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A RARE CASE OF ACUTE PERFORATION OF GASTROJEJUNAL ULCER



General Surgery

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ABSTRACT

Gastrojejunal anastomotic complications are frequent and occur within the first days or upto several years after surgery. Marginal ulcers occur after gastrojejunostomy or gastrectomy of the Billroth II type. The jejunal loop is exposed directly to the gastric acid, so the ulcer is usually found on the jejunal side of the stoma. Anastomotic site leak, hemorrhage and stomal stenosis are well known complications of gastrojejunostomy but ulcer perforation is a rare entity.

KEYWORDS:

Oral health, Oral hygiene Index, Rural, Students

Introduction

Marginal ulcer are multifactorial, the development of early marginal ulcer is more likely associated with local factors (ischemia, postoperative inflammation, stenosis, and forigen body) while marginal ulcer are likely to be related to an increased acid exposure of the gastrojejunostomy developing over time 1-2. Gastrojejunal stomal ulcer is commonly found on the jejunal side of the stoma 3 due to direct exposure to gastric acid. NSAID and smoking also increase the risk of ulcer formation 4. These patients may present with upper G.I. bleeding because of hemorrhage from the ulcer site or with perforation, which is very rare.

Case report

A 55-year-old male chronic smoker and alcoholic presented with pain in the upper abdomen for 4 days with two episode of vomiting and slight abdominal distension not passing flatus for one day. He had swallowed one tablet combiflam(ibuprofen+ paracetamol). There was no history of trauma, fever and chest pain. Ten years before, closure of perforation and an anterior gastrojejunostomy had been performed for a large perforated ulcer of duodenum.

On admission, temperature was 99.4°F, pulse 110/min., respiration rate 20/min. and B.P. 110/74mmHg. On examination, there was a vertical midline scar mark present . The whole abdomen was distended and tender .Muscle guarding, rigidity and rebound tenderness was present over the whole abdomen with obliterated liver dullness. Bowel sounds were absent. Hernial orifices and genitalia were normal. P. R. examination was normal. Chest x-ray showed free gas under the right dome of the diaphragm. After initial resuscitation, the patient was shifted to the operating room for exploratory laparotomy. Right upper midline laparotomy was done. On exploration, there was a small (0.5x0.5cm) perforation at the efferent jejunal side of the old gastrojejunostomy. The perforation was repaired and reinforced with a tag of omentum. Ryle's tube was placed in the efferent loop. Thorough peritoneal lavage was done and two intraperitoneal drains were placed. The course was uneventful postoperatively.

Discussion

In the past, vagotomy and gastrojejunostomy or pyloroplasty were the standard treatment for peptic ulcer disease. Laparotomy and closure of perforation with reinforcement with omental patch still remains the treatment of choice for perforated peptic ulcer. Stomal ulcers are very infrequently seen today as the numbers of vagotomy and gastrojejunostomy have fallen down with the concept of H. pylori and medical treatment has been introduced successfully.

Those patients who have undergone vagotomy and gastrojejunostomy in the past now are reviewed by endoscopy examination to detect stomal ulcers. Yet, these patients are expected to have complications like hemorrhage, perforation, retrograde intussusception, retroanastomotic hernia and adhesions. The gastrojejunal ulcer manifests itself first by hemorrhage and shortly afterwards by perforation5. In a review of literature, Toland and Thompson (1936) found 93 authentic reports of acute perforation in gastrojejunal uclers

and stated that usually the interval between the performance of gastrojejunostomy and the acute perforation of gastrojejunal ulcer varied from 5 days to 18 years6. The acute perforation of gastrojejunal ulcer was preceded by no prodromal symptoms beyond slight bleeding producing vertigo, followed by massive hemorrhage. The site of pain in the acute perforation is in the left lower quadrant. In our case, the site of pain was initially in the left hypochondrium, then in the left lower quadrant and then over the whole abdomen. On examination, maximal tenderness was found in the left lower quadrant. These findings are characteristic and are due to the fact that the fluid escaping from the perforation passed downwards to the left of the vertebral column beneath the omentum.

In the majority of cases, gastrojejunal ulcer is anastomotic. But in our case, the ulcer was on the jejunal side of the old gastrojejunostomy on the efferent loop of the jejunum, close to the anastomotic site.



Figure 1 X-ray chest showing gas under right dome of diaphragm



Figure2 X-ray abdomen



Figure 3 perforation near arrow tip

References

- J. A. Sapala, M. H. Wood, M. A. Sapala, and T. M. Flake Jr., "Marginal ulcer after gastric bypass: a prospective 3-year study of 173 patients," Obesity Surgery, vol. 8, no. 5, pp. 505–516, 1998
- 505–516, 1998
 A. Csendes, J. Torres, and A. M. Burgos, "Late marginal ulcers after gastric bypass for morbid obesity. Clinical and endoscopic findings and response to treatment," Obesity Surgery, vol. 21, no. 9, pp. 1319–1322, 2011.
 Russell RCG, Willams S. Norman, Bulstrode JK. Bailey & Love's short practice of surgery: Stomach and Duodenum: 24th ed., p.1039
 Laurence Y. Cheung, Romano Delcore. Sabiston's text book of surgery: Stomach. 16th

- Scarlet EP, Macnab DS. An unusual sequence of events in a gastrojejunal ulcer: Can Med Assoc J 1937; 37:366-367. 5.
- Toland CG, Thompson HL. Acute perforation of gastrojejunal ulcer. Ann Surg 1936;