

Difference between motility NMA estimated relative effect compared to placebo and ranks																										
Ranks in Italic, and bold diagonal is relative effect and rank compared to placebo																										
Intervention	Antioxidants	Carob	Coenzyme Q10 + L-carnitine + lycopene + zinc high dose	Folic acid	Herb/Mineral supplement	L-carnitine/L-acetylcarnitine	L-carnitine+cinn	Magnesium	Micronutrient supplement	Minerals	Myoinositol	N-acetyl cysteine	Nigella sativa seed oil	Omega-3 fatty acids	Prelox	Selenium supplements	Spirulina	Vitamin C/E	Vitamin D3	Vitamin D3 + calcium	Vitamin/Miner comb	Vitamin/Miner supplements	Walnuts	Zinc/Zinc + folic acid	Placebo/No treatment	
Antioxidants	4.38 (-12.18, 10.88) 1 (1, 3)	(-0.81, -2.85) 1 (1, 3)	-2.8 (-2.19, -3.23) 1 (1, 3)	5.32 (2.55, 8.34) 1 (1, 3)	-2.8 (-2.79, -3.18) 1 (1, 3)	2.5 (-11.53, 1.52) 1 (1, 3)	13.57 (13.84, 12.92) 1 (1, 3)	-0.57 (-7.6, 6.2) 1 (1, 3)	10.65 (7.94, 12.76) 1 (1, 3)	-2.22 (-4.44, 3.67) 1 (1, 3)	-1.25 (-5.28, 2.34) 1 (1, 3)	-2.23 (-5.78, 1.18) 1 (1, 3)	1.46 (2.2, 5.3) 1 (1, 3)	-1.53 (1.23, -4.42) 1 (1, 3)	8.65 (2, 14.98) 1 (1, 3)	-3.94 (-6.82, 0.78) 1 (1, 3)	1.98 (1.01, 2.9) 1 (1, 3)	-2.71 (-7.03, 1.48) 1 (1, 3)	-6.89 (-5.14, -8.6) 1 (1, 3)	-1.48 (-2.1, -1.09) 1 (1, 3)	7.34 (-11.42, -3.54) 1 (1, 3)	-1.88 (-5.97, 2.24) 1 (1, 3)	1.79 (0.88, 2.45) 1 (1, 3)	8.63 (0.46, 16.79) 1 (1, 3)	-3.19 (-1.66, -4.77) 1 (1, 3)	NA (7 (2, 0))
Carob	0.85 (4.01, -2.33) 1 (-1, -2)	3.53 (-6.2, 13.21) 18 (2, 36)	-1.95 (1.82, -5.6) 3 (4, 0)	6.17 (6.57, 6.01) 1 (1, 3)	-1.95 (1.22, -5.5) 3 (4, 0)	-3.97 (-7.52, -0.8) 4 (0, 1)	14.42 (17.86, 10.59) 1 (3, -3)	0.27 (-0.39, 3.87) 1 (3, -3)	11.5 (11.95, 10.4) 1 (3, -3)	-1.37 (-4.43, 1.34) 2 (0, 1)	-0.4 (-1.27, 0.01) 2 (0, 1)	2.31 (1.81, 2.97) 1 (5, -3)	0.68 (-6.24, -6.75) 1 (5, -3)	-0.92 (-1.26, -0.58) 1 (5, -3)	3.09 (0.01, 22.66) 4 (0, 1)	2.93 (5.02, 0.57) 2 (0, 1)	1.86 (-3.02, -0.85) 2 (0, 1)	6.04 (-1.13, -10.3) 9 (12, 1)	0.63 (1.91, -3.42) 1 (1, -1)	-0.63 (-7.41, -5.86) 1 (1, -1)	-1.03 (-1.95, -0.08) 1 (1, -1)	6.49 (4.9, 0.12) 1 (1, -1)	2.64 (4.47, 14.46) 1 (1, -1)	9.48 (2.35, -7.1) 6 (4, -6)	NA (6 (3, -2))	
Coenzyme Q10	2.8 (2.19, 3.23) 4 (-3, -2)	-1.85 (-1.82, 5.56) 18 (2, 36)	1.58 (-4.37, 7.75) 18 (2, 36)	8.12 (4.75, 11.57) 1 (0, 0)	-2.01 (-0.6, 0.05) 2 (4, -1)	5.3 (7.06, 3.4) 1 (0, 0)	16.37 (16.04, 16.5) 1 (0, 0)	2.23 (-6.41, 9.43) 1 (-3, -6)	13.45 (10.13, 15.99) 1 (-3, -6)	0.58 (-6.25, 6.9) 1 (-3, -6)	1.55 (-3.09, 5.57) 1 (-3, -6)	0.57 (-3.59, 4.41) 1 (-3, -6)	4.26 (-0.01, 8.53) 1 (-3, -6)	1.27 (3.42, -1.9) 1 (-3, -6)	1.14 (-4.49, 18.21) 1 (-3, -6)	0.09 (-6.43, 4.01) 1 (-3, -6)	4.78 (3.2, 6.13) 1 (-3, -6)	0.91 (-4.84, 7.1) 1 (-3, -6)	-4.09 (-2.95, -5.37) 1 (6, 1)	1.32 (0.99, 2.14) 1 (6, 1)	-4.54 (-9.23, -0.31) 1 (6, 1)	0.92 (-3.77, 4.47) 1 (6, 1)	4.59 (3.08, 5.68) 1 (6, 1)	11.43 (2.65, 20.02) 1 (6, 1)	-0.39 (-0.53, -1.54) 1 (6, 1)	NA (3 (9, -2))
Coenzyme-Q10 + L-carnitine + lycopene + zinc high dose	-5.32 (-2.55, -8.34) 6 (4, 4)	-6.17 (-6.57, -6.01) 7 (3, 6)	-8.12 (-4.75, -11.57) 7 (1, 20)	9.69 (0.37, 19.21) 18 (2, 36)	0.02 (-5.35, -11.51) 10 (7, 6)	-10.13 (-14.09, -6.81) 12 (3, 7)	-2.82 (2.31, -8.4) 2 (4, -4)	8.25 (11.29, 4.59) 1 (0, 1)	-5.89 (-10.16, -2.14) 9 (2, 7)	-7.54 (-10.99, -4.66) 8 (3, 7)	-6.57 (-7.83, -6) 8 (3, 7)	-7.55 (-8.34, -7.16) 8 (3, 7)	-3.86 (-4.76, -3.04) 1 (4, 5)	-6.85 (-1.33, -12.76) 1 (3, -3)	3.33 (-11.17, -7.56) 11 (3, 7)	-9.26 (-15.4, -3.4) 3 (2, 2)	-3.34 (-9.58, -6.86) 16 (15, 7)	-8.03 (-7.69, -16.94) 16 (15, 7)	-12.21 (-4.65, -9.43) 8 (4, 5)	-6.8 (-13.98, -11.87) 15 (7, 6)	-7.2 (-8.52, -6.09) 9 (3, 7)	-3.52 (-1.67, -5.89) 1 (2, 0)	3.31 (-2.09, 4.85) 11 (9, 5)	-8.51 (-4.22, -13.11) 11 (9, 5)	NA (13 (16, 4))	
Folic acid	2.8 (2.79, 3.18) 4 (-3, -2)	1.95 (1.22, 5.5) 10 (4, 14)	0 (0.6, -0.05) 10 (4, 14)	8.12 (5.35, 11.51) 18 (2, 36)	1.58 (-4.97, 7.8) 18 (2, 36)	-2.02 (-8.74, 4.7) 2 (4, -1)	5.29 (7.66, 3.08) 16 (16, 16)	16.36 (16.54, 16.1) 15 (7, -2)	2.22 (-4.81, 9.38) 10 (7, 6)	0.58 (-5.65, 6.85) 1 (-3, -6)	1.54 (-2.49, 5.51) 1 (-3, -6)	4.25 (-2.99, 4.35) 1 (-3, -6)	1.27 (4.02, -1.24) 1 (4, 1)	1.14 (-5.83, 3.95) 1 (4, 1)	4.78 (3.6, 6.8) 1 (4, 1)	0.09 (-4.24, 4.66) 1 (4, 1)	1.32 (-2.35, -5.43) 1 (6, 1)	-4.54 (-8.63, -0.38) 1 (6, 1)	0.92 (-3.17, 4.52) 1 (6, 1)	4.59 (3.68, 5.63) 1 (6, 1)	11.43 (2.65, 20.02) 1 (6, 1)	-0.39 (-0.53, -1.54) 1 (6, 1)	NA (3 (9, -2))			
Herb/Mineral supplement	4.81 (11.53, -1.52) 6 (-1, -3)	3.97 (7.52, 0.8) 4 (-1, -2)	10.13 (9.34, -2.75) 10 (7, 6)	2.02 (14.09, 6.81) 12 (3, 7)	-0.44 (-8.74, -4.7) 2 (4, -1)	6.87 (-13.72, 12.51) 18 (2, 36)	18.38 (16.4, -1.62) 16 (16, 16)	4.24 (19.48, 11.23) 15 (7, -2)	15.47 (16.48, 11.3) 13 (13, -3)	2.6 (-3.1, 2.15) 4 (0, 1)	2.58 (6.26, 0.81) 1 (-3, -6)	6.27 (3.3, 3.77) 1 (-3, -6)	13.46 (13.53, 13.46) 1 (4, 5)	0.87 (2.92, -0.75) 1 (-1, -2)	6.8 (12.55, -1.37) 1 (-1, -2)	2.08 (4.51, -0.05) 1 (-1, -2)	3.34 (6.39, -10.13) 1 (4, 1)	-2.93 (1.93, -6.22) 1 (4, 1)	3.4 (11.41, 11)	2.94 (1.93, -6.22) 1 (4, 1)	-2.53 (-3.1, -0.4) 1 (4, 1)	6.61 (12.42, 0.93) 1 (4, 1)	13.44 (12, 15.7) 1 (4, 1)	1.62 (0.87, -6.3) 1 (4, 1)	NA (1 (3, -3))	
L-carnitine/L-acetylcarnitine	-2.5 (-4.87, 0.09) 4 (-3, -2)	-3.84 (-8.88, 2.42) 10 (4, 14)	-5.3 (-7.06, -3.4) 8 (3, 0)	2.82 (-2.31, 8.4) 10 (4, 14)	-5.29 (-7.66, -3.08) 8 (3, 0)	6.87 (-13.72, 12.51) 18 (2, 36)	11.07 (8.98, 13.02) 16 (16, 16)	8.16 (10.41, 5.91) 15 (7, -2)	11.07 (12.47, 9.68) 13 (13, -3)	8.16 (3.07, 12.85) 1 (-3, -6)	-3.75 (-13.31, 3.77) 1 (-3, -6)	-4.7 (-10.15, 2.43) 1 (-3, -6)	-4.02 (-10.65, 1.27) 1 (-3, -6)	-4.34 (-9.71, 5.1) 1 (-3, -6)	6.15 (-15.08, 9.87) 1 (4, 5)	-6.44 (-3.88, 2.99) 1 (4, 5)	-9.39 (-11.9, 1.57) 1 (4, 1)	-3.97 (-10.01, -8.51) 1 (4, 1)	-6.97 (-16.29, -3.47) 1 (4, 1)	-4.37 (-10.93, 2.34) 1 (4, 1)	-0.7 (-3.98, 2.54) 1 (4, 1)	6.13 (-4.41, 16.88) 1 (4, 1)	-5.69 (-6.53, -4.88) 1 (4, 1)	NA (11 (2, 8))		
L-carnitine+cinn	-4.05 (-11.02, 12.93) 1 (4, 19)	-5.12 (-12.09, 17.59) 13 (3, 21)	-1.63 (-1.67, 1.51) 16 (7, 21)	-8.25 (-13.67, 16.1) 15 (7, 21)	-8.25 (-13.67, 16.1) 15 (7, 21)	-11.07 (-16.49, 12.51) 17 (3, 22)	-17.94 (-22.22, 17.94) 18 (2, 36)	-2.92 (-14.34, -13.02) 12 (12, -1)	-15.78 (-21.62, 17.94) 14 (14, 14)	-14.82 (-19.63, 17.94) 14 (14, 14)	-12.11 (-16.93, 17.94) 14 (14, 14)	-4.92 (-9.71, 5.1) 14 (14, 14)	-11.58 (-12.62, 17.94) 14 (14, 14)	-11.58 (-12.62, 17.94) 14 (14, 14)	-11.58 (-12.62, 17.94) 14 (14, 14)	-11.58 (-12.62, 17.94) 14 (14, 14)	-11.58 (-12.62, 17.94) 14 (14, 14)	-11.58 (-12.62, 17.94) 14 (14, 14)	-11.58 (-12.62, 17.94) 14 (14, 14)	-11.58 (-12.62, 17.94) 14 (14, 14)	-11.58 (-12.62, 17.94) 14 (14, 14)	-11.58 (-12.62, 17.94) 14 (14, 14)	-11.58 (-12.62, 17.94) 14 (14, 14)	-11.58 (-12.62, 17.94) 14 (14, 14)	-11.58 (-12.62, 17.94) 14 (14, 14)	-11.58 (-12.62, 17.94) 14 (14, 14)
Magnesium	0.57 (7.6, -6.2) 1 (-3, -3)	-0.27 (3.59, -3.87) 1 (3, -3)	-2.23 (5.41, -9.43) 1 (3, -3)	5.89 (10.16, 2.14) 1 (3, -3)	-2.22 (4.81, -9.38) 1 (3, -3)	-4.24 (-9.33, -4.68) 1 (3, -3)	3.07 (15.4, 6.72) 12 (12, -1)	14.14 (12.47, -6.29) 12 (12, -1)	11.23 (15.54, 6.56) 11 (11, -1)	-1.66 (-0.84, -2.53) 2 (2, -2)	-1.62 (2.32, -3.86) 2 (2, -2)	3.22 (1.82, -5.02) 2 (2, -2)	-0.68 (-3.4, -0.9) 2 (2, -2)	-1.66 (1.82, -5.02) 2 (2, -2)	3.22 (0.54, -0.9) 2 (2, -2)	2.56 (8.61, -3.3) 1 (3, -3)	2.56 (0.57, -4.72) 1 (3, -3)	-0.9 (2.46, -1.4) 1 (3, -3)	-6.77 (5.5, -7.29) 1 (3, -3)	-1.3 (-8.82, -9.74) 1 (3, -3)	9.27 (1.63, -3.96) 1 (3, -3)	2.18 (8.49, -3.75) 1 (3, -3)	-2.62 (0.06, 5.59) 1 (3, -3)	-2.62 (0.59, -10.97) 1 (3, -3)	NA (6 (5, -3))	
Micronutrient supplement	-10.65 (-7.94, -12.76) 1 (-3, -3)	-11.95 (-11.95, -10.43) 1 (-3, -3)	-13.45 (-13.13, -15.99) 1 (-3, -3)	-5.33 (-5.39, -4.42) 1 (-3, -3)	-13.45 (-10.73, -15.93) 1 (-3, -3)	-8.16 (-15.47, -11.23) 1 (-3, -3)	2.92 (5.9, 1.07) 15 (15, -3)	-11.23 (-15.54, -6.56) 15 (15, -3)	15.03 (15.03, 23.74) 15 (15, -3)	-12.87 (-16.38, -9.42) 12 (12, -1)	-11.91 (-13.72, -11.58) 12 (12, -1)	-12.88 (-10.14, -7.46) 12 (12, -1)	-12.88 (-10.14, -7.46) 12 (12, -1)	-12.88 (-10.14, -7.46) 12 (12, -1)	-12.88 (-10.14, -7.46) 12 (12, -1)	-12.88 (-10.14, -7.46) 12 (12, -1)	-12.88 (-10.14, -7.46) 12 (12, -1)	-12.88 (-10.14, -7.46) 12 (12, -1)	-12.88 (-10.14, -7.46) 12 (12, -1)	-12.88 (-10.14, -7.46) 12 (12, -1)	-12.88 (-10.14, -7.46) 12 (12, -1)	-12.88 (-10.14, -7.46) 12 (12, -1)	-12.88 (-10.14, -7.46) 12 (12, -1)	-12.88 (-10.14, -7.46) 12 (12, -1)	-12.88 (-10.14, -7.46) 12 (12, -1)	-12.88 (-10.14, -7.46) 12 (12, -1)
Minerals	8.44 (3, -3)	-3.67 (-2, -1)	-4.33 (-1, -5)	-1.34 (6.25, -6.9) 1 (5, -1)	-0.58 (-6.65, -8.5) 1 (5, -1)	-2.6 (3.1, -2.15) 3 (1, 0)	15.78 (22.28, 9.25) 14 (14, -2)	1.84 (16.38, 9.08) 16 (16, -2)	2.16 (-10.62, 14.65) 16 (16, -2)	0.96 (1.61, -1.34) 1 (1, 0)	3.12 (0.65, -2.5) 1 (1, 0)	-0.98 (-2.6, -0.3) 1 (1, 0)	2.71 (-1.6, -4) 1 (1, 0)	-0.27 (-1.6, -4) 1 (1, 0)	9.9 (2.7, 12.65) 1 (1, 0)	2.69 (-3.34, -1.56) 3 (3, -3)	3.24 (-6.29, 0.56) 3 (3, -3)	-1.45 (-1.75, -0.86) 3 (3, -3)	-5.64 (0.14, -10.94) 3 (3, -3)	-0.22 (-0.4, -0.2) 3 (3, -3)	-6.09 (6.14, -5.87) 3 (3, -3)	-0.62 (-0.09, -0.09) 3 (3, -3)	3.05 (6.17, 0.12) 3 (3, -3)	9.88 (5.74, 14.6) 3 (3, -3)	-1.94 (3.62, -7.11) 3 (3, -3)	NA (4 (14, -3))
Myoinositol	1.25 (5.28, -2.34) 2 (-1, -3)	0.4 (1.27, -0.01) 2 (-1, -3)	-0.57 (3.09, -5.7) 2 (4, -1)	7.55 (7.83, 6) 2 (4, -1)	-1.54 (2.49, -5.1) 2 (4, -1)	-3.56 (-6.26, -0.8) 4 (0, 1)	3.75 (10.15, -2.43) 19 (19, 10.59)	14.82 (-2.32, 3.86) 1 (-2, -0)	11.91 (13.22, 10.47) 1 (-2, -0)	-0.98 (-3.16, 1.34) 1 (1, 0)	2.71 (-7.46, 13.32) 15 (15, -2)	-0.27 (0.51, -1.16) 3 (3, -3)	2.69 (-3.08, 2.96) 3 (3, -3)	3.24 (6.5, -6.76) 3 (3, -3)	2.69 (7.27, 12.65) 3 (3, -3)	3.24 (-6.29, 0.56) 3 (3, -3)	-1.45 (-1.75, -0.86) 3 (3, -3)	-5.64 (0.14, -10.94) 3 (3, -3)	-0.22 (-0.4, -0.2) 3 (3, -3)	-6.09 (6.14, -5.87) 3 (3, -3)	-0.62 (-0.09, -0.09) 3 (3, -3)	3.05 (6.17, 0.12) 3 (3, -3)	9.88 (5.74, 14.6) 3 (3, -3)	-1.94 (3.62, -7.11) 3 (3, -3)	NA (5 (3, -3))	
N-acetyl cysteine	2.23 (9, 15.18) 1 (1, 3)	1.38 (-1.81, -2.97) 3 (2, 1)	-0.57 (0.81, -2.15) 3 (2, 1)	7.55 (7.83, 6) 2 (4, -1)	-1.54 (2.49, -5.1) 2 (4, -1)	-3.56 (-6.26, -0.8) 4 (0, 1)	3.75 (10.15, -2.43) 19 (19, 10.59)	14.82 (-2.32, 3.86) 1 (-2, -0)	11.91 (13.22, 10.47) 1 (-2, -0)	-0.98 (-3.16, 1.34) 1 (1, 0)	2.71 (-7.46, 13.32) 15 (15, -2)	-0.27 (0.51, -1.16) 3 (3, -3)	2.69 (-3.08, 2.96) 3 (3, -3)	3.24 (6.5, -6.76) 3 (3, -3)	2.69 (7.27, 12.65) 3 (3, -3)	3.24 (-6.29, 0.56) 3 (3, -3)	-1.45 (-1.75, -0.86) 3 (3, -3)	-5.64 (0.14, -10.94) 3 (3, -3)	-0.22 (-0.4, -0.2) 3 (3, -3)	-6.09 (6.14, -5.87) 3 (3, -3)	-0.62 (-0.09, -0.09) 3 (3, -3)	3.05 (6.17, 0.12) 3 (3, -3)	9.88 (5.74, 14.6) 3 (3, -3)	-1.94 (3.62, -7.11) 3 (3, -3)	NA (4 (14, -3))	
Nigella sativa seed oil	-1.46 (2.2, -5.3) 1 (3, -1)	-2.31 (-1.81, -2.97) 3 (2, 1)	-4.26 (0.81, -8.53) 6 (6, 1)	3.86 (4.76, 3.04) 1 (1, -5)	-4.25 (-0.59, -8.47) 6 (6, 1)	-3.27 (-9.33, -3.77) 7 (2, 2)	10.4 (16.05, 7.63) 10 (10, -2)	-2.3 (-5.04, 0.19) 10 (10, -2)	-3.67 (-1.44, 7.46) 5 (2, 2)	-1.67 (-3.08, -2.96) 5 (2, 2)	-3.68 (-5.89, -1.42) 5 (2, 2)	-2.71 (-3.68, -1.73) 5 (2, 2)	-4.33 (-5.33, -3.33) 5 (2, 2)	-2.99 (-4.3, -9.72) 7 (7, 2)	7.19 (4.2, 9.9) 2 (2, 2)	-5.4 (-6.42, -4.52) 2 (2, 2)	0.51 (3.21, -2.4) 5 (5, 1)	-4.83 (-4.83, -3.82) 5 (5, 1)	-8.35 (-2.94, -13.9) 12 (12, 4)	-2.94 (-1.61, -6.39) 10 (10, 2)	-8.8 (-9.22, -8.38) 10 (10, 2)	-3.34 (-3.76, -3.05) 10 (10, 2)	0.84 (3.09, -2.85) 10 (10, 2)	7.17 (2.66, 11.49) 10 (10, 2)	-4.65 (0.54, -10.07) 10 (10, 2)	NA (9 (75, -1))
Omega-3 fatty acids	1.53 (-1.23, -4.12) 1 (1, 3)	0.68 (-5.24, 6.75) 1 (1, 3)	-1.27 (-3.42, 1.19) 1 (3, 12.76)	6.85 (4.02, 1.24) 1 (3, 12.76)	-1.27 (-3.42, 1.19) 1 (3, 12.76)	-3.29 (-4.02, 1.24) 1 (3, 12.76)	4.02 (12.62, 17.34) 1 (3, 12.76)	0.95 (-8.83, 10.62) 1 (3, 12.76)	12.18 (12.62, 17.34) 1 (3, 12.76)	0.27 (-0.96, 0.99) 1 (3, 12.76)	0.27 (-0.96, 0.99) 1 (3, 12.76)	0.27 (-0.96, 0.99) 1 (3, 12.76)	0.27 (-0.96, 0.99) 1 (3, 12.76)	0.27 (-0.96, 0.99) 1 (3, 12.76)	0.27 (-0.96, 0.99)<											