



Observation on the diagnosis value of 4-lead electrogastrogram to gastric cancer

Liang-Cai Qin, Li-Ping Chen, Dao-Zhi Chen

Liang-Cai Qin, Li-Ping Chen, Dao-Zhi Chen, Chengdu Municipal No.1 People's Hospital, Chengdu, Sichuan Province, China

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: October 11, 1995

Revised: January 31, 1996

Accepted: July 1, 1996

Published online: September 15, 1996

Abstract

AIM: To study 4-lead electrogastrogram's diagnosis value for gastric cancer patient, we observe its sensitivity, specificity and accuracy and compare it with barium meal X-ray film.

METHODS: According to clinic epidemiology, we took gastroscopy and pathobiology test as gold standards, and observed surface body electrogastrogram in 203 patients with gastric disease through double blind comparison, 89 cases were gastric cancer, 83 gastric ulcer, 31 chronic gastritis. We choose randomly 50 patients and took double blind comparison between barium meal X-ray film and electrogastrogram test. Barium meal X-ray film of every patient had more than 4 films.

RESULTS: (1) Repeated test for abnormal electrogastric wave of gastric cancer patient: We take the result of 4 lead electrogastrogram of gastric cancer patient as control group. Of 203 patients, 69 cases, 32 cases and 7 cases showed the abnormal electrogastric waves in gastric cancer patients, gastric ulcer patients and chronic gastritis respectively. The sensitivity, specificity, and accuracy in gastric cancer patients was 77.53%, 65.79%, and 70.94%, respectively. (2) In 50 patients double blind comparison between barium meal X-ray film and electrogastrogram test, the sensitivity of electrogastrogram test was higher than barium meal X-ray film, the specificity was lower than barium meal X-ray film, but had no significant difference, accuracy of both tests was close.

CONCLUSION: Electrogastrogram diagnosis in gastric cancer patient had good sensitivity, specificity and accuracy. As a simple method, the electrogastrogram had significant diagnostic value in patient with progressive gastric cancer.

Key words: Electrogastrogram; Gastric cancer; Diagnosis

© **The Author(s) 1996.** Published by Baishideng Publishing Group Inc. All rights reserved.

Qin LC, Chen LP, Chen DZ. Observation on the diagnosis value of 4-lead electrogastrogram to gastric cancer. *World J Gastroenterol* 1996; 2(Suppl1): 67
Available from: URL: <http://www.wjgnet.com/1007-9327/full/v2/iSuppl1/67.htm>
DOI: <http://dx.doi.org/10.3748/wjg.v2.iSuppl1.67>

E- Editor: Liu WX



Published by **Baishideng Publishing Group Inc**
8226 Regency Drive, Pleasanton, CA 94588, USA
Telephone: +1-925-223-8242
Fax: +1-925-223-8243
E-mail: bpgoffice@wjgnet.com
Help Desk: <http://www.wjgnet.com/esps/helpdesk.aspx>
<http://www.wjgnet.com>

