

MEETING ABSTRACT

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The treatment of peritoneal carcinomatosis in elderly patients

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Background

Peritoneal carcinomatosis is a frequent evolution of gastrointestinal and gynecologic malignancy and it has been regarded as a lethal clinical entity. Treatment options for these patients have improved significantly in the past few years. CytoReductive Surgery (CRS) plus Hyperthermic IntraPERitoneal Chemotherapy (HIPEC) is an aggressive and promising treatment for patients with peritoneal malignancies. Whether this type of major cancer surgery is feasible in elderly patients is an ongoing question.

Materials and methods

For this study we have only considered the patients with a minimal follow up of 18 months. For this reason we have evaluated 30 patients, 11 (36,6%) aged > 65 years, submitted, in the period May 2004 –April 2008, to 33 CRS plus HIPEC. Criteria of patients' eligibility were

peritoneal carcinomatosis of different origins, T3-4 gastric cancer, ECOG performance status ≤ 2 , no extra-abdominal extension and no evidence of bowel obstruction. For the intraoperative staging we have used the "Peritoneal Cancer Index" (PCI) [1] and to evaluate the entity of cytoreduction the "Completeness of Cytoreduction score" (CC score) [2] (Figure 1).

Results

Results of our experience are reported in Table 1.

Conclusions

The rationale of CRS plus HIPEC is based respectively on the removal of gross disease and on the eradication of microscopic residual disease. The peritoneal-plasma barrier retards the clearance of high molecular weight chemotherapy from the peritoneal cavity and allows a large exposure of small residual cancer nodules. Tissue

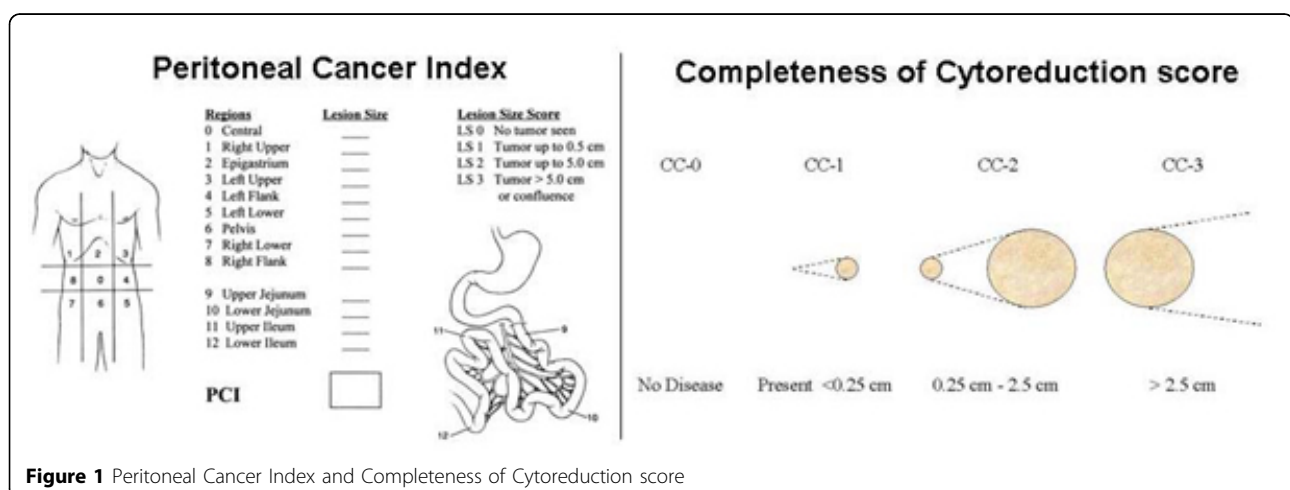


Figure 1 Peritoneal Cancer Index and Completeness of Cytoreduction score

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Table 1 characteristics of patients and results

	Pts	Procedures	Mean age (range)	Chronic comorbidities	Mean duration of surgery (min.)	Mean PCI	CC score	Mean postop. hospital stay (days)	Morbidity	Mortality	18 mths overall surv.
Total	30	33	58,3 (30-77)	18/30 (60%)	556,7	8,2	29 pts: 0 3pts:1 1 pt. with relapse: 2	17	21,2%	9%	66,6%
Pts aged < 65 years	19	22	52,7 (30-63)	7/19 (36,8%)	551,3	8,1	19 pts: 0 2 pts: 1 1 pt. with relapse: 2	17,2	18,1%	4,5%	68,4%
Pts aged > 65 years	11	11	69,7 (66-77)	11/11 (100%)	567,5	8,2	10 pts: 0 1 pt: 1	15,6	27,2%	18,1%	63,6%

penetration of the intraperitoneal chemotherapy is facilitated by moderate hyperthermia (41-42°C). This promising therapeutic approach is associated with significant morbidity and mortality and the surgical risk in elderly patients is even higher, since these people suffer from frequent comorbidities [3]. In our experience we have recorded, in elderly patients, higher, but acceptable, morbidity (27,2% vs 18,1%) and mortality (18,1% vs 4,5%), probably correlated with their comorbidities (100% vs 36,8%), lower mean postoperative hospital stay (15,6 days vs 17,2) and a good 18-months overall survival (63,6%). We retain, on the basis of our experience and of the data of the literature [3], that age and advanced peritoneal malignancy should not preclude patients from the maximal surgical effort.

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