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Tracheal fistula associated with bevacizumab 20 months after mediastinal radiation

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DESCRIPTION

We report a case of a 60-year-old woman who developed a tracheal fistula 20 months after mediastinal radiation while being treated with bevacizumab. She presented with a large right-sided mediastinal mass given a diagnosis of stage IIIB adenocarcinoma. She was treated with definitive thoracic radiation (figure 1) and a concurrent chemotherapy, including both cisplatin and docetaxel. Eleven months after chemoradiotherapy she developed progressive disease with enlargement of the mass and pleural effusion ipsilateral to the site of the mass. She was treated with pemetrexed as a second-line chemotherapy. Seven months later, she developed progressive disease with bilateral pleural effusion. She received a third-line systemic chemotherapy with carboplatin, paclitaxel and bevacizumab (15 mg/kg) every 3 weeks. After three cycles, she developed dry cough and fever. Three weeks after her third cycle, she was obtunded with respiratory failure associated with hypercapnia. CT scan showed destruction of the right tracheal wall (figure 2). Non-invasive positive pressure ventilation was used to improve respiratory failure but she and her family would not agree to further attempts, including intubation, stent placement nor surgical repair. She died of respiratory failure several days later.

When administered in combination with thoracic radiation, bevacizumab has been associated with tracheo-
oesophageal fistula. Delayed tracheo-oesophageal fistulae have also been reported in patients treated with bevacizumab even months after chemoradiotherapy. Thus, physicians should be cautious about the formation of life-threatening fistula in patients with lung cancer treated with bevacizumab after a high dose of mediastinal radiation.

Competing interests None.

Patient consent Obtained.

REFERENCES


Figure 2 CT scan showed that the right tracheal wall was destructed after the patient received three cycles of third-line systemic chemotherapy, including bevacizumab (red arrow).