Mounier-Kuhn syndrome: more than just a cough

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DESCRIPTION

A 35-year-old man presented with a chronic productive cough and a history of recurrent lower respiratory tract infections. Physical examination was unremarkable as were routine blood investigations.

A chest radiograph demonstrated dilation of the trachea and main bronchi. Multiple perihilar cysts with air-fluid levels were seen (figure 1). Contrast-enhanced chest CT confirmed tracheal dilation with multiple tracheal diverticulae present in the posterior aspect of the proximal trachea (figure 2). Both main bronchi were also dilated. Bilateral, cystic spaces with air-fluid levels, in keeping with cystic bronchiectasis were seen to involve both lower lung zones, sparing the lung apices. This can be appreciated on coronal reformat (figure 3). Tracheal dilation and diverticulae were observed on bronchoscopy, confirming the diagnosis of tracheobronchomegaly.

Mounier-Kuhn syndrome, also described as tracheobronchomegaly, is a rare condition marked by tracheal and bronchial dilatation. Presentation is usually that of recurrent lower respiratory tract infections. The diagnosis is performed radiologically and is confirmed by bronchoscopy and lung function tests. These demonstrate an obstructive picture with a reduced forced expiratory volume in 1s (FEV1) and forced vital capacity (FVC) resulting in a FEV1/FVC of less than 70%. A tracheal diameter more than 3 cm, usually measured 2 cm above the aortic arch is diagnostic. A hereditary link is suggested by the occurrence of this condition in Ehlers-Danlos and cutis laxa. The consequence of this disease is impaired clearance of mucous resulting in recurrent...
pneumonias, emphysema, bronchiectasis and parenchymal scarring.\textsuperscript{3} Chest physiotherapy and long-term antibiotics are the mainstay of treatment.

**Learning points**

▸ Should be considered in the differential diagnosis of a chronic cough.
▸ CT of the chest is diagnostic as it clearly demonstrates tracheal and bronchial dilatation.
▸ Physiotherapy and antibiotics are the mainstay of treatment.

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**REFERENCES**


Figure 3  Coronal reformat demonstrating dilated trachea and main bronchi together with cystic bronchiectasis (arrows).