Table e-5: Overview of results of all polygenic risk scores. p-value is the p-value of the 1.d.f test of the risk score in the replication set. R^2 variance explained is the pseudo-variance explained by the risk score model in the replication dataset (x100 to display percentage). Odds Ratio is calculated from the estimated coefficient for regressing the response onto the risk score and is given as an increase of one standard deviation of the polygenic score.

Discovery set	Replication set	p-value cutoff	N SNPs	p-value replication set	R2 variance explained (%)	Odds Ratio replication set [CI_95]
All migraine	All IS	0.5	88,479	0.3841789	0.001017949	1.003[0.996-1.009]
		0.25	47,284	0.6084475	0.000352777	1.002[0.995-1.009]
		0.1	20,914	0.4782398	0.000675968	1.003[0.994-1.012]
		0.05	11,304	0.7843003	0.0001007114	0.999[0.988-1.009]
		0.01	2,860	0.2693516	0.001639988	0.990 [0.974-1.008]
		0.001	469	0.6173425	0.0003355424	0.991[0.957-1.026]
		0.0001	98	0.6999556	0.0001996397	0.988[0.927-1.052]
All IS	All migraine	0.5	84,947	0.1304255	0.00192689	1.003[0.999-1.006]
		0.25	42,800	0.1314767	0.001916401	1.003[0.999-1.007]
		0.1	17,440	0.237828	0.001173797	1.003[0.998-1.008]
		0.05	8,760	0.6690582	0.0001539092	1.001[0.995-1.008]
		0.01	1,830	0.1065296	0.002194368	1.009 [0.998-1.020]
		0.001	206	0.9904244	1.21E-7	1.000[0.973-1.027]
		0.0001	33	0.1580889	0.001678372	0.959[0.906-1.016]
All migraine	LAS	0.5	88,479	7.99E-9	0.06481235	1.041[1.027-1.055]
		0.25	47,284	4.02E-6	0.04140625	1.036[1.021-1.052]
		0.1	20,914	5.14E-5	0.03194253	1.039[1.020-1.059]
		0.05	11,304	0.005201902	0.01521116	1.033[1.010-1.056]
		0.01	2,860	0.2363668	0.002731781	1.022[0.986-1.060]
		0.001	469	0.2297882	0.002809788	0.956[0.888-1.029]
		0.0001	98	0.05971362	0.006907217	0.878[0.766-1.005]
LAS	All migraine	0.5	84,258	2.67E-9	0.02982468	1.005[1.003-1.007]
		0.25	42,421	4.65E-8	0.0251482	1.005[1.003-1.007]
		0.1	17,511	0.001112002	0.008955139	1.004[1.002-1.006]
		0.05	8,928	0.01201003	0.005314818	1.004[1.001-1.007]
		0.01	1,875	0.02163194	0.004443629	1.006[1.001-1.011]
		0.001	206	0.1805374	0.001510556	1.009[0.996-1.022]
		0.0001	35	0.2561739	0.0010861	0.985[0.959-1.011]
All migraine	CE	0.5	88,479	1.46E-7	0.04723656	1.035 [1.022-1.049]
		0.25	47,284	1.16E-6	0.04039855	1.036[1.021-1.051]

		0.1	20,914	5.32E-5	0.02790681	1.037[1.019-1.055]
		0.05	11,304	0.0004669003	0.02092495	1.039[1.017-1.061]
		0.01	2,860	0.2829101	0.00197085	1.019[0.985-1.055]
		0.001	469	0.508543	0.0007470512	1.024[0.955-1.097]
		0.0001	98	0.3871199	0.001278463	1.057[0.932-1.200]
CE	All migraine	0.5	82,187	5.94E-7	0.0209992	1.005[1.003-1.006]
		0.25	41,403	1.32E-5	0.01598505	1.004[1.002-1.007]
		0.1	16,805	0.0006068955	0.009901546	1.005[1.002-1.007]
		0.05	8,415	0.04460998	0.00339757	1.003[.0001-1.007]
		0.01	1,792	0.5189855	0.0003503565	1.002[0.996-1.008]
		0.001	199	0.4821085	0.0004162151	1.005[0.991-1.019]
		0.0001	10	0.8680288	2.32E-5	0.995[0.944-1.050]
All migraine	SVD	0.5	88,479	0.08292964	0.005580929	1.013[0.998-1.028]
		0.25	47,284	0.1423566	0.003995277	1.012[0.996-1.028]
		0.1	20,914	0.2377455	0.002587515	1.012[0.992-1.032]
		0.05	11,304	0.3318562	0.001747973	1.012[0.988-1.036]
		0.01	2,860	0.03417505	0.00826969	1.043 [1.003-1.084]
		0.001	469	0.9626586	4.06884e-06	0.998[0.923-1.079]
		0.0001	98	0.7334594	0.0002152567	0.976[0.846-1.125]
SVD	All migraine	0.5	81,946	0.01639583	0.004859343	1.002[1.000-1.004]
		0.25	41,273	0.001733565	0.008277913	1.003 [1.001-1.005]
		0.1	16,727	0.02476785	0.004252035	1.003[1.000-1.005]
		0.05	8,448	0.04737419	0.00331729	1.003[1.000-1.006]
		0.01	1,713	0.08510487	0.002501118	1.005[0.999-1.010]
		0.001	174	0.8450377	3.22E-5	1.001[0.988-1.015]
		0.0001	17	0.2358605	0.001185487	1.023[0.985-1.063]
MO	All IS	0.5	87,163	3.89E-10	0.05263249	1.011 [1.008-1.015]
		0.25	45,881	2.36E-8	0.04189677	1.011[1.007-1.015]
		0.1	19,998	3.64E-7	0.0347758	1.012[1.008-1.017]
		0.05	10,910	0.0001730153	0.01895639	1.011[1.005-1.017]
		0.01	2,985	0.004199041	0.01101612	1.013[1.004-1.022]
		0.001	700	0.2222792	0.002002313	1.009[0.994-1.025]
		0.0001	220	0.511359	0.0005797374	0.992[0.970-1.016]
All IS	MO	0.5	84,947	6.02E-11	0.05592464	1.021 [1.015-1.028]
		0.25	42,800	2.99E-8	0.04012191	1.021[1.013-1.028]
		0.1	17,440	1.84E-7	0.03552724	1.025[1.015-1.034]
		0.05	8,760	9.88E-5	0.01980654	1.023[1.011-1.035]

		0.01	1,830	0.03937858	0.005545696	1.022[1.001-1.043]
		0.001	206	0.9699826	1.85E-6	0.999[0.951-1.049]
		0.0001	33	0.3720217	0.001041232	0.953[0.858-1.059]
MO	LAS	0.5	87,163	6.59E-24	0.1978478	1.039 [1.031-1.046]
		0.25	45,881	2.80E-18	0.1480092	1.037[1.029-1.046]
		0.1	19,998	6.22E-11	0.0832538	1.034[1.024-1.045]
		0.05	10,910	1.56E-6	0.04493048	1.030[1.018-1.043]
		0.01	2,985	0.01344815	0.01190199	1.024[1.005-1.043]
		0.001	700	0.8967881	3.282e-05	1.002[0.971-1.034]
		0.0001	220	0.05719054	0.00704694	0.953[0.907-1.001]
LAS	MO	0.5	84,258	6.43E-28	0.1566267	1.017[1.014-1.020]
		0.25	42,421	2.13E-22	0.1237588	1.017[1.014-1.021]
		0.1	17,511	2.14E-8	0.04097024	1.012[1.008-1.017]
		0.05	8,928	3.54E-6	0.02808144	1.013[1.007-1.018]
		0.01	1,875	0.003803252	0.01094283	1.014[1.005-1.024]
		0.001	206	0.0039244	0.01086839	1.035[1.011-1.059]
		0.0001	35	0.2091981	0.002060458	1.032[0.983-1.083]
MO	CE	0.5	87,163	9.10E-15	0.1026431	1.028 [1.021-1.035]
		0.25	45,881	1.10E-13	0.09427268	1.030[1.022-1.038]
		0.1	19,998	2.16E-11	0.07656989	1.033[1.023-1.043]
		0.05	10,910	3.38E-9	0.05972519	1.035[1.023-1.047]
		0.01	2,985	8.31E-6	0.033946	1.041[1.023-1.060]
		0.001	700	0.003041391	0.01501036	1.047[1.016-1.079]
		0.0001	220	0.1130628	0.004291643	1.039[0.991-1.090]
CE	MO	0.5	82,187	2.74E-20	0.1112155	1.016 [1.012-1.019]
		0.25	41,403	4.70E-16	0.0860925	1.015[1.012-1.019]
		0.1	16,805	3.51E-9	0.04556347	1.014[1.010-1.019]
		0.05	8,415	0.0006718102	0.01511065	1.010[1.004-1.016]
		0.01	1,792	0.03822927	0.005611456	1.011[1.001-1.022]
		0.001	199	0.6342667	0.0002957101	1.006[0.981-1.033]
		0.0001	10	0.7080022	0.0001832917	0.981[0.888-1.084]
MO	SVD	0.5	87,163	0.00970438	0.01241499	1.010[1.003-1.018]
		0.25	45,881	0.02516534	0.009304324	1.010[1.001-1.019]
		0.1	19,998	0.004405539	0.01505106	1.016[1.005-1.027]
		0.05	10,910	0.06460474	0.006339214	1.012[0.999-1.025]
		0.01	2,985	0.01543763	0.01088826	1.025[1.005-1.045]
		0.001	700	0.8261428	8.96E-5	1.004[0.971-1.038]

		0.0001	220	0.584786	0.0005542234	0.986[0.936-1.038]
SVD	MO	0.5	81,946	0.001091	0.01393582	1.005[1.002-1.008]
		0.25	41,273	1.47E-5	0.02453742	1.007[1.004-1.011]
		0.1	16,727	2.97E-5	0.02277685	1.009[1.005-1.013]
		0.05	8,448	0.0004593984	0.01603558	1.010[1.004-1.015]
		0.01	1,713	0.08519736	0.003871218	1.009 [1.000-1.018]
		0.001	174	0.9363779	8.32E-6	0.999 [0.974-1.024]
		0.0001	17	0.4992728	0.0005964414	1.024 [0.955-1.099]
MA	**all** IS	0.5	87,674	0.001919924	0.01293662	0.995[0.992-0.998]
		0.25	45,917	0.001700301	0.01323673	0.994[0.991-0.998]
		0.1	19,947	0.008005844	0.009452279	0.994[0.990-0.998]
		0.05	10,514	0.04670546	0.00531752	0.995[0.989-1.000]
		0.01	2,558	0.1647813	0.002594015	0.994[0.985-1.003]
		0.001	359	0.9561469	4.06E-6	0.999[0.980-1.019]
		0.0001	62	0.7692635	0.0001156659	0.994[0.956-1.034]
All IS	MA	0.5	84,947	0.002271824	0.01173845	0.989[0.982-0.996]
		0.25	42,800	0.01411022	0.007591104	0.990[0.982-0.998]
		0.1	17,440	0.1036981	0.00333642	0.991[0.981-1.002]
		0.05	8,760	0.09833478	0.003443046	0.989[0.977-1.002]
		0.01	1,830	0.770547	0.0001071931	0.997[0.974-1.020]
		0.001	206	0.5859771	0.0003738426	1.016[0.961-1.074]
		0.0001	33	0.6432009	0.0002703983	1.029[0.913-1.158]
MA	LAS	0.5	87,674	0.002842184	0.01735053	1.010[1.003-1.017]
		0.25	45,917	0.0005424691	0.02330653	1.013[1.006-1.020]
		0.1	19,947	0.008290151	0.01357835	1.012[1.003-1.022]
		0.05	10,514	0.01899791	0.01071857	1.013[1.002-1.025]
		0.01	2,558	0.6127932	0.0004990196	1.005[0.986-1.024]
		0.001	359	0.1401621	0.004239825	1.031[0.990-1.074]
		0.0001	62	0.7617135	0.0001791474	1.013[0.932-1.102]
LAS	MA	0.5	84,258	0.00489229	0.009978244	1.005[1.001-1.008]
		0.25	42,421	0.00562345	0.009661154	1.005[1.002-1.009]
		0.1	17,511	0.02730792	0.006138195	1.006[1.001-1.010]
		0.05	8,928	0.08855574	0.003654851	1.005[0.999-1.011]
		0.01	1,875	0.7254421	0.0001554215	1.002[0.991-1.013]
		0.001	206	0.2178814	0.001913197	0.984[0.958-1.010]
		0.0001	35	0.03629165	0.005523428	0.943[0.893-0.996]
MA	CE	0.5	87,674	0.4001004	0.001210188	1.003[0.996-1.009]

		0.25	45,917	0.4639738	0.0009166549	0.997[0.990-1.004]
		0.1	19,947	0.5447537	0.000626953	0.997[0.989-1.006]
		0.05	10,514	0.8412393	6.85E-5	1.001[0.991-1.012]
		0.01	2,558	0.2316894	0.0001430357	0.989 [0.972-1.007]
		0.001	359	0.4558175	0.0009505903	0.985[0.947-1.025]
		0.0001	62	0.960248	4.24E-6	1.002[0.925-1.086]
CE	MA	0.5	82,187	0.9249247	1.12E-5	1.000[0.996-1.004]
		0.25	41,403	0.6002806	0.0003459965	1.001[0.997-1.005]
		0.1	16,805	0.1643294	0.002436967	1.004[0.998-1.009]
		0.05	8,415	0.1218701	0.003015594	1.005[0.999-1.012]
		0.01	1,792	0.5998954	0.0003467283	1.003[0.991-1.015]
		0.001	199	0.7573933	0.0001202448	1.005[0.976-1.034]
		0.0001	10	0.03535249	0.005579779	1.126[1.008-1.257]
MA	SVD	0.5	87,674	0.3431865	0.001667875	1.003[0.996-1.010]
		0.25	45,917	0.5164051	0.0007816323	1.003[0.995-1.010]
		0.1	19,947	0.8715384	4.85E-5	0.999[0.990-1.009]
		0.05	10,514	0.4187141	0.001213881	0.995[0.983-1.007]
		0.01	2,558	0.9324549	1.33E-5	0.999[0.980-1.019]
		0.001	359	0.6310737	0.0004280807	1.011[0.968-1.056]
		0.0001	62	0.7082374	0.0002599661	1.017[0.931-1.112]
SVD	MA	0.5	81,946	0.1736529	0.002332624	1.002[0.999-1.006]
		0.25	41,273	0.07356551	0.004034367	1.003[0.999-1.007]
		0.1	16,727	0.3215739	0.001238112	1.002[0.998-1.007]
		0.05	8,448	0.6546484	0.0002521385	1.001[0.995-1.007]
		0.01	1,713	0.3579028	0.001065103	1.005[0.994-1.016]
		0.001	174	0.2570822	0.001618498	1.016[0.988-1.045]
		0.0001	17	0.5022027	0.0005674071	1.028[0.949-1.113]

Abbreviations: MO = migraine without aura; MA = migraine with aura; IS = ischemic stroke; LAS = large artery stroke; CE = cardioembolic; SVD = small vessel disease.