

New investigation on wave from of electrogastrography

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Abstract

METHODS: Forty two cases of patients suffering from bile-inducing gastritis, which were all diagnosed by X-ray or gastroscope, were examined by EGG through the method of both synthetical and segmental analysis. Some new indexes of EGG were used for the description of wave form. They were the difference of gastric phase (Dp), the rate of negative Dp, the area of frequency change and the difference of frequency and amplitude (ΔF , ΔA) of antrum pyloricum (AP) and corpus ventriculi (CV) or after and before meal in same part of stomach *et al.*

RESULTS: (1) The standard errors of Dp was from 3. to 4.7, which

means Dp had a great separate degree; (2) The rate of negative Dp was from 0.225 to 0.420, which indicated the reverse gastroelectric activity occupying a large proportion. (3) The ΔA between AP and CV and ΔA after and before had significant changes; (4) Fourty of 42 cases were divided into two syndromes of TCM: incoordination between liver and spleen-24 cases (57.1%) and depression of liver and deficiency of spleen-16 cases (38.1%); and (5) The analysis of new EGG indexes based on a conception of wholism of digestive system, which was similar to the view point of traditional Chinese medicine.

CONCLUSION: It is useful to make "synthetical" and "segmental" analysis for the wave form of EGG by the introduction of some new indexes. On the basis of this method, the physiological and pathological significance of EGG's wave form might be understood more deeply and it provided a effective method for the diagnosis and treatment of digestive diseases in the clinic of western or traditional Chinese medicine.

Key words: Investigation; Wave form; Electrogastrography

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