Patients Study	with schizophrenia Total Mean SD	Healthy controls Total Mean SD	Standardised Mean Difference	SMD 95%	Weight -CI (fixed)	Weight (random)
medication_status = medication_status = medication_status = medication_status = medication_status = naïve Goto et al. 2012 (48) Smesny et al. 2017 (39)	32 0.00 0.0011 55 7.92 1.0900 87	22 0.00 0.0005 35 8.22 0.9000 57 18 0.67 0.4000 31 10.49 1.6840		-0.27 [-0.82; 0. -0.29 [-0.72; 0. -0.28 [-0.62; 0. -0.28 [-0.62; 0. 0.35 [-0.31; 1. -0.79 [0.28; 1. 0.18 [-0.39; 0.	13] 11.5% 05] 18.6% 05] 01] 4.8% 31] 7.8%	9.4% 17.2% 6.5% 8.2%
Fixed effect model Random effects model Heterogeneity: $I^2 = 23\%$, $\tau^2 = 0.0$	73	73		0.46 [0.13; 0. 0.46 [0.08; 0.	80] 19.1%	
medication_status = medicate da Silva Alves et al. 2011 (45) Jessen et al. 2013 (43) Coughlin et al. 2015 (42) Goldstein et al. 2015 (41) Hugdahl et al. 2015 (40) Iwata et al. 2019 (38) Wang et al. 2019 (46) Fixed effect model Random effects model Heterogeneity: $I^2 = 57\%$, $\tau^2 = 0.0$	11 6.39 1.3200 20 2.11 0.3000 25 1.40 0.2300 42 1.17 0.0766 18 5.60 3.0000 64 14.02 1.5500 72 6.41 0.7500 252	20 2.06 0.3300 16 1.37 0.2060 15 1.12 0.0500 26 7.63 2.9025 – 26 13.94 1.3200		-0.04 [-0.76; 0.0.16 [-0.46; 0.0.12 [-0.51; 0.0.12 [-0.51; 0.0.68 [0.07; 1.0.69 [-1.31; -0.0.05 [-0.40; 0.0.38 [-0.69; -0.0.10 [-0.29; 0.0.04 [-0.35; 0.0.04]]	78] 5.4% 75] 5.3% 28] 5.8% 07] 5.5% 51] 10.1% 06] 20.7% 09] 56.8 %	6.9% 6.8% 7.1% 6.9% 9.0% 10.9%
medication_status = unclear Maddock et al. 2018 (47) Fixed effect model Random effects model Heterogeneity: not applicable	17 0.90 0.0700 17	25 0.90 0.0800 25		0.00 [-0.62; 0. 0.00 [-0.62; 0. 0.00 [-0.62; 0.	62] 5.5%	7.0% 7.0%
Fixed effect model Random effects model Heterogeneity: $I^2 = 58\%$, $\tau^2 = 0.1$ Residual heterogeneity: $I^2 = 46\%$		365	-1 -0.5 0 0.5 1	-0.02 [-0.16; 0. 0.03 [-0.20; 0.	-	 100.0%