



## Discussion about 130 cases of digestive tract diseases diagnosis by EGG analyzer

Ping Li, Xia Wu, Feng Li, Gui-Xiang Liu

Ping Li, Xia Wu, Feng Li, Gui-Xiang Liu, The 17<sup>th</sup> Hospital, Ministry of Metallurgical Industry

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### Abstract

**AIM:** Electrogastroenteric analyzer is a noninvasive technique for electrophysiology which is related to the motility of digestive tract. This paper reported 130 cases and discussed the diagnostic value for upper digestive tract by means of electrogastrograph.

**METHODS:** 130 out patients, male 74, female 56. mean age 49 (range from 6-92). WCDF electrogastroenteric analyzer was used.

**RESULTS:** (1) 105 of 130 patients were accompanied by abnormal gastric motility, both in ulcer and nonulcer dyspepsia. (2) Bradygastria is related to excessive contraction or weakened motion of gastric antrum, clinic symptom was dominated by abdomen flatulence, which was about 79%. Tachygastria was caused by decreased gastric motility and was related to nausea or vomit, this

accounted for about 85%. Reflux or heartburn were related to non coordination of gastric motion and were about 90%. (3) Compared with gastroscopy, GI test, the EGG coincidence rate was over 86%. (4) Some severe patients underwent the test with gastroscopy, GI, or CT scan, but did not find abnormality. However, they were found to be abnormal in gastric motion by means of the electroenteric analyzer. After proper therapy, it was improved. 12 other cases of gastric ulcer were undergone the therapy of diminishing inflammation, sterilizing, acid inhibition and improving gastric motility, after 4 wk, the ulcer healed when checked with gastroscopy; Meanwhile, its EGG reexamination showed that abnormal wave forms disappeared and quantitative parameters returned to normal range.

**CONCLUSION:** The research show that advantages of EGG analyzer are noninvasive, no cross infection, painless and acceptable for patients. The analyzer has certain value in examining functional diseases of digestive tract and monitoring the usage of drugs; In addition, it can be used as a screening method for diagnosing organic diseases in digestive tract.

**Key words:** Digestive tract diseases; EGG analyzer

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