

Difference between motility NMA estimated relative effect compared to placebo and ranks																											
Ranks in italics, and bold diagonal is relative effect and rank compared to placebo																											
Intervention	Antioxidants	Carob	Coenzyme q10	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	Saffron	Selenium supplements	Spirulina	Vitamin c/e	Vitamin d3	Vitamin d3 + calcium	Vitamin/minerals combos	Vitamin/minerals supplements	Walnuts	Zinc/zinc + folic acid	Placebo/no treatment
Antioxidants	4.32 (-2.44, 10.8) 13 (5, 24)	-0.83 (-3.27, 1.79) 1 (-1, 2)	-2.79 (-2.13, 2.98) 4 (3, 2)	5.26 (2.84, 8.43) 6 (-4, -4)	-2.75 (-2.3, -2.8) 4 (3, 2)	-4.63 (-11.07, 1.69) 6 (-1, 3)	2.48 (5.15, -0.03) 4 (0, -8)	13.51 (14.3, 12.95) -11 (-4, -19)	-0.4 (-6.66, 6.41) 1 (-3, 3)	10.67 (8.72, 12.8) -10 (-4, -14)	-2.04 (-8.08, 4.05) 3 (-2, 3)	-1.21 (-4.6, 2.52) 2 (-1, 3)	-2.1 (-5.3, 1.35) 3 (-1, 3)	1.45 (-2.5, 5.44) -1 (-5, -2)	-1.47 (1.37, -3.96) 2 (-3, -1)	8.7 (2.05, 15.28) -8 (-4, -3)	-3.73 (-7.88, 0.35) 5 (2, 1)	1.96 (0.92, 3.27) -3 (-2, -1)	-2.75 (-6.69, 1.36) 4 (-1, 3)	-6.89 (-5.08, 8.25) 10 (11, 3)	-1.53 (-1.86, -0.91) 2 (0, 1)	-7.29 (-10.74, -3.32) 9 (4, 3)	-1.53 (-6.09, 3.37) 2 (-2, 3)	1.87 (1.07, 3.11) -3 (-2, -1)	8.72 (0.68, 16.43) -7 (-4, -1)	-3.11 (-1.44, -4.72) 5 (5, 2)	NA 7 (12, 0)
Carob	0.83 (3.27, -1.79) -1 (-1, 2)	3.5 (-5.71, 12.59) 15 (4, 26)	-1.96 (1.14, -4.76) 3 (4, 0)	6.09 (6.11, 6.64) 7 (-3, -6)	-1.93 (0.97, -4.59) 3 (4, 0)	-3.8 (-7.8, -0.1) 4 (0, 1)	3.31 (8.42, -1.82) -5 (-1, -10)	14.33 (17.57, 11.16) -13 (-3, -21)	0.43 (-3.39, 4.62) 0 (2, 1)	11.5 (11.99, 11.01) -11 (-3, -16)	-1.21 (-4.81, 2.27) 2 (-1, 1)	-0.38 (-1.34, 0.74) 1 (0, 1)	-1.27 (-2.04, -0.43) 1 (0, 1)	2.28 (0.77, 3.66) -3 (-2, 0)	-0.64 (4.63, -5.74) 1 (4, -3)	9.53 (5.31, 13.49) -9 (-3, -5)	2.78 (4.19, 1.48) 4 (-1, -3)	-1.92 (-3.42, -0.43) 2 (0, 1)	-6.06 (-1.82, -10.04) 9 (12, 1)	-0.7 (1.41, -2.69) 1 (-1, 1)	-6.46 (-7.47, -5.11) 8 (5, 1)	-0.7 (-2.82, 1.58) 1 (-1, 1)	2.7 (4.33, 1.32) -4 (-1, -3)	9.54 (3.94, 14.64) -9 (-3, -3)	-2.28 (1.83, -6.51) 4 (6, 0)	NA 6 (13, -2)	
Coenzyme q10	2.79 (2.13, 2.98) -4 (-3, -2)	-1.96 (-1.14, 4.76) -3 (-4, 0)	1.54 (-4.57, 7.82) 18 (8, 26)	8.05 (4.97, 11.41) -10 (-7, -6)	0.83 (-0.17, 0.17) 0 (0, 0)	1.85 (-8.94, 4.66) 1 (-4, 1)	5.27 (7.28, 2.95) -8 (-3, -10)	16.29 (16.43, 15.93) -16 (-7, -21)	2.39 (4.53, 9.38) -3 (-6, 1)	13.46 (10.85, 15.77) -14 (-7, -16)	0.75 (-5.95, 7.03) -1 (-5, 1)	1.58 (-2.48, 5.15) -2 (-4, 1)	0.69 (-3.18, 4.33) -1 (-4, 1)	4.24 (-0.37, 8.42) -6 (-6, 0)	1.32 (3.49, -0.98) -2 (-2, 3)	11.49 (4.17, 18.26) -12 (-7, -5)	-0.94 (-5.75, 3.32) 1 (-3, 1)	4.74 (3.05, 6.25) -7 (-5, -3)	-4.1 (-2.95, -5.27) 6 (8, 1)	-1.26 (0.27, 2.07) -2 (-3, -1)	1.26 (-7.93, -16.68) 8 (15, 7)	1.26 (-8.93, -5.07) 2 (0, 3)	1.26 (-1.78, -5.32) 3 (2, 3)	4.65 (3.19, 6.09) -7 (-5, -3)	11.5 (2.8, 19.41) -12 (-7, -3)	0.32 (0.69, -1.75) 1 (2, 0)	NA 3 (9, -2)
Coenzyme-q10 + l-carnitine + zinc high dose	-5.26 (-2.84, -8.43) 6 (4, 4)	-6.09 (-6.11, -6.64) 7 (3, 6)	-8.05 (-4.97, -11.41) 10 (4, 19, 23)	9.58 (7, 1, 20)	-8.01 (-5.14, -11.24) 10 (7, 6)	-9.89 (-13.91, -6.74) 12 (3, 7)	-2.78 (2.31, -8.46) -2 (-4, -4)	8.25 (11.46, 4.52) -5 (0, -15)	-5.66 (-9.5, -2.03) 7 (1, 7)	5.41 (5.88, 4.37) -4 (-0, -10)	-7.3 (-10.92, -4.38) -8 (7, 7)	-6.47 (-7.45, -5.91) 9 (3, 7)	-7.36 (-8.15, -7.08) 3 (8, 1)	-6.73 (-5.34, -2.99) -1 (-4, 6)	-6.73 (-1.48, -12.39) 2 (-2, 1)	3.44 (-0.72, -8.08) 11 (14, 7)	-8.99 (-1.93, -16.05) 8 (12, 3)	-3.3 (-9.53, -7.07) 2 (0, 7)	-8.01 (-7.93, -8.07) 16 (15, 7)	-12.15 (-4.7, -9.34) 8 (14, 3)	-6.79 (-13.38, -11.75) 2 (0, 3)	-6.79 (-8.93, -5.07) 3 (2, 3)	-3.39 (-1.78, -5.32) 3 (2, 3)	3.46 (-2.17, 8) -2 (-3, -4)	-8.37 (-4.28, -13.15) 11 (9, 6)	NA 13 (16, 4)	
Folic acid	2.75 (2.3, 2.8) -4 (-3, -2)	1.93 (0.97, 4.59) 4 (-3, -2)	-0.03 (0.17, -0.17) 0 (0, 0)	8.01 (5.14, 11.24) -10 (-7, -6)	1.57 (-4.74, 8) 18 (8, 26)	-1.88 (-8.77, 4.49) 1 (-4, 1)	5.24 (7.45, 2.78) -15 (-7, -21)	16.26 (16.16, 15.75) -15 (-7, -21)	2.36 (4.36, 9.21) -3 (-6, 1)	13.43 (11.02, 15.6) -14 (-7, -16)	0.72 (-2.3, 5.33) -1 (-5, 1)	1.29 (3.67, -1.15) -2 (-4, 1)	0.65 (3.4, 16) -1 (-4, 1)	4.21 (0.2, 8.25) -6 (-6, 0)	1.29 (4.34, 18.08) 2 (0, -3)	11.46 (3.67, -1.15) -12 (-7, -5)	-0.97 (5.58, 3.15) 1 (-3, 1)	4.71 (3.22, 6.08) -2 (0, -4)	0 (-4.39, 4.16) 0 (4, 1)	-2.18 (-2.78, -5.45) 6 (8, 1)	1.23 (0.44, 1.9) -2 (-3, -1)	-4.54 (-8.44, -0.51) 5 (1, 1)	1.23 (3.79, 6.17) -2 (-5, 1)	4.62 (3.37, 5.91) -7 (-5, -3)	11.47 (2.98, 19.23) -12 (-7, -3)	-0.36 (0.88, -1.92) 1 (2, 0)	NA 3 (9, -2)
Herb/mineral supplement	4.63 (11.07, -1.69) -6 (-1, -3)	3.8 (7.8, 0.1) -1 (-4, -1)	1.85 (8.94, -4.66) 12 (9, 1)	9.89 (13.91, 6.74) -12 (-9, -7)	1.88 (8.77, -4.49) 19 (4, 27)	-0.31 (-13.51, 12.49) 19 (4, 27)	7.12 (16.22, -1.72) -10 (-1, -17)	18.14 (25.37, 11.26) -17 (-3, -22)	4.23 (4.41, 4.72) -5 (-2, 0)	15.31 (19.79, 11.11) -13 (-2, -17)	2.59 (2.99, 2.36) -4 (0, 0)	3.42 (6.47, 0.83) -2 (-4, 0)	2.53 (5.76, 0.33) -3 (-3, 0)	6.08 (8.57, 3.75) -2 (0, -4)	3.17 (12.44, -5.65) -13 (-3, -6)	0.91 (3.11, 13.59) -4 (-4, 4)	1.88 (3.19, -1.34) -2 (0, 0)	1.88 (4.38, -0.33) 2 (0, 0)	2.26 (5.99, -9.94) -2 (0, 0)	-2.66 (9.21, -2.6) 3 (5, 0)	3.1 (0.33, -5.01) 3 (3, 0)	2.66 (4.98, 1.68) -3 (-1, -2)	6.5 (12.13, 1.42) -12 (-3, -4)	13.35 (11.74, 14.74) -9 (6, -1)	1.52 (9.63, -6.41) 2 (1, 2)	NA 2 (13, -3)	
L-carnitine/l-acetylcarnitine	-2.48 (-5.15, 0.03) 4 (0, 8)	-3.31 (8.42, 1.82) 5 (-1, 10)	-5.27 (-7.28, 2.95) 8 (3, 10)	2.78 (-2.31, 8.46) -2 (-4, 4)	-5.24 (-7.45, -2.78) 8 (3, 10)	-7.12 (-16.22, 1.72) 10 (-1, 11)	6.81 (2.71, 10.77) 9 (5, 16)	11.02 (9.15, 12.98) -7 (-4, -11)	-2.88 (-11.81, 6.43) 5 (-3, 11)	8.19 (3.57, 12.83) -6 (-4, -6)	-4.52 (-13.23, 4.08) 7 (2, 11)	-3.69 (-9.76, 2.55) 6 (-1, 11)	-4.58 (-7.65, 5.47) 2 (-3, 10)	-1.03 (-7.65, 5.47) 2 (3, 10)	-3.95 (-3.79, -3.93) 6 (3, 7)	6.22 (-3.11, 15.31) -4 (-4, 5)	-6.21 (-13.03, 0.38) 9 (0, 11)	-0.53 (-4.23, 3.3) 1 (2, 7)	-5.23 (-11.84, 1.39) 8 (-1, 11)	-9.37 (-10.24, -8.22) 14 (11, 11)	-4.01 (-7.01, -0.88) 6 (0, 9)	-0.61 (-11.24, 3.39) 6 (-2, 11)	-0.61 (-4.09, 3.14) 1 (-2, 7)	6.23 (-4.48, 16.46) 9 (5, 10)	-5.59 (-6.59, -4.69) 4 (0, 8)	NA 11 (12, 8)	
L- carnitine+cinn	-13.51 (-14.3, -12.95) 11 (4, 9)	-14.33 (-17.57, -11.16) 11 (3, 21)	-16.29 (-16.43, 15.93) 16 (7, 21)	-8.25 (-11.46, -4.52) 5 (0, 15)	-16.26 (-16.6, 15.75) 15 (7, 21)	-18.14 (-25.37, -11.26) 17 (3, 22)	17.83 (11.86, 23.75) 2 (1, 5)	-13.91 (-20.96, -6.54) 12 (1, 22)	-2.83 (-15.38, 6.54) 13 (9, 1)	-15.55 (-22.38, 9.9) 14 (2, 22)	-14.72 (-19.6, 11.6) 10 (1, 21)	-15.61 (-16.8, 9.75) 13 (3, 17)	-12.06 (-12.93, -16.91) 10 (1, 21)	-14.97 (-12.25, 2.33) 13 (7, 18)	-17.23 (-22.18, -12.6) 16 (4, 22)	-11.55 (-13.38, -9.68) 9 (2, 18)	-11.55 (-19.38, -21.2) 21 (15, 22)	-16.26 (-25.04, -16.27) 14 (4, 20)	-20.4 (-16.16, -13.86) 20 (8, 22)	-15.04 (-10.58, -13.71) 12 (4, 15)	-20.8 (-19.46, -16.12) 19 (8, 17)	15.03 (-13.23, 9.84) 12 (2, 17)	-11.64 (-7.66, -9.69) 7 (2, 13)	-4.79 (-13.62, 3.84) 2 (0, 13)	-16.62 (-15.74, -17.67) 15 (9, 16)	NA 19 (16, 19)	
Magnesium	0.4 (6.66, -6.41) 0 (2, -1)	-0.43 (3.39, -4.62) 0 (2, -1)	-2.39 (4.53, -9.38) 8 (3, 9)	5.66 (9.5, 2.03) 4 (3, 6)	-4.23 (4.36, -9.21) 3 (6, -1)	-2.36 (-4.41, -4.72) 5 (-3, -1)	-4.23 (11.81, -6.43) -5 (-3, -6)	13.91 (20.96, 6.54) -12 (-1, -22)	3.93 (-9.1, 17.27) 14 (2, 27)	11.07 (15.38, 6.39) 13 (1, 17)	-1.64 (-1.42, -2.35) 1 (2, 0)	-0.81 (2.06, -3.88) 2 (3, 1)	1.36 (3.26, 5.05) 1 (2, 0)	-1.7 (4.16, -0.96) 1 (6, -4)	1.85 (8.03, 10.36) -2 (0, -4)	-1.07 (-8.7, 8.88) 4 (2, 0)	-3.33 (-6.22, -6.06) 3 (3, 0)	2.35 (7.58, -3.13) 3 (2, 0)	-2.35 (-0.03, -5.04) 3 (2, 0)	-6.49 (1.58, 14.65) 9 (14, 0)	-1.13 (-4.8, -7.31) 1 (3, 2)	-6.89 (-4.08, -9.72) 8 (7, 0)	2.27 (0.57, -3.04) 3 (2, 0)	9.11 (7.72, -3.3) -2 (-3, -4)	-2.71 (7.33, 10.02) 4 (8, -1)	NA 6 (15, -3)	
Micronutrient supplement	-10.67 (2.4, 14) 10 (4, 14)	-11.5 (-11.99, -11.01) 11 (3, 16)	-13.46 (-10.85, -15.77) 14 (7, 16)	-5.41 (-5.88, -4.37) 4 (0, 10)	-13.43 (-11.02, -15.6) 14 (7, 16)	-15.31 (-19.79, -11.11) 16 (3, 17)	-8.19 (-3.57, -12.83) 6 (-3, 7)	2.83 (5.88, 0.15) -1 (0, -5)	-11.07 (-15.38, -6.39) 11 (1, 17)	15 (6.28, 23.6) 3 (1, 10)	-12.71 (-16.8, -8.75) 13 (3, 17)	-11.88 (-14.03, -11.44) 12 (7, 17)	-9.22 (-11.22, -7.36) 13 (3, 17)	-12.14 (-16.6, 12.45) 12 (7, 13)	-1.97 (-6.68, 2.48) 2 (0, 1)	-14.4 (-16.6, 12.45) 15 (7, 13)	-8.72 (-7.8, -9.53) 7 (2, 13)	-13.42 (-15.41, -11.44) 14 (12, 0)	-17.56 (-18.21, 0.05) 20 (15, 22)	-12.2 (-10.58, -13.71) 12 (4, 15)	-17.96 (-19.46, -16.12) 19 (8, 17)	-12.2 (-14.81, -9.43) 12 (2, 17)	-8.81 (-7.66, -9.69) 7 (2, 13)	-1.96 (-8.05, 3.63) 2 (0, 13)	-13.78 (-10.16, -17.52) 15 (9, 16)	NA 17 (16, 14)	
Minerals	2.04 (8.08, -4.05) -3 (0, -3)	1.21 (4.81, -2.27) -2 (-1, -1)	-0.75 (-1.02, 0.53) 1 (5, -1)	7.3 (10.92, 4.38) -9 (-7, -7)	-0.72 (5.78, 6.86) 1 (5, -1)	-2.59 (-2.99, 2.36) 3 (1, 0)	4.52 (2.99, 2.36) 7 (2, 1)	15.55 (22.38, 8.9) -14 (-2, -22)	1.64 (1.42, 2.35) -2 (-1, 0)	2.29 (-10.52, 14.85) 16 (3, 27)	0.83 (3.48, -1.53) 5 (2, 1)	-0.06 (-16.8, 15.39) 4 (-1, 4)	3.49 (5.58, 1.39) 2 (2, 1)	0.57 (9.45, 8.01) -4 (-1, -2)	10.74 (10.12, 11.23) 11 (7, 12)	-1.69 (-0.2, -3.23) 2 (2, 0)	3.99 (9.39, 2.69) 1 (0, 0)	-0.71 (-3.26, 1.93) 1 (0, 0)	-4.85 (-2.66, -7.07) 7 (12, 0)	0.51 (6.22, 4.96) -1 (1, -2)	-5.25 (-2.66, -7.84) 6 (5, 0)	0.51 (1.99, 0.69) -1 (0, 0)	10.75 (8.76, 12.38) -10 (-4, -2)	-1.07 (-6.64, -8.77) 2 (7, 3)	NA 4 (13, -3)		
Myoinos																											