

**Table S3. Parameters used in simulation presented in Figure 7A\***

<b>Parameter</b>	<b>Value</b>	<b>Comments</b>
<u><i>DHA Pharmacokinetic Parameters</i></u>		
$C_{max}$	2820 nM	Maximum <i>in vivo</i> concentration
Time to $C_{max}$	1 h	Time to reach $C_{max}$ (linear)
Elimination half-life	51 min	
<u><i>Initial Parasite Age Distribution</i></u>		
$\mu_{age}$	7 h	Average parasite age
$\sigma_{age}$	7 h	Standard deviation of age distribution
<u><i>Age Distribution Broadening</i></u>		
$\sigma_{broad}$	3 h	Standard deviation per 24 h period
<u><i>Parasite Replication</i></u>		
Amplification	10 per cycle	
<u><i>Sequestration Parameters</i></u>		
$a_b$	15 h	Parasite age at which sequestration begins
$a_{50}$	18 h	Parasite age at which 50% are sequestered
<u><i>Growth Retardation Parameters</i></u>		
Growth delay	6 h	
Time over which delay occurs	12 h	

\* See S1 Appendix for detailed description of parameters