

Supplementary Files

Secondhand smoke, genetic susceptibility, and incident chronic kidney disease in never smokers: a prospective study of 214,244 UK Biobank participants.

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Supplemental File Table 1. Components of the genetic risk score by study.

SNP	CHR	BP	A1	A2	OR	P
rs116626164	1	50975227	A	T	1.1	0.0028
rs116760613	1	51490709	A	G	1.09	0.0022
rs72661397	1	52013915	T	C	0.93	0.0083
rs760077	1	155178782	A	T	1.02	0.016
rs2383531	1	186729401	A	G	0.93	4.30E-05
rs3791760	2	10118424	T	C	0.98	0.013
rs11123170	2	113978940	C	G	0.97	1.10E-05
rs1078442	2	121988924	A	C	1.04	2.70E-06
rs72929920	2	177097022	T	C	1.14	7.50E-07
rs1047891	2	211540507	A	C	1.05	3.00E-08
rs2332036	3	121714391	T	C	1.02	0.0035
rs28817415	4	77401452	T	C	1.07	1.90E-16
rs12509595	4	81182554	T	C	1.07	5.10E-14
rs1229984	4	100239319	T	C	1.05	0.0025
rs11745300	5	34504668	C	G	0.96	3.10E-06
rs4976646	5	176788570	T	C	0.95	2.40E-10
rs7766720	6	107172979	T	C	0.97	0.0097
rs162185	6	134226147	T	C	0.98	0.019
rs13230625	7	1286244	A	G	1.07	8.50E-13
rs700753	7	46753684	C	G	0.97	0.0011
rs55914958	7	101237753	T	C	0.98	0.037
rs73728279	7	151411494	T	G	1.11	7.00E-24
rs7834797	8	23759535	A	G	1.04	1.20E-06

rs7084402	10	60265404	A	G	1.02	0.025
rs10821944	10	63785089	T	G	0.98	0.01
rs7096822	10	126664166	T	C	1.02	0.011
rs3925584	11	30760335	T	C	1.08	2.70E-21
rs11039216	11	47406592	T	C	1.04	2.10E-05
rs7123489	11	65524252	A	C	1.06	1.60E-11
rs4567493	11	86634423	A	G	1.02	0.014
rs7931938	11	111207105	A	G	1.03	0.0019
rs7936300	11	122601034	A	G	0.98	0.045
rs2122982	12	57781893	A	G	0.96	5.40E-05
rs1275609	12	76271183	A	G	0.97	0.0012
rs584480	13	72345505	T	C	0.98	0.04
rs7327286	13	73713447	A	G	0.97	0.0038
rs17730281	15	53907948	A	G	0.92	1.40E-18
rs4886755	15	76298132	A	G	0.97	2.60E-05
rs12908437	15	99287375	T	C	1.02	0.008
rs77924615	16	20392332	A	G	0.81	6.70E-86
rs8050136	16	53816275	A	C	1.03	2.80E-05
rs6504021	17	59240473	T	C	1.04	2.60E-05
rs16942713	18	24386535	T	G	1.07	1.00E-09
rs8096658	18	77156537	C	G	0.94	2.00E-12
rs7259714	19	817394	T	C	0.98	0.0093
rs838144	19	49250239	T	C	0.97	0.0027
rs6026580	20	57468150	T	C	0.98	0.018
rs2823139	21	16576783	A	G	1.05	1.20E-08
rs74748843	1	10730910	T	C	1.06	0.0037
rs12061708	1	18809916	A	G	1.03	0.00074
rs2749153	1	23699340	A	G	1.04	5.00E-06
rs688540	1	48002447	A	G	1.04	0.007
rs17413465	1	55718708	A	C	0.98	0.04
rs1757915	1	56615809	A	G	0.97	8.50E-05
rs679843	1	78707493	T	C	0.98	0.039
rs11166440	1	100808363	A	G	0.98	0.0045
rs10857788	1	110012289	A	G	0.98	0.0078
rs12736457	1	113258293	C	G	0.94	2.30E-06
rs267738	1	150940625	T	G	1.05	2.10E-05
rs4971100	1	155155731	A	G	0.98	0.049
rs3845534	1	163738950	A	G	1.03	0.00049
rs4656220	1	170649277	T	C	0.98	0.013
rs3850625	1	201016296	A	G	0.97	0.024
rs2808454	1	207231751	A	T	0.97	5.20E-05
rs75625374	1	208039431	C	G	0.95	0.0047
rs417237	1	228532195	T	G	0.98	0.0017
rs2490391	1	243469669	A	C	1.07	3.70E-17

rs3791221	2	226933	A	G	0.98	0.0076
rs807624	2	15782471	T	G	0.98	0.0055
rs4491726	2	18676276	A	G	0.98	0.022
rs780093	2	27742603	T	C	0.97	1.50E-05
rs2301343	2	40680149	T	G	1.02	0.044
rs2971880	2	54885640	A	T	1.04	5.00E-06
rs6546869	2	73895765	A	G	0.94	6.70E-08
rs11123169	2	113967075	T	C	0.95	2.30E-10
rs11694902	2	121988884	A	G	0.95	2.00E-04
rs7425436	2	148759656	A	G	0.98	0.044
rs4664475	2	152387553	T	C	1.03	0.0017
rs35472707	2	169995581	T	C	1.09	1.60E-05
rs187355703	2	176993583	C	G	0.82	2.80E-10
rs35284526	2	178121524	A	C	0.97	0.0017
rs4666821	2	183077254	T	G	0.97	0.00088
rs60980181	2	188168567	A	T	1.03	0.0015
rs1548945	2	217665788	T	C	0.96	1.70E-06
rs1050816	2	220358198	T	C	0.97	0.00016
rs13003198	2	234257105	T	C	0.98	0.0067
rs795009	3	12208671	T	G	0.97	0.0024
rs6778731	3	13947504	T	C	1.02	0.01
rs6779998	3	30749965	A	G	1.03	8.20E-05
rs11914389	3	38527215	T	C	0.98	0.0026
rs7651407	3	48443816	T	C	0.97	0.001
rs4625	3	49572140	A	G	1.02	0.032
rs3774726	3	63974477	T	C	1.03	4.30E-05
rs2289746	3	105455955	T	C	1.02	0.046
rs9868185	3	121657593	A	G	0.97	0.00074
rs10934754	3	125906237	T	C	0.97	0.00016
rs7624084	3	141093285	T	C	0.97	1.60E-05
rs1397764	3	141750810	A	G	0.97	9.00E-04
rs56065557	3	185354216	C	G	1.02	0.015
rs11919484	3	186432839	T	G	1.03	4.60E-05
rs9823161	3	193811168	A	G	0.98	0.0097
rs16874073	4	23743962	T	C	1.08	3.90E-05
rs4864890	4	52686513	T	C	1.02	0.022
rs223471	4	103698786	C	G	0.98	0.0022
rs71606723	4	115498457	A	T	0.97	0.0033
rs13159523	5	676962	A	G	1.03	0.00029
rs13157326	5	34504277	A	G	1.04	2.60E-06
rs1362800	5	39378115	T	C	1.06	4.60E-11
rs495237	5	39950266	T	G	0.97	0.00061
rs11746506	5	44812566	T	C	0.98	0.0062
rs12520984	5	52787358	C	G	0.98	0.015

rs79760705	5	53298716	T	G	0.95	0.00091
rs72759880	5	67750213	T	G	1.05	0.00039
rs2010352	5	68656327	A	G	1.02	0.01
rs12163971	5	132226669	A	C	1.04	0.00098
rs11743174	5	148524820	T	C	0.97	0.00068
rs3812036	5	176813404	T	C	1.07	1.20E-12
rs3765502	6	24354045	T	C	0.98	0.03
rs144100226	6	34180297	T	C	0.92	0.00036
rs13200335	6	41690823	A	C	0.98	0.0046
rs77915916	6	43287722	A	T	0.95	0.00077
rs881858	6	43806609	A	G	1.06	6.40E-11
rs720989	6	44765535	T	G	0.97	0.00029
rs12212034	6	51492862	T	C	1.02	0.0049
rs6458868	6	52630153	T	C	1.02	0.0048
rs3925003	6	55422618	T	C	1.03	3.70E-05
rs72912510	6	90118764	A	G	1.05	2.00E-05
rs1857859	6	100894587	A	G	0.98	0.005
rs7740107	6	130374461	A	T	0.95	1.30E-06
rs9375818	6	131882078	A	G	1.04	2.20E-06
rs3822939	6	133849789	A	G	1.03	0.00017
rs12207180	6	160633107	A	T	1.09	1.10E-10
rs62435145	7	1286567	T	G	1.07	2.90E-12
rs6968554	7	17287106	A	G	1.02	0.014
rs3750081	7	32930876	T	G	1.03	0.00029
rs55773927	7	65337902	T	C	0.98	0.015
rs801193	7	66030612	T	G	1.02	0.047
rs41301394	7	75612803	T	C	0.97	0.00014
rs6973656	7	77422583	A	G	0.98	0.0028
rs62491533	7	129564134	T	C	1.03	0.0031
rs10254101	7	151415536	T	C	1.11	1.20E-25
rs12671694	7	155665959	T	C	0.97	0.00085
rs868822	7	156252939	T	G	0.95	2.60E-08
rs2980423	8	8142575	T	C	1.03	0.002
rs1533059	8	8684953	A	G	0.98	0.01
rs35353426	8	9297246	T	C	1.03	0.0023
rs7832708	8	10190040	T	C	0.98	0.015
rs11783418	8	10841858	A	G	1.02	0.036
rs10098664	8	11417493	T	C	1.02	0.018
rs34861762	8	23748420	T	C	1.04	1.20E-07
rs10102889	8	32435620	C	G	1.04	0.005
rs2976178	8	87332552	C	G	1.03	0.00036
rs2954017	8	126476873	T	C	0.98	0.047
rs13287724	9	33169034	A	T	1.05	0.00055
rs544169	9	33956791	A	G	0.98	0.0094

rs2039424	9	71432174	A	G	0.96	5.40E-08
rs1321917	9	119324929	C	G	1.02	0.037
rs7024579	9	139100413	T	C	0.98	0.034
rs80282103	10	899071	A	T	0.91	9.90E-11
rs6481598	10	29781798	C	G	0.96	3.50E-05
rs7072591	10	35150364	A	G	0.98	0.024
rs10821905	10	52646093	A	G	0.97	0.0073
rs7475348	10	69965177	T	C	0.96	7.20E-06
rs12240572	10	75016365	A	T	1.04	0.0025
rs816850	10	79252446	C	G	1.02	0.04
rs7095954	10	82209232	A	T	1.02	0.0085
rs2068888	10	94839642	A	G	1.02	0.0019
rs4918943	10	97278922	A	G	1.03	0.00045
rs284859	10	104573017	T	G	0.97	0.0078
rs1536225	10	105202318	T	G	1.02	0.014
rs1055256	10	126446592	A	G	0.97	2.00E-04
rs11564722	11	2178330	T	C	0.98	0.031
rs63934	11	2789062	A	G	0.97	0.002
rs963837	11	30749090	T	C	1.08	1.60E-21
rs6484504	11	31424823	T	C	1.03	0.00068
rs61897431	11	47427667	T	C	0.96	3.20E-07
rs7127946	11	48250675	T	C	0.96	6.20E-08
rs2727040	11	49057603	T	C	1.06	7.80E-07
rs1813937	11	50468801	T	C	0.95	1.30E-07
rs948493	11	65552154	T	C	1.06	7.50E-12
rs11237450	11	78023356	A	C	0.96	3.80E-05
rs6589750	11	119326726	A	G	0.97	0.0014
rs10790452	11	121584931	T	C	0.96	3.10E-05
rs632887	12	3392351	A	G	0.97	0.0011
rs4238020	12	4616642	T	C	0.96	0.0035
rs117113238	12	12209203	A	G	0.96	0.021
rs10846157	12	15325031	A	C	1.05	2.10E-06
rs2634675	12	48740855	A	G	0.97	0.0013
rs12313306	12	57751854	T	C	0.96	5.30E-05
rs41284816	13	50655989	T	G	1.09	0.0083
rs6574652	14	81870100	T	C	1.02	0.019
rs1028455	14	88829975	A	T	0.97	0.00076
rs61993680	14	100752644	A	C	1.02	0.012
rs12913015	15	39305443	T	C	0.96	3.30E-06
rs6492982	15	41399951	T	C	1.03	0.00036
rs1145077	15	45683795	T	G	1.07	2.50E-16
rs690428	15	53950578	A	C	1.07	9.80E-15
rs956006	15	62808539	T	C	0.98	0.0078
rs11071738	15	63580155	T	C	1.03	0.00014

rs351237	15	74477239	A	G	1.02	0.021
rs4886696	15	75664570	A	T	1.02	0.02
rs438339	16	2003425	T	C	0.96	0.029
rs1635404	16	3747042	T	G	1.04	0.00016
rs9932625	16	51735746	A	G	1.03	0.00012
rs7185391	16	68323115	T	G	1.03	0.00084
rs62050038	16	69802865	A	T	0.96	0.00031
rs62053077	16	71643669	T	G	1.03	0.0016
rs28581385	16	79942679	A	T	1.03	0.0098
rs28735420	17	12139964	T	G	0.95	0.00061
rs9891340	17	17543846	T	C	0.98	0.0029
rs2440165	17	19428719	T	C	0.95	2.70E-07
rs2411192	17	34882998	A	T	1.05	4.20E-09
rs4794813	17	37670994	A	T	0.96	7.60E-05
rs227731	17	54773238	T	G	0.97	0.00053
rs9903801	17	58915261	C	G	0.97	0.0013
rs9895661	17	59456589	T	C	0.95	4.70E-07
rs8866	17	65373979	C	G	1.02	0.031
rs1719934	18	5585158	A	G	0.96	4.20E-06
rs16942751	18	24393213	A	C	1.08	2.10E-10
rs4940525	18	59354616	T	C	0.98	0.0068
rs2974751	19	13053034	A	C	0.98	0.013
rs8101667	19	33402419	T	C	0.96	1.70E-06
rs7251730	19	36997147	T	C	0.98	0.048
rs78241494	19	37649748	T	C	1.03	0.0084
rs113445505	19	38157969	T	C	0.97	0.0033
rs281380	19	49214470	T	C	1.03	0.00034
rs34647824	19	50138143	A	C	1.04	3.30E-05
rs1041606	20	14677788	T	C	1.02	0.042
rs6087579	20	32985155	A	G	1.03	0.0013
rs2273684	20	33529766	T	G	0.98	0.0022
rs17216707	20	52732362	T	C	1.05	1.30E-05
rs2235826	20	56143169	A	T	1.03	0.0013
rs1407040	20	57472174	T	C	0.98	0.027
rs35636653	20	60858758	T	C	0.97	0.00034
rs72629024	20	62152519	C	G	0.96	0.0016
rs4408777	20	62706105	A	G	1.04	2.30E-06
rs2834317	21	35356706	A	G	1.05	0.00028
rs131263	22	30133045	T	C	0.97	0.0041
rs80576	22	36539804	A	G	1.04	0.00053
rs4820324	22	38599857	C	G	1.03	0.001
rs738527	22	43112961	T	C	0.96	3.80E-05

SNP: single nucleotide polymorphism; CHR Chromosome;

Supplemental File Table 2. Further adjustment for the sociodemographic HRs (95% CIs) for CKD by secondhand smoke among 185,929 participants within a 11.9-year follow-up.

Secondhand Smoke	model3	model4
	HR(95% CI)	HR(95% CI)
No exposure	1(reference)	1(reference)
Exposure	1.09 (1.03 1.16)	1.08 (1.01 1.14)

Model3: age(continuous), sex (male/female), ethnic (paleface/other), physical activity(low/median/high), townsend deprivation index (continuous), alcohol consumption (frequence1-6), total triglyceride(continuous), body mass index (continuous), hypertension (yes/no), diabetes mellitus(yes/no), CKD-GRS(continuous).

Model4: model3+education(yes/no)+ health diet(yes/no).