MR results of two metabolic traits with NSCLC

Omega_3_pct SNP

SNP	effect_a	other_all	effect_a	other_all	beta.expo	beta.outce	af.expo	seaf.outc
rs1292809	A	C	A	C	0.089249	-0.0011	0.2883	0.281411
rs174546	T	C	T	C	-0.38996	-0.07082	0.3469	0.4141
rs2229738	T	C	T	C	-0.14857	-0.01232	0.0865	0.155919
rs270615	C	G	C	G	0.02805	-0.02136	0.6769	0.584042
rs4310508	G	A	G	A	0.036655	0.018226	0.4871	0.472888
rs600518	T	A	T	A	-0.06066	-0.00986	0.171	0.230482
rs8107974	T	A	T	A	-0.12936	-0.01062	0.0686	0.0636
rs964184	C	G	C	G	-0.03792	-0.02785	0.838	0.855372

Omega_3_pct results

exposure	outcome	method	nsnp	b	se	pval	lo_ci	up_ci
Omega_3_p	NSCLC	MR Egger	8	0.189744	0.062752	0.023285	0.066751	0.312738
Omega_3_p	NSCLC	Weighted	8	0.178701	0.04855	0.000233	0.083544	0.273859
Omega_3_p	NSCLC	Inverse v	8	0.166186	0.045776	0.000283	0.076465	0.255907
Omega_3_p	NSCLC	Simple mo	8	0.110355	0.119386	0.386059	-0.12364	0.344353
Omega_3_p	NSCLC	Weighted	8	0.173242	0.047847	0.008501	0.079462	0.267021

Omega_3_pct heterogeneity

exposure	outcome	method	Q	Q_df	Q_pval
Omega_3_p	NSCLC	MR Egger	3.470295	6	0.747918
Omega_3_p	NSCLC	Inverse v	3.771542	7	0.805683

Omega_3_pct pleiotropy

exposure	outcome	egger_int	se	pval
Omega_3_p	NSCLC	-0.00603	0.010983	0.602911

Omega_3_pct MR-PRESSO

	RSSobs	Pvalue
1	7.785915	0.731

DHA_pct SNP

SNP	effect_a	other_all	effect_a	other_all	beta.expo	beta.outce	af.expo	seaf.outc
rs1046801	T	C	T	C	0.061109	0.003126	0.2833	0.331083
rs1082216	G	T	G	T	0.044815	0.018716	0.4861	0.472735
rs1292809	A	C	A	C	0.070977	-0.0011	0.2883	0.281411
rs174546	T	C	T	C	-0.27403	-0.07082	0.3469	0.4141
rs2229738	T	C	T	C	-0.12909	-0.01232	0.0865	0.155919
rs600626	G	A	G	A	-0.03552	-0.01002	0.171	0.230569

DHA_pct MRresults

exposure	outcome	method	nsnp	b	se	pval	lo_ci	up_ci
DHA_pct	NSCLC	MR Egger	6	0.266491	0.098484	0.053762	0.073464	0.459519
DHA_pct	NSCLC	Weighted	6	0.232508	0.068746	0.000719	0.097765	0.36725
DHA_pct	NSCLC	Inverse v	6	0.227516	0.063214	0.000319	0.103617	0.351414
DHA_pct	NSCLC	Simple mo	6	0.078388	0.144634	0.611104	-0.20509	0.36187
DHA_pct	NSCLC	Weighted	6	0.251538	0.0728	0.018136	0.108849	0.394227

DHA_pct heterogeneity

exposure	outcome	method	Q	Q_df	Q_pval
DHA_pct	NSCLC	MR Egger	1.469323	4	0.832061
DHA_pct	NSCLC	Inverse v	1.735692	5	0.884373

DHA_pct pleiotropy

exposure	outcome	egger_intse		pval
DHA_pct	NSCLC	-0.00696	0.013489	0.632997

DHA_pct MR-PRESSO

	RSSobs	Pvalue
1	6.297764	0.713

Reverse MR results of two metabolic traits with NSCLC

NSCLC and Omega3_pct MR result

SNP	effect_al	other_all	effect_al	other_all	beta.exp	beta.out	eaf.expos	eaf.outc
rs1291438	T	C	T	C	0.250651	-0.00315	0.356526	0.382525
rs359005	A	C	A	C	0.119163	0.002285	0.25565	0.2924
rs37003	C	A	C	A	-0.13644	0.00309	0.439149	0.440911
rs6011779	T	C	T	C	-0.12542	0.003899	0.755965	0.808887
rs8066706	C	T	C	T	0.419587	-0.00219	0.017157	0.020112

NSCLC and DHA_pct MR result

SNP	effect_al	other_all	effect_al	other_all	beta.exp	beta.out	eaf.expos	eaf.outc
rs1291438	T	C	T	C	0.250651	-0.00685	0.356526	0.382525
rs359005	A	C	A	C	0.119163	0.005629	0.25565	0.2924
rs37003	C	A	C	A	-0.13644	-0.00132	0.439149	0.440911
rs6011779	T	C	T	C	-0.12542	0.003532	0.755965	0.808887
rs8066706	C	T	C	T	0.419587	0.008486	0.017157	0.020112

NSCLC-Omega_3_pct heterogeneity

exposure	outcome	method	Q	Q_df	Q_pval
NSCLC	Omega3_pc	MR Egger	4.008363	3	0.260563
NSCLC	Omega3_pc	Inverse v	4.827535	4	0.305456

NSCLC-DHA_pct heterogeneity

exposure	outcome	method	Q	Q_df	Q_pval
NSCLC	DHA_pct	MR Egger	1.061459	3	0.786385
NSCLC	DHA_pct	Inverse v	1.061498	4	0.900332

NSCLC-Omega3_pct pleiotropy

exposure	outcome	egger_intse		pval
NSCLC	Omega3_pc	0.005312	0.006784	0.490748

NSCLC-DHA_pct pleiotropy

exposure	outcome	egger_intse		pval
NSCLC	DHA_pct	3.71E-05	0.005924	0.995394

remove	pval.outc	se.outcom	outcome	exposure	se.exposu	pval.exposu	mr_keep
FALSE	0.958596	0.021254	NSCLC	Omega_3_p	0.004458	8.20E-90	TRUE
FALSE	0.000265	0.019415	NSCLC	Omega_3_p	0.004242	1.00E-200	TRUE
FALSE	0.647979	0.026974	NSCLC	Omega_3_p	0.008099	1.10E-76	TRUE
FALSE	0.272402	0.019463	NSCLC	Omega_3_p	0.004473	4.30E-11	TRUE
FALSE	0.341165	0.019148	NSCLC	Omega_3_p	0.004058	7.10E-21	TRUE
FALSE	0.663419	0.022665	NSCLC	Omega_3_p	0.005555	7.10E-29	TRUE
FALSE	0.785684	0.039058	NSCLC	Omega_3_p	0.007693	8.60E-67	TRUE
FALSE	0.302641	0.027023	NSCLC	Omega_3_p	0.005947	1.20E-10	TRUE

or	or_lci95	or_uci95
1.208941	1.069029	1.367163
1.195664	1.087133	1.31503
1.180793	1.079464	1.291633
1.116674	0.883696	1.411076
1.189154	1.082705	1.306068

remove	pval.outc	se.outcom	outcome	exposure	se.exposu	pval.exposu	mr_keep
FALSE	0.877674	0.020312	NSCLC	DHA_pct	0.004409	6.40E-45	TRUE
FALSE	0.328325	0.019146	NSCLC	DHA_pct	0.00402	5.50E-30	TRUE
FALSE	0.958596	0.021254	NSCLC	DHA_pct	0.004417	2.60E-59	TRUE
FALSE	0.000265	0.019415	NSCLC	DHA_pct	0.004214	1.00E-200	TRUE
FALSE	0.647979	0.026974	NSCLC	DHA_pct	0.008046	9.70E-58	TRUE
FALSE	0.658312	0.022666	NSCLC	DHA_pct	0.005518	6.20E-11	TRUE

or	or_lci95	or_uci95
1.305376	1.076229	1.583313
1.26176	1.102704	1.443759
1.255477	1.109176	1.421076
1.081543	0.814571	1.436012
1.286002	1.114994	1.483237

se.outcome	pval.outcome	pval.exposure	se.exposure	mr_keep
0.004171	0.450001	3.24E-38	0.019392	TRUE
0.004488	0.59	3.06E-08	0.021518	TRUE
0.004119	0.56	1.91E-12	0.019377	TRUE
0.005174	0.28	7.27E-09	0.021681	TRUE
0.014591	0.95	4.27E-10	0.067199	TRUE

se.outcome	pval.outcome	pval.exposure	se.exposure	mr_keep
0.004132	0.11	3.24E-38	0.019392	TRUE
0.004446	0.21	3.06E-08	0.021518	TRUE
0.00408	0.649999	1.91E-12	0.019377	TRUE
0.005125	0.42	7.27E-09	0.021681	TRUE
0.014453	0.42	4.27E-10	0.067199	TRUE