

## The Evaluation of Antioxidant and Cytochrome of Traditional Chinese Herb - Modified Chi-Hu-Shu-Gan Powder in Chronic Liver Injury in Rats

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**ABSTRACT** Traditional Chinese herbal medicine has been a spotlight of research interests in recent years. In this study, we evaluate the antioxidative and detoxificative activity of modified Chi-Hu-Shu-Gan ( M-CHSG ) powder in Sprague-Dawley rats with chronic liver injury which were induced by 50 % carbon tetrachloride ( 2 mL/kg ). The results showed that the treatment with high dose M-CHSG significantly decreased the serum levels of AST and ALT, and markedly increased the activity of CAT, GST and CYP 2E1 in liver which were compared with the CCl<sub>4</sub> group ( P < 0.05 ). We suggested that the M-CHSG had the detoxificative and hepatoprotective effects by modulating the detoxification system ( CYP450, GST ) and enhancing the activities of some antioxidant enzymes ( CAT ) which alleviated the liver damage caused by CCl<sub>4</sub>, also shown by lower liver function index ( AST, ALT ). [Lee SH, Wu LY, Hsu HP, Tzeng HF, Cheng CC, Shy W, Chiu YT. The evaluation of Antioxidant and Cytochrome of traditional chinese herb- modified Chi-Hu-Shu-Gan powder in chronic liver injury in rats. Taiwan Vet J 32(3): 186-194, 2006. \*Corresponding author TEL:886-4-2359 2525 ext 4060, FAX: 886-4-2359 2705, E-mail: ytchiu@vghtc.gov.tw]

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