

Supplementary table S1: Parameter estimates for each treatment regimen of all trials for *T. trichiura*

Treatment	Cure rate (c_g)	Egg reduction rate (ϕ_g)	Aggregation in group at BL ($\sigma_g^{(0)}$)	Aggregation in group at FU (k_w)
Alb. 400	0.01 (0,0.03)	0.2 (-0.04,0.4)	0.03 (0.02,0.05)	1.63 (1.14,2.23)
Alb. 400+Iver. 200	0.2 (0.14,0.26)	0.77 (0.65,0.85)	0.03 (0.02,0.04)	1.58 (1.04,2.23)
Alb. 400+Meb. 500	0.04 (0.02,0.08)	0.21 (-0.1,0.47)	0.02 (0.01,0.03)	1.29 (0.82,1.9)
Alb. 400+Oxan. 20	0.91 (0.77,0.99)	0.99 (0.93,1)	0.11 (0.04,0.21)	0.48 (0.02,1.32)
Alb. 400+Oxan. 20b	0.2 (0.14,0.26)	0.73 (0.6,0.83)	0.03 (0.02,0.04)	0.82 (0.43,1.31)
Alb. 400+Oxan. 20c	0.49 (0.41,0.58)	0.86 (0.78,0.93)	0.02 (0.01,0.03)	0.26 (0.14,0.5)
Alb. 400+Oxan. 25	0.63 (0.54,0.72)	0.97 (0.94,0.99)	0.01 (0.01,0.01)	0.31 (0.09,0.78)
Alb.400+Pyr.20+Oxan.20	0.79 (0.65,0.9)	0.91 (0.67,0.99)	0.15 (0.06,0.31)	0.41 (0.04,1.19)
Iver. 100	0.11 (0.05,0.2)	-0.76 (-1.95,0.07)	0.37 (0.1,1.08)	1.18 (0.63,1.86)
Iver. 200	0.04 (0.01,0.09)	0 (-0.52,0.41)	0.07 (0.02,0.17)	1.3 (0.79,1.96)
Iver. 200b	0.14 (0.07,0.23)	-0.17 (-1,0.41)	0.19 (0.06,0.52)	1.15 (0.58,1.83)
Iver. 400	0.04 (0.01,0.08)	0 (-0.52,0.42)	0.05 (0.02,0.12)	1.35 (0.82,2.02)
Iver. 600	0.07 (0.02,0.13)	0.06 (-0.45,0.47)	0.06 (0.02,0.15)	1.1 (0.64,1.72)
Meb. 500	0.05 (0.02,0.09)	0.52 (0.35,0.66)	0.01 (0.01,0.02)	1.07 (0.73,1.56)
Meb. 500b	0.04 (0.02,0.08)	0.12 (-0.21,0.39)	0.03 (0.02,0.05)	1.25 (0.8,1.83)
Meb. 500c	0.04 (0.02,0.08)	0.29 (0,0.53)	0.07 (0.03,0.14)	1.51 (0.93,2.19)
Meb. 6x100	0.29 (0.21,0.36)	0.87 (0.79,0.92)	0.03 (0.02,0.06)	1.27 (0.73,1.92)
Meb.500+Pyr.20+Oxan.20	0.69 (0.52,0.84)	0.75 (0.11,0.97)	0.24 (0.06,0.6)	0.57 (0.09,1.35)
Oxan. 10	0.13 (0.07,0.21)	0.59 (0.33,0.79)	0.02 (0.01,0.03)	0.89 (0.48,1.48)
Oxan. 15	0.31 (0.21,0.42)	0.77 (0.59,0.89)	0.02 (0.01,0.03)	0.53 (0.25,1.01)
Oxan. 20	0.33 (0.22,0.44)	0.77 (0.57,0.9)	0.02 (0.01,0.04)	0.6 (0.24,1.17)
Oxan. 20b	0.14 (0.09,0.2)	0.65 (0.51,0.77)	0.02 (0.02,0.04)	0.8 (0.47,1.26)
Oxan. 25	0.39 (0.27,0.51)	0.73 (0.51,0.88)	0.03 (0.01,0.07)	0.35 (0.18,0.68)
Oxan. 30	0.41 (0.29,0.53)	0.87 (0.75,0.94)	0.01 (0.01,0.02)	0.39 (0.17,0.79)
Oxan. 5	0.11 (0.05,0.18)	0.37 (0,0.64)	0.04 (0.02,0.08)	0.94 (0.52,1.52)
Pyr. 20+Oxan. 20	0.53 (0.39,0.67)	0.59 (-0.1,0.9)	0.14 (0.05,0.33)	0.65 (0.16,1.38)
Trib. 400	0.02 (0,0.04)	0.4 (0.18,0.57)	0.01 (0.01,0.02)	1.37 (0.94,1.91)
Trib. 400+Iver. 200	0.21 (0.15,0.28)	0.84 (0.75,0.9)	0.02 (0.01,0.03)	1.29 (0.77,1.92)
Trib. 400+Oxan. 25	0.46 (0.37,0.55)	0.93 (0.87,0.97)	0.01 (0.01,0.02)	0.54 (0.2,1.07)

¹ CIV (2016)

² CIV (2017)

³ LAO (2017)

⁴ TAN (2012)

⁵ TAN (2013)

⁶ TAN (2016)

⁷ TAN (2017a)