



# Peritoneal carcinomatosis from gastric cancer: a multi-institutional study of 159 patients treated by cytoreductive surgery combined with perioperative intraperitoneal chemotherapy

Submitted by Véronique Bourgeais on Tue, 06/23/2015 - 15:52

Titre	Peritoneal carcinomatosis from gastric cancer: a multi-institutional study of 159 patients treated by cytoreductive surgery combined with perioperative intraperitoneal chemotherapy
Type de publication	Article de revue
Auteur	Glehen, Olivier [1], Gilly, François Noel [2], Arvieux, Catherine [3], Cotte, Eddy [4], Boutitie, Florent [5], Mansvelt, Baudouin [6], Bereder, Jean Marc [7], Lorimier, Gérard [8], Quenet, François [9], Elias, Dominique [10], Association française de chirurgie [11]
Pays	Etats-Unis
Editeur	Springer Verlag
Ville	New-York
Type	Article scientifique dans une revue à comité de lecture
Année	2010
Langue	Anglais
Date	Sept. 2010
Numéro	9
Pagination	2370-2377
Volume	17
Titre de la revue	Annals of Surgical Oncology
ISSN	1534-4681
Mots-clés	Antineoplastic Combined Chemotherapy Protocols [12], Carcinoma [13], Chemotherapy, Adjuvant [14], Combined Modality Therapy [15], Female [16], Gastrectomy [17], Humans [18], Hyperthermia, Induced [19], Injections, Intraperitoneal [20], Male [21], Middle Aged [22], Perioperative Care [23], Peritoneal Neoplasms [24], Retrospective Studies [25], Stomach Neoplasms [26], Survival rate [27], Treatment Outcome [28]

**BACKGROUND:** Peritoneal carcinomatosis (PC) from gastric cancer has long been regarded a terminal disease with a short median survival. New locoregional therapeutic approaches combining cytoreductive surgery with perioperative intraperitoneal chemotherapy (PIC) have evolved and suggest improved survival.

**MATERIALS AND METHODS:** A retrospective multicentric study was performed in French-speaking centers to evaluate the toxicity and the principal prognostic factors in order to identify the best indications. All patients had cytoreductive surgery and PIC: hyperthermic intraperitoneal chemotherapy (HIPEC) and/or early postoperative intraperitoneal chemotherapy (EPIC).

**RESULTS:** The study included 159 patients from 15 institutions between February 1989 and August 2007. The median follow-up was 20.4 months. HIPEC was the PIC used for 150 procedures. Postoperative mortality and grade 3-4 morbidity rates were 6.5 and 27.8%, respectively. By multivariate analysis, the institution had a significant influence on toxicity. The overall median survival was 9.2 months and 1-, 3-, and 5-year survival rates were 43, 18, and 13%, respectively. The only independent prognostic indicator by multivariate analysis was the completeness of cytoreductive surgery. For patients treated by complete cytoreductive surgery, the median survival was 15 months with a 1-, 3-, and 5-year survival rate of 61, 30, and 23%, respectively.

**CONCLUSIONS:** The therapeutic approach combining cytoreductive surgery with PIC for patients with gastric carcinomatosis may achieve long-term survival in a selected group of patients (limited and resectable PC). The high mortality rate underlines this necessarily strict selection that should be reserved to experienced institutions involved in the management of PC and gastric surgery.

Résumé en  
anglais

URL de la  
notice

<http://okina.univ-angers.fr/publications/ua12835> [29]

DOI

10.1245/s10434-010-1039-7 [30]

Lien vers le  
document

<http://dx.doi.org/10.1245/s10434-010-1039-7> [30]

Autre titre

Ann. Surg. Oncol.

Identifiant (ID)  
PubMed

20336386 [31]

---

## Liens

- [1] [http://okina.univ-angers.fr/publications?f\[author\]=22556](http://okina.univ-angers.fr/publications?f[author]=22556)
- [2] [http://okina.univ-angers.fr/publications?f\[author\]=22557](http://okina.univ-angers.fr/publications?f[author]=22557)
- [3] [http://okina.univ-angers.fr/publications?f\[author\]=22558](http://okina.univ-angers.fr/publications?f[author]=22558)
- [4] [http://okina.univ-angers.fr/publications?f\[author\]=22559](http://okina.univ-angers.fr/publications?f[author]=22559)
- [5] [http://okina.univ-angers.fr/publications?f\[author\]=1041](http://okina.univ-angers.fr/publications?f[author]=1041)
- [6] [http://okina.univ-angers.fr/publications?f\[author\]=22560](http://okina.univ-angers.fr/publications?f[author]=22560)
- [7] [http://okina.univ-angers.fr/publications?f\[author\]=22561](http://okina.univ-angers.fr/publications?f[author]=22561)
- [8] [http://okina.univ-angers.fr/publications?f\[author\]=920](http://okina.univ-angers.fr/publications?f[author]=920)
- [9] [http://okina.univ-angers.fr/publications?f\[author\]=22562](http://okina.univ-angers.fr/publications?f[author]=22562)
- [10] [http://okina.univ-angers.fr/publications?f\[author\]=22563](http://okina.univ-angers.fr/publications?f[author]=22563)
- [11] [http://okina.univ-angers.fr/publications?f\[author\]=22474](http://okina.univ-angers.fr/publications?f[author]=22474)
- [12] [http://okina.univ-angers.fr/publications?f\[keyword\]=6287](http://okina.univ-angers.fr/publications?f[keyword]=6287)
- [13] [http://okina.univ-angers.fr/publications?f\[keyword\]=18869](http://okina.univ-angers.fr/publications?f[keyword]=18869)
- [14] [http://okina.univ-angers.fr/publications?f\[keyword\]=18870](http://okina.univ-angers.fr/publications?f[keyword]=18870)
- [15] [http://okina.univ-angers.fr/publications?f\[keyword\]=10085](http://okina.univ-angers.fr/publications?f[keyword]=10085)
- [16] [http://okina.univ-angers.fr/publications?f\[keyword\]=1075](http://okina.univ-angers.fr/publications?f[keyword]=1075)
- [17] [http://okina.univ-angers.fr/publications?f\[keyword\]=18871](http://okina.univ-angers.fr/publications?f[keyword]=18871)

- [18] [http://okina.univ-angers.fr/publications?f\[keyword\]=991](http://okina.univ-angers.fr/publications?f[keyword]=991)
- [19] [http://okina.univ-angers.fr/publications?f\[keyword\]=7868](http://okina.univ-angers.fr/publications?f[keyword]=7868)
- [20] [http://okina.univ-angers.fr/publications?f\[keyword\]=18872](http://okina.univ-angers.fr/publications?f[keyword]=18872)
- [21] [http://okina.univ-angers.fr/publications?f\[keyword\]=968](http://okina.univ-angers.fr/publications?f[keyword]=968)
- [22] [http://okina.univ-angers.fr/publications?f\[keyword\]=5941](http://okina.univ-angers.fr/publications?f[keyword]=5941)
- [23] [http://okina.univ-angers.fr/publications?f\[keyword\]=18873](http://okina.univ-angers.fr/publications?f[keyword]=18873)
- [24] [http://okina.univ-angers.fr/publications?f\[keyword\]=18874](http://okina.univ-angers.fr/publications?f[keyword]=18874)
- [25] [http://okina.univ-angers.fr/publications?f\[keyword\]=6125](http://okina.univ-angers.fr/publications?f[keyword]=6125)
- [26] [http://okina.univ-angers.fr/publications?f\[keyword\]=18875](http://okina.univ-angers.fr/publications?f[keyword]=18875)
- [27] [http://okina.univ-angers.fr/publications?f\[keyword\]=8327](http://okina.univ-angers.fr/publications?f[keyword]=8327)
- [28] [http://okina.univ-angers.fr/publications?f\[keyword\]=6062](http://okina.univ-angers.fr/publications?f[keyword]=6062)
- [29] <http://okina.univ-angers.fr/publications/ua12835>
- [30] <http://dx.doi.org/10.1245/s10434-010-1039-7>
- [31] <http://www.ncbi.nlm.nih.gov/pubmed/20336386?dopt=Abstract>

Publié sur *Okina* (<http://okina.univ-angers.fr>)