UCTN

A case of small-bowel perforation caused by a migrated duodenal stent





Metal stents are used to palliate advanced malignant gastric outlet and duodenal obstruction [1,2]. We present a rare complication due to a migrated duodenal stent, that highlights the need for a diagnosis of malignancy before deployment.

A 73-year-old man developed symptoms of gastric outlet obstruction following lumbar spine laminectomy at another institution. Computed tomography (CT) scanning revealed a mass lesion arising from the head of the pancreas compressing the second part of the duodenum. A presumptive diagnosis of carcinoma of the pancreas was made and an expanding metal stent was deployed without a histological diagnosis.

One month later he presented to our hospital with vague abdominal pain. A further CT scan showed free air and fluid within the peritoneal cavity and the pancreas looked normal. At laparotomy he was found to have a perforation where the metal stent had impacted in the distal ileum (Figure 1 and 2). The pancreas felt normal. It was concluded that the pancreatic mass previously seen on CT scanning was inflammatory, and that as it resolved the stent had migrated. A small-bowel resection was performed. Following a good initial recovery the patient later developed cardiovascular instability from acute bacterial endocarditis (diagnosed on echocardiography) which was fatal. An autopsy was not performed as a cause of death had been identified.

Duodenal perforation is a recognized complication associated with metal stents, both those in situ and migrated esophageal devices [3-5]. There have however been no reported cases of a duo-

Figure **1** Section of ileum showing perforation (stent removed).

Figure **2** Close up

with stent in situ.

The metallic stent

had been placed en-

doscopically for gas-

tric outlet obstruction secondary to a

pancreatic lesion.

The lesion was most

probably inflamma-

tory and when it re-

solved the stent mi-

grated causing per-

foration of the distal

ileum.

denal stent migrating into the distal ileum and causing perforation. This case demonstrates the importance of a definitive diagnosis of malignancy before placing a stent for palliation.

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References

- ¹ Feretis C, Benakis P, Dimopoulos C. Palliation of malignant gastric outlet obstruction with self-expanding metal stents. Endoscopy 1996; 28: 225–228
- ² Jung G, Song H, Kang S et al. Malignant gastroduodenal obstructions: treatment by means of a covered expandable metallic stent – initial experience. Radiology 2000; 216: 758–763
- ³ Bessoud B, De Baere T, Denys A et al. Metallic stents for malignant gastroduodenal obstruction. J Vasc Interv Radiol 2005; 16: 247–253
- ⁴ Thumbe V, Houghton A, Smith S. Duodenal perforation by a Wallstent. Endoscopy 2000; 32: 495 – 497
- ⁵ Kim H, Han J, Kim T et al. Duodenal perforation as a delayed complication of placement of an oesophageal stent. J Vasc Interv Radiol 2000; 11: 902–904

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