	958944	38648
Stroke	ADHD	3DR	Cousin-female	1.05	1.02	1.07	0.01	0.22	0.09	0.35	0.06	5599935	958944	8629
Angina pectoris	ADHD	3DR	Cousin-female	1.05	1.02	1.08	0.02	0.16	0.06	0.26	0.05	5599935	958944	5505
Myocardial infarction	ADHD	3DR	Cousin-female	1.01	0.96	1.05	0.02	0.02	-0.14	0.19	0.09	5599935	958944	2700
Heart failure	ADHD	3DR	Cousin-female	1.02	0.97	1.08	0.03	0.06	-0.06	0.18	0.06	5599935	958944	2041
Type-2 diabetes	Autism	3DR	Cousin-female	1.00	0.96	1.03	0.02	-0.01	0.08	-0.10	-0.05	5599935	187405	4360
Hypertension	Autism	3DR	Cousin-female	0.99	0.98	1.00	0.01	-0.07	0.01	-0.15	-0.04	5599935	187405	27714
Dyslipidemia	Autism	3DR	Cousin-female	1.00	0.98	1.03	0.01	0.01	-0.07	0.08	0.04	5599935	187405	6530
Stroke	Autism	3DR	Cousin-female	1.03	0.97	1.09	0.03	0.11	-0.10	0.33	0.11	5599935	187405	1515
Angina pectoris	Autism	3DR	Cousin-female	0.99	0.92	1.06	0.04	-0.03	0.15	-0.21	-0.09	5599935	187405	866

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Myocardial infarction	Autism	3DR	Cousin-female	0.94	0.84	1.04	0.05	-0.18	0.13	-0.48	-0.16	5599935	187405	414
Heart failure	Autism	3DR	Cousin-female	1.11	0.99	1.23	0.06	0.19	-0.02	0.39	0.10	5599935	187405	388
ADHD	Autism	3DR	Cousin-female	1.19	1.17	1.21	0.01	0.57	0.50	0.63	0.03	5599935	187405	14287
ADHD	Type-2 diabetes	3DR	Cousin-female	0.99	0.98	1.00	0.01	-0.05	0.00	-0.09	-0.02	5599935	755728	36744
ADHD	Hypertension	3DR	Cousin-female	1.01	1.01	1.02	0.00	0.11	0.04	0.17	0.03	5599935	3146658	163796
ADHD	Dyslipidemia	3DR	Cousin-female	1.02	1.01	1.04	0.01	0.09	0.03	0.15	0.03	5599935	895840	33748
ADHD	Stroke	3DR	Cousin-female	1.01	0.99	1.03	0.01	0.04	-0.06	0.15	0.05	5599935	287979	12017
ADHD	Angina pectoris	3DR	Cousin-female	1.05	1.01	1.09	0.02	0.17	0.04	0.30	0.07	5599935	159800	5664
ADHD	Myocardial infarction	3DR	Cousin-female	1.01	0.95	1.08	0.03	0.04	-0.21	0.30	0.13	5599935	56779	1998
ADHD	Heart failure	3DR	Cousin-female	0.99	0.94	1.04	0.02	-0.02	0.09	-0.14	-0.06	5599935	64823	2545
Autism	Type-2 diabetes	3DR	Cousin-female	0.99	0.97	1.02	0.01	-0.02	0.05	-0.10	-0.04	5599935	755728	7780
Autism	Hypertension	3DR	Cousin-female	1.01	0.99	1.02	0.01	0.04	-0.07	0.15	0.06	5599935	3146658	34600
Autism	Dyslipidemia	3DR	Cousin-female	1.02	0.99	1.05	0.02	0.06	-0.04	0.16	0.05	5599935	895840	7098
Autism	Stroke	3DR	Cousin-female	1.01	0.96	1.06	0.02	0.03	-0.15	0.21	0.09	5599935	287979	2520
Autism	Angina pectoris	3DR	Cousin-female	1.09	1.00	1.19	0.05	0.23	0.01	0.45	0.11	5599935	159800	1156
Autism	Myocardial infarction	3DR	Cousin-female	1.00	0.85	1.15	0.08	0.00	-0.44	0.45	0.23	5599935	56779	394
Autism	Heart failure	3DR	Cousin-female	0.98	0.87	1.08	0.05	-0.04	0.15	-0.24	-0.10	5599935	64823	520
Autism	ADHD	3DR	Cousin-male	1.15	1.13	1.17	0.01	0.54	0.47	0.62	0.04	5610725	1394888	22275
Type-2 diabetes	ADHD	3DR	Cousin-male	1.00	0.99	1.01	0.01	0.01	-0.05	0.06	0.03	5610725	1394888	32478
Hypertension	ADHD	3DR	Cousin-male	1.02	1.01	1.02	0.00	0.13	0.09	0.18	0.02	5610725	1394888	210379
Dyslipidemia	ADHD	3DR	Cousin-male	1.03	1.02	1.04	0.00	0.13	0.08	0.18	0.03	5610725	1394888	49995
Stroke	ADHD	3DR	Cousin-male	1.04	1.02	1.07	0.01	0.24	0.11	0.37	0.06	5610725	1394888	11559
Angina pectoris	ADHD	3DR	Cousin-male	1.06	1.03	1.09	0.01	0.23	0.11	0.34	0.06	5610725	1394888	7046
Myocardial infarction	ADHD	3DR	Cousin-male	1.06	1.02	1.10	0.02	0.27	0.08	0.46	0.10	5610725	1394888	3568
Heart failure	ADHD	3DR	Cousin-male	1.02	0.97	1.06	0.02	0.06	-0.09	0.20	0.07	5610725	1394888	2642
Type-2 diabetes	Autism	3DR	Cousin-male	0.99	0.97	1.01	0.01	-0.03	0.03	-0.10	-0.03	5610725	401758	9476
Hypertension	Autism	3DR	Cousin-male	0.99	0.98	1.00	0.00	-0.05	0.00	-0.11	-0.03	5610725	401758	60328

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Dyslipidemia	Autism	3DR	Cousin-male	0.98	0.97	1.00	0.01	-0.06	0.00	-0.12	-0.03	5610725	401758	14379
Stroke	Autism	3DR	Cousin-male	1.02	0.98	1.05	0.02	0.06	-0.09	0.22	0.08	5610725	401758	3354
Angina pectoris	Autism	3DR	Cousin-male	1.00	0.95	1.05	0.02	0.00	0.14	-0.14	-0.07	5610725	401758	2021
Myocardial infarction	Autism	3DR	Cousin-male	1.02	0.95	1.08	0.03	0.06	-0.18	0.30	0.12	5610725	401758	1032
Heart failure	Autism	3DR	Cousin-male	1.00	0.92	1.08	0.04	0.00	0.17	-0.18	-0.09	5610725	401758	765
ADHD	Autism	3DR	Cousin-male	1.18	1.16	1.19	0.01	0.63	0.58	0.69	0.03	5610725	401758	30428
ADHD	Type-2 diabetes	3DR	Cousin-male	0.98	0.97	1.00	0.01	-0.07	0.00	-0.13	-0.03	5610725	576542	23104
ADHD	Hypertension	3DR	Cousin-male	1.01	1.01	1.02	0.00	0.11	0.04	0.18	0.04	5610725	2234889	105655
ADHD	Dyslipidemia	3DR	Cousin-male	1.01	1.00	1.03	0.01	0.07	0.00	0.14	0.04	5610725	1168411	43294
ADHD	Stroke	3DR	Cousin-male	1.01	0.99	1.03	0.01	0.06	-0.07	0.18	0.06	5610725	275942	10958
ADHD	Angina pectoris	3DR	Cousin-male	1.02	0.98	1.05	0.02	0.07	-0.06	0.21	0.07	5610725	238482	8065
ADHD	Myocardial infarction	3DR	Cousin-male	1.01	0.97	1.05	0.02	0.06	-0.14	0.26	0.10	5610725	149182	5188
ADHD	Heart failure	3DR	Cousin-male	0.99	0.95	1.04	0.02	-0.02	0.12	-0.16	-0.07	5610725	79041	2919
Autism	Type-2 diabetes	3DR	Cousin-male	1.00	0.97	1.03	0.02	0.00	0.10	-0.11	-0.05	5610725	576542	4967
Autism	Hypertension	3DR	Cousin-male	1.01	0.99	1.02	0.01	0.05	-0.07	0.17	0.06	5610725	2234889	22439
Autism	Dyslipidemia	3DR	Cousin-male	1.01	0.98	1.04	0.02	0.05	-0.07	0.16	0.06	5610725	1168411	9047
Autism	Stroke	3DR	Cousin-male	1.01	0.96	1.06	0.03	0.05	-0.16	0.26	0.11	5610725	275942	2324
Autism	Angina pectoris	3DR	Cousin-male	0.98	0.91	1.06	0.04	-0.05	0.18	-0.29	-0.12	5610725	238482	1631
Autism	Myocardial infarction	3DR	Cousin-male	0.94	0.85	1.03	0.05	-0.23	0.11	-0.57	-0.17	5610725	149182	1048
Autism	Heart failure	3DR	Cousin-male	1.10	0.99	1.21	0.06	0.22	-0.01	0.45	0.12	5610725	79041	667
Autism	ADHD	Spouse	Spouse	3.47	3.28	3.66	0.10	NA	NA	NA	NA	5349448	132622	1843
Type-2 diabetes	ADHD	Spouse	Spouse	1.02	0.99	1.05	0.02	NA	NA	NA	NA	5349448	132622	5202
Hypertension	ADHD	Spouse	Spouse	1.09	1.08	1.10	0.01	NA	NA	NA	NA	5349448	132622	29013
Dyslipidemia	ADHD	Spouse	Spouse	1.06	1.04	1.08	0.01	NA	NA	NA	NA	5349448	132622	9472
Stroke	ADHD	Spouse	Spouse	1.15	1.09	1.20	0.03	NA	NA	NA	NA	5349448	132622	1791
Angina pectoris	ADHD	Spouse	Spouse	1.11	1.05	1.17	0.03	NA	NA	NA	NA	5349448	132622	1515
Myocardial infarction	ADHD	Spouse	Spouse	0.97	0.89	1.05	0.04	NA	NA	NA	NA	5349448	132622	640

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Heart failure	ADHD	Spouse	Spouse	1.20	1.08	1.32	0.06	NA	NA	NA	NA	5349448	132622	451
Type-2 diabetes	Autism	Spouse	Spouse	1.21	1.12	1.29	0.04	NA	NA	NA	NA	5349448	19000	982
Hypertension	Autism	Spouse	Spouse	1.12	1.10	1.15	0.02	NA	NA	NA	NA	5349448	19000	4763
Dyslipidemia	Autism	Spouse	Spouse	1.06	1.00	1.11	0.03	NA	NA	NA	NA	5349448	19000	1522
Stroke	Autism	Spouse	Spouse	1.18	1.03	1.33	0.08	NA	NA	NA	NA	5349448	19000	300
Angina pectoris	Autism	Spouse	Spouse	0.93	0.79	1.08	0.07	NA	NA	NA	NA	5349448	19000	208
Myocardial infarction	Autism	Spouse	Spouse	0.93	0.70	1.15	0.11	NA	NA	NA	NA	5349448	19000	82
Heart failure	Autism	Spouse	Spouse	1.18	0.88	1.47	0.15	NA	NA	NA	NA	5349448	19000	78
ADHD	Autism	Spouse	Spouse	3.35	3.19	3.52	0.08	NA	NA	NA	NA	5349448	19000	1843
ADHD	Type-2 diabetes	Spouse	Spouse	1.04	1.01	1.07	0.02	NA	NA	NA	NA	5349448	252205	5202
ADHD	Hypertension	Spouse	Spouse	1.15	1.13	1.16	0.01	NA	NA	NA	NA	5349448	1288149	29013
ADHD	Dyslipidemia	Spouse	Spouse	1.15	1.11	1.19	0.02	NA	NA	NA	NA	5349448	591609	9472
ADHD	Stroke	Spouse	Spouse	1.20	1.13	1.27	0.04	NA	NA	NA	NA	5349448	90662	1791
ADHD	Angina pectoris	Spouse	Spouse	1.23	1.10	1.36	0.07	NA	NA	NA	NA	5349448	94862	1515
ADHD	Myocardial infarction	Spouse	Spouse	1.21	1.02	1.40	0.10	NA	NA	NA	NA	5349448	43796	640
ADHD	Heart failure	Spouse	Spouse	1.32	1.15	1.49	0.09	NA	NA	NA	NA	5349448	23866	451
Autism	Type-2 diabetes	Spouse	Spouse	1.23	1.15	1.32	0.04	NA	NA	NA	NA	5349448	252205	982
Autism	Hypertension	Spouse	Spouse	1.18	1.14	1.22	0.02	NA	NA	NA	NA	5349448	1288149	4763
Autism	Dyslipidemia	Spouse	Spouse	1.43	1.30	1.55	0.06	NA	NA	NA	NA	5349448	591609	1522
Autism	Stroke	Spouse	Spouse	1.37	1.17	1.57	0.10	NA	NA	NA	NA	5349448	90662	300
Autism	Angina pectoris	Spouse	Spouse	1.47	1.08	1.86	0.20	NA	NA	NA	NA	5349448	94862	208
Autism	Myocardial infarction	Spouse	Spouse	1.39	0.82	1.96	0.29	NA	NA	NA	NA	5349448	43796	82
Autism	Heart failure	Spouse	Spouse	1.79	1.25	2.34	0.28	NA	NA	NA	NA	5349448	23866	78
Autism	ADHD	Spouse	Husband	3.12	2.85	3.38	0.13	NA	NA	NA	NA	2675032	74504	794
Type-2 diabetes	ADHD	Spouse	Husband	1.05	1.01	1.09	0.02	NA	NA	NA	NA	2675032	74504	3184
Hypertension	ADHD	Spouse	Husband	1.11	1.10	1.13	0.01	NA	NA	NA	NA	2675032	74504	18585
Dyslipidemia	ADHD	Spouse	Husband	1.08	1.05	1.12	0.02	NA	NA	NA	NA	2675032	74504	3832

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Stroke	ADHD	Spouse	Husband	1.24	1.16	1.33	0.04	NA	NA	NA	NA	2675032	74504	954
Angina pectoris	ADHD	Spouse	Husband	1.15	1.05	1.25	0.05	NA	NA	NA	NA	2675032	74504	548
Myocardial infarction	ADHD	Spouse	Husband	0.97	0.81	1.13	0.08	NA	NA	NA	NA	2675032	74504	156
Heart failure	ADHD	Spouse	Husband	1.17	1.00	1.35	0.09	NA	NA	NA	NA	2675032	74504	199
Type-2 diabetes	Autism	Spouse	Husband	1.34	1.25	1.44	0.05	NA	NA	NA	NA	2675032	12225	712
Hypertension	Autism	Spouse	Husband	1.20	1.16	1.23	0.02	NA	NA	NA	NA	2675032	12225	3562
Dyslipidemia	Autism	Spouse	Husband	1.19	1.12	1.26	0.04	NA	NA	NA	NA	2675032	12225	951
Stroke	Autism	Spouse	Husband	1.23	1.06	1.41	0.09	NA	NA	NA	NA	2675032	12225	198
Angina pectoris	Autism	Spouse	Husband	1.18	0.98	1.38	0.10	NA	NA	NA	NA	2675032	12225	129
Myocardial infarction	Autism	Spouse	Husband	1.07	0.72	1.41	0.18	NA	NA	NA	NA	2675032	12225	38
Heart failure	Autism	Spouse	Husband	1.47	1.07	1.87	0.20	NA	NA	NA	NA	2675032	12225	54
ADHD	Autism	Spouse	Husband	3.61	3.40	3.83	0.11	NA	NA	NA	NA	2675032	12225	1084
ADHD	Type-2 diabetes	Spouse	Husband	1.07	1.01	1.14	0.03	NA	NA	NA	NA	2675032	129286	1988
ADHD	Hypertension	Spouse	Husband	1.14	1.11	1.16	0.01	NA	NA	NA	NA	2675032	583663	10239
ADHD	Dyslipidemia	Spouse	Husband	1.11	1.06	1.17	0.03	NA	NA	NA	NA	2675032	381965	5668
ADHD	Stroke	Spouse	Husband	1.18	1.07	1.29	0.06	NA	NA	NA	NA	2675032	50763	828
ADHD	Angina pectoris	Spouse	Husband	1.13	0.99	1.28	0.07	NA	NA	NA	NA	2675032	65237	967
ADHD	Myocardial infarction	Spouse	Husband	1.22	1.01	1.44	0.11	NA	NA	NA	NA	2675032	34788	492
ADHD	Heart failure	Spouse	Husband	1.40	1.14	1.67	0.13	NA	NA	NA	NA	2675032	14825	254
Autism	Type-2 diabetes	Spouse	Husband	1.47	1.24	1.70	0.12	NA	NA	NA	NA	2675032	129286	273
Autism	Hypertension	Spouse	Husband	1.27	1.18	1.35	0.05	NA	NA	NA	NA	2675032	583663	1191
Autism	Dyslipidemia	Spouse	Husband	1.18	1.01	1.35	0.09	NA	NA	NA	NA	2675032	381965	582
Autism	Stroke	Spouse	Husband	1.26	0.93	1.59	0.17	NA	NA	NA	NA	2675032	50763	99
Autism	Angina pectoris	Spouse	Husband	1.04	0.61	1.47	0.22	NA	NA	NA	NA	2675032	65237	78
Autism	Myocardial infarction	Spouse	Husband	1.17	0.54	1.81	0.32	NA	NA	NA	NA	2675032	34788	47
Autism	Heart failure	Spouse	Husband	1.99	0.97	3.01	0.52	NA	NA	NA	NA	2675032	14825	27
Autism	ADHD	Spouse	Wife	3.61	3.36	3.86	0.13	NA	NA	NA	NA	2674416	58118	1049

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Type-2 diabetes	ADHD	Spouse	Wife	1.00	0.96	1.05	0.02	NA	NA	NA	NA	2674416	58118	2018
Hypertension	ADHD	Spouse	Wife	1.07	1.05	1.09	0.01	NA	NA	NA	NA	2674416	58118	10428
Dyslipidemia	ADHD	Spouse	Wife	1.04	1.02	1.07	0.01	NA	NA	NA	NA	2674416	58118	5640
Stroke	ADHD	Spouse	Wife	1.07	1.00	1.15	0.04	NA	NA	NA	NA	2674416	58118	837
Angina pectoris	ADHD	Spouse	Wife	1.09	1.02	1.16	0.04	NA	NA	NA	NA	2674416	58118	967
Myocardial infarction	ADHD	Spouse	Wife	0.98	0.89	1.07	0.05	NA	NA	NA	NA	2674416	58118	484
Heart failure	ADHD	Spouse	Wife	1.21	1.05	1.37	0.08	NA	NA	NA	NA	2674416	58118	252
Type-2 diabetes	Autism	Spouse	Wife	1.18	1.03	1.33	0.08	NA	NA	NA	NA	2674416	6775	270
Hypertension	Autism	Spouse	Wife	1.08	1.02	1.13	0.03	NA	NA	NA	NA	2674416	6775	1201
Dyslipidemia	Autism	Spouse	Wife	0.99	0.91	1.06	0.04	NA	NA	NA	NA	2674416	6775	571
Stroke	Autism	Spouse	Wife	1.24	0.97	1.50	0.13	NA	NA	NA	NA	2674416	6775	102
Angina pectoris	Autism	Spouse	Wife	0.82	0.63	1.02	0.10	NA	NA	NA	NA	2674416	6775	79
Myocardial infarction	Autism	Spouse	Wife	0.90	0.62	1.18	0.14	NA	NA	NA	NA	2674416	6775	44
Heart failure	Autism	Spouse	Wife	0.94	0.52	1.37	0.22	NA	NA	NA	NA	2674416	6775	24
ADHD	Autism	Spouse	Wife	3.17	2.91	3.43	0.13	NA	NA	NA	NA	2674416	6775	759
ADHD	Type-2 diabetes	Spouse	Wife	1.03	0.99	1.06	0.02	NA	NA	NA	NA	2674416	122919	3214
ADHD	Hypertension	Spouse	Wife	1.14	1.12	1.16	0.01	NA	NA	NA	NA	2674416	704486	18774
ADHD	Dyslipidemia	Spouse	Wife	1.19	1.13	1.25	0.03	NA	NA	NA	NA	2674416	209644	3804
ADHD	Stroke	Spouse	Wife	1.21	1.12	1.31	0.05	NA	NA	NA	NA	2674416	39899	963
ADHD	Angina pectoris	Spouse	Wife	1.38	1.14	1.63	0.12	NA	NA	NA	NA	2674416	29625	548
ADHD	Myocardial infarction	Spouse	Wife	1.13	0.75	1.51	0.19	NA	NA	NA	NA	2674416	9008	148
ADHD	Heart failure	Spouse	Wife	1.25	1.02	1.47	0.12	NA	NA	NA	NA	2674416	9041	197
Autism	Type-2 diabetes	Spouse	Wife	1.31	1.21	1.41	0.05	NA	NA	NA	NA	2674416	122919	709
Autism	Hypertension	Spouse	Wife	1.22	1.17	1.26	0.02	NA	NA	NA	NA	2674416	704486	3572
Autism	Dyslipidemia	Spouse	Wife	1.42	1.27	1.57	0.08	NA	NA	NA	NA	2674416	209644	940
Autism	Stroke	Spouse	Wife	1.41	1.16	1.66	0.13	NA	NA	NA	NA	2674416	39899	201
Autism	Angina pectoris	Spouse	Wife	1.44	0.92	1.97	0.27	NA	NA	NA	NA	2674416	29625	130

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\%}$ CI_Low	$\lambda_{95\%}$ CI_High	λ_{SE}	r_g	$r_{g_{95\%}}$ CI_Low	$r_{g_{95\%}}$ CI_High	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Autism	Myocardial infarction	Spouse	Wife	1.07	0.31	1.82	0.39	NA	NA	NA	NA	2674416	9008	35
Autism	Heart failure	Spouse	Wife	1.54	0.96	2.13	0.30	NA	NA	NA	NA	2674416	9041	51

Note:

SE: standard error; CI: confidence interval; ADHD: attention-deficit/hyperactivity disorder; 1DR: first-degree relative; 2DR: second-degree relative; 3DR: third-degree relative; NA: not available (Genetic correlation was not estimated from spouses).

Results of some relatives were unavailable due to the limited number of cases.

eTable 7. Familial co-aggregation (λ) and genetic correlation estimates in the sensitivity analysis (among individuals aged 18 to 55 years)

Outcome	Exposure	Type of the relation	Relation	λ	λ 95% CI Low	λ 95% CI High	λ SE	r_g	r_g 95% CI Low	r_g 95% CI High	r_g SE	Sample size	n_exposed	Number of outcome cases in the exposed group
Autism	ADHD	1DR	Any 1DR	2.18	2.14	2.21	0.02	0.56	0.54	0.57	0.01	6215623	690126	17401
Type-2 diabetes	ADHD	1DR	Any 1DR	1.00	0.98	1.01	0.01	0.00	0.01	-0.02	-0.01	6215623	690126	19989
Hypertension	ADHD	1DR	Any 1DR	1.13	1.13	1.14	0.00	0.20	0.19	0.21	0.01	6215623	690126	132989
Dyslipidemia	ADHD	1DR	Any 1DR	1.10	1.09	1.11	0.01	0.08	0.07	0.09	0.01	6215623	690126	38657
Stroke	ADHD	1DR	Any 1DR	1.18	1.15	1.21	0.01	0.14	0.12	0.17	0.01	6215623	690126	8200
Angina pectoris	ADHD	1DR	Any 1DR	1.16	1.13	1.20	0.02	0.11	0.09	0.14	0.01	6215623	690126	6187
Myocardial infarction	ADHD	1DR	Any 1DR	1.15	1.11	1.20	0.02	0.11	0.07	0.14	0.02	6215623	690126	3031
Heart failure	ADHD	1DR	Any 1DR	1.18	1.12	1.24	0.03	0.09	0.06	0.12	0.01	6215623	690126	1815
Type-2 diabetes	Autism	1DR	Any 1DR	1.03	1.00	1.06	0.02	0.02	0.00	0.04	0.01	6215623	156146	4908
Hypertension	Autism	1DR	Any 1DR	1.12	1.11	1.13	0.01	0.15	0.13	0.16	0.01	6215623	156146	30806
Dyslipidemia	Autism	1DR	Any 1DR	1.09	1.07	1.11	0.01	0.06	0.04	0.07	0.01	6215623	156146	9256
Stroke	Autism	1DR	Any 1DR	1.16	1.11	1.22	0.03	0.10	0.07	0.14	0.02	6215623	156146	1927
Angina pectoris	Autism	1DR	Any 1DR	1.14	1.08	1.20	0.03	0.08	0.05	0.11	0.02	6215623	156146	1479
Myocardial infarction	Autism	1DR	Any 1DR	1.09	1.00	1.17	0.04	0.05	0.00	0.10	0.02	6215623	156146	713
Heart failure	Autism	1DR	Any 1DR	1.23	1.10	1.35	0.06	0.08	0.04	0.12	0.02	6215623	156146	447
ADHD	Autism	1DR	Any 1DR	2.22	2.19	2.25	0.02	0.57	0.56	0.59	0.01	6215623	156146	19669
ADHD	Type-2 diabetes	1DR	Any 1DR	1.00	0.98	1.01	0.01	0.00	0.01	-0.01	-0.01	6215623	345610	21569
ADHD	Hypertension	1DR	Any 1DR	1.13	1.12	1.14	0.00	0.20	0.19	0.21	0.01	6215623	1809799	127810
ADHD	Dyslipidemia	1DR	Any 1DR	1.12	1.11	1.13	0.01	0.10	0.09	0.11	0.01	6215623	563600	41419
ADHD	Stroke	1DR	Any 1DR	1.20	1.17	1.22	0.01	0.16	0.14	0.17	0.01	6215623	123290	9366
ADHD	Angina pectoris	1DR	Any 1DR	1.19	1.16	1.22	0.01	0.13	0.11	0.15	0.01	6215623	89009	7141
ADHD	Myocardial infarction	1DR	Any 1DR	1.17	1.13	1.21	0.02	0.12	0.09	0.15	0.01	6215623	45554	3507
ADHD	Heart failure	1DR	Any 1DR	1.19	1.14	1.24	0.03	0.09	0.07	0.11	0.01	6215623	27510	2077
Autism	Type-2 diabetes	1DR	Any 1DR	1.06	1.03	1.09	0.02	0.03	0.02	0.05	0.01	6215623	345610	4945
Autism	Hypertension	1DR	Any 1DR	1.12	1.10	1.13	0.01	0.14	0.12	0.17	0.01	6215623	1809799	27308

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Autism	Dyslipidemia	1DR	Any 1DR	1.10	1.08	1.13	0.01	0.07	0.05	0.08	0.01	6215623	563600	9102
Autism	Stroke	1DR	Any 1DR	1.17	1.11	1.22	0.03	0.11	0.07	0.14	0.02	6215623	123290	1996
Autism	Angina pectoris	1DR	Any 1DR	1.15	1.09	1.21	0.03	0.08	0.05	0.11	0.02	6215623	89009	1543
Autism	Myocardial infarction	1DR	Any 1DR	1.08	1.00	1.17	0.04	0.05	0.00	0.10	0.02	6215623	45554	740
Autism	Heart failure	1DR	Any 1DR	1.23	1.11	1.34	0.06	0.08	0.04	0.12	0.02	6215623	27510	466
Autism	ADHD	1DR	Parent	2.92	2.82	3.01	0.05	0.61	0.59	0.63	0.01	1559960	55633	4075
Type-2 diabetes	ADHD	1DR	Parent	1.00	0.92	1.09	0.04	0.00	-0.07	0.07	0.03	1559960	55633	540
Hypertension	ADHD	1DR	Parent	1.16	1.13	1.19	0.02	0.29	0.24	0.35	0.03	1559960	55633	5197
Dyslipidemia	ADHD	1DR	Parent	1.19	1.04	1.35	0.08	0.13	0.03	0.22	0.05	1559960	55633	249
Hypertension	Autism	1DR	Parent	1.13	1.05	1.22	0.04	0.20	0.08	0.31	0.06	1559960	7412	665
ADHD	Autism	1DR	Parent	2.60	2.50	2.70	0.05	0.53	0.51	0.56	0.01	1559960	7412	2171
ADHD	Type-2 diabetes	1DR	Parent	1.01	1.00	1.03	0.01	0.01	0.00	0.02	0.01	1559960	116321	12238
ADHD	Hypertension	1DR	Parent	1.09	1.08	1.10	0.00	0.17	0.15	0.19	0.01	1559960	548622	62963
ADHD	Dyslipidemia	1DR	Parent	1.09	1.08	1.11	0.01	0.06	0.05	0.07	0.00	1559960	262655	29829
ADHD	Angina pectoris	1DR	Parent	1.17	1.14	1.20	0.01	0.10	0.08	0.12	0.01	1559960	47378	5709
Autism	Type-2 diabetes	1DR	Parent	1.13	1.09	1.18	0.02	0.08	0.05	0.10	0.01	1559960	116321	3030
Autism	Hypertension	1DR	Parent	1.12	1.09	1.14	0.01	0.17	0.14	0.20	0.02	1559960	548622	14307
Autism	Dyslipidemia	1DR	Parent	1.13	1.10	1.15	0.01	0.07	0.05	0.08	0.01	1559960	262655	6799
Autism	Angina pectoris	1DR	Parent	1.18	1.11	1.24	0.03	0.08	0.05	0.11	0.02	1559960	47378	1276
Autism	ADHD	1DR	Both parents	5.21	4.50	5.92	0.36	0.63	0.56	0.71	0.04	1559960	1556	212
Type-2 diabetes	ADHD	1DR	Both parents	1.01	0.36	1.65	0.33	0.00	-0.29	0.29	0.15	1559960	1556	14
Hypertension	ADHD	1DR	Both parents	1.35	1.12	1.59	0.12	0.33	0.13	0.53	0.10	1559960	1556	145
Dyslipidemia	ADHD	1DR	Both parents	2.04	0.68	3.41	0.70	0.33	0.01	0.66	0.17	1559960	1556	11
ADHD	Autism	1DR	Both parents	3.52	2.25	4.80	0.65	0.48	0.31	0.64	0.08	1559960	54	17
ADHD	Type-2 diabetes	1DR	Both parents	0.88	0.79	0.96	0.04	-0.06	-0.02	-0.10	-0.02	1559960	4109	378
ADHD	Hypertension	1DR	Both parents	1.21	1.19	1.24	0.01	0.21	0.18	0.23	0.01	1559960	67876	8798
ADHD	Dyslipidemia	1DR	Both parents	1.15	1.10	1.20	0.02	0.06	0.04	0.08	0.01	1559960	16316	1942
ADHD	Angina pectoris	1DR	Both parents	1.48	1.18	1.77	0.15	0.13	0.06	0.21	0.04	1559960	556	81

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Autism	Type-2 diabetes	1DR	Both parents	1.04	0.84	1.25	0.10	0.01	-0.05	0.08	0.03	1559960	4109	99
Autism	Hypertension	1DR	Both parents	1.27	1.21	1.33	0.03	0.19	0.15	0.23	0.02	1559960	67876	2067
Autism	Dyslipidemia	1DR	Both parents	1.18	1.07	1.29	0.06	0.05	0.02	0.08	0.02	1559960	16316	443
Autism	Angina pectoris	1DR	Both parents	1.16	0.55	1.77	0.31	0.04	-0.09	0.17	0.07	1559960	556	14
Autism	ADHD	1DR	Father	2.70	2.57	2.83	0.07	0.59	0.56	0.62	0.02	922579	23958	1690
Type-2 diabetes	ADHD	1DR	Father	1.01	0.87	1.14	0.07	0.00	-0.10	0.11	0.06	922579	23958	212
Hypertension	ADHD	1DR	Father	1.16	1.11	1.20	0.02	0.29	0.20	0.37	0.04	922579	23958	2133
Dyslipidemia	ADHD	1DR	Father	1.30	1.05	1.56	0.13	0.20	0.06	0.35	0.08	922579	23958	107
Stroke	ADHD	1DR	Father	1.38	1.07	1.69	0.16	0.31	0.09	0.53	0.11	922579	23958	79
Type-2 diabetes	Autism	1DR	Father	0.94	0.64	1.24	0.15	-0.04	0.16	-0.23	-0.10	922579	4674	39
Hypertension	Autism	1DR	Father	1.19	1.09	1.30	0.05	0.27	0.13	0.42	0.07	922579	4674	426
Dyslipidemia	Autism	1DR	Father	1.24	0.70	1.79	0.28	0.13	-0.13	0.39	0.13	922579	4674	20
Stroke	Autism	1DR	Father	1.09	0.46	1.71	0.32	0.06	-0.36	0.47	0.21	922579	4674	12
ADHD	Autism	1DR	Father	2.47	2.36	2.58	0.06	0.53	0.50	0.56	0.02	922579	4674	1330
ADHD	Type-2 diabetes	1DR	Father	1.00	0.98	1.03	0.01	0.00	-0.02	0.02	0.01	922579	53442	5720
ADHD	Hypertension	1DR	Father	1.09	1.07	1.10	0.01	0.16	0.14	0.19	0.01	922579	223629	26446
ADHD	Dyslipidemia	1DR	Father	1.07	1.05	1.09	0.01	0.05	0.04	0.06	0.01	922579	148535	17079
ADHD	Stroke	1DR	Father	1.13	1.09	1.18	0.02	0.12	0.08	0.16	0.02	922579	19177	2343
ADHD	Angina pectoris	1DR	Father	1.10	1.06	1.14	0.02	0.06	0.04	0.08	0.01	922579	25397	2963
ADHD	Heart failure	1DR	Father	1.14	1.06	1.23	0.04	0.07	0.03	0.12	0.02	922579	5003	604
Autism	Type-2 diabetes	1DR	Father	1.05	0.99	1.11	0.03	0.03	0.00	0.07	0.02	922579	53442	1338
Autism	Hypertension	1DR	Father	1.09	1.06	1.12	0.02	0.13	0.08	0.17	0.02	922579	223629	5954
Autism	Dyslipidemia	1DR	Father	1.04	1.01	1.08	0.02	0.02	0.00	0.05	0.01	922579	148535	3733
Autism	Stroke	1DR	Father	1.07	0.97	1.16	0.05	0.05	-0.02	0.11	0.03	922579	19177	497
Autism	Angina pectoris	1DR	Father	1.09	1.00	1.17	0.04	0.04	0.00	0.08	0.02	922579	25397	654
Autism	Heart failure	1DR	Father	1.18	0.98	1.37	0.10	0.07	0.00	0.14	0.04	922579	5003	141
Autism	ADHD	1DR	Mother	3.23	3.12	3.35	0.06	0.63	0.61	0.66	0.01	1473495	34780	2807
Type-2 diabetes	ADHD	1DR	Mother	1.01	0.90	1.12	0.05	0.01	-0.07	0.08	0.04	1473495	34780	356

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Hypertension	ADHD	1DR	Mother	1.17	1.13	1.21	0.02	0.26	0.20	0.31	0.03	1473495	34780	3351
Dyslipidemia	ADHD	1DR	Mother	1.19	1.01	1.38	0.09	0.11	0.01	0.21	0.05	1473495	34780	164
Stroke	ADHD	1DR	Mother	1.31	1.07	1.56	0.12	0.23	0.07	0.38	0.08	1473495	34780	118
Heart failure	ADHD	1DR	Mother	1.09	0.51	1.67	0.30	0.04	-0.19	0.26	0.11	1473495	34780	14
Type-2 diabetes	Autism	1DR	Mother	0.74	0.44	1.05	0.16	-0.15	0.06	-0.37	-0.11	1473495	2846	23
Hypertension	Autism	1DR	Mother	1.10	0.98	1.23	0.06	0.12	-0.02	0.27	0.07	1473495	2846	257
Dyslipidemia	Autism	1DR	Mother	1.60	0.86	2.33	0.37	0.23	0.00	0.47	0.12	1473495	2846	18
ADHD	Autism	1DR	Mother	2.78	2.63	2.94	0.08	0.54	0.50	0.57	0.02	1473495	2846	875
ADHD	Type-2 diabetes	1DR	Mother	1.02	1.00	1.04	0.01	0.01	0.00	0.03	0.01	1473495	71095	7274
ADHD	Hypertension	1DR	Mother	1.13	1.12	1.14	0.01	0.20	0.18	0.22	0.01	1473495	460710	54106
ADHD	Dyslipidemia	1DR	Mother	1.14	1.13	1.16	0.01	0.08	0.07	0.09	0.01	1473495	146744	16633
ADHD	Stroke	1DR	Mother	1.22	1.18	1.25	0.02	0.16	0.13	0.19	0.02	1473495	30971	3870
ADHD	Angina pectoris	1DR	Mother	1.28	1.24	1.33	0.02	0.15	0.12	0.18	0.02	1473495	23091	2907
ADHD	Myocardial infarction	1DR	Mother	1.24	1.16	1.32	0.04	0.16	0.06	0.25	0.05	1473495	7555	938
ADHD	Heart failure	1DR	Mother	1.27	1.19	1.35	0.04	0.10	0.07	0.13	0.02	1473495	6239	795
Autism	Type-2 diabetes	1DR	Mother	1.21	1.16	1.27	0.03	0.11	0.08	0.13	0.01	1473495	71095	1890
Autism	Hypertension	1DR	Mother	1.18	1.16	1.20	0.01	0.21	0.19	0.24	0.01	1473495	460710	12482
Autism	Dyslipidemia	1DR	Mother	1.25	1.21	1.29	0.02	0.11	0.09	0.12	0.01	1473495	146744	3951
Autism	Stroke	1DR	Mother	1.28	1.19	1.36	0.04	0.16	0.11	0.20	0.02	1473495	30971	893
Autism	Angina pectoris	1DR	Mother	1.31	1.21	1.42	0.05	0.13	0.09	0.17	0.02	1473495	23091	650
Autism	Myocardial infarction	1DR	Mother	1.33	1.15	1.51	0.09	0.16	0.04	0.28	0.06	1473495	7555	214
Autism	Heart failure	1DR	Mother	1.38	1.18	1.58	0.10	0.11	0.06	0.16	0.02	1473495	6239	191
Autism	ADHD	1DR	Offspring	2.44	2.31	2.58	0.07	0.52	0.48	0.55	0.02	1377244	230660	1786
Type-2 diabetes	ADHD	1DR	Offspring	1.00	0.98	1.02	0.01	0.00	-0.01	0.02	0.01	1377244	230660	11395
Hypertension	ADHD	1DR	Offspring	1.10	1.09	1.11	0.00	0.17	0.16	0.19	0.01	1377244	230660	70264
Dyslipidemia	ADHD	1DR	Offspring	1.09	1.08	1.10	0.01	0.06	0.05	0.07	0.00	1377244	230660	29456
Stroke	ADHD	1DR	Offspring	1.17	1.14	1.21	0.02	0.15	0.12	0.18	0.02	1377244	230660	5448
Angina pectoris	ADHD	1DR	Offspring	1.16	1.12	1.19	0.02	0.09	0.07	0.11	0.01	1377244	230660	5075

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Myocardial infarction	ADHD	1DR	Offspring	1.13	1.08	1.17	0.02	0.10	0.00	0.20	0.05	1377244	230660	2426
Heart failure	ADHD	1DR	Offspring	1.17	1.10	1.24	0.04	0.08	0.04	0.11	0.02	1377244	230660	1218
Type-2 diabetes	Autism	1DR	Offspring	1.12	1.08	1.16	0.02	0.07	0.05	0.09	0.01	1377244	55779	3023
Hypertension	Autism	1DR	Offspring	1.14	1.12	1.15	0.01	0.18	0.16	0.20	0.01	1377244	55779	17424
Dyslipidemia	Autism	1DR	Offspring	1.13	1.10	1.15	0.01	0.07	0.05	0.08	0.01	1377244	55779	7265
Stroke	Autism	1DR	Offspring	1.19	1.13	1.26	0.03	0.13	0.08	0.17	0.02	1377244	55779	1328
Angina pectoris	Autism	1DR	Offspring	1.18	1.11	1.25	0.03	0.08	0.05	0.10	0.01	1377244	55779	1232
Myocardial infarction	Autism	1DR	Offspring	1.13	1.03	1.22	0.05	0.08	-0.01	0.17	0.04	1377244	55779	583
Heart failure	Autism	1DR	Offspring	1.26	1.12	1.40	0.07	0.09	0.04	0.13	0.02	1377244	55779	313
ADHD	Autism	1DR	Offspring	2.96	2.86	3.05	0.05	0.65	0.62	0.67	0.01	1377244	55779	4128
ADHD	Type-2 diabetes	1DR	Offspring	1.01	0.92	1.10	0.04	0.01	-0.06	0.07	0.03	1377244	23013	551
ADHD	Hypertension	1DR	Offspring	1.15	1.12	1.19	0.02	0.25	0.20	0.31	0.03	1377244	182357	5005
ADHD	Dyslipidemia	1DR	Offspring	1.21	1.05	1.38	0.08	0.14	0.04	0.24	0.05	1377244	8610	245
ADHD	Stroke	1DR	Offspring	1.28	1.10	1.47	0.09	0.24	0.10	0.38	0.07	1377244	6134	193
ADHD	Heart failure	1DR	Offspring	1.24	0.72	1.76	0.26	0.11	-0.10	0.31	0.11	1377244	870	24
Autism	Type-2 diabetes	1DR	Offspring	1.02	0.75	1.29	0.14	0.01	-0.14	0.17	0.08	1377244	23013	62
Autism	Hypertension	1DR	Offspring	1.13	1.03	1.23	0.05	0.17	0.05	0.29	0.06	1377244	182357	613
Autism	Dyslipidemia	1DR	Offspring	1.51	0.97	2.05	0.28	0.23	0.03	0.44	0.10	1377244	8610	34
Autism	Stroke	1DR	Offspring	1.09	0.58	1.59	0.26	0.06	-0.27	0.39	0.17	1377244	6134	19
Autism	ADHD	1DR	Son	2.33	2.18	2.48	0.08	0.51	0.47	0.55	0.02	926986	163182	1295
Type-2 diabetes	ADHD	1DR	Son	1.00	0.98	1.02	0.01	0.00	-0.02	0.02	0.01	926986	163182	7999
Hypertension	ADHD	1DR	Son	1.10	1.09	1.11	0.00	0.17	0.15	0.18	0.01	926986	163182	49703
Dyslipidemia	ADHD	1DR	Son	1.09	1.08	1.11	0.01	0.06	0.05	0.07	0.01	926986	163182	20782
Stroke	ADHD	1DR	Son	1.19	1.14	1.23	0.02	0.17	0.13	0.21	0.02	926986	163182	3860
Angina pectoris	ADHD	1DR	Son	1.17	1.13	1.21	0.02	0.10	0.08	0.13	0.01	926986	163182	3592
Myocardial infarction	ADHD	1DR	Son	1.14	1.08	1.20	0.03	0.11	0.02	0.21	0.05	926986	163182	1723
Heart failure	ADHD	1DR	Son	1.16	1.07	1.25	0.04	0.07	0.03	0.11	0.02	926986	163182	838
Type-2 diabetes	Autism	1DR	Son	1.15	1.10	1.19	0.02	0.09	0.06	0.11	0.01	926986	40295	2232

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Hypertension	Autism	1DR	Son	1.14	1.12	1.16	0.01	0.17	0.15	0.19	0.01	926986	40295	12605
Dyslipidemia	Autism	1DR	Son	1.14	1.11	1.17	0.01	0.07	0.06	0.09	0.01	926986	40295	5302
Stroke	Autism	1DR	Son	1.21	1.14	1.29	0.04	0.15	0.09	0.20	0.03	926986	40295	967
Angina pectoris	Autism	1DR	Son	1.15	1.07	1.23	0.04	0.07	0.03	0.10	0.02	926986	40295	858
Myocardial infarction	Autism	1DR	Son	1.16	1.05	1.28	0.06	0.10	0.00	0.21	0.05	926986	40295	431
Heart failure	Autism	1DR	Son	1.28	1.10	1.45	0.09	0.09	0.04	0.14	0.03	926986	40295	226
ADHD	Autism	1DR	Son	2.89	2.79	3.00	0.05	0.66	0.63	0.69	0.02	926986	40295	3046
ADHD	Type-2 diabetes	1DR	Son	1.01	0.87	1.15	0.07	0.01	-0.10	0.12	0.06	926986	8122	206
ADHD	Hypertension	1DR	Son	1.22	1.16	1.28	0.03	0.35	0.27	0.44	0.04	926986	61225	1858
ADHD	Dyslipidemia	1DR	Son	1.16	0.94	1.37	0.11	0.11	-0.03	0.24	0.07	926986	4108	120
ADHD	Stroke	1DR	Son	1.48	1.21	1.75	0.14	0.41	0.21	0.60	0.10	926986	3050	115
Autism	Type-2 diabetes	1DR	Son	1.19	0.75	1.64	0.23	0.11	-0.12	0.34	0.12	926986	8122	30
Autism	Hypertension	1DR	Son	1.26	1.09	1.43	0.09	0.31	0.13	0.49	0.09	926986	61225	242
Autism	Dyslipidemia	1DR	Son	1.19	0.54	1.83	0.33	0.09	-0.21	0.39	0.15	926986	4108	14
Autism	Stroke	1DR	Son	1.26	0.54	1.98	0.37	0.18	-0.26	0.62	0.22	926986	3050	12
Autism	ADHD	1DR	Daughter	2.86	2.62	3.10	0.12	0.52	0.48	0.57	0.02	894491	80873	676
Type-2 diabetes	ADHD	1DR	Daughter	1.01	0.98	1.04	0.02	0.01	-0.01	0.03	0.01	894491	80873	4079
Hypertension	ADHD	1DR	Daughter	1.11	1.09	1.12	0.01	0.16	0.14	0.18	0.01	894491	80873	24979
Dyslipidemia	ADHD	1DR	Daughter	1.10	1.08	1.12	0.01	0.06	0.05	0.07	0.01	894491	80873	10525
Stroke	ADHD	1DR	Daughter	1.16	1.11	1.22	0.03	0.12	0.08	0.16	0.02	894491	80873	1926
Angina pectoris	ADHD	1DR	Daughter	1.17	1.12	1.23	0.03	0.08	0.05	0.11	0.01	894491	80873	1845
Heart failure	ADHD	1DR	Daughter	1.26	1.14	1.38	0.06	0.10	0.06	0.15	0.02	894491	80873	468
Type-2 diabetes	Autism	1DR	Daughter	1.06	0.99	1.12	0.04	0.03	-0.01	0.07	0.02	894491	16651	866
Hypertension	Autism	1DR	Daughter	1.14	1.11	1.16	0.01	0.17	0.14	0.20	0.02	894491	16651	5239
Dyslipidemia	Autism	1DR	Daughter	1.09	1.05	1.13	0.02	0.04	0.02	0.06	0.01	894491	16651	2131
Stroke	Autism	1DR	Daughter	1.13	1.02	1.25	0.06	0.08	0.01	0.14	0.03	894491	16651	383
Angina pectoris	Autism	1DR	Daughter	1.26	1.14	1.38	0.06	0.09	0.05	0.14	0.02	894491	16651	404
Heart failure	Autism	1DR	Daughter	1.26	1.00	1.51	0.13	0.08	0.01	0.16	0.04	894491	16651	95

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
ADHD	Autism	1DR	Daughter	3.14	2.97	3.31	0.09	0.58	0.54	0.61	0.02	894491	16651	1232
ADHD	Type-2 diabetes	1DR	Daughter	1.03	0.92	1.14	0.06	0.02	-0.05	0.09	0.04	894491	15236	353
ADHD	Hypertension	1DR	Daughter	1.14	1.10	1.19	0.02	0.22	0.16	0.28	0.03	894491	129122	3357
ADHD	Dyslipidemia	1DR	Daughter	1.27	1.04	1.49	0.11	0.15	0.04	0.27	0.06	894491	4920	136
ADHD	Stroke	1DR	Daughter	1.12	0.87	1.36	0.13	0.09	-0.09	0.26	0.09	894491	3113	81
ADHD	Heart failure	1DR	Daughter	2.00	1.03	2.97	0.49	0.33	0.08	0.58	0.13	894491	432	17
Autism	Type-2 diabetes	1DR	Daughter	0.86	0.55	1.17	0.16	-0.08	0.11	-0.27	-0.10	894491	15236	32
Autism	Hypertension	1DR	Daughter	1.09	0.97	1.21	0.06	0.12	-0.03	0.26	0.07	894491	129122	395
Autism	Dyslipidemia	1DR	Daughter	1.80	1.02	2.58	0.40	0.32	0.09	0.56	0.12	894491	4920	22
Autism	ADHD	1DR	Sibling	1.99	1.95	2.03	0.02	0.54	0.52	0.55	0.01	5220106	429327	12900
Type-2 diabetes	ADHD	1DR	Sibling	0.99	0.97	1.01	0.01	-0.01	0.01	-0.03	-0.01	5220106	429327	8651
Hypertension	ADHD	1DR	Sibling	1.12	1.11	1.13	0.00	0.16	0.15	0.18	0.01	5220106	429327	62121
Dyslipidemia	ADHD	1DR	Sibling	1.08	1.06	1.10	0.01	0.05	0.04	0.07	0.01	5220106	429327	10116
Stroke	ADHD	1DR	Sibling	1.16	1.12	1.21	0.02	0.12	0.09	0.15	0.02	5220106	429327	2872
Angina pectoris	ADHD	1DR	Sibling	1.13	1.07	1.20	0.03	0.09	0.05	0.14	0.02	5220106	429327	1301
Myocardial infarction	ADHD	1DR	Sibling	1.14	1.05	1.23	0.05	0.10	0.04	0.17	0.03	5220106	429327	706
Heart failure	ADHD	1DR	Sibling	1.17	1.07	1.27	0.05	0.07	0.03	0.11	0.02	5220106	429327	631
Type-2 diabetes	Autism	1DR	Sibling	0.97	0.93	1.02	0.02	-0.02	0.01	-0.05	-0.01	5220106	94723	1862
Hypertension	Autism	1DR	Sibling	1.06	1.05	1.08	0.01	0.07	0.05	0.09	0.01	5220106	94723	13021
Dyslipidemia	Autism	1DR	Sibling	0.96	0.92	1.01	0.02	-0.02	0.00	-0.04	-0.01	5220106	94723	2032
Stroke	Autism	1DR	Sibling	1.09	0.99	1.18	0.05	0.05	0.00	0.10	0.03	5220106	94723	599
Angina pectoris	Autism	1DR	Sibling	1.01	0.89	1.14	0.06	0.01	-0.06	0.08	0.04	5220106	94723	258
Myocardial infarction	Autism	1DR	Sibling	0.99	0.82	1.16	0.09	-0.01	0.10	-0.11	-0.05	5220106	94723	134
Heart failure	Autism	1DR	Sibling	1.09	0.89	1.28	0.10	0.03	-0.04	0.10	0.03	5220106	94723	134
ADHD	Autism	1DR	Sibling	2.01	1.97	2.04	0.02	0.55	0.53	0.56	0.01	5220106	94723	13831
ADHD	Type-2 diabetes	1DR	Sibling	0.99	0.96	1.01	0.01	-0.01	0.01	-0.03	-0.01	5220106	208226	8806
ADHD	Hypertension	1DR	Sibling	1.16	1.15	1.17	0.01	0.23	0.21	0.24	0.01	5220106	1119511	60157
ADHD	Dyslipidemia	1DR	Sibling	1.06	1.03	1.10	0.02	0.04	0.02	0.07	0.01	5220106	281204	9827

Outcome	Exposure	Type of the relation	Relation	λ	λ _95% CI_Low	λ _95% CI_High	λ _SE	r_g	r_g _95% CI_Low	r_g _95% CI_High	r_g _SE	Sample size	n_exposed	Number of outcome cases in the exposed group
ADHD	Stroke	1DR	Sibling	1.18	1.13	1.22	0.02	0.13	0.09	0.16	0.02	5220106	67862	3056
ADHD	Angina pectoris	1DR	Sibling	1.07	0.94	1.20	0.07	0.05	-0.04	0.14	0.05	5220106	40633	1349
ADHD	Myocardial infarction	1DR	Sibling	1.00	0.80	1.20	0.10	0.00	-0.15	0.15	0.08	5220106	22334	734
ADHD	Heart failure	1DR	Sibling	1.17	1.05	1.28	0.06	0.07	0.02	0.12	0.02	5220106	15479	661
Autism	Type-2 diabetes	1DR	Sibling	1.01	0.95	1.06	0.03	0.01	-0.03	0.04	0.02	5220106	208226	1831
Autism	Hypertension	1DR	Sibling	1.13	1.11	1.16	0.01	0.15	0.12	0.17	0.01	5220106	1119511	12068
Autism	Dyslipidemia	1DR	Sibling	1.08	0.99	1.17	0.04	0.04	0.00	0.09	0.02	5220106	281204	1915
Autism	Stroke	1DR	Sibling	1.14	1.03	1.26	0.06	0.08	0.02	0.15	0.03	5220106	67862	610
Autism	Angina pectoris	1DR	Sibling	0.97	0.67	1.27	0.15	-0.02	0.16	-0.20	-0.09	5220106	40633	253
Autism	Myocardial infarction	1DR	Sibling	0.75	0.34	1.17	0.21	-0.17	0.16	-0.49	-0.17	5220106	22334	133
Autism	Heart failure	1DR	Sibling	1.26	0.97	1.55	0.15	0.08	0.00	0.17	0.04	5220106	15479	131
Autism	ADHD	1DR	Brother	1.94	1.89	1.99	0.03	0.52	0.49	0.54	0.01	3248193	272988	8053
Type-2 diabetes	ADHD	1DR	Brother	1.00	0.97	1.03	0.02	0.00	0.02	-0.02	-0.01	3248193	272988	5300
Hypertension	ADHD	1DR	Brother	1.12	1.11	1.14	0.01	0.16	0.15	0.18	0.01	3248193	272988	38332
Dyslipidemia	ADHD	1DR	Brother	1.10	1.08	1.13	0.01	0.07	0.05	0.09	0.01	3248193	272988	5912
Stroke	ADHD	1DR	Brother	1.17	1.11	1.23	0.03	0.12	0.08	0.17	0.02	3248193	272988	1714
Angina pectoris	ADHD	1DR	Brother	1.19	1.10	1.28	0.05	0.13	0.07	0.18	0.03	3248193	272988	766
Myocardial infarction	ADHD	1DR	Brother	1.23	1.11	1.35	0.06	0.16	0.08	0.24	0.04	3248193	272988	419
Heart failure	ADHD	1DR	Brother	1.17	1.03	1.30	0.07	0.07	0.02	0.12	0.03	3248193	272988	362
Type-2 diabetes	Autism	1DR	Brother	0.99	0.93	1.05	0.03	-0.01	0.03	-0.04	-0.02	3248193	65662	1308
Hypertension	Autism	1DR	Brother	1.09	1.07	1.11	0.01	0.09	0.07	0.12	0.01	3248193	65662	9078
Dyslipidemia	Autism	1DR	Brother	0.99	0.93	1.04	0.03	-0.01	0.02	-0.04	-0.01	3248193	65662	1436
Stroke	Autism	1DR	Brother	1.16	1.04	1.27	0.06	0.09	0.03	0.15	0.03	3248193	65662	440
Angina pectoris	Autism	1DR	Brother	1.00	0.85	1.15	0.08	0.00	0.08	-0.09	-0.04	3248193	65662	175
Myocardial infarction	Autism	1DR	Brother	0.97	0.77	1.18	0.10	-0.02	0.11	-0.14	-0.06	3248193	65662	92
Heart failure	Autism	1DR	Brother	1.07	0.83	1.30	0.12	0.02	-0.05	0.10	0.04	3248193	65662	92
ADHD	Autism	1DR	Brother	2.07	2.03	2.11	0.02	0.57	0.55	0.59	0.01	3248193	65662	9708
ADHD	Type-2 diabetes	1DR	Brother	0.98	0.93	1.02	0.02	-0.02	0.01	-0.05	-0.02	3248193	83191	3057

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
ADHD	Hypertension	1DR	Brother	1.19	1.17	1.21	0.01	0.24	0.22	0.27	0.01	3248193	425294	20961
ADHD	Dyslipidemia	1DR	Brother	1.03	0.98	1.08	0.03	0.02	-0.01	0.05	0.02	3248193	172906	5692
ADHD	Stroke	1DR	Brother	1.18	1.11	1.25	0.04	0.13	0.08	0.18	0.02	3248193	32055	1414
ADHD	Angina pectoris	1DR	Brother	0.97	0.80	1.13	0.08	-0.02	0.10	-0.14	-0.06	3248193	24719	765
ADHD	Myocardial infarction	1DR	Brother	0.94	0.71	1.17	0.12	-0.05	0.14	-0.23	-0.09	3248193	16516	517
ADHD	Heart failure	1DR	Brother	1.03	0.88	1.18	0.08	0.01	-0.05	0.08	0.03	3248193	8204	318
Autism	Type-2 diabetes	1DR	Brother	1.07	0.97	1.17	0.05	0.04	-0.01	0.09	0.03	3248193	83191	670
Autism	Hypertension	1DR	Brother	1.18	1.14	1.22	0.02	0.18	0.14	0.22	0.02	3248193	425294	4265
Autism	Dyslipidemia	1DR	Brother	1.07	0.94	1.19	0.06	0.04	-0.03	0.10	0.03	3248193	172906	1096
Autism	Stroke	1DR	Brother	1.05	0.89	1.21	0.08	0.03	-0.06	0.12	0.05	3248193	32055	259
Autism	Angina pectoris	1DR	Brother	0.98	0.57	1.39	0.21	-0.01	0.22	-0.24	-0.12	3248193	24719	153
Autism	Myocardial infarction	1DR	Brother	0.87	0.31	1.43	0.29	-0.08	0.30	-0.47	-0.20	3248193	16516	103
Autism	Heart failure	1DR	Brother	1.19	0.79	1.58	0.20	0.06	-0.06	0.18	0.06	3248193	8204	62
Autism	ADHD	1DR	Sister	2.20	2.13	2.26	0.03	0.58	0.55	0.60	0.01	3195571	171374	5542
Type-2 diabetes	ADHD	1DR	Sister	0.95	0.92	0.98	0.02	-0.04	-0.01	-0.06	-0.01	3195571	171374	3625
Hypertension	ADHD	1DR	Sister	1.12	1.10	1.13	0.01	0.16	0.14	0.18	0.01	3195571	171374	25889
Dyslipidemia	ADHD	1DR	Sister	1.04	1.01	1.07	0.02	0.02	0.00	0.04	0.01	3195571	171374	4427
Stroke	ADHD	1DR	Sister	1.17	1.10	1.24	0.04	0.11	0.07	0.15	0.02	3195571	171374	1256
Angina pectoris	ADHD	1DR	Sister	1.05	0.96	1.14	0.05	0.04	-0.02	0.10	0.03	3195571	171374	565
Myocardial infarction	ADHD	1DR	Sister	1.05	0.92	1.17	0.06	0.03	-0.05	0.12	0.04	3195571	171374	304
Heart failure	ADHD	1DR	Sister	1.18	1.04	1.33	0.07	0.07	0.02	0.13	0.03	3195571	171374	284
Type-2 diabetes	Autism	1DR	Sister	0.91	0.82	0.99	0.04	-0.06	-0.01	-0.11	-0.03	3195571	30172	572
Hypertension	Autism	1DR	Sister	1.03	1.00	1.06	0.02	0.03	-0.01	0.07	0.02	3195571	30172	4102
Dyslipidemia	Autism	1DR	Sister	0.91	0.84	0.99	0.04	-0.05	-0.01	-0.09	-0.02	3195571	30172	607
Stroke	Autism	1DR	Sister	0.99	0.82	1.15	0.08	-0.01	0.08	-0.10	-0.05	3195571	30172	169
Angina pectoris	Autism	1DR	Sister	1.03	0.80	1.25	0.12	0.02	-0.11	0.14	0.07	3195571	30172	84
Myocardial infarction	Autism	1DR	Sister	1.01	0.70	1.32	0.16	0.01	-0.17	0.19	0.09	3195571	30172	42
Heart failure	Autism	1DR	Sister	1.15	0.78	1.52	0.19	0.05	-0.06	0.16	0.06	3195571	30172	43

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
ADHD	Autism	1DR	Sister	2.01	1.95	2.07	0.03	0.51	0.48	0.53	0.01	3195571	30172	4398
ADHD	Type-2 diabetes	1DR	Sister	0.97	0.95	1.00	0.01	-0.02	0.00	-0.04	-0.01	3195571	131694	5927
ADHD	Hypertension	1DR	Sister	1.14	1.13	1.15	0.01	0.20	0.18	0.21	0.01	3195571	755216	41913
ADHD	Dyslipidemia	1DR	Sister	1.10	1.05	1.15	0.02	0.06	0.03	0.09	0.02	3195571	120239	4492
ADHD	Stroke	1DR	Sister	1.18	1.11	1.24	0.03	0.11	0.07	0.16	0.02	3195571	36336	1666
ADHD	Angina pectoris	1DR	Sister	1.22	1.01	1.43	0.11	0.14	0.02	0.27	0.07	3195571	16325	602
ADHD	Myocardial infarction	1DR	Sister	1.22	0.83	1.61	0.20	0.15	-0.09	0.39	0.12	3195571	5927	223
ADHD	Heart failure	1DR	Sister	1.30	1.13	1.47	0.09	0.12	0.06	0.18	0.03	3195571	7363	345
Autism	Type-2 diabetes	1DR	Sister	0.95	0.89	1.01	0.03	-0.03	0.01	-0.07	-0.02	3195571	131694	1186
Autism	Hypertension	1DR	Sister	1.10	1.07	1.13	0.01	0.11	0.08	0.14	0.02	3195571	755216	8315
Autism	Dyslipidemia	1DR	Sister	1.10	0.99	1.22	0.06	0.05	0.00	0.11	0.03	3195571	120239	887
Autism	Stroke	1DR	Sister	1.22	1.07	1.38	0.08	0.11	0.04	0.19	0.04	3195571	36336	354
Autism	Angina pectoris	1DR	Sister	0.93	0.51	1.35	0.21	-0.04	0.21	-0.30	-0.13	3195571	16325	103
Autism	Myocardial infarction	1DR	Sister	0.51	0.06	0.96	0.23	-0.37	0.11	-0.85	-0.25	3195571	5927	31
Autism	Heart failure	1DR	Sister	1.33	0.93	1.74	0.21	0.10	-0.01	0.21	0.06	3195571	7363	70
Autism	ADHD	2DR	Any 2DR	1.40	1.37	1.44	0.02	0.60	0.54	0.65	0.03	4031098	569622	7910
Type-2 diabetes	ADHD	2DR	Any 2DR	0.97	0.96	0.99	0.01	-0.05	-0.02	-0.09	-0.02	4031098	569622	20417
Hypertension	ADHD	2DR	Any 2DR	1.04	1.03	1.04	0.00	0.18	0.14	0.22	0.02	4031098	569622	119831
Dyslipidemia	ADHD	2DR	Any 2DR	1.03	1.02	1.04	0.01	0.06	0.04	0.09	0.01	4031098	569622	45258
Stroke	ADHD	2DR	Any 2DR	1.07	1.04	1.09	0.01	0.17	0.10	0.25	0.04	4031098	569622	8634
Angina pectoris	ADHD	2DR	Any 2DR	1.06	1.03	1.09	0.01	0.10	0.05	0.16	0.03	4031098	569622	7240
Myocardial infarction	ADHD	2DR	Any 2DR	1.07	1.03	1.11	0.02	0.11	0.04	0.18	0.03	4031098	569622	3859
Heart failure	ADHD	2DR	Any 2DR	1.05	1.00	1.11	0.03	0.07	-0.01	0.15	0.04	4031098	569622	2048
Type-2 diabetes	Autism	2DR	Any 2DR	0.97	0.94	1.00	0.02	-0.05	0.00	-0.10	-0.02	4031098	139577	5211
Hypertension	Autism	2DR	Any 2DR	1.02	1.00	1.03	0.01	0.06	0.01	0.11	0.03	4031098	139577	30041
Dyslipidemia	Autism	2DR	Any 2DR	1.01	0.99	1.03	0.01	0.02	-0.01	0.05	0.02	4031098	139577	11528
Stroke	Autism	2DR	Any 2DR	1.09	1.03	1.14	0.03	0.17	0.06	0.27	0.05	4031098	139577	2260
Angina pectoris	Autism	2DR	Any 2DR	1.01	0.96	1.06	0.03	0.01	-0.06	0.08	0.04	4031098	139577	1804

Outcome	Exposure	Type of the relation	Relation	λ	λ _95% CI_Low	λ _95% CI_High	λ _SE	r_g	r_g _95% CI_Low	r_g _95% CI_High	r_g _SE	Sample size	n_exposed	Number of outcome cases in the exposed group
Myocardial infarction	Autism	2DR	Any 2DR	1.00	0.93	1.07	0.03	0.00	-0.08	0.09	0.04	4031098	139577	938
Heart failure	Autism	2DR	Any 2DR	1.04	0.94	1.14	0.05	0.04	-0.07	0.14	0.05	4031098	139577	527
ADHD	Autism	2DR	Any 2DR	1.37	1.34	1.40	0.02	0.55	0.51	0.60	0.02	4031098	139577	8910
ADHD	Type-2 diabetes	2DR	Any 2DR	0.97	0.95	0.98	0.01	-0.06	-0.04	-0.09	-0.01	4031098	313462	23597
ADHD	Hypertension	2DR	Any 2DR	1.03	1.03	1.04	0.00	0.16	0.12	0.21	0.02	4031098	1476468	114026
ADHD	Dyslipidemia	2DR	Any 2DR	1.04	1.03	1.05	0.01	0.08	0.06	0.11	0.01	4031098	576573	50687
ADHD	Stroke	2DR	Any 2DR	1.07	1.05	1.09	0.01	0.19	0.13	0.25	0.03	4031098	125958	10897
ADHD	Angina pectoris	2DR	Any 2DR	1.06	1.04	1.09	0.01	0.11	0.07	0.16	0.02	4031098	104454	9318
ADHD	Myocardial infarction	2DR	Any 2DR	1.07	1.04	1.11	0.02	0.12	0.06	0.17	0.03	4031098	53897	5011
ADHD	Heart failure	2DR	Any 2DR	1.08	1.04	1.12	0.02	0.11	0.05	0.17	0.03	4031098	29897	2674
Autism	Type-2 diabetes	2DR	Any 2DR	0.98	0.95	1.01	0.01	-0.03	0.02	-0.07	-0.02	4031098	313462	5177
Autism	Hypertension	2DR	Any 2DR	1.02	1.00	1.03	0.01	0.07	0.00	0.13	0.03	4031098	1476468	24310
Autism	Dyslipidemia	2DR	Any 2DR	1.00	0.98	1.02	0.01	0.00	-0.04	0.04	0.02	4031098	576573	10846
Autism	Stroke	2DR	Any 2DR	1.08	1.04	1.13	0.02	0.16	0.07	0.25	0.05	4031098	125958	2419
Autism	Angina pectoris	2DR	Any 2DR	0.98	0.93	1.03	0.03	-0.03	0.04	-0.10	-0.04	4031098	104454	1920
Autism	Myocardial infarction	2DR	Any 2DR	0.96	0.89	1.03	0.03	-0.05	0.04	-0.14	-0.04	4031098	53897	1000
Autism	Heart failure	2DR	Any 2DR	1.03	0.95	1.12	0.04	0.04	-0.05	0.13	0.05	4031098	29897	570
Autism	ADHD	2DR	Aunt/Uncle	1.42	1.37	1.46	0.02	0.64	0.57	0.71	0.04	2405855	134125	4117
Type-2 diabetes	ADHD	2DR	Aunt/Uncle	0.94	0.89	0.98	0.02	-0.13	-0.03	-0.22	-0.05	2405855	134125	1804
Hypertension	ADHD	2DR	Aunt/Uncle	1.06	1.04	1.07	0.01	0.28	0.20	0.37	0.04	2405855	134125	14342
Dyslipidemia	ADHD	2DR	Aunt/Uncle	1.00	0.94	1.06	0.03	0.00	-0.12	0.13	0.06	2405855	134125	1121
Stroke	ADHD	2DR	Aunt/Uncle	1.05	0.95	1.15	0.05	0.12	-0.11	0.36	0.12	2405855	134125	504
Angina pectoris	ADHD	2DR	Aunt/Uncle	0.95	0.76	1.14	0.10	-0.10	0.30	-0.49	-0.20	2405855	134125	102
Myocardial infarction	ADHD	2DR	Aunt/Uncle	1.02	0.74	1.30	0.14	0.03	-0.45	0.52	0.25	2405855	134125	53
Heart failure	ADHD	2DR	Aunt/Uncle	1.04	0.81	1.27	0.12	0.06	-0.24	0.36	0.15	2405855	134125	88
Type-2 diabetes	Autism	2DR	Aunt/Uncle	0.92	0.82	1.02	0.05	-0.13	0.05	-0.31	-0.09	2405855	26868	331
Hypertension	Autism	2DR	Aunt/Uncle	1.00	0.96	1.03	0.02	-0.01	0.14	-0.16	-0.08	2405855	26868	2620
Dyslipidemia	Autism	2DR	Aunt/Uncle	0.96	0.82	1.10	0.07	-0.07	0.17	-0.30	-0.12	2405855	26868	197

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Stroke	Autism	2DR	Aunt/Uncle	0.99	0.78	1.21	0.11	-0.01	0.42	-0.44	-0.22	2405855	26868	94
Angina pectoris	Autism	2DR	Aunt/Uncle	0.66	0.29	1.03	0.19	-0.63	0.22	-1.47	-0.43	2405855	26868	13
Myocardial infarction	Autism	2DR	Aunt/Uncle	1.04	0.38	1.69	0.33	0.05	-0.82	0.92	0.44	2405855	26868	11
Heart failure	Autism	2DR	Aunt/Uncle	0.94	0.40	1.49	0.28	-0.06	0.55	-0.67	-0.31	2405855	26868	13
ADHD	Autism	2DR	Aunt/Uncle	1.31	1.27	1.35	0.02	0.49	0.42	0.55	0.03	2405855	26868	3535
ADHD	Type-2 diabetes	2DR	Aunt/Uncle	0.98	0.97	1.00	0.01	-0.03	0.00	-0.06	-0.01	2405855	229609	20711
ADHD	Hypertension	2DR	Aunt/Uncle	1.04	1.03	1.04	0.00	0.18	0.14	0.23	0.02	2405855	1032238	98309
ADHD	Dyslipidemia	2DR	Aunt/Uncle	1.04	1.04	1.05	0.01	0.09	0.07	0.11	0.01	2405855	521085	48483
ADHD	Stroke	2DR	Aunt/Uncle	1.08	1.06	1.10	0.01	0.19	0.13	0.25	0.03	2405855	102054	9941
ADHD	Angina pectoris	2DR	Aunt/Uncle	1.06	1.04	1.08	0.01	0.11	0.06	0.15	0.02	2405855	97261	8990
ADHD	Myocardial infarction	2DR	Aunt/Uncle	1.08	1.05	1.11	0.01	0.14	0.08	0.20	0.03	2405855	50029	4830
ADHD	Heart failure	2DR	Aunt/Uncle	1.09	1.05	1.13	0.02	0.12	0.06	0.17	0.03	2405855	25416	2484
Autism	Type-2 diabetes	2DR	Aunt/Uncle	1.01	0.97	1.04	0.02	0.01	-0.04	0.06	0.03	2405855	229609	4617
Autism	Hypertension	2DR	Aunt/Uncle	1.03	1.02	1.05	0.01	0.13	0.06	0.21	0.04	2405855	1032238	21425
Autism	Dyslipidemia	2DR	Aunt/Uncle	1.03	1.01	1.06	0.01	0.06	0.02	0.09	0.02	2405855	521085	10451
Autism	Stroke	2DR	Aunt/Uncle	1.11	1.06	1.16	0.02	0.21	0.12	0.30	0.05	2405855	102054	2240
Autism	Angina pectoris	2DR	Aunt/Uncle	1.01	0.96	1.06	0.02	0.02	-0.06	0.09	0.04	2405855	97261	1863
Autism	Myocardial infarction	2DR	Aunt/Uncle	1.00	0.93	1.06	0.03	-0.01	0.08	-0.10	-0.05	2405855	50029	967
Autism	Heart failure	2DR	Aunt/Uncle	1.09	1.00	1.18	0.05	0.09	0.00	0.18	0.05	2405855	25416	540
Autism	ADHD	2DR	Uncle	1.39	1.33	1.45	0.03	0.60	0.52	0.69	0.04	1666821	74514	2236
Type-2 diabetes	ADHD	2DR	Uncle	0.91	0.85	0.97	0.03	-0.20	-0.07	-0.33	-0.07	1666821	74514	968
Hypertension	ADHD	2DR	Uncle	1.05	1.03	1.07	0.01	0.24	0.13	0.34	0.05	1666821	74514	7842
Dyslipidemia	ADHD	2DR	Uncle	0.98	0.90	1.06	0.04	-0.04	0.13	-0.21	-0.09	1666821	74514	601
Stroke	ADHD	2DR	Uncle	1.03	0.90	1.16	0.07	0.08	-0.29	0.45	0.19	1666821	74514	262
Angina pectoris	ADHD	2DR	Uncle	0.96	0.70	1.22	0.13	-0.09	0.46	-0.64	-0.28	1666821	74514	55
Myocardial infarction	ADHD	2DR	Uncle	0.86	0.51	1.20	0.18	-0.25	0.40	-0.90	-0.33	1666821	74514	24
Heart failure	ADHD	2DR	Uncle	1.14	0.82	1.45	0.16	0.17	-0.20	0.55	0.19	1666821	74514	54
Type-2 diabetes	Autism	2DR	Uncle	0.92	0.80	1.04	0.06	-0.13	0.08	-0.33	-0.11	1666821	19005	239

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Hypertension	Autism	2DR	Uncle	1.00	0.96	1.04	0.02	0.00	-0.16	0.17	0.08	1666821	19005	1850
Dyslipidemia	Autism	2DR	Uncle	0.92	0.76	1.08	0.08	-0.14	0.14	-0.41	-0.14	1666821	19005	132
Stroke	Autism	2DR	Uncle	1.03	0.78	1.29	0.13	0.07	-0.49	0.64	0.29	1666821	19005	66
ADHD	Autism	2DR	Uncle	1.31	1.26	1.36	0.03	0.49	0.41	0.56	0.04	1666821	19005	2450
ADHD	Type-2 diabetes	2DR	Uncle	0.99	0.97	1.01	0.01	-0.02	0.02	-0.06	-0.02	1666821	125132	11059
ADHD	Hypertension	2DR	Uncle	1.04	1.03	1.05	0.01	0.20	0.15	0.26	0.03	1666821	500255	47110
ADHD	Dyslipidemia	2DR	Uncle	1.03	1.02	1.04	0.01	0.06	0.03	0.09	0.01	1666821	330582	30089
ADHD	Stroke	2DR	Uncle	1.08	1.05	1.11	0.01	0.22	0.12	0.32	0.05	1666821	49299	4769
ADHD	Angina pectoris	2DR	Uncle	1.04	1.01	1.07	0.01	0.08	0.02	0.14	0.03	1666821	59212	5361
ADHD	Myocardial infarction	2DR	Uncle	1.06	1.02	1.09	0.02	0.09	0.03	0.15	0.03	1666821	37067	3467
ADHD	Heart failure	2DR	Uncle	1.06	1.01	1.11	0.03	0.08	0.01	0.15	0.04	1666821	14082	1320
Autism	Type-2 diabetes	2DR	Uncle	1.03	0.99	1.07	0.02	0.05	-0.02	0.12	0.03	1666821	125132	2521
Autism	Hypertension	2DR	Uncle	1.05	1.03	1.07	0.01	0.18	0.09	0.27	0.05	1666821	500255	10422
Autism	Dyslipidemia	2DR	Uncle	1.02	0.99	1.04	0.01	0.03	-0.02	0.07	0.02	1666821	330582	6512
Autism	Stroke	2DR	Uncle	1.11	1.04	1.18	0.03	0.24	0.08	0.39	0.08	1666821	49299	1078
Autism	Angina pectoris	2DR	Uncle	1.01	0.95	1.07	0.03	0.01	-0.08	0.11	0.05	1666821	59212	1134
Autism	Myocardial infarction	2DR	Uncle	0.98	0.91	1.06	0.04	-0.02	0.08	-0.11	-0.05	1666821	37067	709
Autism	Heart failure	2DR	Uncle	1.10	0.98	1.22	0.06	0.10	-0.02	0.22	0.06	1666821	14082	301
Autism	ADHD	2DR	Aunt	1.51	1.44	1.58	0.04	0.70	0.61	0.80	0.05	1675147	63810	2063
Type-2 diabetes	ADHD	2DR	Aunt	0.96	0.90	1.03	0.03	-0.07	0.05	-0.18	-0.06	1675147	63810	896
Hypertension	ADHD	2DR	Aunt	1.07	1.04	1.09	0.01	0.30	0.19	0.41	0.06	1675147	63810	6901
Dyslipidemia	ADHD	2DR	Aunt	1.03	0.94	1.12	0.04	0.05	-0.10	0.20	0.08	1675147	63810	549
Stroke	ADHD	2DR	Aunt	1.10	0.96	1.24	0.07	0.21	-0.07	0.48	0.14	1675147	63810	256
Angina pectoris	ADHD	2DR	Aunt	0.97	0.70	1.25	0.14	-0.04	0.44	-0.52	-0.24	1675147	63810	50
Myocardial infarction	ADHD	2DR	Aunt	1.19	0.75	1.63	0.22	0.34	-0.40	1.07	0.37	1675147	63810	30
Heart failure	ADHD	2DR	Aunt	0.92	0.61	1.24	0.16	-0.10	0.32	-0.52	-0.21	1675147	63810	36
Type-2 diabetes	Autism	2DR	Aunt	0.86	0.68	1.04	0.09	-0.21	0.08	-0.51	-0.15	1675147	8095	93
Hypertension	Autism	2DR	Aunt	0.99	0.92	1.05	0.03	-0.04	0.20	-0.29	-0.13	1675147	8095	797

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Dyslipidemia	Autism	2DR	Aunt	1.10	0.83	1.37	0.14	0.14	-0.21	0.48	0.18	1675147	8095	69
Stroke	Autism	2DR	Aunt	0.98	0.60	1.35	0.19	-0.04	0.61	-0.69	-0.33	1675147	8095	29
ADHD	Autism	2DR	Aunt	1.36	1.29	1.44	0.04	0.52	0.42	0.63	0.05	1675147	8095	1122
ADHD	Type-2 diabetes	2DR	Aunt	0.97	0.95	0.99	0.01	-0.05	-0.02	-0.09	-0.02	1675147	117992	10626
ADHD	Hypertension	2DR	Aunt	1.04	1.03	1.05	0.00	0.20	0.15	0.25	0.02	1675147	661580	63954
ADHD	Dyslipidemia	2DR	Aunt	1.08	1.07	1.09	0.01	0.14	0.11	0.16	0.01	1675147	229249	21857
ADHD	Stroke	2DR	Aunt	1.09	1.06	1.12	0.01	0.19	0.13	0.25	0.03	1675147	54018	5305
ADHD	Angina pectoris	2DR	Aunt	1.10	1.07	1.13	0.02	0.16	0.10	0.22	0.03	1675147	39659	3784
ADHD	Myocardial infarction	2DR	Aunt	1.20	1.14	1.25	0.03	0.35	0.15	0.55	0.10	1675147	13298	1400
ADHD	Heart failure	2DR	Aunt	1.15	1.09	1.21	0.03	0.18	0.10	0.25	0.04	1675147	11483	1179
Autism	Type-2 diabetes	2DR	Aunt	0.96	0.92	1.00	0.02	-0.06	0.00	-0.13	-0.03	1675147	117992	2273
Autism	Hypertension	2DR	Aunt	1.04	1.02	1.06	0.01	0.15	0.06	0.23	0.04	1675147	661580	13829
Autism	Dyslipidemia	2DR	Aunt	1.07	1.04	1.11	0.02	0.10	0.05	0.15	0.02	1675147	229249	4677
Autism	Stroke	2DR	Aunt	1.12	1.06	1.19	0.03	0.20	0.10	0.31	0.05	1675147	54018	1183
Autism	Angina pectoris	2DR	Aunt	1.04	0.96	1.11	0.04	0.05	-0.05	0.15	0.05	1675147	39659	762
Autism	Myocardial infarction	2DR	Aunt	1.07	0.94	1.20	0.07	0.10	-0.09	0.29	0.10	1675147	13298	269
Autism	Heart failure	2DR	Aunt	1.11	0.97	1.24	0.07	0.10	-0.03	0.23	0.07	1675147	11483	244
Autism	ADHD	2DR	Niece/Nephew	1.24	1.18	1.29	0.03	0.43	0.34	0.53	0.05	1578381	394429	2679
Type-2 diabetes	ADHD	2DR	Niece/Nephew	0.98	0.97	1.00	0.01	-0.04	0.00	-0.07	-0.02	1578381	394429	17622
Hypertension	ADHD	2DR	Niece/Nephew	1.03	1.03	1.04	0.00	0.18	0.14	0.22	0.02	1578381	394429	99254
Dyslipidemia	ADHD	2DR	Niece/Nephew	1.04	1.03	1.05	0.01	0.08	0.05	0.10	0.01	1578381	394429	43117
Stroke	ADHD	2DR	Niece/Nephew	1.06	1.04	1.09	0.01	0.19	0.10	0.28	0.05	1578381	394429	7807
Angina pectoris	ADHD	2DR	Niece/Nephew	1.06	1.03	1.09	0.01	0.11	0.05	0.17	0.03	1578381	394429	6987
Myocardial infarction	ADHD	2DR	Niece/Nephew	1.08	1.04	1.12	0.02	0.14	0.06	0.22	0.04	1578381	394429	3729
Heart failure	ADHD	2DR	Niece/Nephew	1.06	1.00	1.11	0.03	0.08	0.00	0.16	0.04	1578381	394429	1899
Type-2 diabetes	Autism	2DR	Niece/Nephew	0.98	0.95	1.01	0.01	-0.03	0.02	-0.07	-0.02	1578381	103050	4607
Hypertension	Autism	2DR	Niece/Nephew	1.03	1.02	1.04	0.01	0.14	0.09	0.19	0.03	1578381	103050	25918
Dyslipidemia	Autism	2DR	Niece/Nephew	1.02	1.00	1.03	0.01	0.02	-0.01	0.05	0.02	1578381	103050	11064

Outcome	Exposure	Type of the relation	Relation	λ	λ _95% CI_Low	λ _95% CI_High	λ _SE	r_g	r_g _95% CI_Low	r_g _95% CI_High	r_g _SE	Sample size	n_exposed	Number of outcome cases in the exposed group
Stroke	Autism	2DR	Niece/Nephew	1.08	1.04	1.13	0.02	0.19	0.08	0.30	0.06	1578381	103050	2081
Angina pectoris	Autism	2DR	Niece/Nephew	1.01	0.96	1.06	0.02	0.02	-0.06	0.09	0.04	1578381	103050	1751
Myocardial infarction	Autism	2DR	Niece/Nephew	1.00	0.93	1.07	0.03	0.00	0.09	-0.10	-0.05	1578381	103050	909
Heart failure	Autism	2DR	Niece/Nephew	1.06	0.96	1.16	0.05	0.06	-0.04	0.16	0.05	1578381	103050	498
ADHD	Autism	2DR	Niece/Nephew	1.39	1.34	1.43	0.02	0.68	0.60	0.76	0.04	1578381	103050	4073
ADHD	Type-2 diabetes	2DR	Niece/Nephew	0.89	0.85	0.93	0.02	-0.24	-0.14	-0.35	-0.05	1578381	69662	1728
ADHD	Hypertension	2DR	Niece/Nephew	1.01	0.99	1.04	0.01	0.07	-0.05	0.20	0.06	1578381	389894	10881
ADHD	Dyslipidemia	2DR	Niece/Nephew	0.96	0.89	1.03	0.03	-0.08	0.07	-0.22	-0.07	1578381	38211	988
ADHD	Stroke	2DR	Niece/Nephew	1.04	0.95	1.13	0.05	0.11	-0.16	0.39	0.14	1578381	18708	524
ADHD	Angina pectoris	2DR	Niece/Nephew	0.93	0.73	1.13	0.10	-0.14	0.28	-0.57	-0.22	1578381	4239	108
ADHD	Myocardial infarction	2DR	Niece/Nephew	0.89	0.61	1.16	0.14	-0.22	0.34	-0.78	-0.28	1578381	2194	54
ADHD	Heart failure	2DR	Niece/Nephew	1.06	0.83	1.29	0.12	0.08	-0.22	0.39	0.16	1578381	3365	93
Autism	Type-2 diabetes	2DR	Niece/Nephew	0.84	0.74	0.94	0.05	-0.27	-0.08	-0.46	-0.10	1578381	69662	296
Autism	Hypertension	2DR	Niece/Nephew	0.95	0.90	1.00	0.03	-0.19	0.03	-0.41	-0.11	1578381	389894	1947
Autism	Dyslipidemia	2DR	Niece/Nephew	1.00	0.83	1.18	0.09	0.01	-0.26	0.27	0.13	1578381	38211	171
Autism	Stroke	2DR	Niece/Nephew	1.04	0.81	1.26	0.11	0.08	-0.41	0.57	0.25	1578381	18708	93
Autism	Angina pectoris	2DR	Niece/Nephew	0.84	0.31	1.36	0.27	-0.26	0.64	-1.16	-0.46	1578381	4239	13
Autism	Myocardial infarction	2DR	Niece/Nephew	1.14	0.37	1.91	0.39	0.18	-0.76	1.13	0.48	1578381	2194	11
Autism	Heart failure	2DR	Niece/Nephew	0.76	0.31	1.21	0.23	-0.27	0.31	-0.86	-0.30	1578381	3365	13
Autism	ADHD	2DR	Nephew	1.26	1.19	1.32	0.03	0.47	0.36	0.57	0.06	1222549	284260	1958
Type-2 diabetes	ADHD	2DR	Nephew	0.99	0.97	1.01	0.01	-0.02	0.02	-0.07	-0.02	1222549	284260	12686
Hypertension	ADHD	2DR	Nephew	1.04	1.03	1.05	0.00	0.21	0.17	0.25	0.02	1222549	284260	71631
Dyslipidemia	ADHD	2DR	Nephew	1.05	1.04	1.06	0.01	0.10	0.08	0.13	0.01	1222549	284260	31164
Stroke	ADHD	2DR	Nephew	1.09	1.06	1.12	0.02	0.35	0.16	0.55	0.10	1222549	284260	5697
Angina pectoris	ADHD	2DR	Nephew	1.07	1.04	1.11	0.02	0.14	0.07	0.21	0.03	1222549	284260	5059
Myocardial infarction	ADHD	2DR	Nephew	1.08	1.04	1.13	0.02	0.15	0.06	0.24	0.05	1222549	284260	2677
Heart failure	ADHD	2DR	Nephew	1.07	1.01	1.14	0.03	0.09	0.01	0.17	0.04	1222549	284260	1364
Type-2 diabetes	Autism	2DR	Nephew	0.98	0.95	1.02	0.02	-0.03	0.03	-0.08	-0.03	1222549	74435	3304

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Hypertension	Autism	2DR	Nephew	1.04	1.02	1.05	0.01	0.13	0.08	0.19	0.03	1222549	74435	18648
Dyslipidemia	Autism	2DR	Nephew	1.02	1.00	1.05	0.01	0.03	0.00	0.07	0.02	1222549	74435	7960
Stroke	Autism	2DR	Nephew	1.10	1.04	1.16	0.03	0.29	0.09	0.49	0.10	1222549	74435	1504
Angina pectoris	Autism	2DR	Nephew	1.03	0.97	1.08	0.03	0.04	-0.05	0.12	0.04	1222549	74435	1272
Myocardial infarction	Autism	2DR	Nephew	1.03	0.95	1.11	0.04	0.04	-0.07	0.15	0.06	1222549	74435	670
Heart failure	Autism	2DR	Nephew	1.07	0.96	1.19	0.06	0.06	-0.04	0.16	0.05	1222549	74435	357
ADHD	Autism	2DR	Nephew	1.42	1.37	1.47	0.03	0.73	0.63	0.82	0.05	1222549	74435	2983
ADHD	Type-2 diabetes	2DR	Nephew	0.93	0.85	1.01	0.04	-0.15	0.02	-0.32	-0.09	1222549	22543	563
ADHD	Hypertension	2DR	Nephew	1.07	1.04	1.11	0.02	0.34	0.18	0.51	0.09	1222549	148935	4217
ADHD	Dyslipidemia	2DR	Nephew	0.94	0.85	1.03	0.05	-0.12	0.07	-0.31	-0.10	1222549	21071	518
ADHD	Stroke	2DR	Nephew	1.10	0.96	1.23	0.07	0.38	-0.15	0.91	0.27	1222549	8732	255
ADHD	Angina pectoris	2DR	Nephew	0.98	0.71	1.25	0.14	-0.04	0.49	-0.57	-0.27	1222549	2435	60
ADHD	Myocardial infarction	2DR	Nephew	0.99	0.64	1.34	0.18	-0.02	0.63	-0.67	-0.33	1222549	1575	39
ADHD	Heart failure	2DR	Nephew	1.05	0.73	1.37	0.16	0.06	-0.32	0.43	0.19	1222549	1708	44
Autism	Type-2 diabetes	2DR	Nephew	0.81	0.64	0.98	0.09	-0.32	0.00	-0.64	-0.16	1222549	22543	91
Autism	Hypertension	2DR	Nephew	1.04	0.96	1.12	0.04	0.16	-0.13	0.45	0.15	1222549	148935	783
Autism	Dyslipidemia	2DR	Nephew	0.88	0.67	1.10	0.11	-0.18	0.18	-0.54	-0.18	1222549	21071	82
Autism	Stroke	2DR	Nephew	1.06	0.74	1.38	0.16	0.17	-0.73	1.08	0.46	1222549	8732	45
Autism	ADHD	2DR	Niece	1.33	1.24	1.41	0.04	0.47	0.36	0.58	0.06	1199101	155432	1086
Type-2 diabetes	ADHD	2DR	Niece	0.95	0.93	0.98	0.01	-0.09	-0.04	-0.14	-0.03	1199101	155432	6944
Hypertension	ADHD	2DR	Niece	1.03	1.02	1.04	0.00	0.14	0.09	0.18	0.02	1199101	155432	39387
Dyslipidemia	ADHD	2DR	Niece	1.02	1.00	1.03	0.01	0.03	0.00	0.06	0.01	1199101	155432	17168
Stroke	ADHD	2DR	Niece	1.03	0.99	1.07	0.02	0.06	-0.03	0.15	0.04	1199101	155432	3036
Angina pectoris	ADHD	2DR	Niece	1.05	1.00	1.09	0.02	0.08	0.00	0.16	0.04	1199101	155432	2841
Myocardial infarction	ADHD	2DR	Niece	1.08	1.02	1.14	0.03	0.12	0.02	0.22	0.05	1199101	155432	1504
Heart failure	ADHD	2DR	Niece	1.07	0.99	1.15	0.04	0.09	-0.02	0.20	0.06	1199101	155432	775
Type-2 diabetes	Autism	2DR	Niece	0.97	0.92	1.02	0.03	-0.05	0.03	-0.12	-0.04	1199101	32568	1470
Hypertension	Autism	2DR	Niece	1.04	1.02	1.06	0.01	0.14	0.07	0.21	0.04	1199101	32568	8259

Outcome	Exposure	Type of the relation	Relation	λ	λ _95% CI_Low	λ _95% CI_High	λ _SE	r_g	r_g _95% CI_Low	r_g _95% CI_High	r_g _SE	Sample size	n_exposed	Number of outcome cases in the exposed group
Dyslipidemia	Autism	2DR	Niece	1.01	0.97	1.04	0.02	0.01	-0.04	0.05	0.02	1199101	32568	3534
Stroke	Autism	2DR	Niece	1.09	1.01	1.18	0.04	0.15	0.02	0.28	0.07	1199101	32568	670
Angina pectoris	Autism	2DR	Niece	0.98	0.90	1.07	0.04	-0.02	0.10	-0.14	-0.06	1199101	32568	556
Myocardial infarction	Autism	2DR	Niece	0.94	0.83	1.05	0.06	-0.08	0.07	-0.23	-0.08	1199101	32568	274
Heart failure	Autism	2DR	Niece	1.06	0.89	1.23	0.09	0.06	-0.11	0.23	0.09	1199101	32568	160
ADHD	Autism	2DR	Niece	1.41	1.33	1.48	0.04	0.57	0.46	0.67	0.05	1199101	32568	1267
ADHD	Type-2 diabetes	2DR	Niece	0.91	0.85	0.96	0.03	-0.18	-0.07	-0.29	-0.05	1199101	50429	1227
ADHD	Hypertension	2DR	Niece	1.03	1.01	1.06	0.01	0.15	0.03	0.27	0.06	1199101	296055	8175
ADHD	Dyslipidemia	2DR	Niece	1.03	0.93	1.12	0.05	0.05	-0.11	0.21	0.08	1199101	20546	548
ADHD	Stroke	2DR	Niece	1.03	0.91	1.16	0.06	0.07	-0.20	0.33	0.13	1199101	10271	272
ADHD	Angina pectoris	2DR	Niece	0.91	0.61	1.20	0.15	-0.18	0.41	-0.77	-0.30	1199101	1868	49
ADHD	Myocardial infarction	2DR	Niece	0.72	0.33	1.12	0.20	-0.49	0.33	-1.30	-0.42	1199101	634	15
ADHD	Heart failure	2DR	Niece	1.13	0.80	1.46	0.17	0.17	-0.25	0.58	0.21	1199101	1713	50
Autism	Type-2 diabetes	2DR	Niece	0.89	0.77	1.02	0.06	-0.16	0.04	-0.36	-0.10	1199101	50429	215
Autism	Hypertension	2DR	Niece	0.94	0.89	1.00	0.03	-0.21	0.02	-0.43	-0.12	1199101	296055	1407
Autism	Dyslipidemia	2DR	Niece	1.13	0.88	1.37	0.12	0.17	-0.14	0.47	0.16	1199101	20546	99
Autism	Stroke	2DR	Niece	1.03	0.73	1.33	0.15	0.05	-0.44	0.55	0.25	1199101	10271	48
Autism	ADHD	2DR	Half-sibling	1.37	1.29	1.46	0.04	0.51	0.41	0.62	0.05	347055	47730	1261
Type-2 diabetes	ADHD	2DR	Half-sibling	0.95	0.89	1.01	0.03	-0.09	0.02	-0.21	-0.06	347055	47730	1200
Hypertension	ADHD	2DR	Half-sibling	1.05	1.02	1.07	0.01	0.21	0.11	0.32	0.05	347055	47730	7521
Dyslipidemia	ADHD	2DR	Half-sibling	0.99	0.93	1.04	0.03	-0.02	0.08	-0.13	-0.05	347055	47730	1363
Stroke	ADHD	2DR	Half-sibling	1.03	0.92	1.14	0.06	0.09	-0.23	0.40	0.16	347055	47730	402
Angina pectoris	ADHD	2DR	Half-sibling	1.06	0.90	1.21	0.08	0.09	-0.16	0.34	0.13	347055	47730	206
Myocardial infarction	ADHD	2DR	Half-sibling	1.05	0.84	1.26	0.11	0.07	-0.24	0.39	0.16	347055	47730	112
Heart failure	ADHD	2DR	Half-sibling	1.04	0.80	1.28	0.12	0.04	-0.21	0.29	0.13	347055	47730	84
Type-2 diabetes	Autism	2DR	Half-sibling	1.05	0.92	1.17	0.06	0.06	-0.09	0.20	0.08	347055	9995	281
Hypertension	Autism	2DR	Half-sibling	1.02	0.97	1.06	0.02	0.04	-0.09	0.18	0.07	347055	9995	1562
Dyslipidemia	Autism	2DR	Half-sibling	0.95	0.84	1.06	0.06	-0.06	0.08	-0.21	-0.07	347055	9995	276

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Stroke	Autism	2DR	Half-sibling	1.05	0.83	1.28	0.12	0.10	-0.31	0.51	0.21	347055	9995	87
Angina pectoris	Autism	2DR	Half-sibling	1.11	0.77	1.44	0.17	0.11	-0.22	0.44	0.17	347055	9995	44
Myocardial infarction	Autism	2DR	Half-sibling	0.96	0.53	1.38	0.22	-0.04	0.40	-0.49	-0.23	347055	9995	20
Heart failure	Autism	2DR	Half-sibling	0.89	0.45	1.32	0.22	-0.08	0.25	-0.41	-0.17	347055	9995	17
ADHD	Autism	2DR	Half-sibling	1.39	1.32	1.46	0.04	0.53	0.44	0.63	0.05	347055	9995	1349
ADHD	Type-2 diabetes	2DR	Half-sibling	0.97	0.92	1.02	0.03	-0.06	0.05	-0.16	-0.05	347055	15622	1281
ADHD	Hypertension	2DR	Half-sibling	1.06	1.03	1.08	0.01	0.25	0.14	0.37	0.06	347055	81310	7278
ADHD	Dyslipidemia	2DR	Half-sibling	0.99	0.93	1.04	0.03	-0.02	0.09	-0.13	-0.06	347055	19160	1394
ADHD	Stroke	2DR	Half-sibling	1.08	0.98	1.17	0.05	0.22	-0.06	0.50	0.14	347055	5374	450
ADHD	Angina pectoris	2DR	Half-sibling	1.07	0.92	1.21	0.07	0.11	-0.12	0.34	0.12	347055	2963	222
ADHD	Myocardial infarction	2DR	Half-sibling	1.05	0.86	1.24	0.10	0.08	-0.21	0.37	0.15	347055	1683	128
ADHD	Heart failure	2DR	Half-sibling	1.08	0.87	1.29	0.11	0.08	-0.12	0.29	0.11	347055	1123	96
Autism	Type-2 diabetes	2DR	Half-sibling	1.07	0.95	1.20	0.07	0.09	-0.06	0.23	0.08	347055	15622	284
Autism	Hypertension	2DR	Half-sibling	1.05	0.99	1.12	0.03	0.16	-0.02	0.33	0.09	347055	81310	1442
Autism	Dyslipidemia	2DR	Half-sibling	0.94	0.82	1.07	0.06	-0.07	0.09	-0.24	-0.09	347055	19160	267
Autism	Stroke	2DR	Half-sibling	1.06	0.83	1.29	0.12	0.11	-0.29	0.52	0.21	347055	5374	88
Autism	Angina pectoris	2DR	Half-sibling	1.09	0.74	1.44	0.18	0.09	-0.26	0.44	0.18	347055	2963	45
Autism	Myocardial infarction	2DR	Half-sibling	0.78	0.43	1.13	0.18	-0.25	0.20	-0.69	-0.23	347055	1683	22
Autism	Heart failure	2DR	Half-sibling	1.07	0.56	1.58	0.26	0.05	-0.27	0.37	0.16	347055	1123	17
Autism	ADHD	2DR	Half-brother	1.33	1.22	1.43	0.05	0.47	0.33	0.60	0.07	214824	29990	760
Type-2 diabetes	ADHD	2DR	Half-brother	0.97	0.90	1.04	0.04	-0.06	0.09	-0.21	-0.08	214824	29990	759
Hypertension	ADHD	2DR	Half-brother	1.06	1.03	1.09	0.01	0.25	0.12	0.37	0.06	214824	29990	4696
Dyslipidemia	ADHD	2DR	Half-brother	0.99	0.92	1.06	0.04	-0.03	0.12	-0.17	-0.07	214824	29990	808
Stroke	ADHD	2DR	Half-brother	1.08	0.94	1.23	0.07	0.20	-0.14	0.55	0.18	214824	29990	258
Angina pectoris	ADHD	2DR	Half-brother	1.01	0.81	1.20	0.10	0.01	-0.33	0.35	0.17	214824	29990	114
Myocardial infarction	ADHD	2DR	Half-brother	1.03	0.76	1.30	0.14	0.05	-0.38	0.48	0.22	214824	29990	64
Heart failure	ADHD	2DR	Half-brother	1.08	0.77	1.40	0.16	0.07	-0.20	0.35	0.14	214824	29990	54
Type-2 diabetes	Autism	2DR	Half-brother	1.05	0.90	1.20	0.08	0.06	-0.12	0.24	0.09	214824	7047	194

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Hypertension	Autism	2DR	Half-brother	1.04	0.98	1.09	0.03	0.10	-0.06	0.25	0.08	214824	7047	1104
Dyslipidemia	Autism	2DR	Half-brother	0.97	0.83	1.11	0.07	-0.04	0.14	-0.22	-0.09	214824	7047	187
Stroke	Autism	2DR	Half-brother	1.18	0.88	1.48	0.15	0.26	-0.15	0.68	0.21	214824	7047	66
Angina pectoris	Autism	2DR	Half-brother	1.01	0.61	1.41	0.20	0.01	-0.42	0.44	0.22	214824	7047	26
Myocardial infarction	Autism	2DR	Half-brother	1.12	0.55	1.70	0.29	0.12	-0.41	0.65	0.27	214824	7047	15
Heart failure	Autism	2DR	Half-brother	1.28	0.62	1.94	0.34	0.14	-0.16	0.45	0.15	214824	7047	16
ADHD	Autism	2DR	Half-brother	1.37	1.29	1.46	0.04	0.53	0.41	0.64	0.06	214824	7047	951
ADHD	Type-2 diabetes	2DR	Half-brother	0.93	0.84	1.02	0.05	-0.14	0.04	-0.32	-0.09	214824	5592	410
ADHD	Hypertension	2DR	Half-brother	1.07	1.03	1.11	0.02	0.29	0.11	0.48	0.09	214824	28431	2456
ADHD	Dyslipidemia	2DR	Half-brother	0.94	0.86	1.01	0.04	-0.13	0.03	-0.29	-0.08	214824	10555	705
ADHD	Stroke	2DR	Half-brother	0.96	0.82	1.11	0.07	-0.09	0.27	-0.45	-0.19	214824	2260	165
ADHD	Angina pectoris	2DR	Half-brother	1.06	0.86	1.26	0.10	0.10	-0.23	0.43	0.17	214824	1611	112
ADHD	Myocardial infarction	2DR	Half-brother	0.99	0.76	1.22	0.12	-0.02	0.35	-0.39	-0.19	214824	1131	77
ADHD	Heart failure	2DR	Half-brother	1.00	0.71	1.29	0.15	0.00	0.26	-0.26	-0.13	214824	580	45
Autism	Type-2 diabetes	2DR	Half-brother	1.10	0.87	1.32	0.12	0.11	-0.14	0.36	0.13	214824	5592	96
Autism	Hypertension	2DR	Half-brother	1.10	0.99	1.20	0.05	0.25	-0.01	0.52	0.14	214824	28431	492
Autism	Dyslipidemia	2DR	Half-brother	0.87	0.71	1.04	0.08	-0.17	0.07	-0.41	-0.12	214824	10555	133
Autism	Stroke	2DR	Half-brother	0.94	0.62	1.27	0.17	-0.09	0.45	-0.62	-0.27	214824	2260	33
Autism	Angina pectoris	2DR	Half-brother	1.29	0.75	1.83	0.27	0.28	-0.19	0.75	0.24	214824	1611	27
Autism	Myocardial infarction	2DR	Half-brother	0.57	0.21	0.93	0.18	-0.53	0.09	-1.16	-0.32	214824	1131	11
Autism	ADHD	2DR	Half-sister	1.45	1.33	1.58	0.07	0.55	0.41	0.69	0.07	222975	19826	563
Type-2 diabetes	ADHD	2DR	Half-sister	0.93	0.85	1.02	0.04	-0.13	0.04	-0.29	-0.08	222975	19826	506
Hypertension	ADHD	2DR	Half-sister	1.05	1.01	1.08	0.02	0.20	0.05	0.34	0.08	222975	19826	3176
Dyslipidemia	ADHD	2DR	Half-sister	1.03	0.95	1.11	0.04	0.05	-0.09	0.19	0.07	222975	19826	637
Stroke	ADHD	2DR	Half-sister	1.03	0.87	1.19	0.08	0.11	-0.40	0.62	0.26	222975	19826	175
Angina pectoris	ADHD	2DR	Half-sister	1.17	0.93	1.41	0.12	0.26	-0.08	0.59	0.17	222975	19826	103
Myocardial infarction	ADHD	2DR	Half-sister	1.18	0.86	1.50	0.16	0.24	-0.17	0.65	0.21	222975	19826	57
Heart failure	ADHD	2DR	Half-sister	1.02	0.67	1.37	0.18	0.02	-0.36	0.40	0.19	222975	19826	35

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Type-2 diabetes	Autism	2DR	Half-sister	1.05	0.84	1.26	0.11	0.06	-0.19	0.31	0.13	222975	3118	93
Hypertension	Autism	2DR	Half-sister	0.99	0.91	1.07	0.04	-0.02	0.21	-0.25	-0.12	222975	3118	489
Dyslipidemia	Autism	2DR	Half-sister	0.96	0.77	1.14	0.10	-0.05	0.18	-0.28	-0.12	222975	3118	95
Stroke	Autism	2DR	Half-sister	0.74	0.42	1.06	0.16	-0.61	0.39	-1.61	-0.51	222975	3118	21
Angina pectoris	Autism	2DR	Half-sister	1.46	0.81	2.10	0.33	0.41	-0.09	0.91	0.25	222975	3118	20
ADHD	Autism	2DR	Half-sister	1.45	1.32	1.58	0.07	0.55	0.41	0.69	0.07	222975	3118	423
ADHD	Type-2 diabetes	2DR	Half-sister	0.98	0.92	1.05	0.03	-0.03	0.09	-0.15	-0.06	222975	10356	890
ADHD	Hypertension	2DR	Half-sister	1.05	1.02	1.08	0.02	0.22	0.09	0.36	0.07	222975	57475	5215
ADHD	Dyslipidemia	2DR	Half-sister	1.07	0.99	1.15	0.04	0.12	-0.01	0.26	0.07	222975	9362	746
ADHD	Stroke	2DR	Half-sister	1.16	1.03	1.29	0.07	0.50	-0.04	1.03	0.27	222975	3153	288
ADHD	Angina pectoris	2DR	Half-sister	1.15	0.94	1.36	0.11	0.23	-0.09	0.54	0.16	222975	1393	117
ADHD	Myocardial infarction	2DR	Half-sister	1.25	0.90	1.60	0.18	0.33	-0.12	0.78	0.23	222975	561	52
ADHD	Heart failure	2DR	Half-sister	1.14	0.84	1.43	0.15	0.14	-0.15	0.43	0.15	222975	552	51
Autism	Type-2 diabetes	2DR	Half-sister	1.04	0.89	1.19	0.08	0.05	-0.13	0.22	0.09	222975	10356	191
Autism	Hypertension	2DR	Half-sister	1.03	0.96	1.10	0.04	0.09	-0.11	0.29	0.10	222975	57475	1030
Autism	Dyslipidemia	2DR	Half-sister	1.02	0.84	1.21	0.09	0.03	-0.18	0.24	0.11	222975	9362	143
Autism	Stroke	2DR	Half-sister	1.13	0.82	1.43	0.16	0.26	-0.36	0.87	0.31	222975	3153	55
Autism	Angina pectoris	2DR	Half-sister	1.01	0.53	1.48	0.24	0.01	-0.49	0.50	0.25	222975	1393	20
Autism	Myocardial infarction	2DR	Half-sister	1.25	0.49	2.01	0.39	0.22	-0.38	0.81	0.31	222975	561	12
Autism	Heart failure	2DR	Half-sister	1.41	0.63	2.18	0.40	0.25	-0.16	0.67	0.21	222975	552	12
Autism	ADHD	3DR	Cousin	1.13	1.11	1.14	0.01	0.51	0.43	0.58	0.04	5407516	1862640	30116
Type-2 diabetes	ADHD	3DR	Cousin	1.00	0.98	1.01	0.01	-0.02	0.04	-0.08	-0.03	5407516	1862640	39431
Hypertension	ADHD	3DR	Cousin	1.01	1.01	1.02	0.00	0.15	0.09	0.21	0.03	5407516	1862640	263167
Dyslipidemia	ADHD	3DR	Cousin	1.02	1.01	1.03	0.01	0.09	0.04	0.14	0.03	5407516	1862640	51588
Stroke	ADHD	3DR	Cousin	1.03	1.01	1.05	0.01	0.21	0.06	0.35	0.07	5407516	1862640	13435
Angina pectoris	ADHD	3DR	Cousin	1.03	1.00	1.06	0.01	0.10	-0.01	0.22	0.06	5407516	1862640	6595
Myocardial infarction	ADHD	3DR	Cousin	1.02	0.98	1.06	0.02	0.10	-0.09	0.30	0.10	5407516	1862640	3578
Heart failure	ADHD	3DR	Cousin	1.01	0.97	1.06	0.02	0.04	-0.10	0.17	0.07	5407516	1862640	2939

Outcome	Exposure	Type of the relation	Relation	λ	λ _95% CI_Low	λ _95% CI_High	λ _SE	r_g	r_g _95% CI_Low	r_g _95% CI_High	r_g _SE	Sample size	n_exposed	Number of outcome cases in the exposed group
Type-2 diabetes	Autism	3DR	Cousin	0.99	0.97	1.01	0.01	-0.02	0.05	-0.09	-0.03	5407516	525644	11063
Hypertension	Autism	3DR	Cousin	1.00	0.99	1.00	0.00	-0.03	0.03	-0.10	-0.03	5407516	525644	72742
Dyslipidemia	Autism	3DR	Cousin	0.99	0.97	1.01	0.01	-0.04	0.02	-0.10	-0.03	5407516	525644	13745
Stroke	Autism	3DR	Cousin	1.01	0.97	1.04	0.02	0.03	-0.13	0.20	0.08	5407516	525644	3648
Angina pectoris	Autism	3DR	Cousin	1.01	0.96	1.07	0.03	0.04	-0.10	0.18	0.07	5407516	525644	1759
Myocardial infarction	Autism	3DR	Cousin	1.00	0.93	1.07	0.03	0.00	0.23	-0.23	-0.12	5407516	525644	933
Heart failure	Autism	3DR	Cousin	1.00	0.93	1.08	0.04	0.00	-0.15	0.15	0.08	5407516	525644	812
ADHD	Autism	3DR	Cousin	1.16	1.15	1.17	0.01	0.62	0.56	0.67	0.03	5407516	525644	41311
ADHD	Type-2 diabetes	3DR	Cousin	0.98	0.97	0.99	0.00	-0.10	-0.05	-0.15	-0.03	5407516	898509	47940
ADHD	Hypertension	3DR	Cousin	1.00	1.00	1.01	0.00	0.04	-0.04	0.12	0.04	5407516	3268081	190629
ADHD	Dyslipidemia	3DR	Cousin	1.01	1.00	1.02	0.01	0.04	-0.01	0.10	0.03	5407516	1109976	51555
ADHD	Stroke	3DR	Cousin	1.00	0.98	1.02	0.01	0.00	0.11	-0.11	-0.06	5407516	359991	17888
ADHD	Angina pectoris	3DR	Cousin	1.03	1.00	1.06	0.01	0.11	0.00	0.22	0.06	5407516	197420	8668
ADHD	Myocardial infarction	3DR	Cousin	1.00	0.96	1.04	0.02	0.02	-0.17	0.20	0.09	5407516	111692	4825
ADHD	Heart failure	3DR	Cousin	0.99	0.96	1.03	0.02	-0.03	0.08	-0.13	-0.05	5407516	85602	4071
Autism	Type-2 diabetes	3DR	Cousin	0.98	0.96	1.01	0.01	-0.05	0.03	-0.13	-0.04	5407516	898509	10147
Autism	Hypertension	3DR	Cousin	1.00	0.99	1.01	0.01	0.01	-0.11	0.14	0.06	5407516	3268081	40357
Autism	Dyslipidemia	3DR	Cousin	1.01	0.99	1.04	0.01	0.04	-0.05	0.12	0.04	5407516	1109976	10759
Autism	Stroke	3DR	Cousin	0.99	0.96	1.03	0.02	-0.03	0.15	-0.20	-0.09	5407516	359991	3763
Autism	Angina pectoris	3DR	Cousin	1.04	0.97	1.11	0.03	0.10	-0.08	0.28	0.09	5407516	197420	1790
Autism	Myocardial infarction	3DR	Cousin	0.95	0.86	1.03	0.04	-0.18	0.12	-0.47	-0.15	5407516	111692	969
Autism	Heart failure	3DR	Cousin	1.02	0.94	1.11	0.04	0.05	-0.11	0.21	0.08	5407516	85602	873
Autism	ADHD	3DR	Cousin-female	1.20	1.17	1.22	0.01	0.59	0.52	0.67	0.04	5013576	894554	14682
Type-2 diabetes	ADHD	3DR	Cousin-female	1.00	0.99	1.02	0.01	0.02	-0.05	0.08	0.03	5013576	894554	19431
Hypertension	ADHD	3DR	Cousin-female	1.02	1.02	1.03	0.00	0.18	0.12	0.23	0.03	5013576	894554	128742
Dyslipidemia	ADHD	3DR	Cousin-female	1.03	1.02	1.04	0.01	0.09	0.05	0.14	0.02	5013576	894554	25814
Stroke	ADHD	3DR	Cousin-female	1.04	1.01	1.06	0.01	0.17	0.03	0.31	0.07	5013576	894554	6616
Angina pectoris	ADHD	3DR	Cousin-female	1.02	0.99	1.06	0.02	0.07	-0.05	0.20	0.06	5013576	894554	3286

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Myocardial infarction	ADHD	3DR	Cousin-female	1.02	0.97	1.07	0.03	0.07	-0.10	0.24	0.09	5013576	894554	1788
Heart failure	ADHD	3DR	Cousin-female	1.03	0.97	1.08	0.03	0.05	-0.07	0.18	0.06	5013576	894554	1485
Type-2 diabetes	Autism	3DR	Cousin-female	1.00	0.96	1.03	0.02	-0.01	0.09	-0.11	-0.05	5013576	177554	3711
Hypertension	Autism	3DR	Cousin-female	1.00	0.99	1.01	0.01	-0.01	0.07	-0.09	-0.04	5013576	177554	24401
Dyslipidemia	Autism	3DR	Cousin-female	1.01	0.98	1.03	0.01	0.01	-0.06	0.09	0.04	5013576	177554	4638
Stroke	Autism	3DR	Cousin-female	0.99	0.93	1.05	0.03	-0.04	0.18	-0.26	-0.11	5013576	177554	1197
Angina pectoris	Autism	3DR	Cousin-female	0.98	0.90	1.07	0.04	-0.05	0.16	-0.25	-0.11	5013576	177554	556
Myocardial infarction	Autism	3DR	Cousin-female	0.94	0.83	1.06	0.06	-0.14	0.16	-0.43	-0.15	5013576	177554	287
Heart failure	Autism	3DR	Cousin-female	1.07	0.94	1.20	0.07	0.11	-0.09	0.30	0.10	5013576	177554	293
ADHD	Autism	3DR	Cousin-female	1.18	1.16	1.20	0.01	0.56	0.49	0.62	0.03	5013576	177554	14037
ADHD	Type-2 diabetes	3DR	Cousin-female	0.99	0.98	1.00	0.01	-0.04	0.01	-0.09	-0.02	5013576	605799	33343
ADHD	Hypertension	3DR	Cousin-female	1.01	1.01	1.02	0.00	0.12	0.06	0.19	0.03	5013576	2650191	153915
ADHD	Dyslipidemia	3DR	Cousin-female	1.03	1.02	1.05	0.01	0.11	0.06	0.16	0.03	5013576	553026	26007
ADHD	Stroke	3DR	Cousin-female	1.01	0.99	1.03	0.01	0.05	-0.05	0.16	0.05	5013576	199322	9919
ADHD	Angina pectoris	3DR	Cousin-female	1.07	1.02	1.11	0.02	0.21	0.07	0.34	0.07	5013576	83681	3765
ADHD	Myocardial infarction	3DR	Cousin-female	1.03	0.96	1.11	0.04	0.10	-0.13	0.33	0.12	5013576	32128	1409
ADHD	Heart failure	3DR	Cousin-female	1.00	0.95	1.05	0.03	-0.01	0.10	-0.11	-0.05	5013576	41557	1989
Autism	Type-2 diabetes	3DR	Cousin-female	0.99	0.97	1.02	0.01	-0.02	0.06	-0.09	-0.04	5013576	605799	7042
Autism	Hypertension	3DR	Cousin-female	1.01	0.99	1.02	0.01	0.05	-0.05	0.16	0.05	5013576	2650191	32413
Autism	Dyslipidemia	3DR	Cousin-female	1.03	1.00	1.07	0.02	0.08	-0.01	0.17	0.05	5013576	553026	5427
Autism	Stroke	3DR	Cousin-female	1.01	0.96	1.06	0.03	0.03	-0.16	0.21	0.09	5013576	199322	2074
Autism	Angina pectoris	3DR	Cousin-female	1.12	1.02	1.23	0.05	0.28	0.05	0.51	0.12	5013576	83681	788
Autism	Myocardial infarction	3DR	Cousin-female	1.04	0.86	1.21	0.09	0.08	-0.32	0.49	0.21	5013576	32128	275
Autism	Heart failure	3DR	Cousin-female	0.99	0.87	1.10	0.06	-0.02	0.16	-0.20	-0.09	5013576	41557	410
Autism	ADHD	3DR	Cousin-male	1.15	1.13	1.17	0.01	0.54	0.46	0.61	0.04	5026811	1316473	21878
Type-2 diabetes	ADHD	3DR	Cousin-male	1.00	0.99	1.01	0.01	0.00	-0.06	0.06	0.03	5026811	1316473	27304
Hypertension	ADHD	3DR	Cousin-male	1.02	1.01	1.02	0.00	0.15	0.11	0.20	0.02	5026811	1316473	182744
Dyslipidemia	ADHD	3DR	Cousin-male	1.03	1.02	1.04	0.01	0.11	0.06	0.16	0.03	5026811	1316473	34244

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Stroke	ADHD	3DR	Cousin-male	1.04	1.01	1.06	0.01	0.18	0.05	0.32	0.07	5026811	1316473	9129
Angina pectoris	ADHD	3DR	Cousin-male	1.05	1.01	1.08	0.02	0.17	0.04	0.29	0.06	5026811	1316473	4355
Myocardial infarction	ADHD	3DR	Cousin-male	1.03	0.98	1.07	0.02	0.12	-0.11	0.35	0.12	5026811	1316473	2332
Heart failure	ADHD	3DR	Cousin-male	1.02	0.97	1.07	0.03	0.05	-0.10	0.19	0.07	5026811	1316473	1964
Type-2 diabetes	Autism	3DR	Cousin-male	1.00	0.97	1.02	0.01	-0.01	0.06	-0.08	-0.04	5026811	376408	7917
Hypertension	Autism	3DR	Cousin-male	1.00	0.99	1.01	0.00	0.01	-0.05	0.06	0.03	5026811	376408	52011
Dyslipidemia	Autism	3DR	Cousin-male	0.99	0.97	1.01	0.01	-0.03	0.04	-0.09	-0.03	5026811	376408	9711
Stroke	Autism	3DR	Cousin-male	1.02	0.98	1.06	0.02	0.07	-0.09	0.23	0.08	5026811	376408	2619
Angina pectoris	Autism	3DR	Cousin-male	1.04	0.98	1.10	0.03	0.11	-0.05	0.26	0.08	5026811	376408	1271
Myocardial infarction	Autism	3DR	Cousin-male	1.04	0.96	1.13	0.04	0.15	-0.13	0.43	0.14	5026811	376408	688
Heart failure	Autism	3DR	Cousin-male	0.97	0.89	1.06	0.04	-0.05	0.13	-0.23	-0.09	5026811	376408	552
ADHD	Autism	3DR	Cousin-male	1.18	1.17	1.20	0.01	0.64	0.58	0.70	0.03	5026811	376408	29872
ADHD	Type-2 diabetes	3DR	Cousin-male	0.99	0.97	1.00	0.01	-0.05	0.01	-0.11	-0.03	5026811	383246	18689
ADHD	Hypertension	3DR	Cousin-male	1.02	1.01	1.02	0.00	0.12	0.05	0.19	0.04	5026811	1747025	95236
ADHD	Dyslipidemia	3DR	Cousin-male	1.02	1.01	1.04	0.01	0.10	0.04	0.16	0.03	5026811	748749	33826
ADHD	Stroke	3DR	Cousin-male	1.02	0.99	1.04	0.01	0.08	-0.04	0.20	0.06	5026811	175969	8629
ADHD	Angina pectoris	3DR	Cousin-male	1.03	0.99	1.06	0.02	0.09	-0.04	0.22	0.07	5026811	121151	5207
ADHD	Myocardial infarction	3DR	Cousin-male	1.01	0.97	1.06	0.02	0.06	-0.15	0.27	0.11	5026811	81399	3499
ADHD	Heart failure	3DR	Cousin-male	1.01	0.96	1.06	0.02	0.03	-0.10	0.15	0.07	5026811	45935	2161
Autism	Type-2 diabetes	3DR	Cousin-male	1.00	0.96	1.04	0.02	0.00	-0.10	0.10	0.05	5026811	383246	3981
Autism	Hypertension	3DR	Cousin-male	1.01	1.00	1.03	0.01	0.08	-0.04	0.19	0.06	5026811	1747025	20177
Autism	Dyslipidemia	3DR	Cousin-male	1.03	0.99	1.06	0.02	0.08	-0.02	0.17	0.05	5026811	748749	7025
Autism	Stroke	3DR	Cousin-male	1.01	0.96	1.07	0.03	0.05	-0.15	0.26	0.10	5026811	175969	1826
Autism	Angina pectoris	3DR	Cousin-male	0.99	0.91	1.08	0.04	-0.02	0.20	-0.24	-0.11	5026811	121151	1064
Autism	Myocardial infarction	3DR	Cousin-male	0.95	0.85	1.05	0.05	-0.17	0.19	-0.53	-0.18	5026811	81399	716
Autism	Heart failure	3DR	Cousin-male	1.09	0.97	1.20	0.06	0.16	-0.05	0.38	0.11	5026811	45935	479
Autism	ADHD	Spouse	Spouse	3.39	3.21	3.58	0.09	NA	NA	NA	NA	3647774	110928	1670
Type-2 diabetes	ADHD	Spouse	Spouse	1.02	0.99	1.06	0.02	NA	NA	NA	NA	3647774	110928	3561

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Hypertension	ADHD	Spouse	Spouse	1.14	1.12	1.15	0.01	NA	NA	NA	NA	3647774	110928	20399
Dyslipidemia	ADHD	Spouse	Spouse	1.10	1.07	1.13	0.02	NA	NA	NA	NA	3647774	110928	4486
Stroke	ADHD	Spouse	Spouse	1.23	1.15	1.31	0.04	NA	NA	NA	NA	3647774	110928	1051
Angina pectoris	ADHD	Spouse	Spouse	1.17	1.08	1.27	0.05	NA	NA	NA	NA	3647774	110928	644
Myocardial infarction	ADHD	Spouse	Spouse	1.12	1.00	1.24	0.06	NA	NA	NA	NA	3647774	110928	331
Heart failure	ADHD	Spouse	Spouse	1.20	1.03	1.36	0.08	NA	NA	NA	NA	3647774	110928	222
Type-2 diabetes	Autism	Spouse	Spouse	1.35	1.25	1.46	0.05	NA	NA	NA	NA	3647774	15101	668
Hypertension	Autism	Spouse	Spouse	1.24	1.20	1.28	0.02	NA	NA	NA	NA	3647774	15101	3178
Dyslipidemia	Autism	Spouse	Spouse	1.16	1.07	1.25	0.04	NA	NA	NA	NA	3647774	15101	703
Stroke	Autism	Spouse	Spouse	1.35	1.13	1.56	0.11	NA	NA	NA	NA	3647774	15101	174
Angina pectoris	Autism	Spouse	Spouse	0.87	0.66	1.07	0.11	NA	NA	NA	NA	3647774	15101	76
Myocardial infarction	Autism	Spouse	Spouse	0.88	0.58	1.18	0.15	NA	NA	NA	NA	3647774	15101	37
Heart failure	Autism	Spouse	Spouse	1.56	1.06	2.06	0.26	NA	NA	NA	NA	3647774	15101	43
ADHD	Autism	Spouse	Spouse	3.29	3.13	3.46	0.08	NA	NA	NA	NA	3647774	15101	1670
ADHD	Type-2 diabetes	Spouse	Spouse	1.06	1.02	1.10	0.02	NA	NA	NA	NA	3647774	122319	3561
ADHD	Hypertension	Spouse	Spouse	1.16	1.14	1.18	0.01	NA	NA	NA	NA	3647774	626398	20399
ADHD	Dyslipidemia	Spouse	Spouse	1.18	1.12	1.23	0.03	NA	NA	NA	NA	3647774	185910	4486
ADHD	Stroke	Spouse	Spouse	1.20	1.12	1.29	0.04	NA	NA	NA	NA	3647774	35319	1051
ADHD	Angina pectoris	Spouse	Spouse	1.25	1.09	1.42	0.09	NA	NA	NA	NA	3647774	26317	644
ADHD	Myocardial infarction	Spouse	Spouse	1.32	1.06	1.59	0.14	NA	NA	NA	NA	3647774	14398	331
ADHD	Heart failure	Spouse	Spouse	1.34	1.13	1.55	0.11	NA	NA	NA	NA	3647774	7742	222
Autism	Type-2 diabetes	Spouse	Spouse	1.31	1.20	1.42	0.06	NA	NA	NA	NA	3647774	122319	668
Autism	Hypertension	Spouse	Spouse	1.23	1.18	1.28	0.03	NA	NA	NA	NA	3647774	626398	3178
Autism	Dyslipidemia	Spouse	Spouse	1.47	1.31	1.63	0.08	NA	NA	NA	NA	3647774	185910	703
Autism	Stroke	Spouse	Spouse	1.43	1.18	1.68	0.13	NA	NA	NA	NA	3647774	35319	174
Autism	Angina pectoris	Spouse	Spouse	1.66	1.04	2.27	0.31	NA	NA	NA	NA	3647774	26317	76
Autism	Myocardial infarction	Spouse	Spouse	1.40	0.59	2.20	0.41	NA	NA	NA	NA	3647774	14398	37
Autism	Heart failure	Spouse	Spouse	1.97	1.24	2.69	0.37	NA	NA	NA	NA	3647774	7742	43

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Autism	ADHD	Spouse	Husband	2.99	2.74	3.24	0.13	NA	NA	NA	NA	1824408	62804	742
Type-2 diabetes	ADHD	Spouse	Husband	1.03	0.99	1.08	0.02	NA	NA	NA	NA	1824408	62804	2454
Hypertension	ADHD	Spouse	Husband	1.15	1.14	1.17	0.01	NA	NA	NA	NA	1824408	62804	13964
Dyslipidemia	ADHD	Spouse	Husband	1.19	1.12	1.25	0.03	NA	NA	NA	NA	1824408	62804	1810
Stroke	ADHD	Spouse	Husband	1.29	1.18	1.40	0.06	NA	NA	NA	NA	1824408	62804	587
Angina pectoris	ADHD	Spouse	Husband	1.25	1.09	1.42	0.09	NA	NA	NA	NA	1824408	62804	231
Myocardial infarction	ADHD	Spouse	Husband	1.23	0.95	1.50	0.14	NA	NA	NA	NA	1824408	62804	81
Heart failure	ADHD	Spouse	Husband	1.22	0.98	1.46	0.12	NA	NA	NA	NA	1824408	62804	112
Type-2 diabetes	Autism	Spouse	Husband	1.42	1.30	1.54	0.06	NA	NA	NA	NA	1824408	9314	499
Hypertension	Autism	Spouse	Husband	1.28	1.23	1.32	0.02	NA	NA	NA	NA	1824408	9314	2357
Dyslipidemia	Autism	Spouse	Husband	1.43	1.29	1.56	0.07	NA	NA	NA	NA	1824408	9314	408
Stroke	Autism	Spouse	Husband	1.43	1.17	1.69	0.13	NA	NA	NA	NA	1824408	9314	115
Angina pectoris	Autism	Spouse	Husband	1.23	0.87	1.59	0.18	NA	NA	NA	NA	1824408	9314	45
Myocardial infarction	Autism	Spouse	Husband	1.29	0.67	1.91	0.32	NA	NA	NA	NA	1824408	9314	17
Heart failure	Autism	Spouse	Husband	1.71	1.06	2.35	0.33	NA	NA	NA	NA	1824408	9314	28
ADHD	Autism	Spouse	Husband	3.64	3.41	3.87	0.12	NA	NA	NA	NA	1824408	9314	967
ADHD	Type-2 diabetes	Spouse	Husband	1.09	1.01	1.17	0.04	NA	NA	NA	NA	1824408	49323	1077
ADHD	Hypertension	Spouse	Husband	1.14	1.11	1.18	0.02	NA	NA	NA	NA	1824408	245046	6257
ADHD	Dyslipidemia	Spouse	Husband	1.15	1.09	1.22	0.03	NA	NA	NA	NA	1824408	124794	2694
ADHD	Stroke	Spouse	Husband	1.21	1.08	1.34	0.07	NA	NA	NA	NA	1824408	18097	459
ADHD	Angina pectoris	Spouse	Husband	1.16	0.96	1.35	0.10	NA	NA	NA	NA	1824408	18304	407
ADHD	Myocardial infarction	Spouse	Husband	1.34	1.05	1.64	0.15	NA	NA	NA	NA	1824408	11614	252
ADHD	Heart failure	Spouse	Husband	1.43	1.10	1.76	0.17	NA	NA	NA	NA	1824408	4410	113
Autism	Type-2 diabetes	Spouse	Husband	1.53	1.25	1.81	0.14	NA	NA	NA	NA	1824408	49323	167
Autism	Hypertension	Spouse	Husband	1.29	1.19	1.39	0.05	NA	NA	NA	NA	1824408	245046	804
Autism	Dyslipidemia	Spouse	Husband	1.25	1.03	1.48	0.11	NA	NA	NA	NA	1824408	124794	298
Autism	Stroke	Spouse	Husband	1.26	0.88	1.65	0.20	NA	NA	NA	NA	1824408	18097	57
Autism	Angina pectoris	Spouse	Husband	1.13	0.52	1.75	0.31	NA	NA	NA	NA	1824408	18304	30

Outcome	Exposure	Type of the relation	Relation	λ	$\lambda_{95\% \text{ CI_Low}}$	$\lambda_{95\% \text{ CI_High}}$	λ_{SE}	r_g	$r_{g_{95\% \text{ CI_Low}}}$	$r_{g_{95\% \text{ CI_High}}}$	$r_{g_{SE}}$	Sample size	n_exposed	Number of outcome cases in the exposed group
Autism	Myocardial infarction	Spouse	Husband	1.13	0.29	1.97	0.43	NA	NA	NA	NA	1824408	11614	21
Autism	Heart failure	Spouse	Husband	2.30	1.03	3.58	0.65	NA	NA	NA	NA	1824408	4410	18
Autism	ADHD	Spouse	Wife	3.59	3.34	3.85	0.13	NA	NA	NA	NA	1823366	48124	928
Type-2 diabetes	ADHD	Spouse	Wife	0.99	0.93	1.05	0.03	NA	NA	NA	NA	1823366	48124	1107
Hypertension	ADHD	Spouse	Wife	1.11	1.08	1.13	0.01	NA	NA	NA	NA	1823366	48124	6435
Dyslipidemia	ADHD	Spouse	Wife	1.06	1.02	1.09	0.02	NA	NA	NA	NA	1823366	48124	2676
Stroke	ADHD	Spouse	Wife	1.18	1.06	1.29	0.06	NA	NA	NA	NA	1823366	48124	464
Angina pectoris	ADHD	Spouse	Wife	1.14	1.03	1.26	0.06	NA	NA	NA	NA	1823366	48124	413
Myocardial infarction	ADHD	Spouse	Wife	1.10	0.96	1.24	0.07	NA	NA	NA	NA	1823366	48124	250
Heart failure	ADHD	Spouse	Wife	1.17	0.94	1.40	0.12	NA	NA	NA	NA	1823366	48124	110
Type-2 diabetes	Autism	Spouse	Wife	1.28	1.08	1.48	0.10	NA	NA	NA	NA	1823366	5787	169
Hypertension	Autism	Spouse	Wife	1.19	1.11	1.26	0.04	NA	NA	NA	NA	1823366	5787	821
Dyslipidemia	Autism	Spouse	Wife	1.00	0.89	1.11	0.06	NA	NA	NA	NA	1823366	5787	295
Stroke	Autism	Spouse	Wife	1.31	0.96	1.66	0.18	NA	NA	NA	NA	1823366	5787	59
Angina pectoris	Autism	Spouse	Wife	0.65	0.41	0.90	0.12	NA	NA	NA	NA	1823366	5787	31
Myocardial infarction	Autism	Spouse	Wife	0.77	0.43	1.12	0.18	NA	NA	NA	NA	1823366	5787	20
Heart failure	Autism	Spouse	Wife	1.26	0.58	1.94	0.35	NA	NA	NA	NA	1823366	5787	15
ADHD	Autism	Spouse	Wife	2.96	2.73	3.19	0.12	NA	NA	NA	NA	1823366	5787	703
ADHD	Type-2 diabetes	Spouse	Wife	1.04	1.00	1.08	0.02	NA	NA	NA	NA	1823366	72996	2484
ADHD	Hypertension	Spouse	Wife	1.16	1.14	1.18	0.01	NA	NA	NA	NA	1823366	381352	14142
ADHD	Dyslipidemia	Spouse	Wife	1.21	1.13	1.28	0.04	NA	NA	NA	NA	1823366	61116	1792
ADHD	Stroke	Spouse	Wife	1.20	1.09	1.31	0.06	NA	NA	NA	NA	1823366	17222	592
ADHD	Angina pectoris	Spouse	Wife	1.46	1.15	1.77	0.16	NA	NA	NA	NA	1823366	8013	237
ADHD	Myocardial infarction	Spouse	Wife	1.27	0.76	1.79	0.26	NA	NA	NA	NA	1823366	2784	79
ADHD	Heart failure	Spouse	Wife	1.27	1.00	1.55	0.14	NA	NA	NA	NA	1823366	3332	109
Autism	Type-2 diabetes	Spouse	Wife	1.40	1.27	1.53	0.07	NA	NA	NA	NA	1823366	72996	501
Autism	Hypertension	Spouse	Wife	1.25	1.20	1.31	0.03	NA	NA	NA	NA	1823366	381352	2374
Autism	Dyslipidemia	Spouse	Wife	1.49	1.29	1.70	0.10	NA	NA	NA	NA	1823366	61116	405

Outcome	Exposure	Type of the relation	Relation	λ	λ _95% CI_Low	λ _95% CI_High	λ _SE	r_g	r_g _95% CI_Low	r_g _95% CI_High	r_g _SE	Sample size	n_exposed	Number of outcome cases in the exposed group
Autism	Stroke	Spouse	Wife	1.52	1.20	1.85	0.17	NA	NA	NA	NA	1823366	17222	117
Autism	Angina pectoris	Spouse	Wife	1.58	0.79	2.36	0.40	NA	NA	NA	NA	1823366	8013	46
Autism	Myocardial infarction	Spouse	Wife	1.00	0.05	1.94	0.48	NA	NA	NA	NA	1823366	2784	16
Autism	Heart failure	Spouse	Wife	1.62	0.84	2.41	0.40	NA	NA	NA	NA	1823366	3332	25

Note:

SE: standard error; CI: confidence interval; ADHD: attention-deficit/hyperactivity disorder; 1DR: first-degree relative; 2DR: second-degree relative; 3DR: third-degree relative; NA: not available (Genetic correlation was not estimated from spouses).

Results of some pairs were unavailable due to the limited number of cases for certain exposure-outcome combinations.

eTable 8. Odds Ratios between neurodevelopmental and cardiometabolic conditions within individuals

Outcome	Exposure	OR	OR SE	OR 95% CI Low	OR 95% CI High
Type-2 diabetes	ADHD	1.33	0.01	1.31	1.35
Hypertension	ADHD	2.11	0.00	2.09	2.12
Dyslipidemia	ADHD	1.48	0.01	1.46	1.5
Stroke	ADHD	1.77	0.01	1.73	1.81
Angina pectoris	ADHD	1.45	0.01	1.41	1.49
Myocardial infarction	ADHD	1.19	0.02	1.14	1.24
Heart failure	ADHD	1.52	0.02	1.46	1.59
Type-2 diabetes	Autism	1.46	0.02	1.41	1.51
Hypertension	Autism	1.85	0.01	1.82	1.89
Dyslipidemia	Autism	1.34	0.01	1.31	1.38
Stroke	Autism	1.46	0.03	1.38	1.54
Angina pectoris	Autism	1.06	0.03	0.99	1.13
Myocardial infarction	Autism	0.94	0.05	0.85	1.03
Heart failure	Autism	1.34	0.05	1.22	1.48

Note:

OR: odds ratio; ADHD: attention-deficit/hyperactivity disorder; SE: standard error; CI: confidence interval

eTable 9. Diagnosis codes of cardiometabolic conditions in Statistics Netherlands (CBS)

	Diagnosis codes in CBS	ATC code	Diagnosis codes in CBS based on DSM-IV between 2013 and 2016	Diagnosis codes in CBS based on DSM-IV between 2017 and 2020
Cardiometabolic conditions				
Hypertension	313 [0311]; 316 [4003]; 318 [0901]; 320 [0902]	C02; C03; C07; C08; C09		
Type-2 diabetes	301 [0751]; 301 [0754]; 301 [0755]; 301 [0757]; 301 [0759]; 303 [0432]; 303 [0521]; 303 [0522]; 303 [0531]; 303 [0553]; 303 [0559]; 303 [0560]; 303 [0562]; 303 [0563]; 305 [2065]; 313 [0072]; 313 [0078]; 313 [0079]; 313 [0082]; 313 [0221]; 313 [0222]; 313 [0223]; 313 [0345]; 313 [0347]; 313 [0083]; 316 [7104]; 316 [7113]; 316 [7114]; 316 [7903]; 316 [7909]; 316 [7910]; 316 [7923]; 318 [0767]; 318 [0902]; 335 [0222]; 362 [0400]; 316 [7924]; 318 [0768]; 313 [0224]	A10B		
Dyslipidemia	313 [0271]	C10		
Stroke	303 [0402]; 308 [1201]; 308 [1205]; 308 [1210]; 308 [1220]; 308 [1225]; 308 [1230]; 308 [1235]; 308 [1240]; 308 [1321]; 313 [0121]; 316 [3501]; 316 [3508]; 327 [0313]; 328 [3210]; 328 [3310]; 330 [1101]; 330 [1102]; 330 [1103]; 330 [1111]; 330 [1112]; 330 [1121]; 330 [1199]; 330 [9925]; 330 [9927]; 335 [0263]; 362 [0101]; 362 [0102]; 362 [0103]; 362 [0111]; 362 [0112]; 362 [0113]; 362 [0114]; 362 [0115]; 362 [0201]; 362 [0202]; 362 [0203]; 8418 [0101]			
Angina pectoris	320 [0202]; 320 [0203]; 313 [0102]			
Myocardial infarction	313[0102]; 320[0204]; 320[0205]			
Heart failure	320 [0301]; 320 [0302]; 316 [7704]			

Diagnosis codes in CBS	ATC code	Diagnosis codes in CBS based on DSM-IV between 2013 and 2016	Diagnosis codes in CBS based on DSM-IV between 2017 and 2020
Psychiatric conditions			
ADHD	N06BA01; N06BA02; N06BA04; N06BA09; N06BA12	as1_1.05.01 ADHD, as1_1.05.02 ADHD-not otherwise specified	03 attention-deficit and disruptive behavior disorders
Autism		as1_1.04 pervasive developmental disorders	02 pervasive developmental disorders

Note:

ADHD: attention-deficit/hyperactivity disorder