



Antimalarial artesunate–mefloquine versus praziquantel in African children with schistosomiasis: an open-label, randomized controlled trial

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Supplementary Information: SchistoSAM trial

Supplementary Table 1: Sensitivity analyses of cure rate in the artesunate-mefloquine arm versus the praziquantel arm at week 4 post-treatment, in the intention-to-treat (ITT) population

A. Intention-to-treat analysis: on any available sample result

All subjects who were randomized were included in the ITT analysis populations. In cases where one of the two urine results, or any of the four stool results were missing, then the schistosomiasis status calculations were based only on the available samples.

Species	Artesunate-mefloquine	Praziquantel	Cure rate difference (95% CI)
Both species pooled			
Cure rate n/n (%; 95% CI)	211 / 357 (59.1%; 53.9-64.1)	215 / 351 (61.3%; 56.1-66.2)	-2.1% (-9.3 – 5.0)
<i>S. haematobium</i>			
Cure rate n/n (%; 95% CI)	212 / 352 (60.2%; 55.0-65.2)	217 / 351 (61.8%; 56.6-66.8)	-1.6% (-8.8 – 5.6)
<i>S. mansoni</i>			
Cure rate n/n (%; 95% CI)	48 / 54 (88.9%; 77.8-94.8)	52 / 54 (96.3%; 87.5-99.0)	-7.4% (-18.8 – 3.2)

B. Intention-to-treat analysis: on complete samples only

All randomized subjects were included in this analysis, excluding those that had any missing microscopy results.

Species	Artesunate-mefloquine	Praziquantel	Cure rate difference (95% CI)
Both species pooled			
Cure rate n/n (%; 95% CI)	211 / 357 (59.1%; 53.9-64.1)	214 / 350 (61.1%; 55.9-66.1)	-2.0% (-9.2 – 5.2)
<i>S. haematobium</i>			
Cure rate n/n (%; 95% CI)	212 / 352 (60.2%; 55.0-65.2)	216 / 350 (61.7%; 56.5-66.7)	-1.5% (-8.7 – 5.7)
<i>S. mansoni</i>			
Cure rate n/n (%; 95% CI)	48 / 54 (88.9%; 77.8-94.8)	51 / 53 (96.2%; 87.2-99.0)	-7.3% (-18.8 – 3.4)

C. Intention-to-treat analysis: best case scenario

All missing samples were considered as negative in the calculations of the cure rate.

Species	Artesunate-mefloquine	Praziquantel	Cure rate difference (95% CI)
Both species pooled			
Cure rate n/n (%; 95% CI)	214 / 360 (59.4%; 54.3-64.4)	221 / 357 (61.9%; 56.8-66.8)	-2.5% (-9.6 - 4.7)
<i>S. haematobium</i>			
Cure rate n/n (%; 95% CI)	215 / 355 (60.6%; 55.4-65.5)	223 / 357 (62.5%; 57.3-67.3)	-1.9% (-9.0 – 5.2)
<i>S. mansoni</i>			
Cure rate n/n (%; 95% CI)	48 / 54 (88.9%; 77.8-94.8)	53 / 55 (96.4%; 87.7-99.0)	-7.5% (-18.9 – 3.0)

D. Intention-to-treat analysis: worst case scenario

All missing samples were considered as positive in the calculations of the cure rate.

Species	Artesunate-mefloquine	Praziquantel	Cure rate difference (95% CI)
Both species pooled			
Cure rate n/n (%; 95% CI)	211 / 360 (58.6%; 53.5-63.6)	215 / 358 (60.1%; 54.9-65.0)	-1.4% (-8.6 – 5.7)
<i>S. haematobium</i>			
Cure rate n/n (%; 95% CI)	212 / 355 (59.7%; 54.5-64.7)	217 / 358 (60.6%; 55.5-65.5)	-0.9% (-8.0 – 6.3)
<i>S. mansoni</i>			
Cure rate n/n (%; 95% CI)	50 / 56 (89.3%; 78.5-95.0)	53 / 57 (93.0%; 83.3-97.2)	-3.7% (-15.3 – 7.5)

Supplementary Table 2: Cure rates, using microscopic results, and cure rate difference and cure rate ratios between artesunate-mefloquine and praziquantel arms at the different study time points, per *Schistosoma* species and with both pooled species

Species		Artesunate-mefloquine Cured (cure rate; 95% CI)	Praziquantel Cured (cure rate; 95% CI)	Cure rate difference (95% CI)	Cure rate ratios (95% CI)
<i>S. haematobium</i>	Week 4	209 / 344 (0.608; 0.555-0.658)	213 / 340 (0.626; 0.574-0.676)	-0.019 (-0.091- 0.054)	0.97 (0.86-1.09)
	Week 10	263 / 339 (0.776; 0.728-0.817)	258 / 335 (0.770; 0.722-0.812)	0.006 (-0.058- 0.069)	1.01 (0.93-1.09)
	Week 16	294 / 336 (0.875; 0.835-0.906)	263 / 333 (0.790; 0.743-0.830)	0.085 (0.029- 0.142)	1.11 (1.03-1.19)
	Week 24	274 / 318 (0.862; 0.819-0.895)	253 / 325 (0.778; 0.730-0.820)	0.083 (0.024- 0.142)	1.11 (1.03-1.19)
<i>S. mansoni</i>	Week 4	58 / 290 (0.200; 0.158-0.250)	50 / 304 (0.164; 0.127-0.210)	0.036 (-0.027- 0.098)	1.22 (0.86-1.71)
	Week 10	48 / 54 (0.889; 0.778-0.948)	50 / 52 (0.962; 0.870-0.989)	-0.073 (-0.187- 0.036)	0.92 (0.83-1.03)
	Week 16	49 / 53 (0.925; 0.821-0.970)	50 / 52 (0.962; 0.870-0.989)	-0.037 (-0.144- 0.065)	0.96 (0.87-1.06)

	Week 24	44 / 51 (0.863; 0.743-0.932)	47 / 52 (0.904; 0.794-0.958)	-0.041 (-0.173- 0.089)	0.95 (0.83-1.1)
	Week 48	28 / 48 (0.583; 0.443-0.712)	33 / 50 (0.660; 0.522-0.776)	-0.077 (-0.259- 0.112)	0.88 (0.64-1.19)
Pooled	Week 4	208 / 349 (0.596; 0.544-0.646)	211 / 340 (0.621; 0.568-0.671)	-0.025 (-0.097- 0.048)	0.96 (0.85 - 1.08)
	Week 10	262 / 343 (0.764; 0.716-0.806)	255 / 335 (0.761; 0.713-0.804)	0.003 (-0.061- 0.067)	1.0 (0.92 - 1.09)
	Week 16	297 / 340 (0.874; 0.834-0.905)	261 / 333 (0.784; 0.736-0.825)	0.090 (0.033- 0.146)	1.11 (1.04 - 1.19)
	Week 24	270 / 322 (0.839; 0.794-0.875)	246 / 325 (0.757; 0.707-0.800)	0.082 (0.020- 0.143)	1.11 (1.02 - 1.2)
	Week 48	54 / 294 (0.184; 0.144-0.232)	48 / 304 (0.158; 0.121-0.203)	0.026 (-0.035- 0.086)	1.16 (0.82-1.66)

Note: CI denotes confidence interval; The ratios of cure rates were calculated per time point together with the Wald confidence interval.