



Functionship of electrogastrogram in the diagnosis of GI diseases in children

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Author contributions: All authors contributed equally to the work.

Original title: *China National Journal of New Gastroenterology* (1995-1997) renamed *World Journal of Gastroenterology* (1998-).

Received: December 11, 1995

Revised: January 31, 1996

Accepted: March 1, 1996

Published online: September 15, 1996

Abstract

AIM: To investigate the function of electrogastrogram in the diagnosis of GI diseases in children (EGG).

METHODS: 155 cases of children electrogastrogram (EGG), 200 cases of children electroenterogram (EEG) were, compared with those of adults.

RESULTS: The electrogastrogram and electroenterogram of children were similar to those of adults, the frequency and amplitude of the

EGG were 2.73 ± 0.02 cpm and 147.16 ± 4.37 μ V, respectively, the frequency and amplitude of EEG were 2.93 ± 0.04 cpm, and 244.49 ± 11.57 μ V, respectively. In children enjoying sweet food, of abdominal pain and reflux, the frequency of EGG increased to 3.03 ± 0.04 cpm, its amplitude increased to 314.82 ± 6.57 μ V ($P < 0.01$ compared to normal control), while in children of anorexia vomiting, the EGG frequency and amplitude reduced to 2.53 ± 0.08 cpm and 75.5 ± 6.19 μ V, respectively esp. Changes in 2 lead. In children of pain and constipation, frequency and amplitude of EEG reduced obviously, to 2.65 ± 0.06 cpm and 109.05 ± 9.71 μ V, the changes in 2 and 4 lead were more prominent.

CONCLUSION: EGG and EEG are easy to operate, noninvasive, no pain, and easy to be accepted by patients. Further research on them has practical value.

Key words: Electrogastrogram; Electroenterogram; Children

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Zhang J, Chen D, Gao HY. Functionship of electrogastrogram in the diagnosis of GI diseases in children. *World J Gastroenterol* 1996; 2(Suppl1): 97 Available from: URL: <http://www.wjgnet.com/1007-9327/full/v2/iSuppl1/97.htm> DOI: <http://dx.doi.org/10.3748/wjg.v2.iSuppl1.97>

E- Editor: Liu WX



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