Endoscopic diagnosis of secondary aorto-esophageal fistula

Secondary aorto-esophageal fistula (AEF) is a catastrophic complication of endovascular graft placement [1]. The typical symptom of secondary AEF is massive gastrointestinal bleeding with a history of thoracic aortic aneurysm repair [2]. Endoscopy is the most sensitive and specific diagnostic study [3]. Endoscopy should be carefully performed, as it excludes other, more common causes of upper gastrointestinal bleeding, but should be terminated if a fistula is identified. We present an endoscopic finding of secondary AEF.

A 60-year-old woman was diagnosed with a mycotic thoracoabdominal aortic aneurysm and underwent resection of the aneurysm with an *in-situ* prosthetic interposition graft. Two weeks later, she developed massive hematemesis with hypotension. Emergency esophagoscopy revealed that the graft had eroded into the upper esophagus, with active bleeding (● Fig. 1). Angiography with endovascular stenting and coil embolization were performed but failed to control the bleeding (● Fig. 2). The patient died from exsanguinating hemorrhage.

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Fig. 1 Endoscopic view showing the Dacron graft in the upper esophagus with bleeding.

Fig. 2 Aortogram showing the endovascular stent with coil embolization and continuous leakage.

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References

- 1 Sinar AR, Demaria A, Kataria YP, Thomas FB. Aortic aneurysm eroding the esophagus. *Dig Dis Sci* 1977; 22: 252–254
- 2 Carter R, Mulder GA, Snyder EN Jr, Brewer LA III. Aorto-esophageal fistula. *Am J Surg* 1978; 136: 26–30
- 3 Sosnowik D, Greenberg R, Bank S, Graver LM. Aorto-esophageal fistula: early and late endoscopic features. *Am J Gastroenterol* 1988; 83: 1401–1404

Bibliography

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