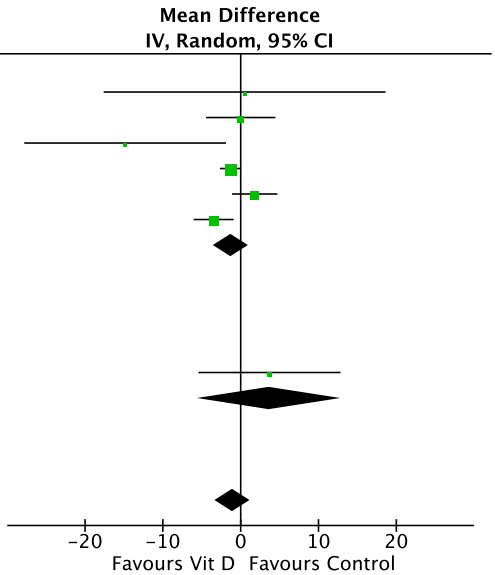Study or Subgroup	Vitamin D Mean	Vitamin D SD	Vitamin D Total	Control Mean	Control SD	Control Total	Weight	Mean Difference IV, Random, 95% CI	Year
1.10.1 EN/PO									
Amrein 2011	23.7	24.7	12	23.2	21.2	13	1.4%	0.50 [−17.61, 18.61]	2011
Amrein 2014	26.7	25.3	237	26.7	24.3	238	14.3%	0.00 [−4.46, 4.46]	2014
Han 2016	21.15	12.4	20	36	19	10	2.6%	−14.85 [−27.82, −1.88]	2016
Ginde 2019	9.1	9.2	406	10.4	11	418	31.1%	−1.30 [−2.68, 0.08]	2019
Karsy 2020	10.9	15.6	138	9.1	7.9	136	21.7%	1.80 [−1.12, 4.72]	2020
Bhattacharyya 2021	13.75	9.46	63	17.22	4.35	63	23.8%	−3.47 [−6.04, −0.90]	2021
Subtotal (95% CI)			**876**			**878**	**95.1%**	**−1.29 [−3.55, 0.97]**	
Heterogeneity: Tau^2 = 3.57; Chi^2 = 11.61, df = 5 (P = 0.04); I^2 = 57%									
Test for overall effect: Z = 1.12 (P = 0.26)									
1.10.2 IV/IM									
Leaf 2014	25.9	18.9	36	22.2	19.1	31	4.9%	3.70 [−5.43, 12.83]	2014
Subtotal (95% CI)			**36**			**31**	**4.9%**	**3.70 [−5.43, 12.83]**	
Heterogeneity: Not applicable									
Test for overall effect: Z = 0.79 (P = 0.43)									
Total (95% CI)			**912**			**909**	**100.0%**	**−1.04 [−3.23, 1.15]**	
Heterogeneity: Tau^2 = 3.51; Chi^2 = 12.74, df = 6 (P = 0.05); I^2 = 53%									
Test for overall effect: Z = 0.93 (P = 0.35)									
Test for subgroup differences: Chi^2 = 1.08, df = 1 (P = 0.30), I^2 = 7.6%