

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

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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

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