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**Abstract**

**Ethnopharmacological relevance**

*Holotrichia diomphalia* larvae are one classical folk medicinal material in East Asia which has clinically been used to promote blood circulation and dispel blood stasis for several hundred years.

**Aim of the study**

The anticoagulant activity of crude extract of *H. diomphalia* larvae (CEHDL) *in vitro* and *in vivo* was evaluated to explore its mechanism as antithrombotic medicine.

**Materials and methods**

The effects of CEHDL on plasma recalcification time, platelet aggregation, bleeding time, hydrolysis of fibrinogen and fibrin were measured with normal human plasma, plasma-rich platelet, transected mouse tails and bovine fibrinogen; the anti-thrombosis activities of CEHDL *in vitro* and *in vivo* were analyzed with clots lysis assay and carrageenan-induced mouse tail thrombosis model.