

Instrument Variables for MR analysis of smoking initiation and viral hepatitis				SNP exposure				SNP exposure				SNP exposure				SNP exposure			
SNP	exposure	beta_exposure	se_exposure	pval_exposure	outcome	beta_outcome	se_outcome	pval_outcome	SNP	exposure	beta_exposure	se_exposure	pval_exposure	outcome	beta_outcome	se_outcome	pval_outcome		
rs1022376	Smoking initiation	-0.014744839	0.0026275510204081627	2e-08	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0623526	0.029818	0.0364796											
rs10279261	Smoking initiation	-0.019826334	0.0025102040816327	6e-13	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0234587	0.0310635	0.277866											
rs10446419	Smoking initiation	-0.01562634	0.00331632653061224	5e-10	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0363505	0.0362787	0.46234											
rs1050847	Smoking initiation	-0.014830017	0.0025765306122449	7e-09	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0142552	0.029796	0.603219											
rs10698317	Smoking initiation	-0.015351702	0.00561224489795918	2e-09	finngen_R10_ABI_VIRAL_HEPATITIS	0.02871	0.13433	0.80019											
rs10789369	Smoking initiation	-0.023448382	0.00280612244897959	3e-11	finngen_R10_ABI_VIRAL_HEPATITIS	-0.04111	0.030913	0.183564											
rs10885490	Smoking initiation	-0.018677495	0.00280612244897959	4e-19	finngen_R10_ABI_VIRAL_HEPATITIS	0.0448939	0.032378	0.165577											
rs10914684	Smoking initiation	-0.015803844	0.00280612244897959	6e-09	finngen_R10_ABI_VIRAL_HEPATITIS	0.0224205	0.0315289	0.477016											
rs10966092	Smoking initiation	-0.020486193	0.00280612244897959	1e-12	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0552203	0.031579	0.86845											
rs11057005	Smoking initiation	-0.015713902	0.00255102040816327	9e-10	finngen_R10_ABI_VIRAL_HEPATITIS	0.0051682	0.0299662	0.066191											
rs1109480	Smoking initiation	-0.016691703	0.00255102040816327	2e-10	finngen_R10_ABI_VIRAL_HEPATITIS	-0.031326	0.031336	0.13123											
rs113230003	Smoking initiation	-0.018876148	0.00306122448979592	1e-10	finngen_R10_ABI_VIRAL_HEPATITIS	0.0633507	0.0356288	0.0831572											
rs1139897	Smoking initiation	-0.024087192	0.00306122448979592	2e-15	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0934109	0.0311654	0.00272414											
rs1150668	Smoking initiation	-0.018510304	0.00280612244897959	9e-13	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0570359	0.0299001	0.842719											
rs11587399	Smoking initiation	-0.017804557	0.00306122448979592	7e-09	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0585076	0.0397345	0.140896											
rs11642331	Smoking initiation	-0.015998343	0.00280612244897959	3e-09	finngen_R10_ABI_VIRAL_HEPATITIS	-0.00740169	0.0299785	0.645657											
rs117657830	Smoking initiation	-0.037759688	0.0063775510204081627	3e-09	finngen_R10_ABI_VIRAL_HEPATITIS	0.0666765	0.11908	0.804825											
rs11768481	Smoking initiation	-0.018556055	0.00280612244897959	5e-12	finngen_R10_ABI_VIRAL_HEPATITIS	0.0387575	0.0300448	0.197053											
rs11783093	Smoking initiation	-0.047124278	0.00357142857142857	2e-41	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0765518	0.0451202	0.0896775											
rs118202	Smoking initiation	-0.03674841	0.00331632653061224	2e-29	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0447332	0.038267	0.127951											
rs1182397	Smoking initiation	-0.017113948	0.00306122448979592	5e-09	finngen_R10_ABI_VIRAL_HEPATITIS	0.0447853	0.0361834	0.215836											
rs1187820	Smoking initiation	-0.014271156	0.0025765306122449	3e-08	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0202853	0.0307572	0.509555											
rs11889814	Smoking initiation	-0.021065769	0.0038265306122449	3e-08	finngen_R10_ABI_VIRAL_HEPATITIS	0.0508862	0.0433237	0.241365											
rs12027999	Smoking initiation	-0.024326856	0.0038265306122449	5e-10	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0558236	0.0314233	0.13264											
rs12130857	Smoking initiation	-0.018003138	0.00255102040816327	4e-11	finngen_R10_ABI_VIRAL_HEPATITIS	0.00471327	0.030156	0.886481											
rs12530388	Smoking initiation	-0.01836168	0.00255102040816327	6e-13	finngen_R10_ABI_VIRAL_HEPATITIS	-0.04502468	0.029682	0.878841											
rs12633090	Smoking initiation	-0.023019686	0.00306122448979592	3e-12	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0540636	0.043996	0.218764											
rs12642744	Smoking initiation	-0.016590752	0.00280612244897959	3e-08	finngen_R10_ABI_VIRAL_HEPATITIS	0.0710613	0.0390418	0.855572											
rs12739243	Smoking initiation	-0.021251839	0.00306122448979592	4e-12	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0320456	0.0327902	0.328425											
rs12755632	Smoking initiation	-0.014505137	0.00280612244897959	2e-08	finngen_R10_ABI_VIRAL_HEPATITIS	0.00317806	0.0313649	0.290251											
rs12918191	Smoking initiation	-0.019727034	0.00306122448979592	3e-11	finngen_R10_ABI_VIRAL_HEPATITIS	0.00115064	0.0390119	0.976319											
rs13110073	Smoking initiation	-0.024642577	0.00255102040816327	3e-21	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0203403	0.0300543	0.457946											
rs13237367	Smoking initiation	-0.023682335	0.00255102040816327	2e-20	finngen_R10_ABI_VIRAL_HEPATITIS	0.0423373	0.0297286	0.175536											
rs13261266	Smoking initiation	-0.01994581	0.00255102040816327	4e-15	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0231124	0.0298271	0.156655											
rs13392622	Smoking initiation	-0.023437547	0.0038265306122449	2e-10	finngen_R10_ABI_VIRAL_HEPATITIS	0.0371201	0.0377731	0.265575											
rs1343771	Smoking initiation	-0.021709828	0.00357142857142857	1e-14	finngen_R10_ABI_VIRAL_HEPATITIS	0.00090873	0.0356253	0.97965											
rs1373178	Smoking initiation	-0.020316398	0.00255102040816327	4e-15	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0436109	0.0383003	0.13284											
rs1381775	Smoking initiation	-0.015614667	0.00280612244897959	3e-08	finngen_R10_ABI_VIRAL_HEPATITIS	0.0335039	0.033961	0.572001											
rs13906	Smoking initiation	-0.024529729	0.004081632653061224	2e-09	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0716277	0.037668	0.1021091											
rs1449012	Smoking initiation	-0.015373412	0.00255102040816327	2e-09	finngen_R10_ABI_VIRAL_HEPATITIS	0.0679636	0.0307506	0.0072095											
rs1514176	Smoking initiation	-0.019300157	0.00255102040816327	9e-14	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0731744	0.0298153	0.0411176											
rs1549979	Smoking initiation	-0.024522314	0.00280612244897959	8e-21	finngen_R10_ABI_VIRAL_HEPATITIS	-0.065195	0.0326588	0.0459187											
rs160631	Smoking initiation	-0.017262844	0.00280612244897959	2e-09	finngen_R10_ABI_VIRAL_HEPATITIS	0.0317937	0.0328113	0.332552											
rs16826681	Smoking initiation	-0.02260888	0.0038265306122449	9e-09	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0191752	0.0474883	0.686368											
rs17145227	Smoking initiation	-0.01629531	0.00255102040816327	3e-10	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0452124	0.0310588	0.133152											
rs17197663	Smoking initiation	-0.021587353	0.0038265306122449	2e-08	finngen_R10_ABI_VIRAL_HEPATITIS	-0.10712	0.0527998	0.0427788											
rs17229285	Smoking initiation	-0.015479556	0.00255102040816327	1e-09	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0540168	0.0298894	0.0707278											
rs172572	Smoking initiation	-0.018688144	0.00255102040816327	6e-10	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0165374	0.0312463	0.596624											
rs1935571	Smoking initiation	-0.015720382	0.00255102040816327	7e-10	finngen_R10_ABI_VIRAL_HEPATITIS	0.0161782	0.0325597	0.486647											
rs2063976	Smoking initiation	-0.020181425	0.00255102040816327	7e-14	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0242289	0.0297593	0.558557											
rs2196356	Smoking initiation	-0.018772762	0.00280612244897959	2e-11	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0358197	0.035719	0.316392											
rs2279829	Smoking initiation	-0.017376566	0.00306122448979592	2e-08	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0374078	0.038015	0.254107											
rs2289791	Smoking initiation	-0.01772516	0.00306122448979592	2e-09	finngen_R10_ABI_VIRAL_HEPATITIS	-0.00459248	0.0367271	0.900489											
rs2587507	Smoking initiation	-0.01466024	0.00255102040816327	9e-09	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0623261	0.0297887	0.834271											
rs2710634	Smoking initiation	-0.017761428	0.00255102040816327	3e-12	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0567388	0.0299144	0.0578669											
rs28441558	Smoking initiation	-0.03556498	0.00257514285714286	1e-10	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0874469	0.0625497	0.160779											
rs2901785	Smoking initiation	-0.017308272	0.00255102040816327	1e-11	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0114495	0.0298949	0.701339											
rs2939756	Smoking initiation	-0.015699885	0.00255102040816327	7e-10	finngen_R10_ABI_VIRAL_HEPATITIS	0.00665739	0.0297842	0.82313											
rs3115418	Smoking initiation	-0.01422488	0.00255102040816327	3e-08	finngen_R10_ABI_VIRAL_HEPATITIS	0.0142639	0.0297608	0.631735											
rs3121494	Smoking initiation	-0.029126683	0.004081632653061224	3e-13	finngen_R10_ABI_VIRAL_HEPATITIS	0.0308873	0.0361026	0.92236											
rs3278216	Smoking initiation	-0.019843036	0.00306122448979592	1e-11	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0069877	0.0347428	0.8406											
rs329124	Smoking initiation	-0.016387068	0.00255102040816327	2e-10	finngen_R10_ABI_VIRAL_HEPATITIS	0.0264098	0.0301197	0.38058											
rs34342129	Smoking initiation	-0.014281006	0.00255102040816327	2e-08	finngen_R10_ABI_VIRAL_HEPATITIS	-0.00167863	0.0297496	0.955051											
rs35375873	Smoking initiation	-0.02701025	0.00408163265306123	3e-11	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0076906	0.0371798	0.484694											
rs3764351	Smoking initiation	-0.014749162	0.00267857142857143	4e-08	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0635391	0.0319616	0.0468134											
rs3820277	Smoking initiation	-0.018836917	0.00255102040816327	2e-13	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0239064	0.0298419	0.936149											
rs3934797	Smoking initiation	-0.021297466	0.00331632653061225	1e-10	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0549869	0.0413644	0.183239											
rs40443321	Smoking initiation	-0.022640966	0.00280612244897959	2e-17	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0678107	0.0313101	0.0302834											
rs4140932	Smoking initiation	-0.01404522	0.0025765306122449	5e-08	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0136814	0.0297548	0.645657											
rs4310804	Smoking initiation	-0.01817258	0.00306122448979592	8e-10	finngen_R10_ABI_VIRAL_HEPATITIS	0.0257997	0.0324303	0.226297											
rs4326350	Smoking initiation	-0.017613662	0.00255102040816327	5e-12	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0371795	0.0307566	0.462788											
rs4476293	Smoking initiation	-0.018486165	0.00280612244897959	6e-10	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0219258	0.0359817	0.618271											
rs4647953	Smoking initiation	-0.024005337	0.00306122448979592	5e-14	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0921574	0.0399372	0.0193135											
rs4818005	Smoking initiation	-0.020430982	0.00280612244897959	4e-14	finngen_R10_ABI_VIRAL_HEPATITIS	0.0208817	0.0323002	0.517962											
rs4822104	Smoking initiation	-0.016542807	0.00280612244897959	3e-09	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0199139	0.0297937	0.503883											
rs4837631	Smoking initiation	-0.01537429	0.00255102040816327	2e-10	finngen_R10_ABI_VIRAL_HEPATITIS	0.0602761	0.0298155	0.042461											
rs4877285	Smoking initiation	-0.018131824	0.00255102040816327	2e-11	finngen_R10_ABI_VIRAL_HEPATITIS	-0.00518245	0.0316899	0.954165											
rs55944129	Smoking initiation	-0.017565375	0.00280612244897959	1e-09	finngen_R10_ABI_VIRAL_HEPATITIS	-0.00417495	0.0328222	0.897099											
rs5840663	Smoking initiation	-0.020118883	0.00255102040816327	5e-14	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0348621	0.031086	0.850866											
rs586699	Smoking initiation	-0.014803281	0.00255102040816327	7e-09	finngen_R10_ABI_VIRAL_HEPATITIS	0.00829682	0.0299418	0.782402											
rs6011779	Smoking initiation	-0.01917655	0.00331632653061224	3e-09	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0232692	0.0345485	0.500615											
rs6073075	Smoking initiation	-0.018704044	0.00331632653061225	2e-08	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0806716	0.041288	0.152909											
rs6186629	Smoking initiation	-0.017940067	0.00255102040816327	7e-12	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0659263	0.0300732	0.0042551											
rs61959481	Smoking initiation	-0.0203442	0.00306122448979592	8e-11	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0775983	0.0387222	0.260609											
rs62007780	Smoking initiation	-0.015913295	0.00255102040816327	7e-10	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0540857	0.0309223	0.0797132											
rs62052916	Smoking initiation	-0.031913772	0.00510204081632653	2e-10	finngen_R10_ABI_VIRAL_HEPATITIS	-0.180664	0.0540446	0.00089778											
rs62106258	Smoking initiation	-0.04549801	0.00586734693877551	3e-14	finngen_R10_ABI_VIRAL_HEPATITIS	0.00186968	0.107503	0.896123											
rs62137126	Smoking initiation	-0.023691086	0.0038265306122449	1e-09	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0132955	0.0487713	0.785152											
rs62180324	Smoking initiation	-0.019516652	0.00331632653061224	4e-10	finngen_R10_ABI_VIRAL_HEPATITIS	-0.0827759	0.0413996	0.484895											
rs6265	Smoking initiation	-0.029275495	0.00331632653061224	3e-19	finngen_R10_ABI_VIRAL_HEPAT														

