**Additional file 2**

**Figure S1.** A comparison of 500 mg quinine IV infusion over 4 hours in African healthy adults between predicted result and published data [1].



**Figure S2.** A comparison of 10 mg kg-1 body weight quinine IV infusion over 4 hours in adult Thai patients with cerebral malaria between predicted result and published data [2].

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**Figure S3.** A comparison of 4 mg kg-1 body weight quinine IV infusion over 4 hours in adult Thai patients with severe malaria between predicted result and published data [3].



**Figure S4.** A comparison of loading dose of 20 mg kg-1 body weight quinine IV infusion over 4 hours, followed by 10 mg kg-1 body weight IV infusion over 4 hours given 3 times daily in adult Thai patients with cerebral malaria between predicted result and published data [4].

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**Figure S5** A comparison of 10 mg kg-1 body weight IV infusion over 4 hours given 3 times daily in adult Thai patients with cerebral malaria between predicted result and published data [4].



**Figure S6** A comparison of 5 mg kg-1 body weight IV infusion over 4 hours given 3 times daily in adult Thai patients with cerebral malaria between predicted result and published data [4].



**Figure S7** A comparison of 2.6 mg kg-1 (218 mg) phenobarbital IV infusion over 6 minutes given in healthy male subjects between predicted result and published data [5].



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