

TABLE 1

Chemotherapy of trophozoite induced infections of *Plasmodium vivax* (Achiote strain) in unaltered *Saimiri sciureus*.

Experiment no.	Monkey no.	Treatment initiated		Response	
		Patent day	Parasitemia per mm <sup>3</sup>	Days to clear	Negative days examined <sup>2</sup>
Chloroquine (10, 10, 5 mg base/kg in 3 days)					
1	5885	3	1,100	3	52
	6409	5	1,040	4	175
	5881	7	1,160	2	15
	5890	7	1,760	2	21
	5882	8	940	2	67
	5900	8	3,850	3	73
Chloroquine (10 mg base/kg in 1 day)					
2	5895	5	1,120	2	126
	5896	6	1,160	3	38
	5886	7	1,070	3	194
	6386	8	1,590	1	161
Pyrimethamine (1 mg/kg in 1 day)					
3	5203	6	1,190	6	176
	5879	6	2,610	6	24
	5986	6	3,060	5	17
	5988	7	4,210	5	72
	5982	13	5,150	4	11
Untreated controls					
		Primary attack		Relapses <sup>1</sup> Subpatent period(s) (days)	Negative days examined after final patent period
		Patent period (days)	Maximum parasitemia per mm <sup>3</sup>		
1	5892	24	87,130	40	103
	5876	39†	69,420		
2	5897	24	40,380	12; 33	23
	5898	55	76,530		
3	5921	33†	37,540	—	—
	5889	45	93,210		

\* No relapses occurred in treated monkeys.

† Died during patency after maximum parasitemia.

approximated 1,000 per mm<sup>3</sup>, usually during the 1st week of patency, although some of these infections were treated during the 2nd week at higher parasitemias. Drug therapy was initiated for sporozoite induced infections also during the ascending phase, at parasitemias of at least 1,000 per mm<sup>3</sup>, except in two *Aotus* (6252 and 6894); these infections were at lower levels (after peak parasitemia) when treated. All drugs were given orally via gastric tube. Chloroquine and primaquine were administered as the diphosphate salt. One or more months after treatment of the

primary attack, splenectomy was done to provoke parasite relapse in sporozoite induced infections.

The test monkeys were of Panamanian origin and free of naturally acquired malaria, as shown by examination of preinoculation blood films. Aspects of the husbandry of *Saimiri* and *Aotus* have been discussed previously.<sup>4,5</sup>

#### RESULTS

No evidence of drug toxicity at the highest dosages used was seen in uninfected *Saimiri* and *Aotus* as measured by body weight change and overt host activity.

