

Difference between motility NMA estimated relative effect compared to placebo and ranks																									
Ranks in <i>italics</i> , 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	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/minera	walnuts	zinc/zinc + folic acid	placebo/no treatment
antioxidants	3.97 (-1.13, 9.12) 13 (6, 22)	-0.22 (-3.51, 3.04) 1 (2, 2)	-2.43 (-2.78, -2.22) 4 (2, 2)	6.05 (2.45, 9.81) 6 (-5, -4)	-2.27 (-3.3, -1.3) 4 (1, 2)	-4.28 (-11.58, 3.11) 5 (2, 3)	1.14 (2.7, -0.53) 2 (0, -4)	12.6 (12.18, 12.8) -11 (-5, -17)	-0.12 (-7.89, 7.83) 1 (4, 3)	11.34 (8.16, 14.03) -10 (-5, -14)	-0.7 (-5.18, 3.73) 1 (2, 3)	-1.73 (-6.26, 2.54) 3 (2, 3)	2.18 (-2.92, 6.81) 2 (-4, 2)	-0.75 (0.65, -2.4) 1 (2, -1)	9.45 (1.16, 17.74) 8 (5, 1)	-3.33 (-8.5, 1.3) 3 (3, 1)	2.37 (0.39, 4.06) 3 (3, 1)	-2.31 (-7.3, 2.34) 3 (2, 3)	-0.2 (-0.78, 0.38) 0 (0, 1)	-1.42 (-3.53, 0.6) 2 (1, 2)	-6.86 (-11.4, -2.15) 8 (2, 3)	-1.33 (-6.57, 3.85) 2 (2, 3)	9.82 (0.17, 19.31) 8 (5, -1)	-2.77 (-2.41, -3.16) 5 (3, 2)	NA 7 (10, 1)
carob	0.22 (3.51, -3.04) -1 (2, -2)	3.75 (-4.64, 12.16) 14 (4, 24)	-2.21 (0.73, -5.26) 3 (4, 0)	6.27 (5.97, 6.77) -7 (-3, -6)	-2.05 (0.21, -4.34) 3 (3, 0)	-4.06 (-8.06, 0.07) 5 (0, 1)	1.36 (6.21, -3.57) -3 (2, -6)	12.82 (15.69, 9.76) -11 (-3, -19)	11.56 (-4.38, 4.79) 0 (2, -1)	-0.48 (11.67, 10.99) -10 (-3, -16)	-1.51 (-2.75, -0.5) 2 (0, 1)	2.4 (0.6, 3.78) -3 (-2, 0)	-0.53 (4.17, -5.44) 1 (4, -3)	9.67 (4.68, 14.42) -9 (-3, -4)	-3.11 (-4.98, -1.3) 4 (1, 1)	2.59 (3.9, 1.02) 3 (0, 1)	-2.09 (-3.79, -0.7) 3 (0, 1)	0.02 (2.73, -2.66) 0 (2, -1)	-1.2 (-0.02, -2.43) 2 (1, 0)	-6.64 (-7.89, -5.19) 8 (4, 1)	-1.11 (-3.06, 0.81) 1 (0, 1)	10.04 (3.69, 16.27) -9 (-3, -3)	-2.55 (1.1, -6.2) 4 (5, 0)	NA 6 (12, -1)	
coenzyme q10	2.43 (2.78, 2.22) -4 (-2, -2)	2.21 (-0.73, 5.26) -3 (4, 0)	1.53 (-3.91, 6.9) 17 (8, 24)	8.48 (5.23, 12.03) -10 (-7, -6)	0.16 (-0.52, 0.92) 0 (1, 0)	-1.85 (-8.8, 5.33) 1 (4, 1)	3.58 (5.48, 1.69) -6 (-2, -6)	15.03 (14.96, 15.02) -15 (-7, -19)	2.31 (-5.11, 10.05) -3 (6, 1)	13.77 (10.94, 16.24) -14 (-7, -16)	1.74 (-2.4, 5.95) -3 (-4, 1)	0.71 (-3.48, 4.76) -1 (-4, 1)	4.61 (-0.13, 9.03) -6 (-6, 0)	1.69 (3.43, -0.18) -3 (0, -3)	11.88 (3.94, 19.68) -12 (-7, -4)	-0.9 (-5.72, 3.96) 1 (-3, 1)	4.8 (3.17, 6.28) -7 (-5, -3)	0.12 (-4.52, 4.56) -1 (-4, 1)	2.24 (2, 2.6) -4 (-2, -1)	1.02 (-0.75, 2.82) -2 (-3, 0)	-4.43 (-8.62, 0.07) 4 (0, 1)	1.11 (-3.79, 6.07) -2 (-4, 1)	12.25 (2.95, 21.52) -12 (-7, -3)	-0.34 (0.37, -0.94) 1 (1, 0)	NA 3 (8, -1)
coenzyme-q10 + l-carnitine + lycopene + zinc high dose	-6.05 (-2.45, -9.81) 6 (5, 4)	-6.27 (-5.97, -6.77) 7 (3, 6)	-8.48 (-5.23, -12.03) 10 (7, 6)	10.02 (1.32, 18.93) 6 (1, 18)	-8.32 (-5.76, -11.11) 10 (6, 6)	-10.33 (-14.03, -6.71) 12 (3, 7)	-4.91 (0.25, -10.34) 4 (5, 0)	6.55 (9.73, 2.99) -4 (-0, -13)	-6.17 (-10.35, 1.99) 7 (1, 7)	5.29 (5.71, 4.21) -3 (0, -10)	-6.75 (-7.63, -6.08) 8 (3, 7)	-7.78 (-8.71, -7.27) 9 (3, 7)	-3.87 (-5.37, -3) 4 (1, 6)	-6.8 (-1.8, -12.21) 8 (7, 3)	3.4 (-1.29, 7.65) 2 (0, 2)	-9.38 (-10.95, -8.07) 11 (4, 7)	-3.68 (-2.06, -5.75) 3 (2, 3)	-8.36 (-9.75, -7.47) 10 (3, 7)	-6.24 (-7.23, -9.44) 3 (5, 5)	-7.46 (-5.99, -9.21) 9 (4, 6)	-12.91 (-13.85, -11.96) 15 (7, 7)	-7.38 (-9.02, -5.96) 9 (3, 7)	3.77 (2.28, 9.49) -1 (0, 3)	-8.82 (-4.86, 12.98) 11 (8, 6)	NA 14 (15, 5)
folic acid	2.27 (3.3, 1.3) -4 (-1, -2)	2.05 (-0.21, 4.34) -3 (-3, 0)	-0.16 (0.52, -0.92) -10 (-6, -6)	8.32 (5.76, 11.11) -10 (-6, -6)	1.7 (-4.43, 7.82) 17 (7, 24)	-2.01 (-8.28, 4.41) 2 (-3, 1)	3.41 (6, 0.77) -6 (-1, -6)	14.87 (15.48, 14.1) -14 (-6, -19)	2.15 (-4.59, 9.13) -3 (-5, 1)	13.61 (11.46, 15.33) -2 (-3, 1)	1.57 (-1.88, 5.03) -1 (-3, 1)	0.54 (-2.96, 3.84) -6 (-5, 0)	4.45 (0.39, 8.12) -2 (-4, 2)	1.52 (3.95, -1.1) 2 (1, -1)	11.72 (4.46, 18.76) 1 (2, 1)	-1.06 (-5.19, 3.04) -7 (-4, -3)	4.64 (3.69, 5.36) -1 (-3, 1)	-0.04 (-4, 3.64) -3 (-1, -1)	2.07 (2.52, 1.68) -1 (-2, 0)	0.85 (-0.23, 1.91) -1 (-2, 0)	-4.59 (-8.1, -0.85) 5 (1, 1)	0.94 (-3.27, 5.15) -2 (-3, 1)	12.09 (3.48, 20.61) -12 (-6, -3)	-0.5 (0.89, -1.86) 1 (2, 0)	NA 3 (9, -1)
herb/mineral supplement	4.28 (11.58, -3.11) 5 (2, -3)	4.06 (8.06, -0.07) -5 (0, -1)	1.85 (-0.73, -3.23) -1 (-4, -1)	10.33 (14.03, 6.71) -12 (-3, -7)	2.01 (8.28, -4.41) -2 (-3, -1)	0.32 (-12.71, 12.23) 18 (4, 25)	5.43 (23.76, 9.69) -16 (-3, -20)	16.88 (14.28, -13.33) -11 (-5, -17)	4.16 (3.69, 4.72) -4 (-2, 0)	15.62 (19.74, 10.92) -15 (-3, -17)	2.56 (6.4, 0.63) -2 (0, 0)	6.46 (8.66, 3.71) -8 (-2, -4)	3.54 (12.24, -5.51) -12 (-4, -4)	13.73 (12.74, 14.35) -13 (-3, -5)	0.95 (3.08, -1.37) -1 (1, 0)	2.65 (11.97, 0.95) -8 (-1, -4)	1.97 (4.28, -0.77) -2 (0, 0)	4.09 (10.8, -2.73) -5 (-2, -2)	2.87 (8.04, -2.5) -3 (1, -1)	2.58 (0.18, -5.26) 3 (4, 0)	2.96 (5.01, 0.74) -3 (0, 0)	14.1 (11.75, 16.2) -13 (-3, -4)	1.51 (9.17, -6.27) -1 (-5, -1)	NA 2 (12, -2)	
l-carnitine/l-acetylcarnitine	-1.14 (-2.7, 0.53) 2 (0, 4)	-1.36 (-6.21, 3.57) 3 (2, 6)	-3.58 (-5.48, -1.69) 6 (2, 6)	4.91 (-0.25, 10.34) -4 (-1, -4)	-3.41 (-6, -0.77) 6 (1, 6)	-1.84 (-14.28, 3.64) 7 (2, 7)	5.11 (1.57, 8.59) 11 (6, 18)	11.45 (9.48, 13.33) -9 (-5, -13)	-1.26 (-10.59, 8.36) 3 (4, 7)	10.2 (5.46, 14.55) -8 (-5, -10)	-1.84 (-8.96, 3.07) 3 (2, 7)	-2.87 (-6.62, 7.34) -4 (0, 6)	1.04 (-1.89, -4.98) -5 (0, 3)	-1.89 (-2.05, -1.87) -6 (-5, 2)	9.31 (-1.54, 17.99) -5 (-2, 2)	8.31 (-11.2, 2.27) 7 (1, 3)	1.22 (-2.31, 4.59) -1 (-3, 3)	-3.45 (-10, 2.87) 5 (2, 7)	-1.34 (-3.48, 0.91) 4 (1, 6)	-2.56 (-6.23, 1.13) 2 (-3, 6)	-8.01 (-14.1, -1.62) 4 (2, 7)	-2.47 (-9.27, 4.38) -2 (-5, -9)	8.68 (-2.53, 19.83) -9 (-1, -4)	-3.92 (-5.11, -2.63) 4 (7, 0)	NA 9 (10, 5)
l-carnitine+cinn	-12.6 (-12.18, -12.8) 11 (5, 17)	-12.82 (-15.69, -9.76) 11 (3, 19)	-15.03 (-14.96, -15.02) 15 (7, 19)	-6.55 (-9.73, -2.99) 4 (0, 13)	-14.87 (-15.48, -14.1) 14 (6, 19)	-16.88 (-23.76, -9.69) 16 (3, 20)	-11.45 (-9.48, -13.33) 9 (5, 13)	16.56 (11.05, 21.92) 2 (1, 5)	-12.72 (-20.07, -4.97) 11 (7, 20)	-1.26 (-4.02, 1.23) 1 (0, 3)	-13.29 (-17.36, -9.07) 12 (3, 20)	-14.32 (-18.44, -10.26) 13 (3, 20)	-10.42 (-15.1, -5.98) 8 (1, 19)	-13.35 (-11.53, -15.43) 12 (6, 16)	-3.15 (-11.02, 4.66) 3 (0, 15)	-15.93 (-20.68, -11.06) 15 (4, 20)	-10.23 (-11.79, -8.74) 7 (2, 16)	-12.79 (-19.48, -10.46) 14 (3, 20)	-14.01 (-12.96, -12.42) 11 (5, 18)	-19.46 (-23.58, -14.95) 13 (3, 20)	-13.92 (-18.75, -8.95) 13 (3, 20)	-2.78 (-12.01, 6.51) 3 (0, 16)	-15.37 (-14.59, -15.96) 15 (8, 15)	NA 18 (15, 18)	
magnesium	0.12 (7.89, -7.83) -1 (4, -3)	-0.1 (4.38, -4.79) 0 (2, -1)	2.31 (5.11, -10.05) 3 (6, -1)	6.17 (10.35, 1.99) -10 (-3, -7)	-2.15 (4.59, -9.13) 3 (5, -1)	-1.6 (-3.69, -4.72) -4 (2, 0)	1.26 (10.59, 8.36) -11 (-1, -20)	12.72 (20.07, 4.97) -11 (-1, -20)	3.85 (9.02, 16.95) -14 (2, 25)	11.46 (16.05, 6.2) 2 (1, 0)	-0.58 (-1.63, -5.29) 3 (2, 7)	-1.61 (-6.35, -5.29) 2 (2, 0)	2.3 (4.98, -1.01) -3 (0, -1)	-0.63 (-0.6, -6.09) -9 (-1, -5)	9.57 (9.05, 9.63) -4 (0, -4)	-3.21 (-0.6, -6.09) 4 (3, 0)	2.49 (8.28, -3.77) 0 (4, -2)	-1.19 (0.59, -5.49) 3 (2, 0)	-0.07 (7.11, -7.45) 2 (3, -1)	-4.36 (-3.67, -7.22) 3 (2, 0)	-1.21 (-3.51, -9.98) 1 (2, 0)	9.94 (8.07, 11.48) -5 (4, -5)	-2.65 (5.48, -10.99) -1 (-5, -1)	NA 6 (14, -2)	
micronutrient supplement	-11.34 (8.16, 14.03) 10 (4, -3)	-11.56 (-11.67, -10.99) 10 (3, 16)	-13.77 (-10.94, -16.24) 14 (7, 16)	-5.29 (-5.71, -4.21) 3 (0, 10)	-13.61 (-11.46, -15.33) 14 (6, 16)	-15.62 (-19.74, -10.92) 15 (3, 17)	-10.2 (-5.46, -14.55) 8 (5, 10)	1.26 (4.02, -1.23) -1 (0, -3)	-11.46 (-16.05, 6.2) 11 (1, 17)	15.31 (7.03, 23.15) 3 (1, 8)	-12.04 (-13.34, -10.29) 13 (1, 17)	-13.07 (-14.42, -11.49) 13 (3, 17)	-9.16 (-11.07, -7.21) 8 (1, 16)	-0.05 (-1.03, -1.99) 1 (7, 13)	10.15 (6.34, 13.73) -9 (3, -5)	-2.64 (-3.32, -1.99) -1 (2, -1)	3.06 (5.57, 0.32) -4 (-1, -4)	-1.61 (2.12, -1.39) 2 (0, 0)	0.5 (4.4, -3.36) 1 (1, -1)	-0.72 (1.65, -3.13) -1 (2, -2)	-6.17 (-6.22, -5.88) 7 (4, 0)	-1.61 (-1.39, 0.12) 1 (0, 0)	10.52 (5.35, 15.57) -9 (-3, -4)	-2.08 (2.77, -6.9) 3 (5, -1)	NA 6 (12, -2)
myoinositol	0.7 (5.18, -3.73) -1 (2, -3)	0.48 (1.67, 0.69) -1 (0, -1)	0.71 (2.4, -5.95) 3 (4, -1)	6.75 (7.63, 6.08) -8 (-3, -7)	-1.57 (1.88, -5.03) 2 (3, -1)	-3.59 (7.88, -4.26) -4 (0, 0)	12.29 (17.36, 9.07) -12 (-3, -20)	0.58 (-2.71, 4.09) -1 (2, 0)	12.04 (13.34, 10.29) -11 (-3, -17)	3.27 (-6.31, 12.85) 14 (4, 25)	-1.03 (-1.08, -1.19) 1 (0, 0)	2.88 (2.26, 3.08) -4 (-2, -1)	2.88 (5.83, -6.13) -1 (4, -4)	-0.05 (3.57, -9.22) -9 (3, -5)	10.15 (6.34, 13.73) -9 (3, -5)	-2.64 (-3.32, -1.99) -1 (2, -1)	3.06 (5.57, 0.32) -4 (-1, -4)	-1.61 (2.12, -1.39) 2 (0, 0)	0.5 (4.4, -3.36) 1 (1, -1)	-0.72 (1.65, -3.13) -1 (2, -2)	-6.17 (-6.22, -5.88) 7 (4, 0)	-1.61 (-1.39, 0.12) 1 (0, 0)	10.52 (5.35, 15.57) -9 (-3, -4)	-2.08 (2.77, -6.9) 3 (5, -1)	NA 6 (12, -2)
n-acetyl cysteine	1.73 (6.26, -2.54) -3 (3, -2)	1.51 (2.75, 0.5) -2 (0, -1)	0.71 (3.48, -4.76) 1 (4, -1)	7.78 (8.71, 7.27) -9 (-3, -2)	-0.54 (-7.7, 6.61) 1 (2, 0)	-2.56 (-5.32, 0.57) -5 (2, -7)	2.87 (8.96, -3.07) -5 (-2, -7)	13.07 (18.44, 10.26) -13 (-3, -20)	1.61 (-6.53, 2.9) -2 (4, -4)	14.43 (14.42, 11.49) -1 (0, 0)	1.03 (-7.39, 11.66) -5 (0, 3)	2.24 (-7.39, 11.66) 16 (4, 25)	3.91 (3.34, 4.28) -5 (-2, -1)	0.98 (4.38, 4.47) -1 (1, -3)	11.18 (6.91, -4.94) -11 (-3, 5)	-1.61 (7.42, 14.92) 2 (-1, 0)	4.09 (6.66, 1.52) -2 (2, -2)	-0.58 (-1.04, -0.2) 1 (0, 0)	1.53 (5.48, -2.16) 0 (1, -1)	0.31 (2.73, -1.93) -1 (0, -1)	-5.14 (-5.14, -4.69) 6 (4, 0)	-0.4 (-0.31, 1.31) -1 (0, 0)	11.55 (6.43, 16.77) -5 (4, -3)	-1.05 (3.85, -5.7) 1	