

## Supplementary Appendix

This appendix has been provided by the authors to give readers additional information about their work.

Supplement to: Noedl H, Se Y, Schaecher K, Smith BL, Socheat D, Fukuda MM. Evidence of artemisinin-resistant malaria in western Cambodia. *N Engl J Med* 2008;359:2619-20. DOI: 10.1056/NEJMc0805011.

Web-only Table. Day 0 DHA Concentrations, Intrinsic Drug Sensitivity, and Treatment Response Parameters for the 4 Patients who Failed Artesunate Monotherapy

	DHA Conc. (nM)		IC <sub>50</sub> (nM)		Pfmdr1 copy no	Treatment response (hrs)	
	1.5 h	2.5 h	DHA	MQ	Pfmdr1	PCT	FCT
Overall	4,268	2953	3.34	16.55	1.1	57.6	10.0
	±2,418	±1989	(2.2 – 4.5)	(12.3 – 22.2)	(0.5 – 4.0)	(37.9 – 82.0)	(0.0 – 33.2)
Failed Case 1	3988	1639	14.42	10.43	1	133.25	24.25
Failed Case 2	4001	1996	14.00	80.33	1	95.17	28.17
Failed Case 3	1257	210	4.64	6.38	1	76.33	0.00
Failed Case 4	335	685	4.08	11.12	1	100.03	29.03

DHA concentrations ( $\pm$  standard deviation, n = 70); IC<sub>50</sub> = 50% inhibitory concentrations (geometric mean with 95% confidence intervals); DHA = dihydroartemisinin; MQ = mefloquine; PCT = parasite clearance time (median with interquartile range; artesunate arm only); FCT = fever clearance time (median with interquartile range; artesunate arm only)