



## Analysis of the waves and parameters of EGG critical points of recognizing EGG

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### Abstract

**AIM:** To study the significance in the analysis on electrogastragram (EGG) of the inherent relationship and related parameter of wave form of clinic EGG (frequency and amplitude of wave form, rhythm of wave form-dispersing degree, comparison of pre and post prandial, *i.e.* power rate, special wave form), we collected 3650 cases of EGG recorded in 1993 through 1995. We attempt to explore a simple method of recognizing quickly EGG through analysis wave form and parameter of clinic EGG.

**METHODS:** (1) General data. Collect 3650 cases of EGG, male 2300 cases, female 1350 cases, age ranging from 16 to 70 years. (2) Examining method. Stop taking medicine for 2 d before examining,

and EGG is tested on empty stomach in 8:00 to 11:00 a.m. Adapted EGG-2D2 type and EGG-5D2 type are the products of institute of Hefei Science Apparatus. EGG are recorded at gastric antrum and corpus in 5 to 10 min. Pre and post prandial (standard up meal: bread 50 g).

**RESULTS:** In 3650 cases of EGG, 18 cases with atrophic gastritis, 97 cases with ulcer activities, 65 cases with duodenal bulb inflammation, 32 cases with gastric cancer, 75 cases with hyper acid syndrome, 178 cases with ailment in stomach (including: the syndrome of stomach rhythmic disorder, bradygastria, tachygastria) are diagnosed.

**CONCLUSION:** We analyzed 3650 cases on clinic EGG and confirmed that critical parameters show valuable in judging EGG such as mentioned above. Classifying graphs (low frequency and high amplitude type, high frequency and amplitude type, high frequency and low amplitude type and gastric disorder type) largely promote the ability of recognizing clinic EGG, especially play an important part in the identifying relative graphs.

**Key words:** Weaves and parameters; Electrogastragram

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