SUPPLEMENTAL MATERIAL

Table S1. List of single nucleotide polymorphisms used in the study (all ICH).									
SNP	**Chr**	**Position**	**Effect allele**	**Other allele**	**Beta exposure**	**SE exposure**	**Beta outcome**	**SE outcome**	**EAF**
rs10070734	5	87940026	T	C	-0.0104228	0.00216827	-0.1205	0.0577	0.290475
rs10085881	7	21577960	T	C	0.0141794	0.00220864	0.0164	0.0618	0.717835
rs1038165	12	68665940	C	T	-0.0113988	0.00199136	0.0968	0.052	0.416644
rs10426	19	51517798	G	A	-0.0245957	0.00239857	0.0126	0.0612	0.786581
rs10454087	17	40735641	C	T	0.0116466	0.00217735	-0.07	0.0569	0.715204
rs10859995	12	96375682	T	C	0.0402233	0.00199365	0.0142	0.0522	0.41738
rs10887718	10	82042624	C	T	0.0114771	0.00197171	-0.0461	0.051	0.471793
rs10908419	1	154567699	G	A	0.0113875	0.0019657	-0.0397	0.0508	0.510028
rs10908465	1	155389688	C	T	-0.0157145	0.0022193	-0.0097	0.0581	0.732654
rs11127186	2	28881407	T	C	-0.0110975	0.00200676	-0.0244	0.0523	0.504215
rs11182428	12	38526387	T	C	0.0118222	0.00196738	0.0191	0.0512	0.479988
rs11264322	1	155087933	G	A	0.00983463	0.00199554	0.0545	0.0529	0.570174
rs1149605	11	76485216	T	C	-0.0203649	0.00262634	0.0276	0.0704	0.829642
rs116970203	11	14876718	G	A	0.344103	0.00604043	0.0773	0.2071	0.972854
rs11732896	4	88287993	G	A	0.015001	0.00214451	-0.1398	0.0568	0.701193
rs12056768	8	116988527	T	G	0.0216054	0.0019971	-0.0592	0.0514	0.417109
rs12317268	12	21352541	A	G	0.0192946	0.00274768	0.0515	0.0712	0.849004
rs12372115	12	97982701	G	T	0.0207748	0.00382803	-0.0558	0.1016	0.929278
rs1260326	2	27730940	T	C	-0.0205984	0.00200946	-0.0035	0.0519	0.393449
rs12794714	11	14913575	G	A	0.0692066	0.00198946	-0.0452	0.0522	0.578149
rs12803256	11	71132868	A	G	-0.103558	0.0023682	0.0214	0.0566	0.223276
rs12881545	14	101176212	G	C	-0.00951387	0.00210312	0.0474	0.0556	0.326518
rs13060130	3	84440527	C	T	0.0135967	0.00283432	0.0212	0.0751	0.860343
rs13104260	4	70348090	G	A	-0.00648517	0.00225343	-0.0178	0.0602	0.743081
rs13284054	9	107669073	T	C	-0.0178056	0.00309215	0.1106	0.0792	0.882245
rs1352846	4	72617775	A	G	0.183861	0.00216171	-0.0726	0.0574	0.708555

rs1660839	11	71094232	G	A	-0.0289517	0.00227489	-0.0572	0.0592	0.751121
rs17216707	20	52732362	T	C	0.0362329	0.00260201	0.0284	0.0653	0.817326
rs17231506	16	56994528	C	T	0.0178297	0.00210314	-0.1682	0.0553	0.676898
rs1800588	15	58723675	C	T	0.0308346	0.00238954	-0.0066	0.0623	0.784792
rs2012736	2	234622379	C	A	0.0455066	0.00361616	-0.2135	0.0917	0.919152
rs2037511	18	61366207	G	A	-0.0168582	0.00264423	0.0672	0.068	0.834022
rs2074735	22	31535872	G	C	-0.0275007	0.00401718	-0.0472	0.0962	0.935944
rs212100	19	48376995	T	C	0.0602544	0.00265433	-0.0692	0.0701	0.164003
rs2131925	1	63025942	G	T	0.0211261	0.00205682	0.0489	0.0546	0.356411
rs2229742	21	16339172	G	C	0.0240457	0.00322702	-0.056	0.0839	0.896533
rs2248551	6	131924689	G	A	0.0203669	0.00264676	-0.0848	0.0718	0.834819
rs2346264	7	133536351	A	C	0.0142533	0.00240377	-0.0685	0.0629	0.217301
rs261291	15	58680178	T	C	0.0256413	0.00205788	-0.0452	0.0537	0.644799
rs2710651	2	63166379	G	A	0.0113064	0.00196984	0.0072	0.0516	0.471888
rs2725371	8	30854033	A	G	-0.00861253	0.00215382	-0.0221	0.0567	0.302285
rs28692966	8	25892919	G	A	-0.0140087	0.00226945	0.0194	0.0588	0.747024
rs2952289	17	66464414	C	T	-0.0159269	0.00245912	-0.0007	0.0636	0.201966
rs31612	5	108996643	T	C	0.0124544	0.00261401	0.0836	0.0649	0.825572
rs325384	15	100229761	C	T	0.0126665	0.00218846	-0.0025	0.0594	0.715856
rs34290760	8	9185179	C	G	0.0281839	0.00585264	-0.1958	0.152	0.970879
rs35408430	1	17560195	C	T	0.0207679	0.00207182	-0.0059	0.0544	0.657829
rs3849374	2	101443397	G	C	0.0159963	0.00258093	-0.0575	0.0665	0.82199
rs3925446	10	91495322	G	A	-0.0147869	0.002463	-0.0645	0.0653	0.800891
rs4121823	18	47144223	T	A	0.0165318	0.00274098	-0.2047	0.0742	0.154674
rs4327060	16	72807438	C	T	0.0226633	0.00433397	0.0222	0.1156	0.945604
rs4418728	10	94839724	G	T	-0.0111594	0.00197359	-0.0163	0.0517	0.54832
rs4575545	16	79755446	G	A	0.0145918	0.00214424	-0.0749	0.0555	0.695191
rs4616820	4	57745481	C	T	0.012479	0.00199079	-0.0668	0.0511	0.535048

rs4738684	8	59393273	A	G	-0.00994588	0.00208683	-0.0263	0.0548	0.334508
rs541041	2	21294975	G	A	0.0152241	0.00255168	0.1396	0.0648	0.180809
rs55829990	15	63790642	T	C	0.0191915	0.00207492	0.0014	0.0534	0.655979
rs590215	18	57904088	C	T	0.00462051	0.00222766	0.0376	0.0594	0.734097
rs6003456	22	23356100	T	A	0.0122883	0.00233244	0.0044	0.0621	0.765364
rs613808	11	116710968	A	G	-0.024948	0.00220937	0.0611	0.0568	0.279985
rs61891388	11	66079818	T	G	-0.0115084	0.00198127	-0.0305	0.0512	0.544054
rs62007299	15	77711719	G	A	0.0116231	0.00217065	0.0026	0.0561	0.287451
rs6672758	1	230303512	C	T	-0.0146302	0.0024755	-0.1018	0.0652	0.199137
rs6782190	3	85639672	G	A	0.0189106	0.00205644	-0.0508	0.0535	0.352497
rs6966728	7	104618318	C	T	0.0113076	0.00201049	0.0331	0.0513	0.537355
rs705117	4	72608115	C	T	0.0317739	0.00276853	-0.1415	0.076	0.147721
rs7149014	14	29802911	T	C	0.0107334	0.0020584	0.107	0.0527	0.370816
rs727857	2	58981967	G	A	0.0109766	0.00203429	-0.0366	0.0521	0.388495
rs72834856	6	22801858	T	G	0.0251376	0.00379985	-0.0443	0.1004	0.927943
rs72997623	11	75488054	C	A	-0.0257654	0.00353337	-0.0747	0.0884	0.915323
rs7522116	1	41835685	C	T	0.012542	0.00199858	0.1379	0.0512	0.433716
rs7528419	1	109817192	A	G	-0.019866	0.00235556	0.0535	0.0635	0.775305
rs7569755	2	118648261	G	A	-0.0135962	0.00218248	0.0408	0.0566	0.709372
rs75741381	7	100809458	C	G	0.0137731	0.00278718	-0.0734	0.0719	0.852317
rs7604788	2	21190024	C	T	-0.0352194	0.0054801	0.0043	0.1444	0.966596
rs77532868	10	88081438	C	T	-0.0230071	0.0043429	0.1841	0.1357	0.945978
rs7784802	7	64015379	A	T	-0.0129774	0.00204446	0.1022	0.0555	0.639012
rs78151190	6	25619007	A	C	0.0179172	0.00293406	0.0453	0.0806	0.871246
rs78649910	4	3482213	T	A	0.019983	0.00320891	0.0187	0.0798	0.893826
rs8018720	14	39556185	G	C	0.0299593	0.0025742	0.0551	0.0683	0.176691
rs804281	8	11611865	A	G	-0.0161836	0.00199452	0.0112	0.052	0.416402
rs8091117	18	28919794	C	A	0.0241938	0.0039757	0.0304	0.0989	0.934736

rs8113404	19	53065579	C	T	-0.0115758	0.00214261	0.0021	0.0557	0.695417
rs867772	1	220972343	A	G	0.0147054	0.00212274	-0.1692	0.0572	0.315533
rs9476310	6	57767576	C	T	-0.0108729	0.00197437	0.0076	0.0509	0.488661
rs9490317	6	121859499	T	C	-0.0106658	0.00198507	-0.0455	0.0514	0.554066
rs964184	11	116648917	G	C	-0.0414009	0.00290504	0.0353	0.0728	0.131625
rs9861009	3	141654685	T	C	-0.0139778	0.00222312	0.0175	0.0566	0.272456

Table S2. List of single nucleotide polymorphisms used in the study (Non-Lobar ICH).									
SNP	chr	pos	effect_allele	other_allele	beta.exposure	se.exposure	beta.outcome	se.outcome	eaf
rs10070734	5	87940026	T	C	-0.0104228	0.00216827	-0.0818	0.0681	0.290475
rs10085881	7	21577960	T	C	0.0141794	0.00220864	-0.0331	0.0728	0.717835
rs1038165	12	68665940	C	T	-0.0113988	0.00199136	0.1259	0.0612	0.416644
rs10426	19	51517798	G	A	-0.0245957	0.00239857	-0.0196	0.0721	0.786581
rs10454087	17	40735641	C	T	0.0116466	0.00217735	-0.0748	0.0675	0.715204
rs10859995	12	96375682	T	C	0.0402233	0.00199365	-0.0138	0.0622	0.41738
rs10887718	10	82042624	C	T	0.0114771	0.00197171	-0.0427	0.0605	0.471793
rs10908419	1	154567699	G	A	0.0113875	0.0019657	-0.0076	0.0603	0.510028
rs10908465	1	155389688	C	T	-0.0157145	0.0022193	-0.055	0.0687	0.732654
rs11127186	2	28881407	T	C	-0.0110975	0.00200676	0.0285	0.0629	0.504215
rs11182428	12	38526387	T	C	0.0118222	0.00196738	-0.049	0.061	0.479988
rs11264322	1	155087933	G	A	0.00983463	0.00199554	0.0807	0.0626	0.570174
rs1149605	11	76485216	T	C	-0.0203649	0.00262634	-0.0901	0.0817	0.829642
rs116970203	11	14876718	G	A	0.344103	0.00604043	-0.0823	0.2469	0.972854
rs11732896	4	88287993	G	A	0.015001	0.00214451	-0.1184	0.0682	0.701193
rs12056768	8	116988527	T	G	0.0216054	0.0019971	-0.0869	0.0613	0.417109
rs12317268	12	21352541	A	G	0.0192946	0.00274768	0.0683	0.0823	0.849004
rs12372115	12	97982701	G	T	0.0207748	0.00382803	-0.0514	0.1195	0.929278
rs1260326	2	27730940	T	C	-0.0205984	0.00200946	0.0164	0.0615	0.393449
rs12794714	11	14913575	G	A	0.0692066	0.00198946	-0.0873	0.0618	0.578149
rs12803256	11	71132868	A	G	-0.103558	0.0023682	0.0076	0.0671	0.223276
rs12881545	14	101176212	G	C	-0.00951387	0.00210312	0.0026	0.0656	0.326518
rs13060130	3	84440527	C	T	0.0135967	0.00283432	-0.0437	0.0885	0.860343
rs13104260	4	70348090	G	A	-0.00648517	0.00225343	0.0077	0.0708	0.743081
rs13284054	9	107669073	T	C	-0.0178056	0.00309215	0.1024	0.094	0.882245
rs1352846	4	72617775	A	G	0.183861	0.00216171	-0.0736	0.0691	0.708555

rs1660839	11	71094232	G	A	-0.0289517	0.00227489	-0.0853	0.07	0.751121
rs17216707	20	52732362	T	C	0.0362329	0.00260201	0.0227	0.077	0.817326
rs17231506	16	56994528	C	T	0.0178297	0.00210314	-0.1847	0.0658	0.676898
rs1800588	15	58723675	C	T	0.0308346	0.00238954	0.0271	0.0744	0.784792
rs2012736	2	234622379	C	A	0.0455066	0.00361616	-0.201	0.1103	0.919152
rs2037511	18	61366207	G	A	-0.0168582	0.00264423	0.0927	0.0815	0.834022
rs2074735	22	31535872	G	C	-0.0275007	0.00401718	-0.0833	0.1136	0.935944
rs212100	19	48376995	T	C	0.0602544	0.00265433	-0.1506	0.0841	0.164003
rs2131925	1	63025942	G	T	0.0211261	0.00205682	0.0128	0.0652	0.356411
rs2229742	21	16339172	G	C	0.0240457	0.00322702	-0.0779	0.0993	0.896533
rs2248551	6	131924689	G	A	0.0203669	0.00264676	-0.0899	0.0851	0.834819
rs2346264	7	133536351	A	C	0.0142533	0.00240377	-0.0387	0.0743	0.217301
rs261291	15	58680178	T	C	0.0256413	0.00205788	-0.0694	0.063	0.644799
rs2710651	2	63166379	G	A	0.0113064	0.00196984	0.0107	0.0617	0.471888
rs2725371	8	30854033	A	G	-0.00861253	0.00215382	-0.0085	0.0669	0.302285
rs28692966	8	25892919	G	A	-0.0140087	0.00226945	0.0011	0.0695	0.747024
rs2952289	17	66464414	C	T	-0.0159269	0.00245912	-0.0651	0.0764	0.201966
rs31612	5	108996643	T	C	0.0124544	0.00261401	0.0423	0.077	0.825572
rs325384	15	100229761	C	T	0.0126665	0.00218846	0.066	0.0707	0.715856
rs34290760	8	9185179	C	G	0.0281839	0.00585264	-0.3061	0.1803	0.970879
rs35408430	1	17560195	C	T	0.0207679	0.00207182	-0.0172	0.0647	0.657829
rs3849374	2	101443397	G	C	0.0159963	0.00258093	-0.0952	0.0795	0.82199
rs3925446	10	91495322	G	A	-0.0147869	0.002463	-0.0539	0.0772	0.800891
rs4121823	18	47144223	T	A	0.0165318	0.00274098	-0.1955	0.0873	0.154674
rs4327060	16	72807438	C	T	0.0226633	0.00433397	0.0176	0.1381	0.945604
rs4418728	10	94839724	G	T	-0.0111594	0.00197359	0.0501	0.0615	0.54832
rs4575545	16	79755446	G	A	0.0145918	0.00214424	-0.1114	0.0659	0.695191
rs4616820	4	57745481	C	T	0.012479	0.00199079	-0.0935	0.0609	0.535048

rs4738684	8	59393273	A	G	-0.00994588	0.00208683	-0.0346	0.0647	0.334508
rs541041	2	21294975	G	A	0.0152241	0.00255168	0.1757	0.0762	0.180809
rs55829990	15	63790642	T	C	0.0191915	0.00207492	0.0058	0.0633	0.655979
rs590215	18	57904088	C	T	0.00462051	0.00222766	0.019	0.0701	0.734097
rs6003456	22	23356100	T	A	0.0122883	0.00233244	0.0004	0.0736	0.765364
rs613808	11	116710968	A	G	-0.024948	0.00220937	0.0335	0.0676	0.279985
rs61891388	11	66079818	T	G	-0.0115084	0.00198127	-0.014	0.0605	0.544054
rs62007299	15	77711719	G	A	0.0116231	0.00217065	-0.0568	0.0668	0.287451
rs6672758	1	230303512	C	T	-0.0146302	0.0024755	-0.0536	0.0762	0.199137
rs6782190	3	85639672	G	A	0.0189106	0.00205644	-0.0695	0.0638	0.352497
rs6966728	7	104618318	C	T	0.0113076	0.00201049	0.055	0.0612	0.537355
rs705117	4	72608115	C	T	0.0317739	0.00276853	-0.1853	0.0916	0.147721
rs7149014	14	29802911	T	C	0.0107334	0.0020584	0.0851	0.0628	0.370816
rs727857	2	58981967	G	A	0.0109766	0.00203429	-0.0385	0.0624	0.388495
rs72834856	6	22801858	T	G	0.0251376	0.00379985	-0.0071	0.1196	0.927943
rs72997623	11	75488054	C	A	-0.0257654	0.00353337	-0.0625	0.103	0.915323
rs7522116	1	41835685	C	T	0.012542	0.00199858	0.1126	0.0618	0.433716
rs7528419	1	109817192	A	G	-0.019866	0.00235556	0.0438	0.0754	0.775305
rs7569755	2	118648261	G	A	-0.0135962	0.00218248	0.0771	0.0678	0.709372
rs75741381	7	100809458	C	G	0.0137731	0.00278718	-0.0689	0.0861	0.852317
rs7604788	2	21190024	C	T	-0.0352194	0.0054801	-0.1243	0.1688	0.966596
rs76798800	1	154994978	G	T	0.00904347	0.00222959	-0.021	0.0779	0.733722
rs77532868	10	88081438	C	T	-0.0230071	0.0043429	0.2162	0.1636	0.945978
rs7784802	7	64015379	A	T	-0.0129774	0.00204446	0.0887	0.0665	0.639012
rs78151190	6	25619007	A	C	0.0179172	0.00293406	0.1043	0.0969	0.871246
rs78649910	4	3482213	T	A	0.019983	0.00320891	0.0171	0.0942	0.893826
rs8018720	14	39556185	G	C	0.0299593	0.0025742	0.0576	0.0806	0.176691
rs804281	8	11611865	A	G	-0.0161836	0.00199452	0.036	0.0618	0.416402

rs8091117	18	28919794	C	A	0.0241938	0.0039757	-0.0204	0.1165	0.934736
rs8113404	19	53065579	C	T	-0.0115758	0.00214261	0.0223	0.0664	0.695417
rs867772	1	220972343	A	G	0.0147054	0.00212274	-0.1698	0.0687	0.315533
rs9476310	6	57767576	C	T	-0.0108729	0.00197437	0.0103	0.0602	0.488661
rs9490317	6	121859499	T	C	-0.0106658	0.00198507	-0.0363	0.0617	0.554066
rs964184	11	116648917	G	C	-0.0414009	0.00290504	-0.0005	0.0873	0.131625
rs9861009	3	141654685	T	C	-0.0139778	0.00222312	0.0081	0.0671	0.272456

Table S3. List of single nucleotide polymorphisms used in the study (Lobar ICH).									
SNP	**Chr**	**Position**	**Effect allele**	**Other allele**	**Beta exposure**	**SE exposure**	**Beta outcome**	**SE outcome**	**EAF**
rs10070734	5	87940026	T	C	-0.0104228	0.00216827	-0.2048	0.0762	0.290475
rs10085881	7	21577960	T	C	0.0141794	0.00220864	0.0291	0.0817	0.717835
rs1038165	12	68665940	C	T	-0.0113988	0.00199136	0.0508	0.0686	0.416644
rs10426	19	51517798	G	A	-0.0245957	0.00239857	0.0675	0.0806	0.786581
rs10454087	17	40735641	C	T	0.0116466	0.00217735	-0.078	0.0734	0.715204
rs10859995	12	96375682	T	C	0.0402233	0.00199365	0.0168	0.0683	0.41738
rs10887718	10	82042624	C	T	0.0114771	0.00197171	-0.0903	0.0664	0.471793
rs10908419	1	154567699	G	A	0.0113875	0.0019657	-0.0932	0.0666	0.510028
rs10908465	1	155389688	C	T	-0.0157145	0.0022193	0.0556	0.0765	0.732654
rs11127186	2	28881407	T	C	-0.0110975	0.00200676	-0.0933	0.0677	0.504215
rs11182428	12	38526387	T	C	0.0118222	0.00196738	0.0658	0.067	0.479988
rs11264322	1	155087933	G	A	0.00983463	0.00199554	0.022	0.0691	0.570174
rs1149605	11	76485216	T	C	-0.0203649	0.00262634	0.1488	0.0932	0.829642
rs116970203	11	14876718	G	A	0.344103	0.00604043	0.2686	0.2844	0.972854
rs11732896	4	88287993	G	A	0.015001	0.00214451	-0.1945	0.0737	0.701193
rs12056768	8	116988527	T	G	0.0216054	0.0019971	-0.0245	0.0674	0.417109
rs12317268	12	21352541	A	G	0.0192946	0.00274768	-0.0304	0.0907	0.849004
rs12372115	12	97982701	G	T	0.0207748	0.00382803	-0.0678	0.1305	0.929278
rs1260326	2	27730940	T	C	-0.0205984	0.00200946	-0.0104	0.0687	0.393449
rs12794714	11	14913575	G	A	0.0692066	0.00198946	0.0238	0.0686	0.578149
rs12803256	11	71132868	A	G	-0.103558	0.0023682	0.0322	0.0738	0.223276
rs12881545	14	101176212	G	C	-0.00951387	0.00210312	0.1057	0.0723	0.326518
rs13060130	3	84440527	C	T	0.0135967	0.00283432	0.1168	0.1011	0.860343
rs13104260	4	70348090	G	A	-0.00648517	0.00225343	0.0225	0.078	0.743081
rs13284054	9	107669073	T	C	-0.0178056	0.00309215	0.1181	0.1035	0.882245
rs1352846	4	72617775	A	G	0.183861	0.00216171	-0.0563	0.0746	0.708555

rs1660839	11	71094232	G	A	-0.0289517	0.00227489	-0.0418	0.0784	0.751121
rs17216707	20	52732362	T	C	0.0362329	0.00260201	0.0702	0.0852	0.817326
rs17231506	16	56994528	C	T	0.0178297	0.00210314	-0.1814	0.072	0.676898
rs1800588	15	58723675	C	T	0.0308346	0.00238954	-0.0302	0.0813	0.784792
rs2012736	2	234622379	C	A	0.0455066	0.00361616	-0.2614	0.1188	0.919152
rs2037511	18	61366207	G	A	-0.0168582	0.00264423	0.059	0.0874	0.834022
rs2074735	22	31535872	G	C	-0.0275007	0.00401718	0.0094	0.1286	0.935944
rs212100	19	48376995	T	C	0.0602544	0.00265433	-0.0348	0.091	0.164003
rs2131925	1	63025942	G	T	0.0211261	0.00205682	0.071	0.0715	0.356411
rs2229742	21	16339172	G	C	0.0240457	0.00322702	-0.0551	0.1096	0.896533
rs2248551	6	131924689	G	A	0.0203669	0.00264676	-0.0284	0.0941	0.834819
rs2346264	7	133536351	A	C	0.0142533	0.00240377	-0.1081	0.0836	0.217301
rs261291	15	58680178	T	C	0.0256413	0.00205788	0.0126	0.0707	0.644799
rs2710651	2	63166379	G	A	0.0113064	0.00196984	-0.0152	0.0672	0.471888
rs2725371	8	30854033	A	G	-0.00861253	0.00215382	-0.0395	0.0749	0.302285
rs28692966	8	25892919	G	A	-0.0140087	0.00226945	0.0271	0.0772	0.747024
rs2952289	17	66464414	C	T	-0.0159269	0.00245912	0.0433	0.0834	0.201966
rs31612	5	108996643	T	C	0.0124544	0.00261401	0.1137	0.0864	0.825572
rs325384	15	100229761	C	T	0.0126665	0.00218846	-0.0262	0.0773	0.715856
rs34290760	8	9185179	C	G	0.0281839	0.00585264	-0.1629	0.2162	0.970879
rs35408430	1	17560195	C	T	0.0207679	0.00207182	0.0269	0.0714	0.657829
rs3849374	2	101443397	G	C	0.0159963	0.00258093	-0.0157	0.0875	0.82199
rs3925446	10	91495322	G	A	-0.0147869	0.002463	-0.0243	0.0864	0.800891
rs4121823	18	47144223	T	A	0.0165318	0.00274098	-0.1894	0.0963	0.154674
rs4327060	16	72807438	C	T	0.0226633	0.00433397	0.0107	0.1501	0.945604
rs4418728	10	94839724	G	T	-0.0111594	0.00197359	-0.0855	0.0674	0.54832
rs4575545	16	79755446	G	A	0.0145918	0.00214424	-0.047	0.0727	0.695191
rs4616820	4	57745481	C	T	0.012479	0.00199079	-0.0421	0.0667	0.535048

rs4738684	8	59393273	A	G	-0.00994588	0.00208683	0.0141	0.0725	0.334508
rs541041	2	21294975	G	A	0.0152241	0.00255168	0.0821	0.085	0.180809
rs55829990	15	63790642	T	C	0.0191915	0.00207492	0.0089	0.0695	0.655979
rs590215	18	57904088	C	T	0.00462051	0.00222766	0.0838	0.0782	0.734097
rs6003456	22	23356100	T	A	0.0122883	0.00233244	-0.0071	0.0824	0.765364
rs613808	11	116710968	A	G	-0.024948	0.00220937	0.1353	0.0747	0.279985
rs61891388	11	66079818	T	G	-0.0115084	0.00198127	-0.0365	0.0673	0.544054
rs62007299	15	77711719	G	A	0.0116231	0.00217065	0.0333	0.0739	0.287451
rs6672758	1	230303512	C	T	-0.0146302	0.0024755	-0.1721	0.0851	0.199137
rs6782190	3	85639672	G	A	0.0189106	0.00205644	-0.0788	0.0689	0.352497
rs6966728	7	104618318	C	T	0.0113076	0.00201049	-0.0063	0.0667	0.537355
rs705117	4	72608115	C	T	0.0317739	0.00276853	-0.05	0.0984	0.147721
rs7149014	14	29802911	T	C	0.0107334	0.0020584	0.1049	0.0691	0.370816
rs727857	2	58981967	G	A	0.0109766	0.00203429	-0.044	0.0681	0.388495
rs72834856	6	22801858	T	G	0.0251376	0.00379985	-0.0928	0.1298	0.927943
rs72997623	11	75488054	C	A	-0.0257654	0.00353337	-0.1364	0.1145	0.915323
rs7522116	1	41835685	C	T	0.012542	0.00199858	0.1021	0.0676	0.433716
rs7528419	1	109817192	A	G	-0.019866	0.00235556	0.03	0.0817	0.775305
rs7569755	2	118648261	G	A	-0.0135962	0.00218248	-0.0163	0.0728	0.709372
rs75741381	7	100809458	C	G	0.0137731	0.00278718	-0.1322	0.0932	0.852317
rs7604788	2	21190024	C	T	-0.0352194	0.0054801	0.1844	0.1992	0.966596
rs77532868	10	88081438	C	T	-0.0230071	0.0043429	0.1326	0.1812	0.945978
rs7784802	7	64015379	A	T	-0.0129774	0.00204446	0.0769	0.073	0.639012
rs78151190	6	25619007	A	C	0.0179172	0.00293406	-0.0572	0.103	0.871246
rs78649910	4	3482213	T	A	0.019983	0.00320891	0.0008	0.1054	0.893826
rs8018720	14	39556185	G	C	0.0299593	0.0025742	0.0342	0.0901	0.176691
rs804281	8	11611865	A	G	-0.0161836	0.00199452	-0.0266	0.0684	0.416402
rs8091117	18	28919794	C	A	0.0241938	0.0039757	0.0411	0.1275	0.934736

rs8113404	19	53065579	C	T	-0.0115758	0.00214261	-0.0452	0.0729	0.695417
rs867772	1	220972343	A	G	0.0147054	0.00212274	-0.1675	0.0741	0.315533
rs9476310	6	57767576	C	T	-0.0108729	0.00197437	-0.0008	0.0667	0.488661
rs9490317	6	121859499	T	C	-0.0106658	0.00198507	-0.0659	0.0665	0.554066
rs964184	11	116648917	G	C	-0.0414009	0.00290504	0.1177	0.0943	0.131625
rs9861009	3	141654685	T	C	-0.0139778	0.00222312	0.0095	0.0739	0.272456

Table S4. Sensetivity analysis using Multivariable MR.

	MV MR VitD - SBP	MV MR VitD - LDL-C	MV MR VitD - Longevity
	OR (95%CI; p)	OR (95%CI; p)	OR (95%CI; p)
All ICH	1.61 (1.05-2.4; p=0.03)	1.65 (1.07-2.53; p=0.02)	1.58 (1.04-2.41; p=0.03)
Lobar ICH	1.43 (0.85-1.43; p=0.17)	1.44 (0.86-1.44; p=0.16)	1.42 (0.85-2.37; p=0.18)
Non-Lobar ICH	1.88 (1.18-2.99; p=0.008)	1.97 (1.24-3.13; p=0.004)	1.85 (1.17-2.94; p=0.009)

SBP= systolic blood pressure. LDL-C = Low density lipoprotein cholesterol. ICH = Intracerebral hemorrhage. VitD = Vitamin D. OR = odds ratio. 95%CI = 95% confidence interval.

Figure S1. The leave-one-out plot for all ICH.

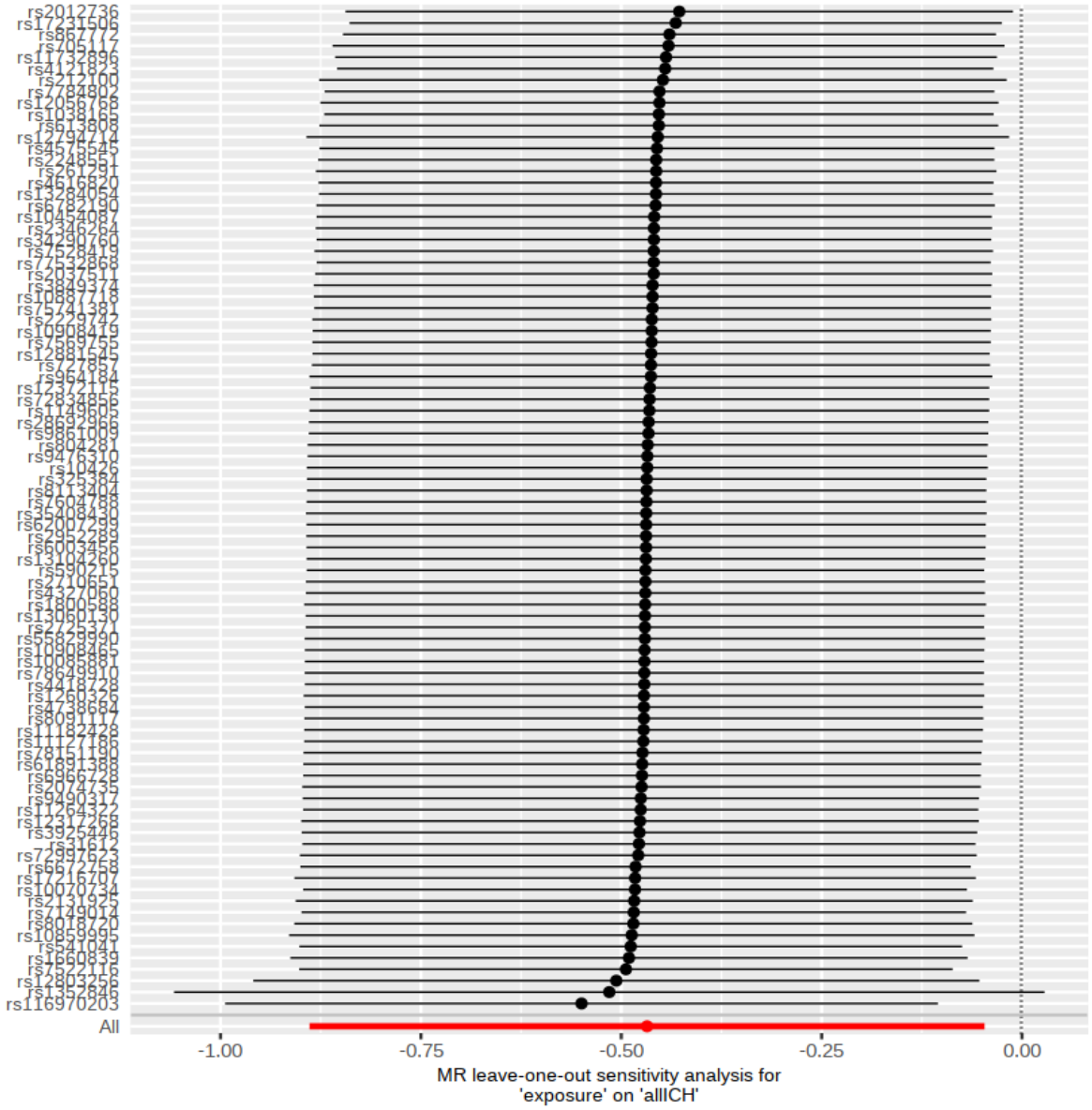

Figure S2. The leave-one-out plots for lobar ICH.

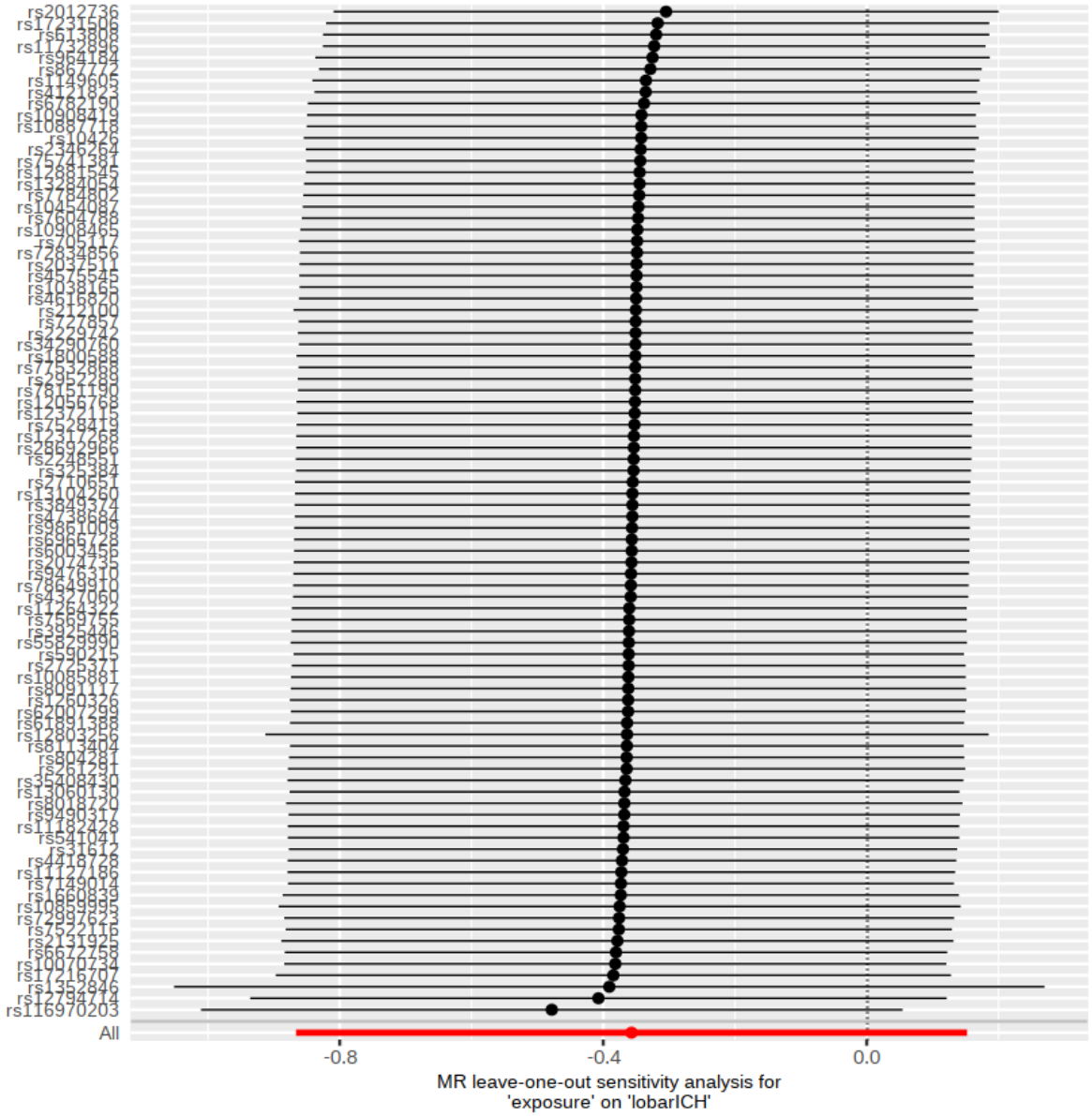

Figure S3. The leave-one-out plots for non-lobar ICH.

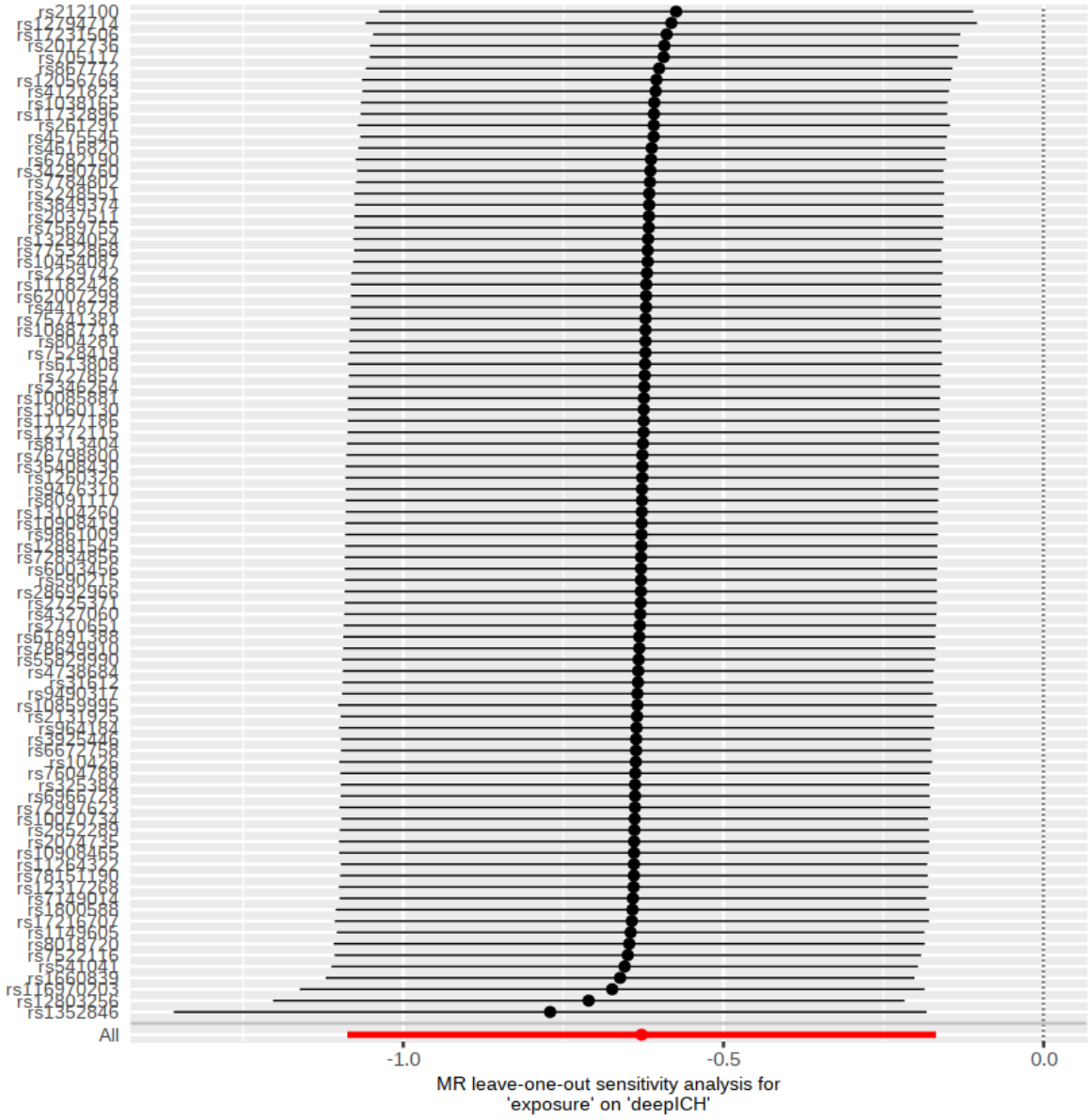

Figure S4. The Cook's distance plot for all ICH.

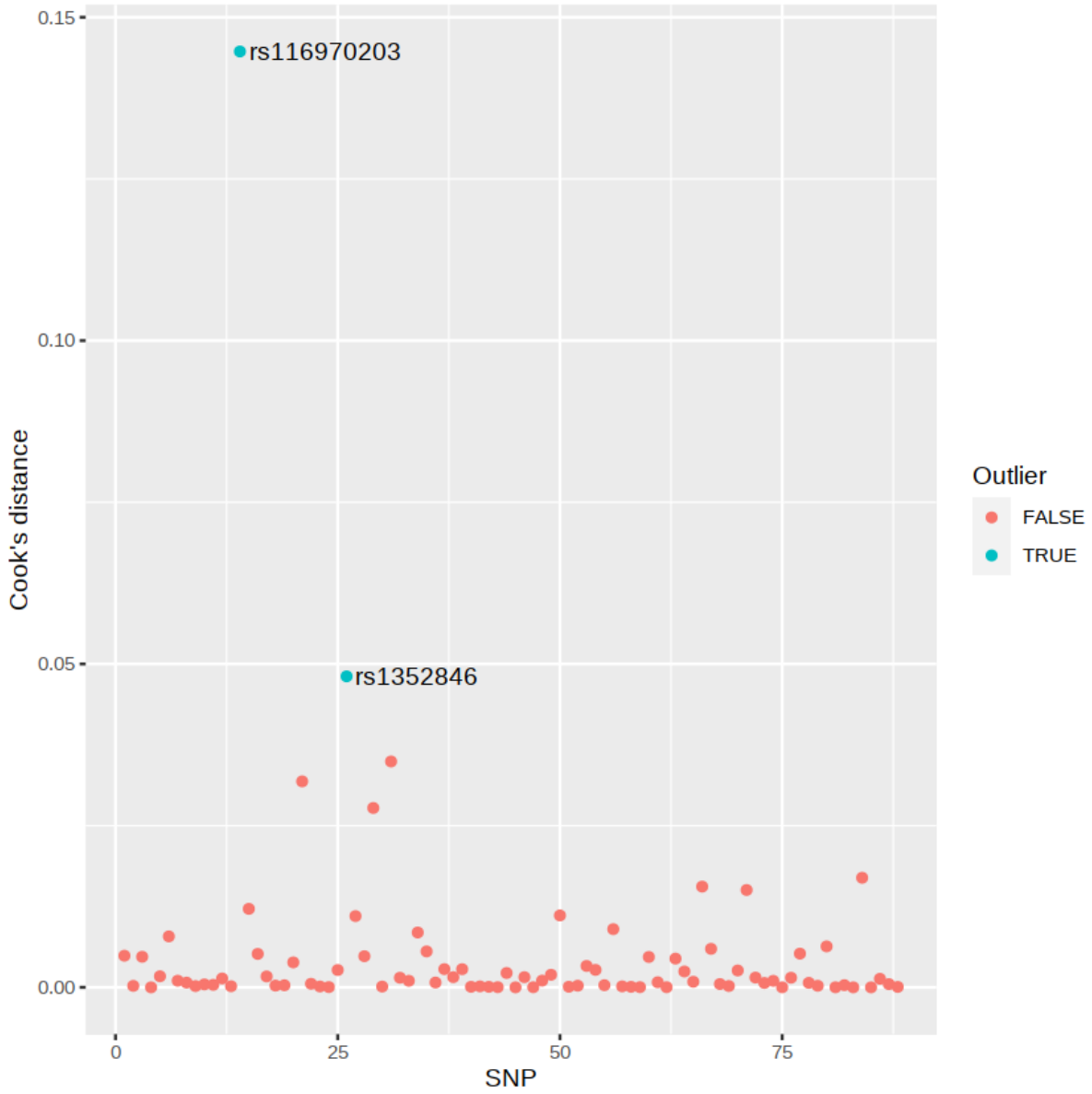

Figure S5. The Cook's distance plot for lobar ICH.

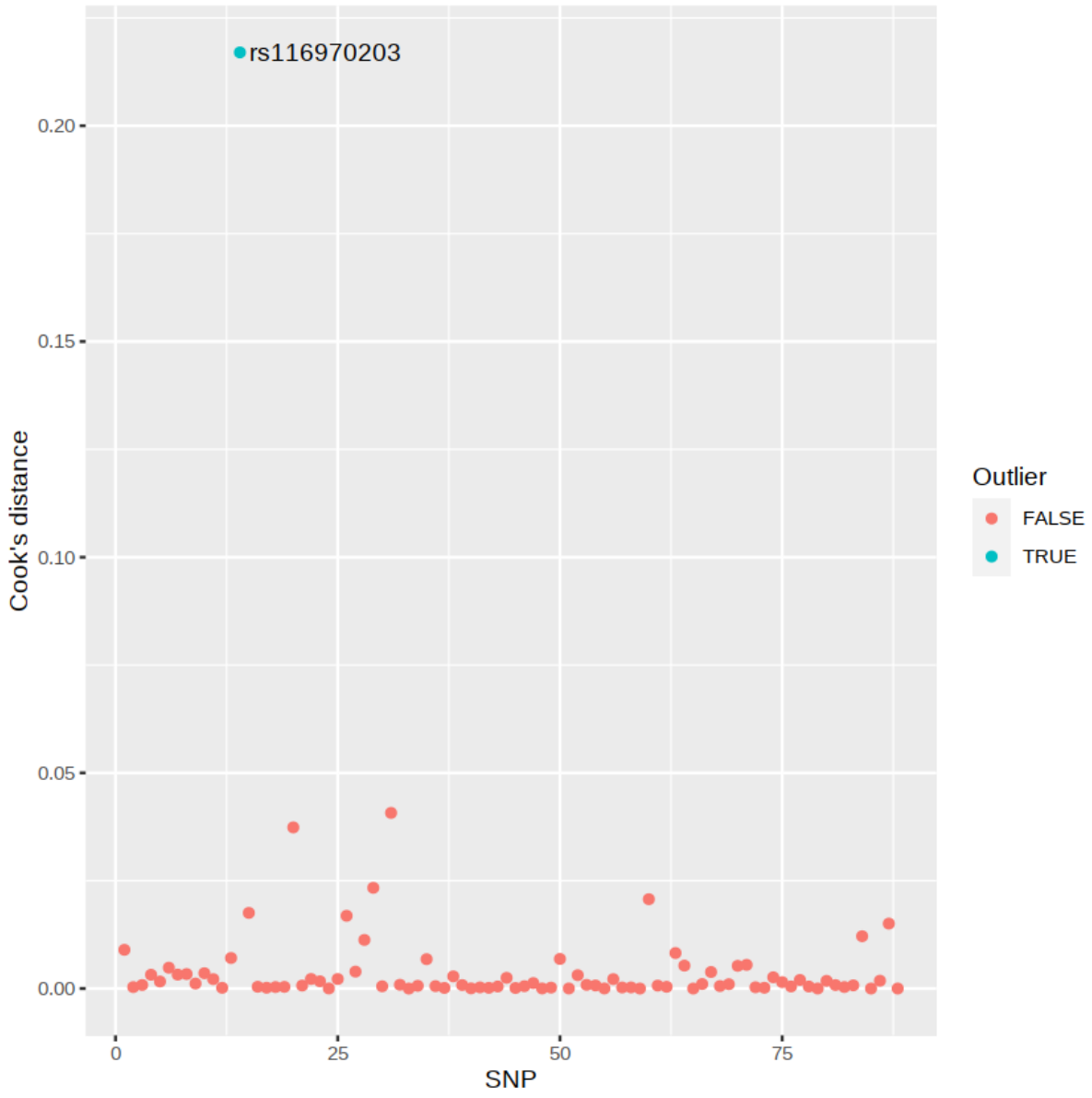

Figure S6. The Cook's distance plot for non-lobar ICH.