Study	Patients with schizophrenia			Healthy controls			Standardised Mean Difference	SMD	95%–CI	Weight (fixed)	Weight (random)
	Total	Mean	SD	Total	Mean	SD					
medication_status = medicated											
da Silva Alves et al. 2011	18	6.39	1.3200	23.0	6.44	1.3500		−0.04	[−0.65; 0.58]	5.5%	6.6%
Kegeles et al. 2012	16	0.00	0.0008	11.0	0.00	0.0005		−1.81	[−2.72; −0.90]	2.6%	4.9%
Jessen et al. 2013	20	2.11	0.3000	20.0	2.06	0.3300		0.16	[−0.46; 0.78]	5.4%	6.6%
Coughlin et al. 2015	25	1.40	0.2300	16.0	1.37	0.2060		0.12	[−0.51; 0.75]	5.3%	6.6%
Goldstein et al. 2015	42	1.17	0.0766	15.0	1.12	0.0500		0.68	[0.07; 1.28]	5.8%	6.7%
Hugdahl et al. 2015	18	7.75	4.7804	26.0	10.60	4.1410		−0.65	[−1.26; −0.03]	5.5%	6.6%
Iwata et al. 2019	64	14.02	1.5500	26.0	13.94	1.3200		0.05	[−0.40; 0.51]	10.1%	7.7%
Kaminski et al. 2019	36	7.94	1.2200	17.5	8.22	0.9000		−0.25	[−0.82; 0.32]	6.4%	6.9%
Wang et al. 2019	72	6.41	0.7500	84.0	6.65	0.5200		−0.38	[−0.69; −0.06]	20.8%	8.6%
Fixed effect model	311			238.5				−0.17	[−0.35; 0.00]	67.4%	––
Random effects model								−0.18	[−0.51; 0.16]	––	61.2%
Heterogeneity: $I^2 = 69\%$, $\tau^2 = 0.1708$, $p < 0.01$											
medication_status = naïve											
Goto et al. 2012	18	0.79	0.2800	18.0	0.67	0.4000		0.35	[−0.31; 1.01]	4.8%	6.4%
Smesny et al. 2015	31	11.61	1.0800	31.0	10.49	1.6840		0.79	[0.28; 1.31]	7.8%	7.3%
Chen et al. 2017	24	1.64	2.1514	24.0	1.28	1.8677		0.18	[−0.39; 0.75]	6.5%	7.0%
Fixed effect model	73			73.0				0.46	[0.13; 0.80]	19.2%	––
Random effects model								0.46	[0.08; 0.84]	––	20.6%
Heterogeneity: $I^2 = 23\%$, $\tau^2 = 0.0256$, $p = 0.27$											
medication_status = unmedicated											
Kegeles2 et al. 2012	16	0.00	0.0012	11.0	0.00	0.0005		−1.34	[−2.18; −0.49]	2.9%	5.2%
Kaminski2 et al. 2019	19	7.89	0.8400	17.5	8.22	0.9000		−0.38	[−1.03; 0.28]	4.9%	6.4%
Fixed effect model	35			28.5				−0.71	[−1.23; −0.19]	7.8%	––
Random effects model								−0.79	[−1.69; 0.11]	––	11.6%
Heterogeneity: $I^2 = 65\%$, $\tau^2 = 0.2769$, $p = 0.09$											
medication_status = unclear											
Maddock et al. 2018	17	0.90	0.0700	25.0	0.90	0.0800		0.00	[−0.62; 0.62]	5.5%	6.6%
Fixed effect model	17			25.0				0.00	[−0.62; 0.62]	5.5%	––
Random effects model								0.00	[−0.62; 0.62]	––	6.6%
Heterogeneity: not applicable											
Fixed effect model	**436**			**365.0**				**−0.09**	**[−0.23; 0.06]**	**100.0%**	**––**
Random effects model								**−0.12**	**[−0.40; 0.17]**	**––**	**100.0%**

Heterogeneity: $I^2 = 73\%$, $\tau^2 = 0.2228$, $p < 0.01$
Residual heterogeneity: $I^2 = 65\%$, $p < 0.01$

−2 −1 0 1 2