Variceal band ligation was unsuccessful, and the patient rapidly developed respiratory failure because of aspiration of regurgitated blood. After intubation and artificial ventilation, placement of a nitinol self-expanding metal stent (SX-Ella Danis, Hradec Králové, Czech Republic) immediately stopped the hemorrhage, as also confirmed endoscopically 1 day later (Fig. 1b).

The post-procedure clinical course was uneventful; artificial ventilation was continued because of aspiration pneumonia. However, after 6 days, respiratory parameters deteriorated rapidly due to severe bronchial obstruction. Endotracheal bronchoscopy revealed profound narrowing of the proximal left main bronchus near the main carina because of extraluminal compression (Fig. 2a).

Stent-related compression of the left main bronchial wall was verified by computed tomography (CT) (Fig. 2b).

Therefore, endoscopic stent removal was considered to be the only therapeutic option and was performed, resulting in resolution of the bronchial obstruction. Although no further variceal bleeding occurred after stent removal, 7 days later the patient died because of liver failure. We describe an important complication of therapeutic self-expanding metal stent implantation for esophageal variceal bleeding. This stent consists of a plastic-covered nitinol mesh (length 135 mm; diameter 25 mm; proximal and distal flare 30 mm). Its high radial expansion force enables compression of (bleeding) esophageal varices. This stabilizes the situation for ≤7 days (maximum duration of use as recommended by the manufacturer) before applying further therapeutic measures [1]. Airway malignancy is a contraindication, but bronchial compression in an otherwise unaffected respiratory system has not been reported. A few authors have reported rapid respiratory dysfunction after stent placement [2–4], but there are no reports on specific complications related to use of the stent described here.

We recommend careful selection of patients with respiratory impairment, and, in case of deterioration after stent implantation, to consider and rapidly treat airway compression, e.g. by immediate stent removal.
References

Bibliography
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