

THE EFFECT OF PRIMAQUINE ON GAMETOCYTE DEVELOPMENT AND CLEARANCE IN PATIENTS TREATED FOR UNCOMPLICATED FALCIPARUM MALARIA WITH DIHYDROARTEMISININ-PIPERAQUINE IN A PRIMARY HEALTH CARE FACILITY IN VOM, PLATEAU STATE, NIGERIA.

STUDY PROFILE

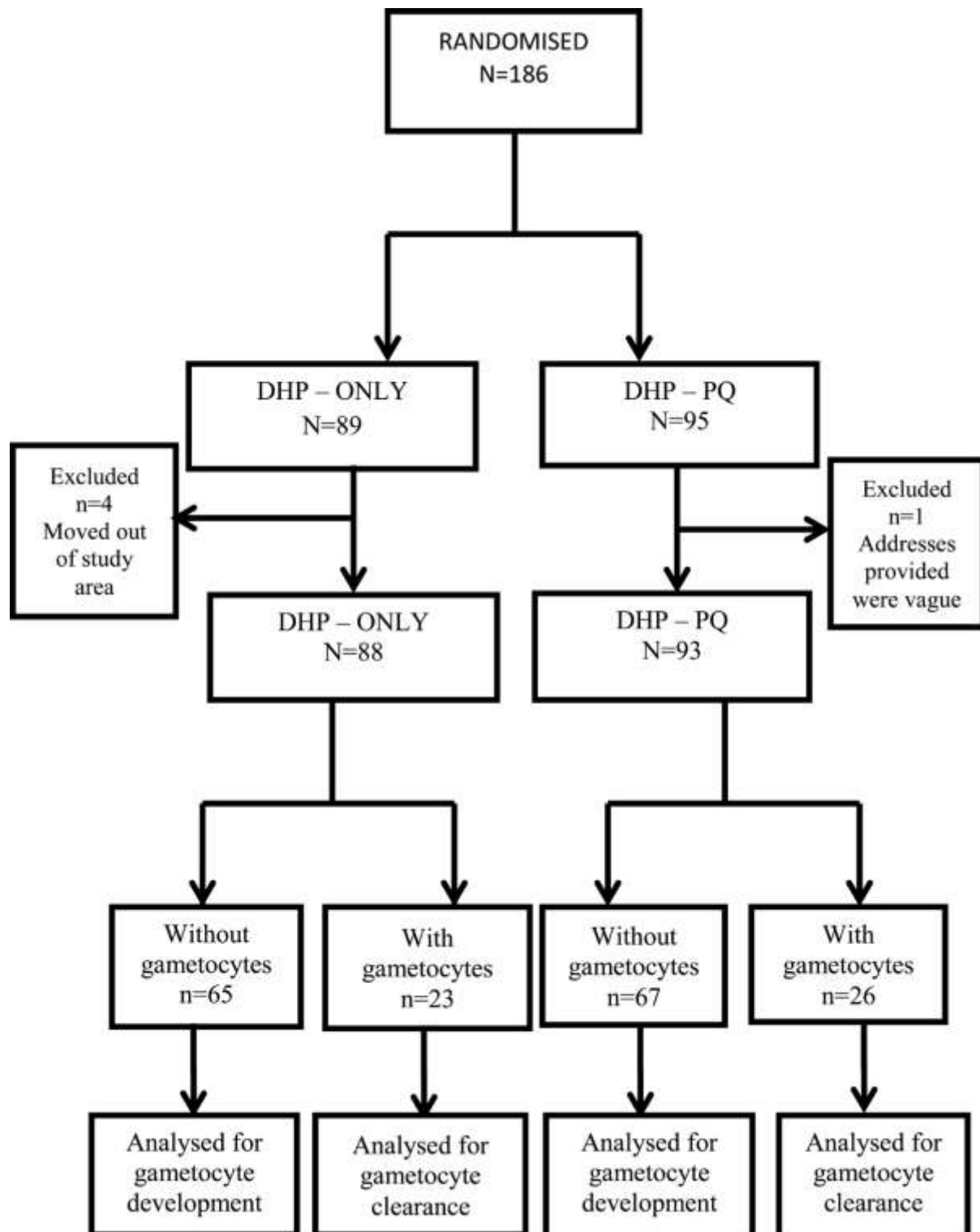


Table 1. Baseline characteristics.

	Drug Treatment Arm		Chi-square/ t-test value	P-value
	DHP (n = 87)	DHP + PQ (n = 93)		
Mean $\pm$ SD age (Years)	32.48 $\pm$ 14.49	35.77 $\pm$ 14.50	1.530	0.128 [†]
Adults	69	80	10.211	0.511 [*]
Children (age > 1 year)	8	6		
Male	26	62	0.156	0.693 [*]
Female	30	63		
Mean $\pm$ SD weight (kg)	59.91 $\pm$ 18.35	61.60 $\pm$ 16.36	0.656	0.513 [†]
Mean $\pm$ SD temperature(°C)	37.54 $\pm$ 0.89	37.60 $\pm$ 0.65	0.591	0.555 [†]
Range of parasitemia (count/L)	1000 - 1980	1170 - 1996		
Mean $\pm$ SD (parasite count) (u/l)	1437.31 $\pm$ 190.50	1460.62 $\pm$ 183.10	0.840	0.402 [†]
Mean $\pm$ SD (gametocyte count) (u/l)	16.02 $\pm$ 30.50	20.32 $\pm$ 28	0.983	0.327 [†]
Haemoglobin Estimation (%)	16.02 $\pm$ 30.50	14.19 $\pm$ 24.86	0.548	0.584 [†]

[†]Independent t-test; ^{*}Chi-square.

Table 2. Overview of mean parasite count on different follow up days.

Day	Treatment Arm	Mean	t-test	p-value
1	DHP	1437.31 $\pm$ 190.50	0.840	0.402
	DHP + PQ	1460.62 $\pm$ 183.10		
3	DHP	713.57 $\pm$ 168.57	2.912	0.004
	DHP + PQ	634.04 $\pm$ 196.87		
7	DHP	298.58 $\pm$ 135.66	5.380	0.0005
	DHP + PQ	186.29 $\pm$ 144.66		
14	DHP	26.44 $\pm$ 29.18	6.690	0.0005
	DHP + PQ	3.95 $\pm$ 13.77		

Table 3. Overview of mean gametocyte count.

Day	Treatment Arm	N	Mean	t-test	p-value
1	DHP	23	16.02 $\pm$ 30.50	0.443	0.658
	DHP + PQ	26	14.19 $\pm$ 24.86		
3	DHP	14	5.28 $\pm$ 12.67	0.832	0.407
	DHP + PQ	12	3.87 $\pm$ 10.11		
7	DHP	3	0.28 $\pm$ 1.76	1.562	0.120
	DHP + PQ	0	0.00 $\pm$ 0.00		

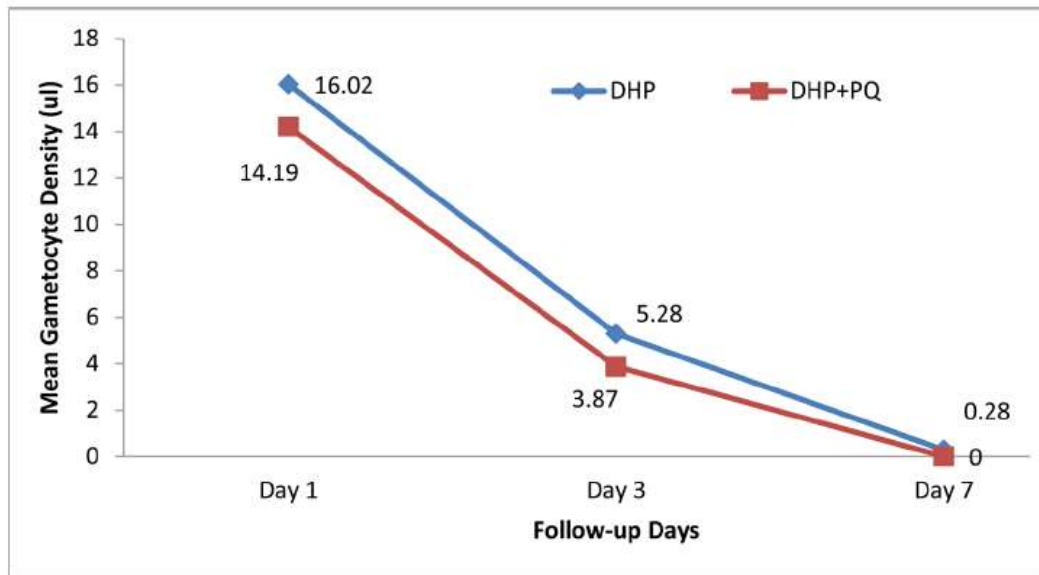


Figure 2. Mean gametocytes density on follow up days.

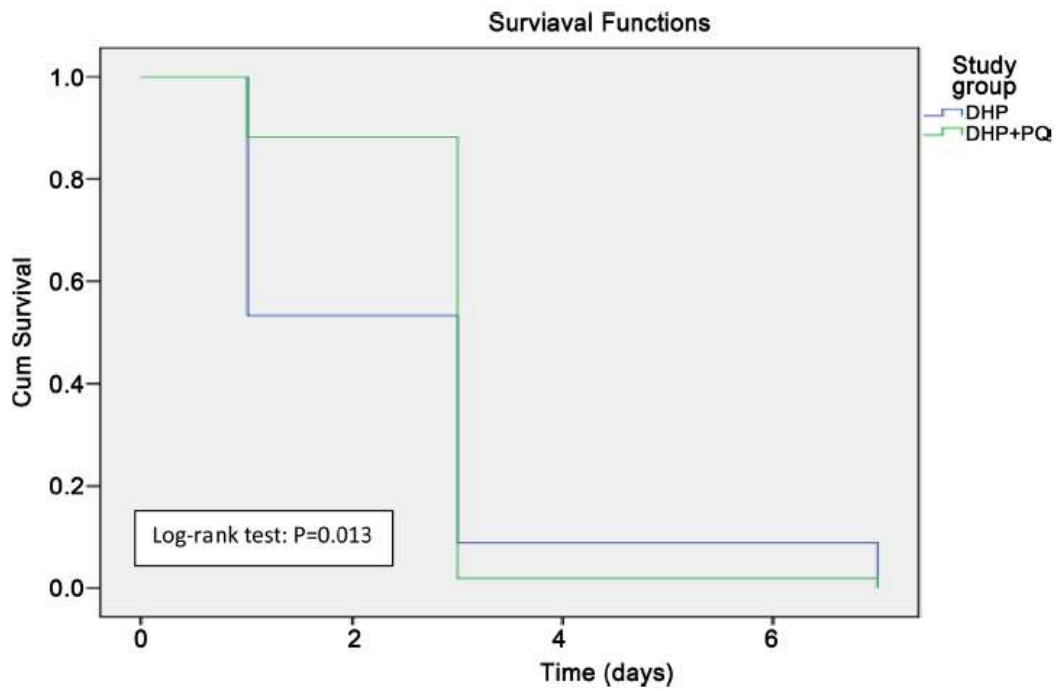


Figure 3. Kaplan-Meier chart for rate of gametocyte clearance between the study groups.

Table 4. Comparison of mean haemoglobin differences between the study groups.

Day	Treatment Arm	Mean $\pm$ SD Haemoglobin (%)	t-test	p-value
1	DHP	13.92 $\pm$ 1.78	0.644	0.584
	DHP + PQ	14.07 $\pm$ 1.89		
3	DHP	13.87 $\pm$ 1.71	0.276	0.783
	DHP + PQ	13.94 $\pm$ 1.70		
7	DHP	13.89 $\pm$ 1.60	0.470	0.639
	DHP + PQ	14.01 $\pm$ 1.68		
14	DHP	14.02 $\pm$ 1.58	0.353	0.724
	DHP + PQ	13.93 $\pm$ 1.67		
21	DHP	13.96 $\pm$ 1.62	0.200	0.842
	DHP + PQ	14.01 $\pm$ 1.63		
28	DHP	14.23 $\pm$ 1.71	1.001	0.318
	DHP + PQ	14.47 $\pm$ 1.51		