Oesophageal intramural pseudo-diverticulosis
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Citation

Abstract
A case of oesophageal intramural pseudo-diverticulosis is described and the endoscopic and radiological features are presented. The relevant literature concerning this rare disease is reviewed.

CASE REPORT
A 64 year old female was referred by her general practitioner to the gastroenterology clinic with a six month history of progressive dysphagia. She complained that solids, more so than liquids, were being held up at the level of the lower sternum. She also had heartburn, acid regurgitation, nausea and vomiting.

She had a history of coronary artery disease and chronic obstructive airways disease. She had longstanding diarrhoea, which was attributed to colonic diverticular disease, and alcohol-induced chronic liver disease. She was a widow who lived with her son and grandchildren. She smoked 20 cigarettes a day for many years and had abused alcohol in the past. On examination, she had the stigmata of chronic liver disease and chest signs of hyperinflation.

Upper GI endoscopy showed a large hiatus hernia associated with mild oesophagitis and mild patchy non-erosive duodenitis. She was treated with proton pump inhibitors and her symptoms resolved.

Five months later, however, she presented with epigastric pain, weight loss, dysphagia and generalised lethargy.

At endoscopy, the previously noted oesophagitis had resolved but she had developed multiple diverticula throughout the oesophagus (Figs.1a and 1b) and these findings were confirmed on barium swallow. (Figs 2a and 2b)

Interestingly, her GP had organised a barium swallow 5 years previously, presumably for similar problems, which was reported to have been normal.

DISCUSSION
The more common varieties of oesophageal diverticula usually result from either raised intraluminal pressure associated with distal obstruction of the lumen or traction from fibrosis in the mediastinum. They may be true diverticula, involving all the layers of the oesophageal wall, or pseudo-diverticula where the mucosa prolapses through
Oesophageal intramural pseudo-diverticulosis

Oesophageal intramural pseudo-diverticulosis is a rare condition. It is characterised by multiple, small, narrow-necked out-pouchings of the mucosa reaching into the muscle layers. Its cause is unknown. Speculation regarding the aetiology includes dilated excretory ducts of submucosal glands, increased intraluminal pressure secondary to strictures or diffuse oesophageal spasm, Candida oesophagitis and eosinophilic oesophagitis. In perhaps the largest series of cases published, Canon et al. described the radiological features of the disease. Fifty percent of the 30 patients studied had intramural tracking, in other words, the pseudo-diverticulum penetrated the inner muscle layer and then extended proximally and distally for an average length of about 1.5cm. As the authors pointed out, the clinical significance of tracking is unknown. However, awareness of this radiological finding is important if misdiagnosis – with other conditions such as oesophageal ulcers and extra-mural collections – is to be avoided.

This case study demonstrates the typical radiological features of oesophageal intramural pseudo-diverticulosis. In addition, the less commonly observed endoscopic appearances are presented. Finally, it draws attention to the abrupt onset of this condition over a matter of just a few months.

References

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