Study or Subgroup	Whey Protein Mean	Whey Protein SD	Whey Protein Total	Comparator Mean	Comparator SD	Comparator Total	Weight	Mean Difference IV, Random, 95% CI	Year
1.1.1 Whey protein BMI<25									
Rondanelli 2016	-0.19	1.58	69	0.44	1.8	61	14.1%	-0.63 [-1.22, -0.04]	2016
Bo 2019	-0.43	3.93	30	3.75	24.18	30	0.1%	-4.18 [-12.95, 4.59]	2019
Subtotal (95% CI)			**99**			**91**	**14.2%**	**-0.65 [-1.23, -0.06]**	
Heterogeneity: Tau² = 0.00; Chi² = 0.63, df = 1 (P = 0.43); I² = 0%									
Test for overall effect: Z = 2.17 (P = 0.03)									
1.1.2 Whey protein BMI≥25									
Laviolette 2010	0.1	1.45	12	2.2	5.28	10	0.8%	-2.10 [-5.47, 1.27]	2010
Weinheimer 2012	0.3	2.47	26	-0.6	6.33	70	2.6%	0.90 [-0.86, 2.66]	2012
Duff 2014	0.4	2.05	21	0.1	2.94	19	3.2%	0.30 [-1.29, 1.89]	2014
Fekete 2016	-0.11	0.2	38	0.18	0.2	29	29.9%	-0.29 [-0.39, -0.19]	2016
Stojkovic 2017	0.6	0.3	38	0.5	0.2	46	29.6%	0.10 [-0.01, 0.21]	2017
Fernandes 2018	-0.3	1.31	16	-0.3	1.85	16	5.8%	0.00 [-1.11, 1.11]	2018
Nabuco 2019	0.7	0.65	13	-0.4	1.93	13	5.9%	1.10 [-0.01, 2.21]	2019
Kirk 2021	0.69	1.58	22	0.95	1.7	29	8.0%	-0.26 [-1.16, 0.64]	2021
Subtotal (95% CI)			**186**			**232**	**85.8%**	**0.00 [-0.32, 0.32]**	
Heterogeneity: Tau² = 0.07; Chi² = 34.50, df = 7 (P < 0.0001); I² = 80%									
Test for overall effect: Z = 0.02 (P = 0.98)									
Total (95% CI)			**285**			**323**	**100.0%**	**-0.09 [-0.39, 0.21]**	
Heterogeneity: Tau² = 0.07; Chi² = 38.24, df = 9 (P < 0.0001); I² = 76%									
Test for overall effect: Z = 0.59 (P = 0.55)									
Test for subgroup differences: Chi² = 3.65, df = 1 (P = 0.06), I² = 72.6%									