



## Diagnostic value of electrogastrogram in case of biliary disease as sociated with biliary motility disorders

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### Abstract

**AIM:** To evaluate the diagnostic value of electrogastrogram (EGG) in biliary disease with biliary motility disorders.

**METHODS:** EGG was recorded on body surface over the area of antrum during the cholecystic empty movement by scintigraphy with  $^{99m}\text{Tc}$ -EHIDA in 56 subjects, divided into 3 groups: Group 1 consisted of 26 cases of biliary disease with biliary motility disorders proved by cholecystic scintigraphy, including 12 cases of cholelithiasis, 9 cases of chronic cholecystitis, 2 cases of cholecystic polyposis, and 3 cases of biliary dyskinesia syndrome. Group 2 consisted of 15 cases of biliary disease with normal biliary empty function, which was also proved by cholecystic scintigraphy, including 7 cases of cholelithiasis

and 8 cases of chronic cholecystitis. Group 3 consisted of 15 normal controls. The activity indexes of EGG were used as parameters for comparative analysis between the 3 groups.

**RESULTS:** The results showed that the activity indexes of EGG in group 1 were obviously abnormal compared with the normal controls. According to the activity indexes of EGG the patients could be classified into subgroups, the hypoindexes and the hyperindexes (the activity index was  $219 \pm 112$  vs  $758 \pm 139$ ,  $P < 0.01$ ;  $1168 \pm 674$  vs  $758 \pm 139$ , respectively,  $P < 0.01$ ). Whereas the activity indexes of EGG in group 2 had no significant difference from the normal controls.

**CONCLUSION:** EGG can be used as a valuable reference index in clinical evaluation of the condition of biliary motility in biliary disease patients, especially in diagnosing biliary functional dyskinesia syndrome.

**Key words:** Electrogastrogram; Biliary motility; Diagnose

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