

**S7 Table. Pharmacokinetic parameters of praziquantel (PZQ), PZQ enantiomers, and the major metabolite in Healthy School Age Children (HSAC), infected school-aged children (SAC), and infected preschool-aged children (PSAC) after the administration of racemic PZQ.** The PZQ brands, when named, were listed in subscript: BILT: Biltricide. Unless otherwise stated the following acronyms represent; AUC: Area under the plasma concentration-time curve, A (AUC<sub>0-8</sub>): Area under the plasma concentration-time curve from time zero to time t, B (AUC<sub>0-inf</sub>): Area under the plasma concentration-time curve extrapolated from time zero to infinity, C (AUC<sub>last</sub>): Area under the plasma concentration-time curve from time zero to time of last measurable concentration, t<sub>1/2</sub>: Elimination half-life, C<sub>max</sub>: Peak plasma concentration, T<sub>max</sub>: Time to reach peak plasma concentration following drug administration.

Drug Administered	Drug Measured	PZQ Dose (mg/kg)	N	t <sub>1/2</sub> (h)	T <sub>max</sub> (h)	C <sub>max</sub> (ng/ml)	AUC	
							(ng/h/ml)	(ng*h/ml)
PZQ <sup>[1]</sup>		20						
	<i>PSAC (haematobium)</i>	<i>(R)-PZQ</i>	39	7.39	1.00	320		1160 <sup>C</sup>
	<i>PSAC (mansoni)</i>		32	5.02	1.50	330		1350 <sup>C</sup>
	<i>SAC (haematobium)</i>		45	4.41	2.50	180		1010 <sup>C</sup>
	<i>SAC (mansoni)</i>		47	3.12	1.00	70		270 <sup>C</sup>
	<i>PSAC (haematobium)</i>	<i>(S)-PZQ</i>	39	5.58	1.00	600		1800 <sup>C</sup>
	<i>PSAC (mansoni)</i>		32	4.32	1.50	500		1820 <sup>C</sup>
	<i>SAC (haematobium)</i>		45	4.92	1.50	340		1670 <sup>C</sup>
	<i>SAC (mansoni)</i>		47	3.59	1.00	190		600 <sup>C</sup>
	<i>PSAC (haematobium)</i>	<i>(R)-4-OH-PZQ</i>	39	3.49	2.00	4920		23080 <sup>C</sup>
	<i>PSAC (mansoni)</i>		32	2.88	2.50	3240		16840 <sup>C</sup>
	<i>SAC (haematobium)</i>		45	3.28	2.50	4640		22200 <sup>C</sup>
	<i>SAC (mansoni)</i>		47	2.73	2.00	6430		29870 <sup>C</sup>
PZQ <sub>(BILT)</sub> <sup>[2]</sup>		30						
	<i>HSAC</i>	<i>PZQ</i>	1	x	1.50	160	761 <sup>A</sup>	
	<i>HSAC</i>		1	4.2	1.50	817	2870 <sup>A</sup>	
	<i>HSAC</i>		1	4.2	1.50	820	2867 <sup>A</sup>	
	<i>HSAC</i>		1	1.1	2.00	2096	4437 <sup>A</sup>	
	<i>HSAC</i>		1	1.1	2.00	2365	4753 <sup>A</sup>	
	<i>HSAC</i>		1	2.8	2.00	1022	2508 <sup>A</sup>	
	<i>HSAC</i>		6	2.7	1.75	1213	30327 <sup>A</sup>	
	<i>SAC (haematobium)</i>		1	2.7	1.50	4822	1419 <sup>A</sup>	
	<i>SAC (haematobium)</i>		1	1.3	1.00	2346	3742 <sup>A</sup>	
	<i>SAC (haematobium)</i>		1	1.4	1.50	4088	6126 <sup>A</sup>	
	<i>SAC (haematobium)</i>		1	2	1.50	500	1061 <sup>A</sup>	
	<i>SAC (haematobium)</i>		1	0.8	4.00	3868	8081 <sup>A</sup>	
	<i>SAC (haematobium)</i>		5	1.7	1.90	3125	40858 <sup>A</sup>	
PZQ <sup>[1,3]</sup>		40						
	<i>PSAC (haematobium)</i>	<i>(R)-PZQ</i>	43	5.57	1.50	410		1170 <sup>C</sup>
	<i>PSAC (mansoni)</i>		29	5.65	1.00	490		1710 <sup>C</sup>

<i>SAC (haematobium)</i>		46	4.33	2.00	320		1150 <sup>C</sup>
<i>SAC (mansoni)</i>		30	3.48	3.28	131100	500 <sup>B</sup>	
<i>SAC (mansoni)</i>		46	3.91	1.50	250		780 <sup>C</sup>
<i>PSAC (haematobium)</i>	<i>(S)-PZQ</i>	43	4.94	1.50	910		2240 <sup>C</sup>
<i>PSAC (mansoni)</i>		29	4.64	1.00	900		2200 <sup>C</sup>
<i>SAC (haematobium)</i>		46	4.61	2.00	740		2730 <sup>C</sup>
<i>SAC (mansoni)</i>		30	2.96	3.30	581300	2620 <sup>B</sup>	
<i>SAC (mansoni)</i>		46	2.25	1.50	770		2190 <sup>C</sup>
<i>PSAC (haematobium)</i>	<i>(R)-4-OH-PZQ</i>	43	3.71	3.00	8140		42590 <sup>C</sup>
<i>PSAC (mansoni)</i>		29	3.42	2.00	6920		32740 <sup>C</sup>
<i>SAC (haematobium)</i>		46	3.7	3.00	8160		47790 <sup>C</sup>
<i>SAC (mansoni)</i>		46	3.09	2.50	10320		56590 <sup>C</sup>
PZQ <sup>[1,3]</sup>		60					
<i>PSAC (haematobium)</i>	<i>(R)-PZQ</i>	41	5.09	1.5	620		2250 <sup>C</sup>
<i>PSAC (mansoni)</i>		33	5.95	1	690		2740 <sup>C</sup>
<i>SAC (haematobium)</i>		44	5.34	2.5	440		1840 <sup>C</sup>
<i>SAC (mansoni)</i>		28	4.36	3.13	144950	430 <sup>B</sup>	
<i>SAC (mansoni)</i>		42	4.49	1.5	290		1000 <sup>C</sup>
<i>PSAC (haematobium)</i>	<i>(S)-PZQ</i>	41	4.8	2	1220		4870 <sup>C</sup>
<i>PSAC (mansoni)</i>		33	4.58	1	1330		4990 <sup>C</sup>
<i>SAC (haematobium)</i>		44	5.58	2.5	1250	2580 <sup>B</sup>	5090 <sup>C</sup>
<i>SAC (mansoni)</i>		28	3.02	3.23	695560		
<i>SAC (mansoni)</i>		42	4.05	2	1000		3500 <sup>C</sup>
<i>PSAC (haematobium)</i>	<i>(R)-4-OH-PZQ</i>	41	3.64	3	13490		107440 <sup>C</sup>
<i>PSAC (mansoni)</i>		33	3.54	2.5	8290		49940 <sup>C</sup>
<i>SAC (haematobium)</i>		44	3.86	4.5	11490		88320 <sup>C</sup>
<i>SAC (mansoni)</i>		42	3.19	3	13570		89220 <sup>C</sup>

## References

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