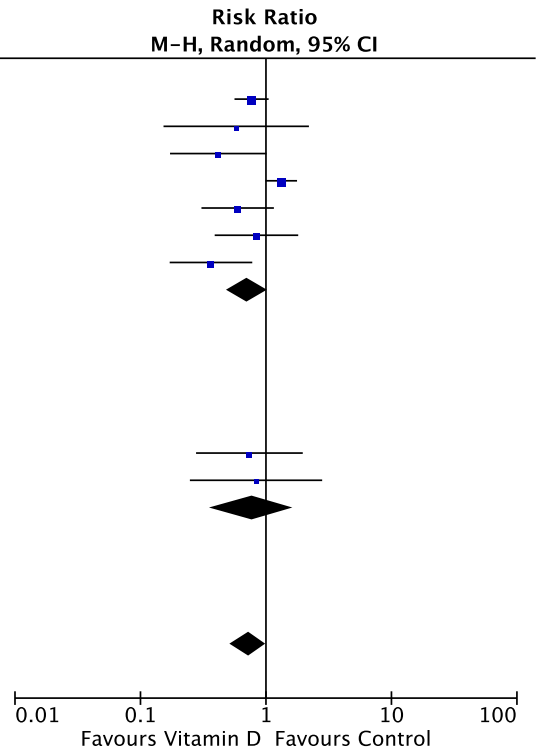Study or Subgroup	Vitamin D Events	Vitamin D Total	Control Events	Control Total	Weight	Risk Ratio M-H, Random, 95% CI	Year
2.3.1 Vit D deficient <30 ng/ml							
Amrein 2014	52	237	68	238	19.7%	0.77 [0.56, 1.05]	2014
Ding 2017	3	29	5	28	4.9%	0.58 [0.15, 2.20]	2017
Miroliaee 2018	5	24	11	22	8.8%	0.42 [0.17, 1.01]	2018
Ginde 2019	92	531	69	528	20.3%	1.33 [0.99, 1.77]	2019
Miri 2019	8	22	11	18	12.1%	0.60 [0.31, 1.16]	2019
Karsy 2020	11	134	13	133	10.4%	0.84 [0.39, 1.81]	2020
Sistanizad 2021	5	16	12	14	10.6%	0.36 [0.17, 0.78]	2021
Subtotal (95% CI)		**993**		**981**	**86.7%**	**0.71 [0.48, 1.04]**	
Total events	176		189				
Heterogeneity: Tau^2 = 0.15; Chi^2 = 18.34, df = 6 (P = 0.005); I^2 = 67%							
Test for overall effect: Z = 1.77 (P = 0.08)							
2.3.2 Mixed baseline Vit D level							
Leaf 2014	6	36	7	31	7.7%	0.74 [0.28, 1.96]	2014
Quraishi 2015	5	20	3	10	5.6%	0.83 [0.25, 2.80]	2015
Subtotal (95% CI)		**56**		**41**	**13.3%**	**0.77 [0.36, 1.66]**	
Total events	11		10				
Heterogeneity: Tau^2 = 0.00; Chi^2 = 0.02, df = 1 (P = 0.88); I^2 = 0%							
Test for overall effect: Z = 0.66 (P = 0.51)							
Total (95% CI)		**1049**		**1022**	**100.0%**	**0.73 [0.52, 1.01]**	
Total events	187		199				
Heterogeneity: Tau^2 = 0.12; Chi^2 = 18.45, df = 8 (P = 0.02); I^2 = 57%							
Test for overall effect: Z = 1.90 (P = 0.06)							
Test for subgroup differences: Chi^2 = 0.04, df = 1 (P = 0.83), I^2 = 0%