

Trails	method	nsnp	pval	OR(95%CI)	
2-oxoarginine levels	MR Egger	21	0.0159	0.4119 (0.2136-0.7942)	■—
	Weighted median	21	0.1048	0.7775 (0.5737-1.0538)	■—
	Inverse variance weighted	21	<0.01	0.7348 (0.5895-0.9160)	■—
	Simple mode	21	0.5726	0.8587 (0.5102-1.4452)	■—
Pantoate levels	Weighted mode	21	0.4920	0.8512 (0.5421-1.3365)	■—
	MR Egger	27	0.3254	1.2154 (0.8302-1.7795)	■—
	Weighted median	27	0.0326	1.3162 (1.0230-1.6934)	■—
	Inverse variance weighted	27	<0.01	1.3349 (1.1134-1.6005)	■—
O-sulfo-l-tyrosine levels	Simple mode	27	0.0850	1.5835 (0.9575-2.6186)	■—
	Weighted mode	27	0.3838	1.2051 (0.7976-1.8207)	■—
	MR Egger	26	0.2278	0.7854 (0.5357-1.1514)	■—
	Weighted median	26	0.0391	0.7837 (0.6217-0.9879)	■—
1-palmitoyl-2-dihomo-linolenoyl-GPC (16:0/20:3n3 or 6) levels	Inverse variance weighted	26	<0.01	0.7805 (0.6568-0.9275)	■—
	Simple mode	26	0.2334	0.7806 (0.5245-1.1617)	■—
	Weighted mode	26	0.1379	0.7686 (0.5489-1.0761)	■—
	MR Egger	26	0.0277	0.7215 (0.5490-0.9480)	■—
1-(1-enyl-stearoyl)-2-arachidonoyl-GPE (p-18:0/20:4) levels	Weighted median	26	0.0100	0.7715 (0.6332-0.9400)	■—
	Inverse variance weighted	26	<0.01	0.8148 (0.7078-0.9380)	■—
	Simple mode	26	0.4273	0.8588 (0.5933-1.2430)	■—
	Weighted mode	26	0.0131	0.7761 (0.6444-0.9347)	■—
1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	MR Egger	24	0.1038	1.3156 (0.9584-1.8060)	■—
	Weighted median	24	<0.01	1.3626 (1.0892-1.7047)	■—
	Inverse variance weighted	24	<0.01	1.3162 (1.1236-1.5418)	■—
	Simple mode	24	0.0451	1.5205 (1.0319-2.2403)	■—
1-linoleoyl-2-arachidonoyl-GPC (18:2/20:4n6) levels	Weighted mode	24	0.0102	1.3980 (1.1056-1.7677)	■—
	MR Egger	27	<0.01	1.4033 (1.1487-1.7145)	■—
	Weighted median	27	0.0109	1.2665 (1.0560-1.5191)	■—
	Inverse variance weighted	27	<0.01	1.1999 (1.0650-1.3519)	■—
Linoleoyl-arachidonoyl-glycerol (18:2/20:4) [1] levels	Simple mode	27	0.5649	1.0959 (0.8056-1.4908)	■—
	Weighted mode	27	0.0362	1.2368 (1.0242-1.4934)	■—
	MR Egger	20	<0.01	1.3137 (1.1167-1.5454)	■—
	Weighted median	20	<0.01	1.2437 (1.0777-1.4353)	■—
Beta-hydroxyisovalerate levels	Inverse variance weighted	20	<0.01	1.1912 (1.0700-1.3261)	■—
	Simple mode	20	0.1899	1.1900 (0.9261-1.5292)	■—
	Weighted mode	20	0.0146	1.2152 (1.0541-1.4010)	■—
	MR Egger	28	0.5494	1.1105 (0.7914-1.5584)	■—
Succinate levels	Weighted median	28	0.1891	1.1553 (0.9314-1.4329)	■—
	Inverse variance weighted	28	<0.01	1.2421 (1.0647-1.4492)	■—
	Simple mode	28	0.2862	1.2381 (0.8427-1.8191)	■—
	Weighted mode	28	0.2842	1.1828 (0.8752-1.5985)	■—
Phytanate levels	MR Egger	25	0.0347	1.1334 (1.0160-1.2643)	■—
	Weighted median	25	0.0716	1.1279 (0.9895-1.2857)	■—
	Inverse variance weighted	25	<0.01	1.1317 (1.0323-1.2407)	■—
	Simple mode	25	0.2169	1.2755 (0.8757-1.8578)	■—
Decadienedioic acid (C10:2-DC) levels	Weighted mode	25	0.0499	1.1281 (1.0061-1.2649)	■—
	MR Egger	22	0.2979	1.2136 (0.8509-1.7309)	■—
	Weighted median	22	0.0489	1.3149 (1.0013-1.7267)	■—
	Inverse variance weighted	22	<0.01	1.3051 (1.0810-1.5757)	■—
Glycine to alanine ratio	Simple mode	22	0.2875	1.3115 (0.8058-2.1344)	■—
	Weighted mode	22	0.2479	1.3258 (0.8327-2.1109)	■—
	MR Egger	23	<0.01	0.7846 (0.6654-0.9252)	■—
	Weighted median	23	<0.01	0.8266 (0.7281-0.9384)	■—
Cysteine to alanine ratio	Inverse variance weighted	23	<0.01	0.8644 (0.7795-0.9586)	■—
	Simple mode	23	0.3358	0.8464 (0.6073-1.1798)	■—
	Weighted mode	23	<0.01	0.8253 (0.7306-0.9323)	■—
	MR Egger	20	0.0671	0.8216 (0.6742-1.0011)	■—
Spermidine to choline ratio	Weighted median	20	0.0145	0.8217 (0.7021-0.9618)	■—
	Inverse variance weighted	20	<0.01	0.8380 (0.7391-0.9502)	■—
	Simple mode	20	0.3940	0.8616 (0.6166-1.2041)	■—
	Weighted mode	20	0.0266	0.8216 (0.6999-0.9644)	■—
phosphate to asparagine ratio	MR Egger	28	0.2851	0.8104 (0.5555-1.1822)	■—
	Weighted median	28	0.3825	0.8926 (0.6916-1.1519)	■—
	Inverse variance weighted	28	<0.01	0.7800 (0.6523-0.9327)	■—
	Simple mode	28	0.7723	0.9226 (0.5373-1.5840)	■—
Cholesterol to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [1] ratio	Weighted mode	28	0.9959	0.9987 (0.6239-1.5988)	■—
	MR Egger	17	0.0784	1.5254 (0.9842-2.3642)	■—
	Weighted median	17	0.0758	1.3427 (0.9699-1.8588)	■—
	Inverse variance weighted	17	<0.01	1.3861 (1.1033-1.7415)	■—
Cholesterol to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [1] ratio	Simple mode	17	0.1725	1.4192 (0.8778-2.2945)	■—
	Weighted mode	17	0.1345	1.4192 (0.9183-2.1932)	■—
	MR Egger	30	0.1049	0.8533 (0.7088-1.0272)	■—
	Weighted median	30	0.0247	0.8144 (0.6807-0.9742)	■—
Cholesterol to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [1] ratio	Inverse variance weighted	30	<0.01	0.8423 (0.7422-0.9559)	■—
	Simple mode	30	0.1388	0.7373 (0.4981-1.0916)	■—
	Weighted mode	30	0.0203	0.8209 (0.7013-0.9609)	■—
	MR Egger	22	0.0345	0.8012 (0.6615-0.9703)	■—
Cholesterol to linoleoyl-arachidonoyl-glycerol (18:2 to 20:4) [1] ratio	Weighted median	22	<0.01	0.7939 (0.6699-0.9409)	■—
	Inverse variance weighted	22	<0.01	0.8477 (0.7497-0.9584)	■—
	Simple mode	22	0.1350	0.7901 (0.5871-1.0634)	■—
	Weighted mode	22	<0.01	0.7964 (0.6845-0.9265)	■—

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