

Pseudomembranous Tracheobronchitis Caused by *Aspergillus* in a Patient after Peripheral Blood Stem Cell Transplantation

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Abstract

Introduction: We report a case of pseudomembranous tracheobronchitis caused by *Aspergillus fumigatus* 2 years after matched unrelated stem cell transplant. **Clinical Picture:** The patient presented with dyspnoea and obstructive airway disease coinciding with the onset of chronic graft-versus-host disease (GVHD). Following treatment with higher immunosuppressive therapy for presumptive diagnosis of bronchiolitis obliterans, he subsequently developed recurrent spontaneous pneumomediastinum and progressive respiratory failure. **Treatment and Outcome:** Tracheobronchial biopsy and culture of bronchoalveolar lavage (BAL) fluid revealed *Aspergillus* tracheobronchitis. Despite mechanical ventilation and antifungal therapy, he succumbed to progressive respiratory failure. **Conclusions and Clinical Implications:** *Aspergillus* tracheobronchitis should be suspected in heavily immunosuppressed stem cell transplant recipients presenting with recurrent pneumomediastinum and progressive respiratory failure.

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Key words: *Aspergillosis, Bone marrow transplantation, Graft-versus-host disease, Pseudomembranous tracheobronchitis, Pneumomediastinum*

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