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In vitro effect of current antimalarial drugs on the su *Schistosoma mansoni* adult worms and their egg pro

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Abstract: Some field trials have already demonstrated the high ant of combination therapies using Artesunate (ART) and current antima *et al.*, 2007; Mohamed *et al.*, 2009; Sissoko *et al.*, 2009). The ant these drugs are noteworthy, especially when they are used for the tr schistosomiasis endemic areas. However, the antischistosomal effec (AQ), Primaquine (PQ), Chloroquine (CQ) and Pyrimethamine (Py assessed by *in vitro* incubation. The objective of the present study effects of current antimalarial drugs on the egg productivity of adult *mansoni* and their survival times. The effect of the current antimalar (MQ), quinine (QN), AQ, PQ, CQ, Sulfadiazine (Sf) and Py on the

worm pairs of *Schistosoma mansoni* and their survival times during assessed at a concentration of 10 Mg/ml. AQ, PQ, CQ and Py signi daily egg output of paired female worms at a concentration of 10 M day *in vitro* cultivation. However, QN and Sf did not significantly a during the 8-day incubation. One-day exposure to MQ killed all pai adult worms. AQ and PQ significantly decreased the survival of bot female worms during the 14-day incubation, but QN, CQ, Py and S similar effect. The present result is consistent with an assessment of effects of artemisinin-based combination therapy in malaria and schi areas.

Key words: antischistosomal drugs, antimalarial drugs, Schistoson quinine, amodiaquine, primaquine, chloroquine, pyrimethamine, sulf

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