A 51-year-old woman with a 30-year history of recurrent epistaxis presented to the emergency department with a nosebleed. Her nosebleeds were initially mild but had gradually progressed in severity and frequency, and she had been admitted to hospital several times for cauterization. She also reported having very heavy menstrual periods in her 20s, for which she had had a hysterectomy at age 35.

The patient reported having first noticed red spots on the mucosa of her lips, oral cavity and nose in her 30s. At the same time, she began having hemoptysis. Blood transfusions had been required because of substantial bleeding. The patient had a partial right lower lobectomy and a partial lingular resection because of massive pulmonary hemorrhage. Her mother and sister both had facial telangiectasias and recurrent nosebleeds.

Hereditary hemorrhagic telangiectasia was diagnosed based on the Curaçao criteria, which include recurrent epistaxis, multiple facial telangiectasias (Figure 1A), visceral bleeding and having first-degree relatives with the same conditions.

Angiography showed telangiectasias involving the nasal mucosa and its supplying arteries (Figure 1B) and pulmonary arteriovenous malformations. These vascular lesions were successfully treated by coil embolization (Figure 1C).

Cerebral magnetic resonance imaging and an abdominal computed tomography scan ruled out other arteriovenous malformations and telangiectasias. Her annual physical examination now includes careful inspection for new telangiectasias, a complete blood count to identify anemia and examination of a stool sample to identify occult blood. Her long-term follow-up plan includes a chest computed tomography scan every 5 years to detect new pulmonary arteriovenous malformations. A subsequent nosebleed was controlled by cauterization, and her hemoptysis has not recurred. The patient’s mother and sister do not have arteriovenous malformations.

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