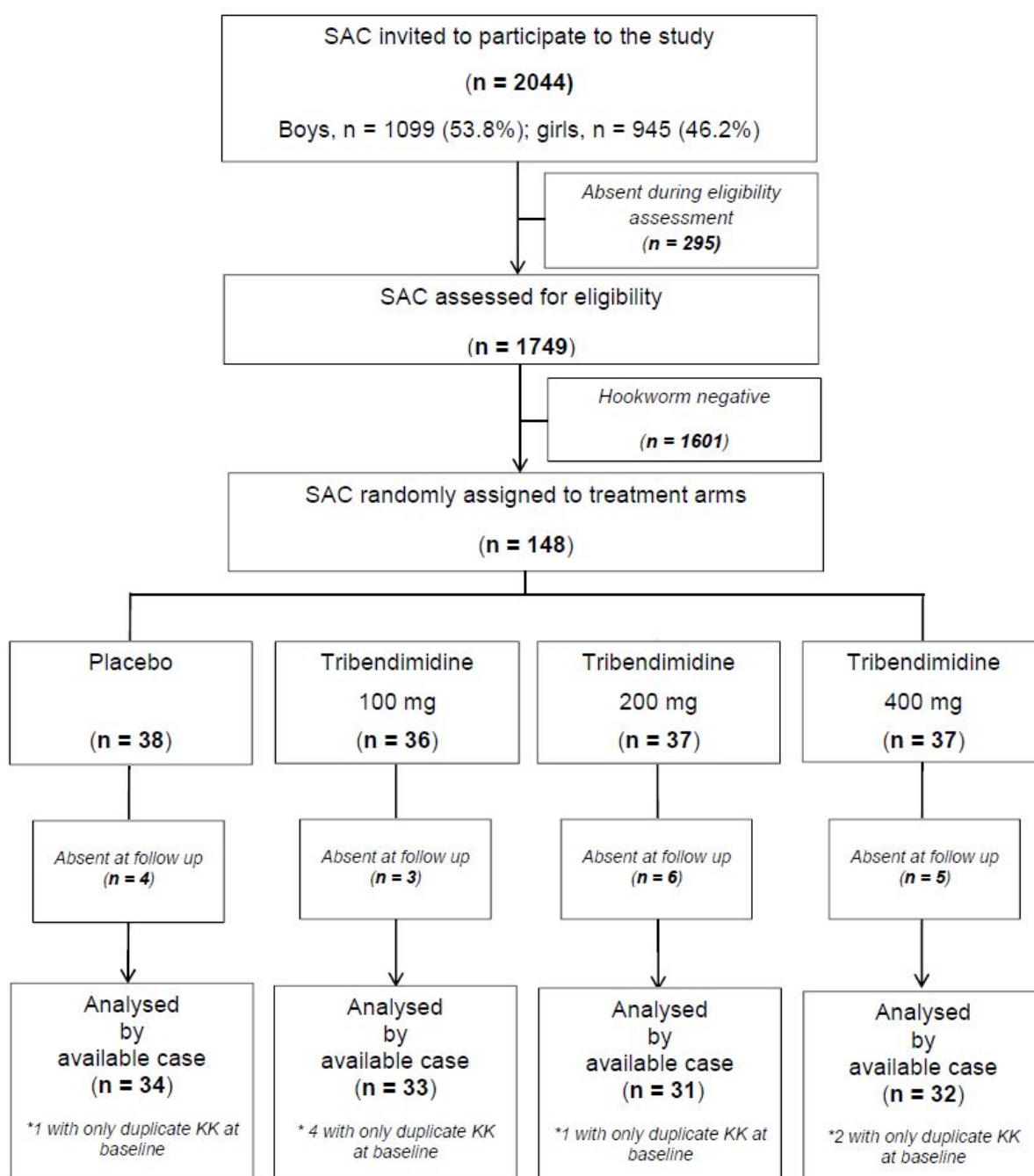


Participant Flow



Baseline Characteristics

Characteristics	Treatment arm				
	Placebo	100 mg	200 mg	400 mg	Total
Children N	38	36	37	37	148
Female n (%)	15 (39.5)	14 (38.9)	10 (27.0)	12 (32.4)	51 (34.2)
Age, years; median [IQR]	8.5 [7-11]	9 [7-10.5]	9 [7-10]	8 [7-11]	9 [7-11]
Weight, kg; median [IQR]	26.5 [22-30]	26 [22-29]	25 [20-29]	23 [20-28]	25.5 [21-29]
Height, cm; median [IQR]	129.5 [122-137]	127.5 [119-139]	129 [120-136]	123 [114-132]	127 [119-137]
Temperature, °C, median [IQR]	36.7 [36.5-36.9]	36.7 [36.2-37.0]	36.7 [36.3-37.0]	36.7 [36.4-37.0]	36.7 [36.4-37.0]
Pool, Beats/Minute, median [IQR]	98.5 [88-104]	92 [82-107]	97 [84-104]	100 [84-104]	98 [84-104]
EPG median [IQR]	84 [24-366]	150 [48-294]	90 [36-150]	108 [54-210]	99 [39-240]
Geometric mean (GM) EPG (95% CI)	85.2 (48.6-148.8)	129.3 (79.9-208.9)	92.1 (55.9-151.1)	110.9 (75.8-162.1)	102.7 (81.2-129.9)
Infection intensity, n (%)					
Low	37 (97.4)	35 (97.2)	35 (94.6)	37 (100)	144 (97.3)
Moderate	1 (2.6)	1 (2.8)	2 (5.4)	0 (0.0)	4 (2.7)
Heavy	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Co-infections n (%)					
<i>Ascaris lumbricoïdes</i>	2 (5.3)	1 (2.8)	1 (2.7)	0 (0.0)	4 (2.7)
<i>Trichuris trichiura</i>	6 (15.8)	1 (2.8)	3 (8.1)	5 (13.5)	15 (10.1)
<i>Plasmodium falciparum</i>	21 (55.3)	17 (47.2)	22 (59.5)	21 (56.8)	81 (54.7)

Outcome Measures

Treatment outcome	Treatment arm			
	Placebo	100 mg	200 mg	400 mg
Hookworm				
Infected children before treatment (N)	34	33	31	32
Cured children after treatment, n (%)	7 (20.6)	7 (21.2)	12 (38.7)	17 (53.1)
95% CI	8.7-37.9	9.0-38.9	21.8-57.8	34.7-70.9
Cured children according to sex				
Male, n (%)	4 (57.1)	6 (85.7)	7 (58.3)	12 (70.6)
95% CI	18.4-90.1	42.1-99.6	27.7-84.8	44.0-89.7
Female, n (%)	3 (42.8)	1 (14.3)	5 (41.7)	5 (29.4)
95% CI	9.9-81.6	0.4-57.9	15.2-72.3	10.3-55.9
Cured children according to infection intensity*, % [n/N]				
Low	100 [7/7]	85.7 [6/7]	100 [12/12]	100 [17/17]
Moderate	na	100 [1/1]	na	na
Heavy	na	na	na	na
Geometric mean EPG				
Before treatment	86.6	129.7	97.0	118.3
After treatment	60.1	44.9	17.4	9.2
Egg reduction rate (%)	30.6	65.4	82.1	92.2
95% CI	-24.7-64.1	24.5-85.9	58.4-92.5	81.0-97.1
Arithmetic mean EPG				
Before treatment	334.1	354.7	313.3	213.6
After treatment	273.9	258.4	130.3	218.1
Egg reduction rate (%)	18.0	27.2	58.4	-2.1**
95% CI	-32.0-46.2	-41.7-65.9	3.0-79.4	-1.7-71.2
<i>T. trichiura</i>				
Cured children after treatment, % [n/N]	0.0 [0/5]	0.0 [0/0]	100 [2/2]	66.7 [2/3]
<i>A. lumbricoides</i>				
Cured children after treatment, n/N (%)	1/2 (50.0)	0/1 (0.0)	0/0 (0.0)	0/0 (0.0)

Compound	Parameter	100 mg	200 mg	400 mg
dADT	C _{max} [ng/ml]	853 (693-1,115)	1,530 (1,150-1,960)	2,275 (1,618-2,875)
	T _{max} [h]	1 (1-2)	3 (2-4)	3 (2-5)
	AUC _{0-22h} [h*ng/ml]	3,019 (2,666-4,221)	6,038 (5,231-7,518)	12,530 (10,597-14,886)
	AUC _∞ [h*ng/ml]	3,059 (2,753-4,422)	6,638 (2,726-7,613)	12,530 (11,311-15,558)
	AUMC _∞ [h ² *ng/ml]	13,249 (10,615-22,175)	35,986 (29,564-53,870)	75,341 (59,252-94,861)
	T _{1/2} [h]	4.5 (3.5-4.2)	3.8 (3.3-4.1)	3.7 (3.2-4.3)
	MRT _∞ [h]	4.3 (3.8-5.1)	5.6 (4.2-6.7)	6.1 (4.7-6.6)
	CL/F [L/h]	33 (24-38)	31 (27-38)	33 (27-38)
adADT	C _{max} [ng/ml]	111 (46-216)	124 (71-326)	297 (124-546)
	T _{max} [h]	2 (1-3)	4 (2-5)	4 (3-5.5)
	AUC _{0-22h} [h*ng/ml]	797 (267-1,223)	1,211 (488-2,015)	2,791 (970-3,775)
	AUC _∞ [h*ng/ml]	695 (290-1,293)	1,260 (545-2,238)	3,023 (986-4,583)
	AUMC _∞ [h ² *ng/ml]	3,914 (1,612-7,045)	8,772 (4,024-15,274)	21,472 (7,029-33,091)
	T _{1/2} [h]	3.8 (3.2-5.0)	3.7 (3.6-4.6)	3.8 (3.5-5.0)
	MRT _∞ [h]	5.4 (4.8-6.3)	6.7 (5.7-7.8)	7.3 (5.8-8.0)

Adverse Events

Symptoms	Placebo 33	100 mg 32	200 mg 30	400 mg 32	Overall (n= 127*)
Before treatment					
Moderate	0	0	0	0	0
Mild	11	15	7	9	42
None	22	17	25	23	87
Headache	6	5	1	4	16
Stomach ache	5	4	3	3	15
Itching	3	4	3	2	12
Thrill	0	5	2	4	11
Nausea	0	0	1	0	1
Vomiting	0	1	1	0	2
Diarrhea	2	1	3	0	6
3 h posttreatment					
Moderate	0	1	0	0	1
Mild	9	13	9	10	41
None	24	18	21	22	85
Headache	2	4	4	2	12
Stomach ache	4	5	1	6	16
Itching	1	2	2	1	6
Thrill	3	6	6	3	18
Nausea	0	0	1	1	2
Vomiting	1	0	1	2	4
Diarrhea	2	2	2	4	10
24 h posttreatment					
Moderate	0	0	0	1	1
Mild	1	3	3	2	9
None	32	29	27	29	117
Headache	1	3	1	0	5
Stomach ache	1	2	1	0	4
Itching	0	0	0	1	1
Thrill	1	1	0	1	3
Nausea	0	0	0	0	0
Vomiting	0	0	1	1	2
Diarrhea	0	0	0	0	0