

**S5 Table:** Haematological and clinical details of the 75 patients who died

Patient number	Age category	Sex	Ethnic group	Malaria species at presentation	Hb (g/dl) at initial presentation	Lowest Hb (g/dl) during follow up	Number of days between presentation and lowest Hb	Number of days between presentation and death	Schizontocidal drugs	PQ dose	Clinical diagnosis assigned between presentation and death
1	>=15yr	M	LP	<i>P. vivax</i>	10.5	.	.	3	IV artesunate	High dose	Septic shock
											Acute MI
											Pericardial disease
											Bronchopneumonia
											COPD
2	>=15yr	M	HP	Mixed species	4.1	5.1	24	30	IV artesunate / DHA+PIP	High dose	Hypertension
											Chronic renal failure
											Pancytopenia
											Pulmonary oedema
3	>=15yr	F	HP	Mixed species	3	.	.	6	IV artesunate / DHA+PIP	High dose	-
4	>=15yr	M	HP	<i>P. vivax</i>	.	4.7	6	11	DHA+PIP	High dose	Chronic bronchitis
											Chronic renal failure
											Hepatitis C
											HIV
5	>=15yr	M	HP	Mixed species	8.9	.	.	3	IV artesunate / DHA+PIP	High dose	COPD
											Chronic renal failure
											Supraventricular tachycardia
6	>=15yr	M	HP	Mixed species	5.3	.	.	5	IV artesunate / DHA+PIP	High dose	Hypertension
											Congestive heart failure
											Unstable angina
7	>=15yr	M	HP	<i>P. vivax</i>	7.8	5.2	6	23	DHA+PIP	High dose	Pneumonia
8	>=15yr	M	HP	<i>P. vivax</i>	.	11.6	18	25	DHA+PIP	High dose	Hepatitis B
											Hepatic failure





25	>=15yr	M	NP	Mixed species	8	.	.	3	IV artesunate / clindamycin	Nil	-
26	>=15yr	M	HP	<i>P. vivax</i>	9	.	.	3	IV artesunate	High dose	Intracranial space-occupying lesion
27	>=15yr	M	HP	Mixed species	3.5	.	.	3	IV artesunate	Low dose	Chronic renal failure
28	>=15yr	M	HP	<i>P. vivax</i>	11.6	.	.	9	IV artesunate / DHA+PIP	High dose	Tuberculous meningitis
29	>=15yr	F	NP	<i>P. vivax</i>	10.1	.	.	4	IV artesunate / DHA+PIP	Nil	Intracerebral haemorrhage
30	1-5yr	M	HP	<i>P. vivax</i>	9	.	.	5	IV artesunate / DHA+PIP	High dose	Miliary tuberculosis
											Kwashiorkor
											Marasmus
31	1-5yr	M	LP	<i>P. vivax</i>	5.4	.	.	10	IV artesunate / DHA+PIP	High dose	Septic shock
											Trichuriasis
											Protein-energy malnutrition
											Gastroenteritis
32	>=15yr	M	HP	Mixed species	9.9	.	.	3	IV artesunate	High dose	Pneumonia
											Meningitis
											HIV
											Unattended death
33	>=15yr	F	HP	<i>P. vivax</i>	12	.	.	4	IV artesunate	High dose	Tuberculous meningitis
34	1-5yr	F	HP	Mixed species	6.8	4.1	27	30	DHA+PIP	High dose	Gastroenteritis
											Severe protein-energy malnutrition
35	>=15yr	F	HP	<i>P. vivax</i>	8.5	8	4	26	DHA+PIP	Nil	Postpartum haemorrhage
36	>=15yr	M	NP	<i>P. vivax</i>	11.8	.	.	4	DHA+PIP	Low dose	Meningitis
											Cardiac arrest, unspecified
37	1-5yr	F	HP	Mixed species	9.9	7.4	9	12	Artesunate +amodiaquine	Nil	Gastroenteritis

											Kwashiorkor
											Marasmus
											Pulmonary tuberculosis
38	>=15yr	M	HP	Mixed species	8	.	.	7	IV artesunate / DHA+PIP	High dose	Pulmonary tuberculosis
											Acute renal failure
											Urinary tract infection
39	1-5yr	M	HP	Mixed species	2.4	.	.	3	IV artesunate / DHA+PIP	High dose	Hereditary haemolytic anaemia
40	>=15yr	F	HP	<i>P. vivax</i>	6.6	8.7	7	7	DHA+PIP	High dose	Septicaemia
41	>=15yr	M	NP	Mixed species	10.2	.	.	13	Artesunate +amodiaquine	Nil	Pulmonary tuberculosis
42	>=15yr	F	HP	<i>P. vivax</i>	4.1	.	.	6	IV artesunate / DHA+PIP	High dose	Trichomoniasis
											Ischaemic cardiomyopathy
											Urinary tract infection
											Bronchitis
43	>=15yr	F	NP	<i>P. vivax</i>	6.3	.	.	13	IV artesunate / DHA+PIP	Low dose	HIV
											Tuberculosis
											Urinary tract infection
44	>=15yr	M	HP	<i>P. vivax</i>	.	14.8	19	25	DHA+PIP	High dose	Chronic bronchitis
											COPD
											Pneumonia
45	>=15yr	M	HP	<i>P. vivax</i>	11.5	.	.	6	IV artesunate / DHA+PIP	High dose	Meningitis
											Urinary tract infection
46	>=15yr	M	HP	<i>P. vivax</i>	3.9	.	.	5	IV artesunate / DHA+PIP	High dose	Postprocedural disorder of the nervous system not further specified

47	>=15yr	M	HP	<i>P. vivax</i>	.	8.4	12	16	DHA+PIP	High dose	Tuberculous meningitis
48	1-5yr	M	LP	<i>P. vivax</i>	.	7.2	7	7	DHA+PIP	Low dose	Marasmus
											Suspected tuberculosis
											Septicaemia
49	>=15yr	M	HP	Mixed species	12	.	.	6	IV artesunate / DHA+PIP	Nil	Primary cardiomyopathy
											Acute renal failure
											Bronchitis
50	5-15yr	F	NP	<i>P. vivax</i>	2.1	.	.	8	IV artesunate / DHA+PIP	Nil	Unattended death
51	>=15yr	F	NP	Mixed species	13.7	.	.	8	IV artesunate / DHA+PIP	High dose	-
52	1-5yr	M	HP	<i>P. vivax</i>	.	10.9	7	16	IV artesunate / DHA+PIP	Nil	Pulmonary tuberculosis
											Emphysema
											Measles
53	>=15yr	F	HP	<i>P. vivax</i>	8.7	.	.	17	IV artesunate / DHA+PIP	High dose	Essential hypertension
											Tuberculous peritonitis
											Unattended death
54	>=15yr	M	HP	<i>P. vivax</i>	8.9	.	.	10	DHA+PIP	Low dose	Stroke
											Bronchopneumonia
55	>=15yr	F	HP	<i>P. vivax</i>	2.6	.	.	4	IV artesunate	High dose	Septic shock
											Acute renal failure with tubular necrosis
											Chronic renal failure
56	1-5yr	F	HP	<i>P. vivax</i>	9.6	.	.	8	IV artesunate / DHA+PIP	Nil	Tuberculous meningitis
57	1-5yr	M	HP	<i>P. vivax</i>	.	9.4	10	14	DHA+PIP	Nil	Gastroenteritis
											Dehydration
											Pneumonitis due to food and vomit



68	>=15yr	M	NP	<i>P. vivax</i>	13.2	.	.	7	IV artesunate	Nil	Nontraumatic intracranial haemorrhage
69	>=15yr	M	HP	<i>P. vivax</i>	11.2	12.4	4	7	DHA+PIP	High dose	Common cold
											HIV
											Candidiasis
											Tuberculous meningitis
											Acute tubulo-interstitial nephritis
70	5-15yr	M	HP	Mixed species	.	3.3	21	26	DHA+PIP	Low dose	Suspected tuberculosis
71	5-15yr	F	HP	<i>P. vivax</i>	11.8	9.4	7	18	DHA+PIP	High dose	Pulmonary tuberculosis
											Constipation
											Acute pharyngitis
											Bacterial meningitis
72	>=15yr	M	HP	Mixed species	.	8.6	23	23	DHA+PIP	Low dose	-
73	>=15yr	F	HP	Mixed species	6.3	.	.	3	IV artesunate / DHA+PIP	High dose	Dehydration
											Lobar pneumonia
											Hypovolaemic shock
74	>=15yr	M	HP	Mixed species	8.2	.	.	9	IV artesunate / DHA+PIP	High dose	Ventral hernia without obstruction or gangrene
											Septic shock
75	>=15yr	M	NP	<i>P. vivax</i>	.	.	.	4	IV artesunate / DHA+PIP	Nil	Essential hypertension

**Abbreviations:** M=male, F=female, HP=Highland Papuan, LP=Lowland Papuan, NP= Non=Papuan, PQ=Primaquine, IV=intravenous, DHA+PIP= dihydroartemisinin-piperazine