



Assessment of the clinical value of CK-M₂ and oligosaccharide protein in serum from patients with gastric carcinoma

Gui-Lan Zhao, Jie Lin, Shu-You Peng, Qi-Yun Li, Fan Zhou, Xian-Sheng Chen, Xin-You Xie, Yi-Xiong Zheng

Gui-Lan Zhao, Shu-You Peng, Qi-Yun Li, Fan Zhou, Xian-Sheng Chen, Yi-Xiong Zheng, Department of Surgery, the Second Affiliated Hospital, Medical College, Zhejiang University, Hangzhou 310009, Zhejiang Province, China

Jie Lin, Xin-You Xie, Department of Clinical Laboratory, Sir Run Run Shaw Hospital, Medical College, Zhejiang University, Hangzhou 310009, Zhejiang Province, China

Author contributions: All authors contributed equally to the work.

Correspondence to: Dr. Gui-Lan Zhao, Department of Surgery, the Second Affiliated Hospital, Medical College, Zhejiang University, Hangzhou 310009, Zhejiang Province, China. zhengyixiong@21cn.com
Telephone: +86-571-7783581

Received: July 22, 2000
Revised: August 10, 2000
Accepted: August 24, 2000
Published online: September 15, 2000

Abstract

AIM: To evaluate the clinical value of creatine kinase macro isoenzyme type 2 (CK-M₂) and oligosaccharide protein (OP) in serum from patients with gastric carcinoma (GC).

METHODS: Serum level of CK-M₂ was detected by agar gel

electrophoresis. OP concentration was measured by an enzyme immunoassay.

RESULTS: Serum levels of CK-M₂ and OP in 57 cases of GC were significantly higher than those in 51 cases with gastric precancerous lesion and 28 controls. The diagnostic sensitivity and specificity for GC with CK-M₂ was 56.10% and 98.63% respectively. CK-M₂ and OP were not associated with histologic type and degree of differentiation.

CONCLUSION: These results suggest that CK-M₂ may serve as a marker to diagnose GC, and the specificity is higher, whereas OP is not more significant for GC diagnosis, but it could be a useful indicator for evaluation the status of body immune.

Key words: Stomach neoplasms; Serodiagnosis; Oligosaccharides; Creatine kinase isoenzymes; Electrophoresis, Agar gel; Immunoenzyme techniques

© The Author(s) 2000. Published by Baishideng Publishing Group Inc. All rights reserved.

Zhao GL, Lin J, Peng SY, Li QY, Zhou F, Chen XS, Xie XY, Zheng YX. Assessment of the clinical value of CK-M₂ and oligosaccharide protein in serum from patients with gastric carcinoma. *World J Gastroenterol* 2000; 6(Suppl3): 150 Available from: URL: <http://www.wjgnet.com/1007-9327/full/v6/iSuppl3/150.htm> DOI: <http://dx.doi.org/10.3748/wjg.v6.iSuppl3.150>

E- Editor: Zhang FF



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>

