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Clinical Image

Giant Bronchoesophageal Fistula in Advanced Lung Cancer: A Case Report



Fístula broncoesofágica gigante en cáncer de pulmón avanzado: reporte de caso

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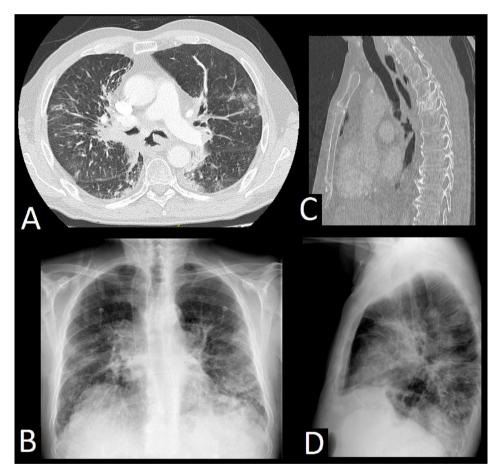


Fig. 1. (A and C) Thoracic computed tomography showing a bronchoesophageal fistula involving the left main bronchus. (B and D). Chest radiography after endoscopic intervention shows an esophageal stent.

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We report the case of a 69-year-old man with stage T4N3M0 squamous cell lung carcinoma, initially treated with carboplatin, vinorelbine, and sequential radiotherapy. Following disease progression, second-line treatment with carboplatin and pembrolizumab began for a total of 3 cycles. Five months later, the patient was admitted with aspiration pneumonia. Chest computed tomography revealed a giant bronchoesophageal fistula (Fig. 1), confirmed by bronchoscopy, manifesting as a direct communication between the left main bronchus and the esophagus (Video 1) with an orifice exceeding 1.5 cm in diameter. Because of the size of the fistula and the clinical context, a multidisciplinary team decided on palliative placement of an esophageal stent (Fig. 1). This led to clinical and radiological improvement. The patient was discharged home with palliative care and, unfortunately, died 1 month after the procedure. Bronchoesophageal fistula is an exceptional complication of lung cancer. The estimated incidence is <0.3%, but it can be as high as 2% in patients receiving chemoradiotherapy or immunotherapy.² According to Grass et al.,³ treatment should aim for bilateral fistula closure whenever feasible within a multidisciplinary management framework. In selected patients, palliative endoscopic interventions can significantly improve quality of life and survival. This case emphasizes the exceptional diagnostic challenge posed by a giant bronchoesophageal fistula and the decisive role of multidisciplinary management in achieving an effective palliative outcome.

Declaration of generative AI and AI-assisted technologies in the writing process

For the preparation of this article in English, the Chat GPT platform was used occasionally. After using this tool, the authors reviewed and edited the content as needed and take full responsibility for the content of the publication.

Informed consent

We obtained the patient's informed consent to publish his case.

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Authors' contributions

All authors have contributed to the preparation, writing and review of the article.

Conflicts of interest

The authors declare that they do not have any conflicts of interest that might influence the content of the manuscript directly or indirectly.

Appendix A. Supplementary data

Supplementary data associated with this article can be found in the online version available at https://doi.org/10.1016/j.opresp.2025.100508.

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