



## Study on gastric motility and gastrin, somatostatin epidermal growth factor with peptic ulcer disease before and after healing

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### Abstract

**AIM:** To investigate relationship between gastric motility and serum gastrin (GAS), somatostatin (SS), epidermal growth factor (EGF), motilin (MOT) levels of peptic ulcer disease before and after treatment.

**METHODS:** 42 patients with peptic ulcer and 24 patients with chronic superficial gastritis were studied. All patients were diagnosed with endoscopy. *Hp* was determined by radioimmunoassay. Among them, 19 patients were examined by electrogastrography (EGG).

**RESULTS:** The healing rate of DU was 86.1% after 4 wk treatment, the eradication rate of *Hp* was 88.8%. The levels of GAS, SS, EGF and MOT before treatment were significantly different from those after treatment. MOT is parallel with motility in DU. Increase of high frequency wave and mixture wave indicated that motility of stomach was increased. After healed, some hormone levels reduced to normal, while MOT and motility still abnormal. This indicated further treatment or observation were necessary.

**CONCLUSION:** Pathology of DU was related to not only the abnormal secretion and regulation of gut hormones, but also abnormal gastric motility. Before healing of DU the levels of GAS and MOT were higher, while SS, EGF were lower than those after healing of DU.

**Key words:** Gastric motility; Gastrin; Somatostatin; Epidermal growth factor; Peptic ulcer disease

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