Pseudomyxoma peritonei treated with cytoreductive surgery and hyperthermic chemotherapy: a 7-year single-center experience

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ABSTRACT

Aims and background. Pseudomyxoma peritonei (PMP) is a rare clinical entity characterized by diffuse intraabdominal gelatinous collections with mucinous implants on the peritoneal surfaces and omentum. This condition should be considered a borderline malignancy with disease progression over time. Encouraging treatment results have been recently reported with the combination of cytoreductive surgery (CRS) and hyperthermic intraperitoneal chemotherapy (HIPEC).

Methods. From December 2003 to December 2010, 18 patients with PMP were referred to our institution. All patients underwent peritonectomy and CRS combined with HIPEC in accordance with Sugarbaker’s procedure.

Results. The mean Peritoneal Cancer Index score was 27.6 (range, 5-39). Twelve (67%) patients had disseminated peritoneal adenomucinosis and 6 (33%) peritoneal mucinous carcinomatosis. Optimal cytoreduction with no visible residual disease or residual disease ≤2.5 mm in diameter was achieved in all patients. The mean duration of the surgical procedure including HIPEC was 9 hours and 30 minutes (range, 5-13 hours); major morbidity occurred in 30% of patients and the mortality was 11%. The mean follow-up was 27 months (range, 1-72) and the 5-year overall survival 66%.

Conclusions. In line with the existing literature, our experience suggests that patients with PMP could benefit from CRS + HIPEC in terms of survival and locoregional disease control.

Key words: pseudomyxoma peritonei, cytoreductive surgery, peritonectomy, complete cytoreduction.