



Correlation of esophageal manometry and 24-h ambulatory pH motoring with endoscopic and histological changes in patients with gastroesophageal reflux disease

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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: November 11, 1995

Revised: February 21, 1996

Accepted: May 19, 1996

Published online: September 15, 1996

Abstract

AIM: To examine the severity of reflux esophagitis and any possible correlation of endoscopic and histological findings with esophageal manometry and 24-h ambulatory pH monitoring.

METHODS: 100 patients with GERD were examined. The results were compared with those of 30 healthy controls. In all patients the endoscopy was performed and the esophageal mucosa biopsies

was taken. Esophageal manometry was recorded by using a water perfused system.

RESULTS: The severity of esophagitis, determined by both endoscopy and histology, was significantly related to the amplitude of esophageal peristaltic waves, especially LES dysfunction ($P < 0.01$).

CONCLUSION: The severity of reflux esophagitis is related to the duration of reflux, and the severity of reflux is associated with impairment of the esophageal body motility and LES dysfunction.

Key words: Esophageal manometry; 24-h ambulatory ; PH-motoring; Histological changes; Gastroesophageal reflux disease

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Huang Y, Xie Y, Wang CW. Correlation of esophageal manometry and 24-h ambulatory pH motoring with endoscopic and histological changes in patients with gastroesophageal reflux disease. *World J Gastroenterol* 1996; 2(Suppl1): 175
Available from: URL: <http://www.wjgnet.com/1007-9327/full/v2/iSuppl1/175.htm>
DOI: <http://dx.doi.org/10.3748/wjg.v2.iSuppl1.175>

E- Editor: Liu WX



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