

Relationship between plasma motilin and electrogastrointestinal gram in patients with chronic gastritis

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Abstract

AIM: To study the relationship between fasting plasma motilin gastrointestinal electric activity and gastrointestinal motility.

METHODS: The 45 cases of chronic gastritis were diagnosed by gastroscopy. Fasting plasma motilin (normal 326 ± 58 ng/L) were determined by radioimmunoassay (RIA) and fasting electrogastrointestinal gram were recorded.

RESULTS: The level of plasma motilin in 45 cases of chronic gastritis

was 24.55-539.51 ng/L. Average was 201.81 ± 100.86 ng/L. The level of plasma motilin of 7 cases (15.56%) was normal, in 36 cases (80%) it was obvious low, and in 2 cases (4.44%) it was high. The frequency of electrogastrogram of 16 cases (35.56%) was normal. In them, 12 cases (26.67%) had bradygastria, 7 cases (15.56%) had tachygastria and 10 cases (22.22%) had arrhythmia. Amplitude and average area of electrogastrointestinal gram were lower than normal.

CONCLUSION: The changes of clinical symptoms, fasting plasma motilin and electrogastrointestinal gram are correspondent to each other. The motilin concordant with function of gastrointestinal motility. Intensity of gastrointestinal electric activity is directly affected by concentration of motilin.

Key words: Motilin; Electrogastrointestinal gram

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