



Experimental study of estimating effect of Chinese drugs and acupuncture by electrogastrogram

Tai-Lai Weng, Xian-Qun Lu, Lei-Fen Lu, Hui-Zhen Fei

Tai-Lai Weng, Xian-Qun Lu, Lei-Fen Lu, Hui-Zhen Fei, Institute of Traditional Chinese Medicine, Guangxi College of TCM 530001, China

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Abstract

AIM: In this article we investigated the feasibility and reliability of estimating effects of acupuncture and Chinese drugs with a responsive indication-electrogastrogram (indication-EGG).

RESULTS: The following results were obtained (1) 17 patients after needling Zusanli (ST36) point with even reinforcing and even reducing method, the amplitude of EGG as increased from $60.92 \pm 9.08 \mu\text{V}$ to $319.12 \pm 58.47 \mu\text{V}$, $P < 0.001$) and the amplitude decreased after stopping the acupuncture. (2) The acupuncture effect at different points: After needling for 20 min at Zusanli point of stomach meridian, the amplitude of EGG was excited or inhibited $P < 0.05-0.001$, in 35 patients. After needling for 20 min at Yinlingquan (SP9) point of spleen meridian, the amplitude of EGG the biphasic changes in 18 patients. (3) To estimate the effect of herbs with EGG: "Qing Hao Su" (Sodium Artesunate) had an apparent effect

in treating Malaria, the effect of Qing Hao Su on electrical gastric activity (EGA) of dog stomach had been studied by EGG. When the dose of Qing Hao Su was accumulated 160 mg by *i.v.* injection, the amplitude of EGG was increased from $160.50 \mu\text{V}$ to $641.30 \mu\text{V}$. When the dose was added up to 320 mg by *i.v.* injection the body temperature (T), blood pressure (BP), respiration (R), EGG, electrocardiogram (ECG) gradually decreased. When the dose was added up to 640 mg above 5 index of dog were all depressed. We have studied the effect of Siwu tang decoction on EGG in rabbits. The results indicated that in the stomach perfusion with Siwu decoction of 10 mL, the amplitude of EGG was increased, after perfusion for 20-30 min, the amplitude of EGG was increased from $1086.30 \mu\text{V}$ to $1722.20 \mu\text{V}$. After perfusion for 90 min, the amplitude of EGG was maintained at a high level ($1449.50 \mu\text{V}$).

CONCLUSION: The results indicated that acupuncture at different. Point had different points had different effects, one of the key points in acupuncture was to obtain the needling sensation (got Qi), and to transfer Qi to the lesions. Effect of FA on gastrointestinal tract was mainly local, the gastric electricity provided an objective basis for traditional Chinese spleen stomach theory.

Key words: Chinese drugs, acupuncture; Electrogastrogram

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