

## Study on fasting gastric electrical activity among patients with portal hypertension

Xiao-Hua Jiang, Yun-Lin Wu, Jia-Yu Xu

Xiao-Hua Jiang, Yun-Lin Wu, Jia-Yu Xu, Department of Gastroenterology, Ruijin Hospital, Shanghai 2<sup>nd</sup> Medical University, Shanghai, 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: December 11, 1995

Revised: March 21, 1996

Accepted: May 19, 1996

Published online: September 15, 1996

### Abstract

**AIM:** To study the fasting gastric electrical activity in patients with portal hypertension.

**METHODS:** Fasting gastric electrical activity was recorded and measured in 35 cases of cirrhotic with portal hypertension and compared with that in 20 healthy individuals using EGG. Measurements included: predominant frequency (PF), zero frequency (ZF) and percentage of gastric electrical arrhythmia.

**RESULTS:** Percentage of gastric electrical disturbance was much

higher in cirrhotics than that of normals. The values of PF were 57% and 49%, that of ZF were 40% and 57%. The percentage of this abnormality was significantly higher among those patients with symptoms of gastric motility disturbance. The values of PF were 68% and 64% versus 38% and 23%, that of ZF were 45% and 59% versus 31% and 46%. In accordance with Childs classification, the respective percentage of gastric electrical disturbance recorded from gastric antrum in Child A were 33% and 17% in Child B were 53% and 35%, all Child C patients had this abnormality.

**CONCLUSION:** The present study suggested that the percentage of gastric electrical disturbance was much higher in cirrhotics than that of normals. This abnormality might explain the dyspeptic symptoms of the cirrhotics. Furthermore, gastric electrical disturbances were also related to liver dysfunction as illustrated in this study.

**Key words:** Liver dysfunction; Cirrhosis; Gastric electrical disturbance

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

Jiang XH, Wu YL, Xu JY. Study on fasting gastric electrical activity among patients with portal hypertension. *World J Gastroenterol* 1996; 2(Suppl1): 191 Available from: URL: <http://www.wjgnet.com/1007-9327/full/v2/iSuppl1/191.htm> DOI: <http://dx.doi.org/10.3748/wjg.v2.iSuppl1.191>

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](mailto:bpgoffice@wjgnet.com)  
Help Desk: <http://www.wjgnet.com/esps/helpdesk.aspx>  
<http://www.wjgnet.com>

