

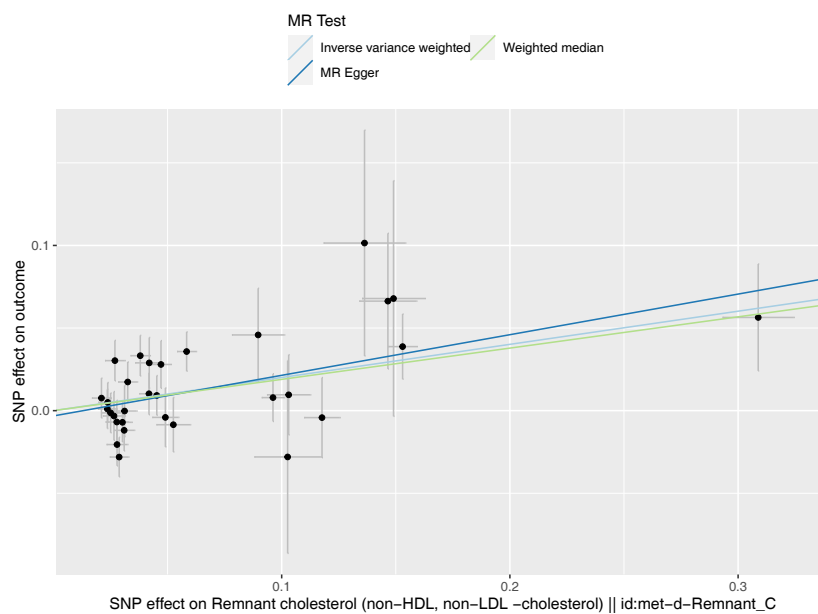


Figure S1 Scatter plots for all MR analyses.

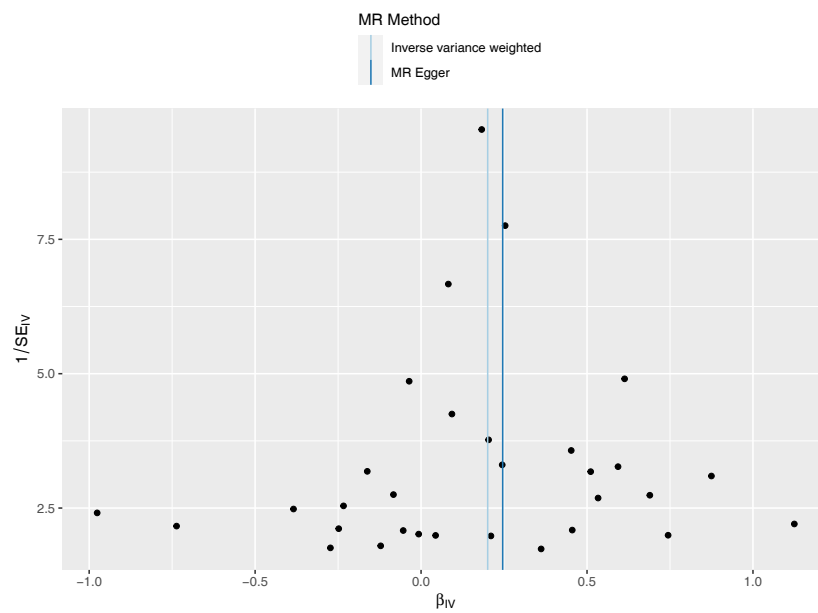


Figure S2 Funnel plots for all MR analyses.

Table S1 31 SNPs F calculated value

	SNP	beta.exposure	beta ²	se.exposure	se ²	eaf.exposure	1-eaf	N	R ²	F
1	rs653178	0.0250495	0.000627477	0.00411025	1.6894E-05	0.51605	0.48395	115078	0.000322648	37.14104332
2	rs2326077	-0.0269267	0.000725047	0.00434915	1.8915E-05	0.663239	0.336761	115078	0.000332982	38.33098173
3	rs6601299	0.0454324	0.002064103	0.0068245	4.6574E-05	0.899273	0.100727	115078	0.000384973	44.3182022
4	rs8103315	0.0419652	0.001761078	0.00615565	3.7892E-05	0.135789	0.864211	115078	0.000403704	46.47540782
5	rs1169292	0.0309831	0.000959952	0.00444971	1.98E-05	0.310508	0.689492	115078	0.000421125	48.4818043
6	rs553427	0.0287876	0.000828726	0.00410357	1.6839E-05	0.517038	0.482962	115078	0.000427474	49.21298173
7	rs111278137	-0.102609	0.010528607	0.0145828	0.00021266	0.021615	0.978385	115078	0.000430041	49.50870005
8	rs12804228	0.052531	0.002759506	0.00742607	5.5147E-05	0.084719	0.915281	115078	0.000434642	50.03866463
9	rs2495477	-0.030727	0.000944149	0.0042846	1.8358E-05	0.393807	0.606193	115078	0.000446718	51.42948862
10	rs56325564	0.0302231	0.000913436	0.00413408	1.7091E-05	0.482712	0.517288	115078	0.000464223	53.44569331
11	rs77960347	0.136299	0.018577417	0.0179241	0.00032127	0.013239	0.986761	115078	0.000502227	57.8233268
12	rs2738447	0.0325346	0.0010585	0.00417877	1.7462E-05	0.59317	0.40683	115078	0.000526469	60.61588621
13	rs11206517	0.0896875	0.008043848	0.0114854	0.00013191	0.033009	0.966991	115078	0.000529602	60.97671714
14	rs4665972	-0.0358659	0.001286363	0.00422008	1.7809E-05	0.604608	0.395392	115078	0.000627274	72.22949039
15	rs3777411	-0.0490352	0.002404451	0.00573562	3.2897E-05	0.150744	0.849256	115078	0.000634727	73.08825838
16	rs7707394	0.0380344	0.001446616	0.00427448	1.8271E-05	0.357078	0.642922	115078	0.000687536	79.17334839
17	rs4704834	0.0418488	0.001751322	0.0042795	1.8314E-05	0.644037	0.355963	115078	0.000830284	95.62521161
18	rs102275	-0.045268	0.002049192	0.00429057	1.8409E-05	0.349784	0.650216	115078	0.000966363	111.3127938
19	rs4299376	-0.0471096	0.002219314	0.00439448	1.9311E-05	0.676279	0.323721	115078	0.00099765	114.9201809
20	rs77542162	0.149004	0.022202192	0.0137987	0.0001904	0.022667	0.977333	115078	0.001012249	116.6036006
21	rs28807203	-0.103065	0.010622394	0.00951475	9.053E-05	0.049209	0.950791	115078	0.001018574	117.3329808
22	rs1081105	0.146542	0.021474558	0.0125305	0.00015701	0.027622	0.972378	115078	0.001187078	136.7665461
23	rs633695	0.0541986	0.002937488	0.00452764	2.05E-05	0.29236	0.70764	115078	0.001243654	143.2929464
24	rs247616	-0.0610998	0.003733186	0.00438588	1.9236E-05	0.32471	0.67529	115078	0.001683612	194.0700597
25	rs12916	0.0583503	0.003404758	0.00418829	1.7542E-05	0.400342	0.599658	115078	0.001683792	194.0908888
26	rs58542926	-0.117667	0.013845523	0.0078106	6.1005E-05	0.074402	0.925598	115078	0.001968306	226.9514803
27	rs261290	-0.0759118	0.005762601	0.00432436	1.87E-05	0.654642	0.345358	115078	0.002670676	308.1536725
28	rs693	0.0773762	0.005987076	0.00410481	1.6849E-05	0.520903	0.479097	115078	0.003078204	355.3212061
29	rs12740374	-0.0961909	0.009252689	0.00493624	2.4366E-05	0.221059	0.778941	115078	0.003288913	379.7238667
30	rs11591147	-0.308812	0.095364851	0.0156332	0.0002444	0.017458	0.982542	115078	0.003379327	390.1979831
31	rs12151108	-0.152987	0.023405022	0.00630638	3.977E-05	0.119677	0.880323	115078	0.005087931	588.492912