

at that time. This finding, together with the fact that all 4 patients with malignancy also did not have previous CRC screening, underscores the importance of age-appropriate screening. We therefore recommend endoscopy-naïve patients undergo follow-up endoscopic evaluation. On the other hand, if a patient already had high-quality colonoscopy with no evidence of polyp within a reasonable time before diverticulitis was diagnosed, it is conceivable that a repeat colonoscopy would be redundant.

One of the strengths of this study is the use of a provincial cancer registry to capture any CRC that may have risen since the diagnosis of acute diverticulitis. Absence of additional cases of CRC in the registry among those who did not have follow-up endoscopy lends support to the idea that not all patients with acute diverticulitis require follow-up endoscopy to rule out underlying malignancy.

Based on the results of our study, we recommend selective endoscopic evaluation in the following patient populations after a diagnosis of acute diverticulitis on high-resolution CT scan: patients  $\geq$  50 years of age who are due for CRC screening/polyp surveillance in the form of colonoscopy based on recommended intervals,<sup>3</sup> and those with suspicious CT findings, such as a mass lesion with obstruction.

**George Ou, MD; Greg Rosenfeld, MD; Brian Bressler, MSc, MD**

From the Department of Medicine, Division of Gastroenterology, St. Paul's Hospital, University of British Columbia, Vancouver, BC

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## OPERATIVE OR NONOPERATIVE MANAGEMENT OF HINCHEY III PURULENT ACUTE DIVERTICULITIS?

We read with interest the article by Dr. Vennix and colleagues<sup>1</sup> published in *Lancet* that rekindles the debate on management of severe acute diverticulitis (Hinchey III); the lower early morbidity of surgical resection reported by the authors definitely challenges the recent trend toward mini-invasive management by laparoscopic lavage (LL).<sup>2,3</sup>

Interestingly, in the authors' whole series, major morbidity and 12-month mortality reached 30% and 11% (14% in the resection group [RG]), respectively. Overall, patients underwent 157 operations (88 primary surgeries, 40 reoperations and 29 stoma reversals), accounting for a ratio of 1.8 operations per patient (1.9 in the RG). Moreover, 52% of patients underwent ileo-/colostomy (68% in the RG), which was never reversed in 27% of cases. Finally, 15% of patients had fascial dehiscence within 1 year.

Also considering that patients with stercoral peritonitis (Hinchey IV) were excluded, results of surgery in the studied population seem poor and possibly caused by the emergency setting, rather than the purpose of surgery (resection s. nonresection). Admitting that LL is not superior because no difference is recorded between the 2 groups does not mean that performing an emergency sigmoidectomy is the best option in a septic patient with an ongoing acute peritonitis. The real, upcoming question seems to be whether Hinchey III patients (whose results are poor regardless of the performed procedure) really need emergency surgery. Since the study does not include a conservative management group, efficacy of antibiotics alone is not assessed.

We recently reported a 92% successful conservative management of hemodynamically stable patients with diverticulitis-associated pneumoperitoneum and no diffuse colonic perforation at CT (82% and 72% presenting free intraperitoneal fluid and clinical signs of diffuse

acute peritonitis, respectively).<sup>4</sup> None died, 3 were reoperated and 7 required percutaneous drainage, which was considered a successful, nonoperative management, and we concluded that most non-Hinchey IV patients may be managed conservatively. Moreover, only 19 patients underwent delayed elective sigmoidectomy (with 2 reoperations), whereas 17 patients completely avoided surgery, with an overall ratio of 0.6 operations per patient.

In accordance with Vennix and colleagues, we believe that an accurate preoperative diagnosis should improve Hinchey III patient selection, not to undergo laparoscopic drainage, but rather to avoid an unnecessary surgery.

Randomized multicentre trials, comparing a surgical and a conservative approach to patients affected by non-Hinchey IV acute diverticulitis are needed to assess if, in this class of patients, less is more.

**Renato Costi, MD, PhD; Alban Zarzavadjian le Bian, MD, PhD; Claude Smadja, MD, PhD; Vincenzo Violi, MD, PhD**

From the Dipartimento di Scienze Chirurgiche, Università degli Studi di Parma, Parma, Italia (Costi); the Service de Chirurgie Digestive et Carcinologique, Hôpital Lariboisière, Paris, Assistance Publique — Hôpitaux de Paris, Université Paris VII "Diderot", France (Costi); the Service de Chirurgie Digestive, Hôpital "Simone Veil", Eaubonne, France (Zarzavadjian le Bian); and the Service de Chirurgie Digestive, Hôpital "Antoine Béclère", Clamart, Assistance Publique — Hôpitaux de Paris, Université Paris XI, France (Smadja).

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## RE: RECURRENCE OF INGUINAL HERNIAS REPAIRED IN A LARGE SURGICAL SPECIALTY HOSPITAL AND GENERAL HOSPITALS IN ONTARIO, CANADA

It is extremely rare, for an article dealing with the lowly hernia to provoke a tremor in the world of surgery. Malik and colleagues<sup>1</sup> have just managed that seismic quality and they are to be congratulated and celebrated.

For 20 years, synthetic meshes have become the mainstay of hernia surgery, thanks to an industry that fostered conferences, societies and free courses, but also flagrant and undaunted marketing. The drawbacks of meshes were always vague and nebulous.<sup>2,3</sup> The current generation of surgeons can truly be said to have been formed by the industry!

Mesh-based repairs are touted as the ideal in the guidelines of the European, Danish and Swedish Hernia Societies.<sup>4</sup> The American Hernia Society has found no reason to disapprove.

The Shouldice repair, a pure tissue repair, rated a mention only when infected mesh was removed! Sadly, no one performs or knows how to perform a Shouldice repair outside Thornhill. A repair which, barely 20 years ago, was considered the “gold standard.”

The world literature is now replete with publications on chronic postherniorrhaphy inguinodynia, a condition unknown before the introduction of mesh. In 1964, in Nyhus' classic hernia, postherniorrhaphy pain did not rate a mention in its index.<sup>5</sup> In Ponka's equally excellent book, pain is mentioned in half a column as “uncommon” and due to “scar tissue” (1980).<sup>6</sup>

Copious publications are now firming up the statistics on postoperative complications of mesh: 11%

of patients will have a history of severe chronic postoperative inguinodynia severe enough to be detrimental to their quality of life. Another group of patients (3%–4%) will suffer irreversible dysejaculation, which only 20 years ago, without mesh, had an incidence of 1 in 2500 cases and was reversible! A hundred-fold (or 10 000%) increase. Another 10% will manifest severe testicular pain secondary to mesh erosion of the vas, which in some cases will require an orchidectomy. The specter of infertility has not been an issue, unless there is contact between mesh and vas (as in a Lichtenstein or laparoscopic approach) in a young adult with bilateral repairs and who may consider a family 10 years down the road. The delay in reaching the vas lumen is 7–10 years (unpublished data). Transmigration into adjacent organs are commonly reported but not systematically quantified with any accuracy through industrial surveillance. With such evidence, would a “duly informed” patient consent to mesh-based surgery?

To answer our respected authors, mesh is used in 3% of the cases at the Shouldice Hospital. Around the world, mesh is used in 90%–97%.<sup>7</sup>

The better results of the Shouldice repair are not due to legerdemain. Their surgeons truly know anatomy. More so than surgeons who do an average of 50 cases a year. In the Swedish registry, 50% of the surgeons did fewer than 7 cases a year. The hackneyed aphorism with vendors that... “with mesh, you do not need to know anatomy” is simply untrue.

Professor Volcker Schumpelick, Editor in Chief of the *Hernia*, in his address to the American Hernia Society (2005) stated that “despite the introduction of mesh and laparoscopy, there has been no reduction in the incidence of hernia recurrences in the last 30 years. That incidence worldwide is 14%.”<sup>8</sup> Why are the European guidelines rushing to be launched as World guidelines?

This thorough, objective, generously followed, massive population-

based analysis by our Toronto colleagues has already reached *Hernia* and the European Hernia Society. The “tailored approach” concept is rather new. This paper will help nail that merciful concept. The figure estimated at 10%–20% could be brought to a mere 5% with simple emphasis of anatomy. The Shouldice Hospital already demonstrated, 20 years ago, that 1%–5% is the magic number depending on the type of hernia.<sup>9</sup>

This paper will become a classic, cited beyond the wildest dreams of its authors. It will awaken many residents to ask why it takes 4–6 years of surgical training if the industry can do it, through vendors, in a matter of minutes.

I would like to think that my learned and respected colleagues of the University of Toronto have revealed a good omen for a return to a saner algorithm and a harbinger of what I like to call a timely revival of a “greener operation.”

### Robert Bendavid, MD

From the Department of Surgery, Shouldice Hospital & University of Toronto, Thornhill, Ontario.

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