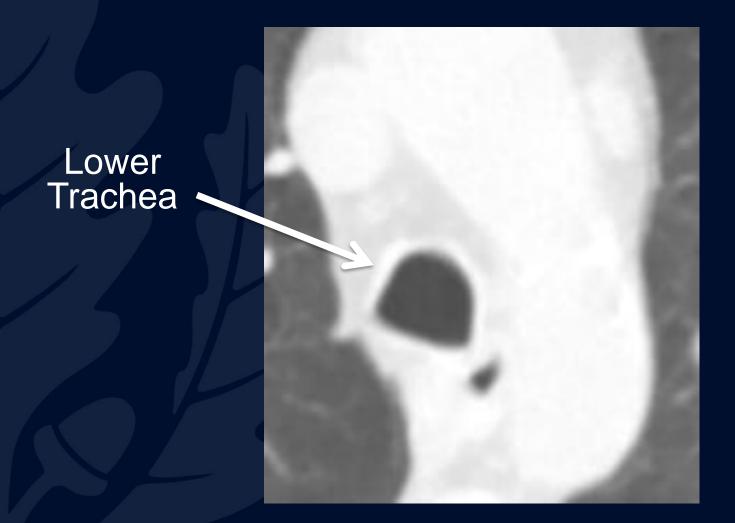
59 y/o F with wheezing

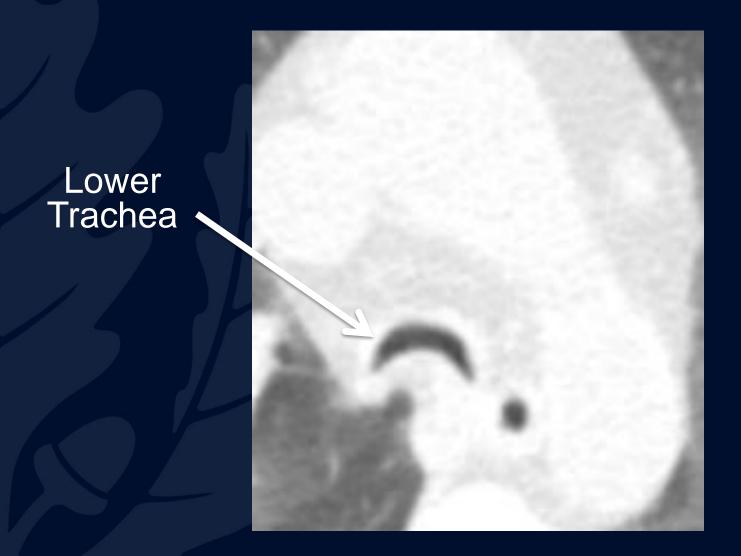
Atul Kumar, MD, MS





Axial Inspiratory CT





Axial Dynamic Expiratory CT

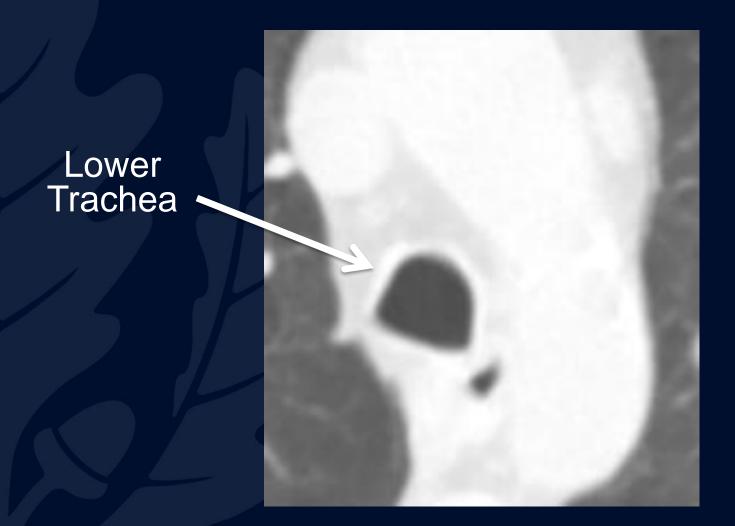






Tracheobronchomalacia





Axial CT





Axial Dynamic Expiratory CT



Tracheobronchomalacia

- Increased compliance and compressibility of trachea and bronchi
- Symptoms:
 - Wheeze
 - Cough
 - Dyspnea
 - Shortness of breath
 - Recurrent respiratory infections
- Caused by cartilaginous weakening or hypotonia of posterior membranous trachea
- Use combination of inspiratory and dynamic expiratory CT scan to diagnose
 - Frown sign: seen in dynamic expiration as tracheal collapse
 - Decrease in cross sectional area of trachea of at least 50%
 - Some literature quotes at least 70% decrease in cross sectional area

