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Pathophysiology of Bronchiectasis

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### Voiceover:

Bronchiectasis pathophysiology has been described in literature as a "vicious cycle" or "vicious vortex," consisting of 4 interconnected components.<sup>1,2</sup>

Abnormal mucus production and mucociliary clearance...

...Which renders the airway more susceptible to chronic infections.<sup>1</sup>

The inflammatory response is complex. It is primarily neutrophilic, but also involves a network of cytokines and other inflammatory cells. Collectively, these add to airway damage and lung destruction.<sup>1</sup>

Within this self-perpetuating process, each component can contribute to the worsening of the others and thereby furthers the progression of disease over time.<sup>1</sup>

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### References:

1. Flume PA, Chalmers JD, Olivier KN. Advances in bronchiectasis: endotyping, genetics, microbiome, and disease heterogeneity. *Lancet*. 2018;392(10150):880–890.
2. Metersky ML, Barker AF. The pathogenesis of bronchiectasis. *Clin Chest Med*. 2022;43(1):35–46.

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