



## Experimental research of jaundice relieving and enzyme reduction by Chinese medicine compound oriental wormwood injection on toxic injury of liver in rats

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### Abstract

**AIM:** To observe the effects of jaundice relieving and enzyme reduction by Chinese Medicine compound oriental wormwood injection (COWI) on toxic injury of liver in rats.

**METHODS:** The toxic liver injury models of rats were induced by intragastric perfusion of  $\alpha$ -naphthalin-isothiocyanateyl (75 mg/kg·wk). Then models of rats were treated with COWI of three different doses (5 mL/kg·d, 10 mL/kg·d, 15mL/kg·d, respectively) sc.

COWI consisted of oriental wormwood, capejasmine, coptis, gentian, scutellaria and rhubarb. COWI originally has the effects of heat-clearing, detoxication, purging of fire and elimination of dampness. Serum alinine aminotransferase (SALT) and serum total bilirubin (STBIL) were measured at 24 h, 48 h, 72 h respectively after treatment with COWI on toxic injury of liver in rats.

**RESULTS:** Average levels of SALT and STBIL of treatment groups of three different doses were significantly lower compared with control groups ( $P < 0.05$ ). The group treated with a dose of 15 mL/kg·d for 72 h achieved the best result comparably.

**CONCLUSION:** (1) The results demonstrate that COWI have effects of relieving jaundice and reducing SALT. (2) COWI is a treatment of choice for acute icteric hepatitis.

**Key words:** Hepatitis, toxic/therapy; Compound oriental wormwood injection; Disease models; Animal

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