Patients Study	with schizophreni Total Mean SI	a Healthy controls D Total Mean SD	Standardised Mean Difference		eight Weight ixed) (random)
metabolite = Glu da Silva Alves et al. 2011 (45) Goldstein et al. 2015 (41) Hugdahl et al. 2015 (40) Smesny et al. 2015 (49) Chen et al. 2017 (39) Maddock et al. 2018 (48) Iwata et al. 2019 (38) Kaminski et al. 2019 (25) Wang et al. 2019 (47) Fixed effect model Random effects model Heterogeneity: $I^2 = 68\%$, $\tau^2 = 0.1$	11 6.39 1.320 42 1.17 0.076 18 5.60 3.000 31 11.61 1.080 24 1.64 2.151 17 0.90 0.070 64 14.02 1.550 55 7.92 1.090 72 6.41 0.750 334 431, p < 0.01	15 1.12 0.0500 26 7.63 2.9025 31 10.49 1.6840 4 24 1.28 1.8677 25 0.90 0.0800 26 13.94 1.3200 35 8.22 0.9000		- 0.68 [0.07; 1.28] -0.69 [-1.31; -0.07] - 0.79 [0.28; 1.31] 0.18 [-0.39; 0.75] 0.00 [-0.62; 0.62] 0.05 [-0.40; 0.51] 1 -0.29 [-0.72; 0.13] 1 -0.38 [-0.69; -0.06] 2	4.0% 5.9% 7.1% 5.5% 6.9% 7.8% 8.2% 6.5% 7.5% 7.0% 0.1% 9.0% 1.5% 9.4% 20.7% 10.9% 7.4% — 71.9%
metabolite = Glx Goto et al. 2012 (46) Kegeles et al. 2012 (44) Jessen et al. 2013 (43) Coughlin et al. 2015 (42) Fixed effect model Random effects model Heterogeneity: $I^2 = 0\%$, $\tau^2 = 0$, p Fixed effect model Random effects model Heterogeneity: $I^2 = 58\%$, $\tau^2 = 0.1$ Residual heterogeneity: $I^2 = 60\%$	429 009, <i>p</i> < 0.01	1 22 0.00 0.0005 20 2.06 0.3300	-1 -0.5 0 0.5 1	-0.27 [-0.82; 0.27] 0.16 [-0.46; 0.78] 0.12 [-0.51; 0.75]	4.8% 6.5% 7.0% 7.8% 5.4% 6.9% 5.3% 6.8% 2.6% 28.1% 00.0% 100.0%