Effect of different extraction parts of galangal on experimental gastric ulcer

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View from specialist: It is creative, and of certain scientific and educational value.

[ABSTRACT] Objective: To discuss effect of different extraction parts of galangal on experimental gastric ulcer. Methods: Different parts of galangal were extracted and separated. Gastric ulcer in mice was induced by ethanol and aspirin. The effect of different extraction parts of galangal on gastric ulcer index, stomach tissue pathological slices, plasma gastrin-releasing (GAS), interleukin 1 (IL - 1) and cyclooxygenase 2 (COX-2), tumor necrosis factor (TNF alpha), prostaglandin E2 (PGE2) were observed. Results: Compared with model group, water extract and 80% ethanol elution could significantly reduce the gastric ulcer index, significantly reduce plasma GAS, IL-1, and concentration of TNF alpha. They could also significantly elevated plasma COX-2, concentration of PGE2. 30% ethanol elution content, 95% ethanol elution content had no significant effect on ulcer index, but they could regulate GAS plasma, IL-1, the concentration of PGE2. Conclusions: Water extract, 80% ethanol elution of galangal content has good resistance effect on gastric ulcer probably by reducing the plasma GAS, IL-1, the concentration of TNF alpha, raising levels of serum COX-2, PGE2.

[KEY WORDS] Galangale; Gastric ulcer; Gastrin; Tumor necrosis factor α; Mice