



## Effect of faeces trogopterorum extract B<sub>1</sub> on the experimental gastric ulcer and gastric secretion in rats

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### Abstract

**AIM:** To study the effects of extracts B<sub>1</sub>, B<sub>2</sub>, and B<sub>3</sub> from faeces trogopterorum on the experimental gastric ulcer in rats.

**METHODS:** Two different animal models of gastric ulcers were used in this experiment: Shay's model ( $n = 72$ ) and the reserpine-induced ulcer model ( $n = 76$ ). The total volume and the pH of the gastric juices were recorded. The lesion scores of gastric mucosa were also recorded.

**RESULTS:** The lesion scores of gastric mucosa in the Shay's model

of animals in the WLZ-B<sub>1</sub> groups treated with either 40 g/kg or 80 g/kg were  $8.6 \pm 10.8$  and  $1.6 \pm 1.9$  respectively, which were lower than that of the 0.9% NaCl control group ( $47.0 \pm 31.4$ ,  $P < 0.05$ ,  $P < 0.01$ ). The lesion scores for the 80 g/kg group was lower compared to those of the Ran group ( $20.5 \pm 16.4$ ,  $P < 0.01$ ). The pH of the gastric juices of the 80 g/kg group ( $3.425 \pm 0.143$ ) was higher than that of the 0.9% NaCl group ( $2.836 \pm 0.632$ ,  $P < 0.05$ ). In the reserpine model, the lesion score of the 40 g/kg group of the WLZ-B<sub>1</sub> ( $20.7 \pm 16.5$ ) was also lower than that of the 0.9% NaCl control group ( $76.3 \pm 50.6$ ,  $P < 0.05$ ).

**CONCLUSION:** B<sub>1</sub> is the most effective of the three sections in inhibiting gastric secretion, protecting gastric mucosa and preventing experimental ulceration.

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**Key words:** Faeces trogopterori/pharmacology; Gastric mucosa/drug effects; Stomach ulcer/prevention and control

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