
Life-Threatening Hemoptysis Secondary to Rasmussen’s Aneurysm in an HIV Patient

Hemoptisis amenazante secundaria a aneurisma de Rasmussen en paciente VIH

To the Editor:

Life-threatening hemoptysis is a medical emergency defined as the expectoration of over 250 ml blood in a 24-h period. If left untreated, mortality is 80%. Most cases originate in hypertrophic bronchial arteries. However, a small percentage of life-threatening hemoptysis occurs in pulmonary arteries weakened by infectious processes caused by mycobacteria or fungi.1,2

We report the case of a 55-year-old man with advanced human immunodeficiency virus infection (stage C3), smoker and former intravenous drug user, who presented at our hospital with life-threatening hemoptysis, hypotension and tachycardia. In addition to emphysema phenotype chronic obstructive lung disease and hepatitis C-related liver cirrhosis, he had had multiple lung infections caused by unusual pathogens (Pneumocystis jiroveci, non-tuberculous mycobacteria, semi-invasive aspergillosis, etc.) that were treated, although treatment adherence was poor. A chest computed tomography (CT) angiography was performed, showing an aneurysm 1 cm in diameter in the subsegmentary pulmonary artery of the right lower lobe (Fig. 1) and signs of ipsilateral pulmonary hemorrhage (Fig. 1C), associated with a Rasmussen’s aneurysm. In view of the patient’s hemodynamic instability, an

![Fig. 1. (A) Coronal maximum intensity projection (MIP) CT reconstruction, showing a Rasmussen’s aneurysm (arrow) on a subsegmentary branch of the right lower lobe artery. (B) CT volumetric reconstruction (3D or volume rendering) confirming Rasmussen’s aneurysm (arrow). (C) Coronal MIP CT reconstruction (pulmonary parenchyma window) showing signs of lung hemorrhage (asterisk) and bilateral residual infectious parenchymal opacities (arrows). (D) Coronal oblique MIP CT reconstruction after embolization showing embolization material (coil) occluding the Rasmussen’s aneurysm (arrow).](http://www.elsevier.es)
Microdebrider Bronchoscopy for Resection of Metal Stent Granulomas

Recesión de granulomas en prótesis metálica con microdebridador broncoscópico

To the Editor,

We have had the opportunity to use a new instrument\(^1\) for the mechanical endoscopic resection of the trachea in a patient with special characteristics. We found the experience interesting and would like to describe the procedure.

The patient was a 77-year-old man with arterial hypertension and diabetes, chronic obstructive pulmonary disease, severe heart disease, and atrial fibrillation managed with a pacemaker. He underwent bilobectomy of the right middle and lower lung lobes in 2006 due to lung cancer. In 2011 a new epidermoid carcinoma was detected in the trachea, which we treated with laser endoscope and metal stent (Ultraflex\(^2\)) measuring 18 × 40 mm\(^2\). He subsequently received chemo- and radiotherapy. In March 2014, the patient had to undergo bronchoscopic interventionism to resect granulomas in the distal end of the prosthesis which were occluding over 75% of the lumen. We mechanically resected these granulomas using the Straightshot\(^3\) M4 Microdebrider (37 cm in length and 4 mm in diameter, with a 15° angulated tip), via a rigid tracheoscope (Efer-Dumont\(^4\)) 13.20 mm in diameter. The intervention lasted 35 min, and the post-operative period was incident-free. To date, August 2015, the patient continues in follow-up with no relapse (Fig. 1).

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This instrument, which is very familiar in eye, nose and throat surgery and in interventions of the base of the skull, has rarely been used in lower airway procedures. It consists basically of a revolving tip connected to a control panel. Its advantages include very rapid tissue dissection; it aspirates as it cuts, keeping the surgical field clear most of the time, so the anesthetist can provide the fraction of inspiratory oxygen (FiO\(_2\)) required by the patient. Several different attachments are marketed allow larger or smaller resections depending on the size of the lesion, the required precision, and Skimmer\(^5\) Blade cutting mode. The device also includes a serrated, 2.9 mm or 4 mm diameter TriCut\(^6\) Blade rotating tip.

Rotation speed is controlled manually or by a pedal (1500–5000 rpm). Drawbacks include its length, which at 37 cm