



## Relationship between the clinical types of functional dyspepsia and gastric motility

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### Abstract

**AIM:** The functional dyspepsia (FD) was divided into different groups according to different clinic symptoms. In an attempt to explore other pathologic mechanism except of motility disorder, we studied the gastric motility change of these clinic symptom groups.

**METHODS:** 82 healthy subjects were studied as control, the half gastric emptying time ( $T_{1/2}$ ) of all the patients and control subjects were measured by magnetogastrogram.

**RESULTS:** The  $T_{1/2}$  ( $\bar{x} \pm SD$ ) of FD patients was  $88.6 \pm 37.6$  min,

it showed a significant delay as compared with the controls that was  $51.79 \pm 21.46$  min ( $P < 0.01$ ). The gastric emptying delayed patients of FD patients accounted for 60.4%. This conclusion is same compared with the methods of other articles about FD. In 588 FD patients of this report, we present 24 cases of reflux type (4.1%), 355 cases of motion disorder type (60.4%), 144 cases of ulcer type (24.5%), 10 cases of swallow gas type (1.7%), 55 cases specific type (9.4%). The  $T_{1/2}$  of all types were different: reflux type ( $105.2 \pm 39.5$ ), motion type ( $91.06 \pm 38.5$  min), ulcer symptoms type ( $81.7 \pm 32.4$  min), swallow gas type ( $96.2 \pm 33.5$  min), specific type ( $82.78 \pm 38.9$  min), the reflux type and motion type were compared with ulcer type separately, the results showed significant difference.

**CONCLUSION:** We suggest that maybe exist other cause and mechanism about pathologic mechanism of FD except of gastric emptying function abnormality of different level.

**Key words:** Functional dyspepsia; Gastric emptying; Magnetogastrogram

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