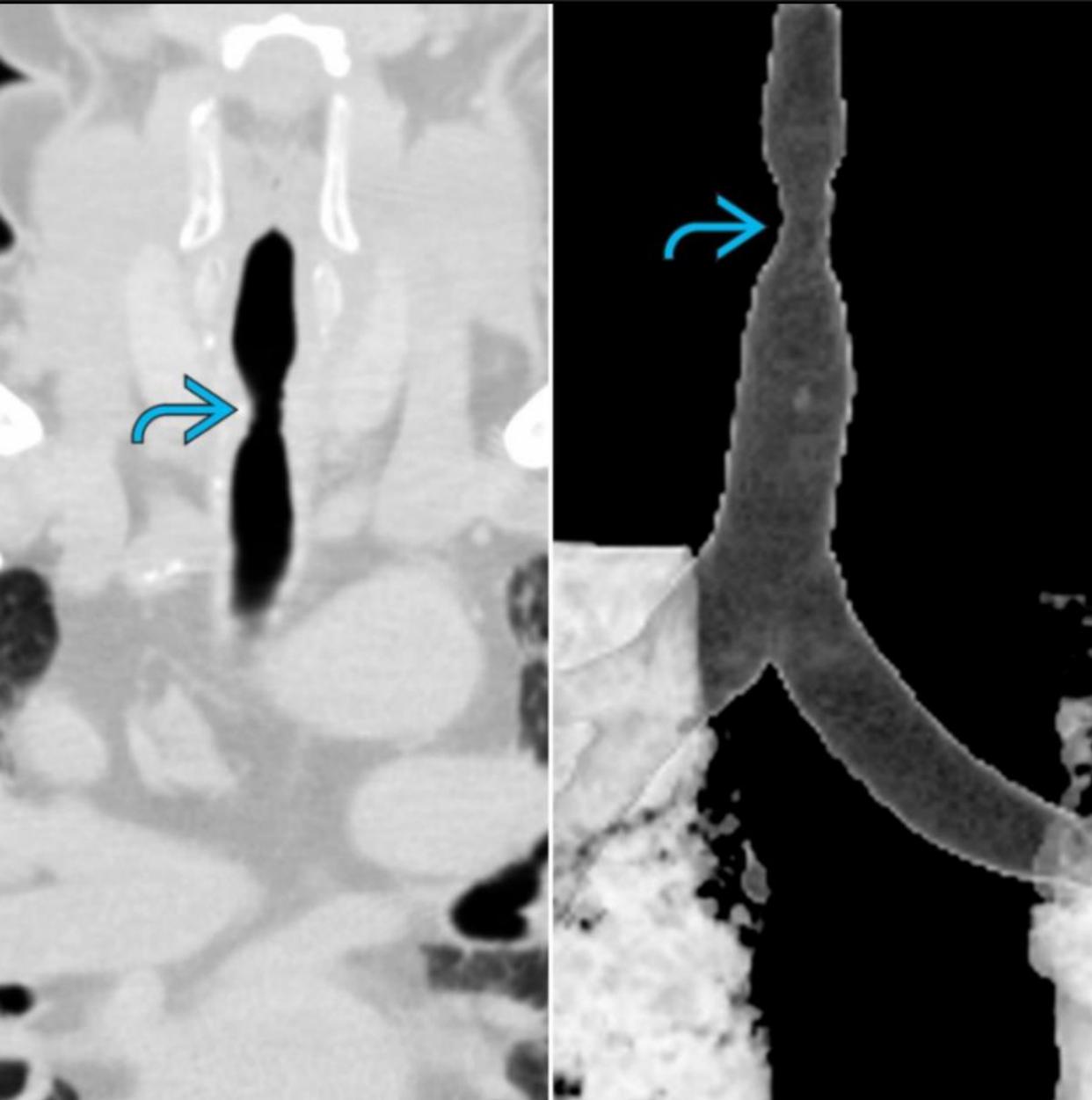


# Tracheal Stenosis

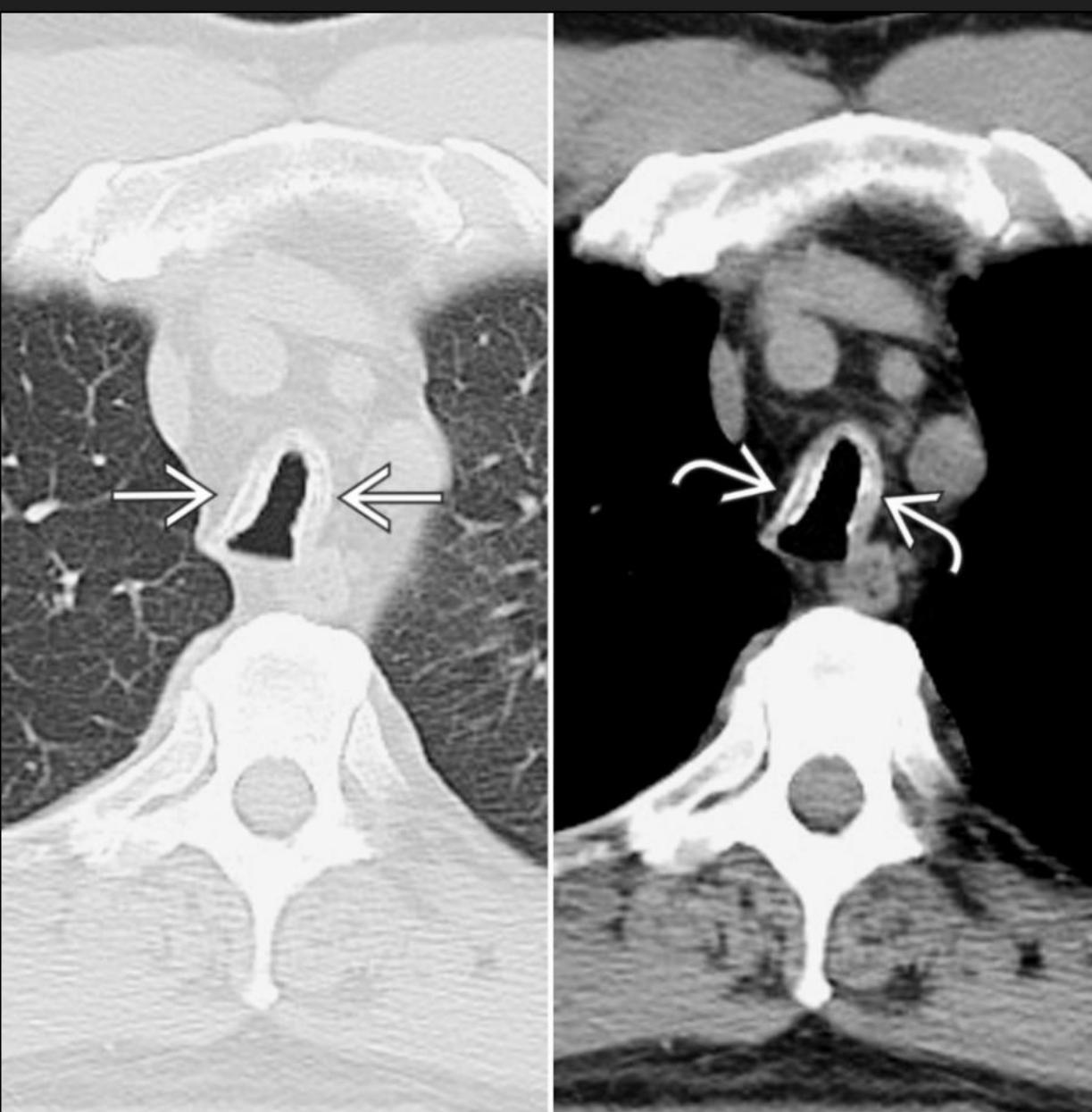
- Usually acquired following intubation or tracheostomy. It can also arise as part of the spectrum of tracheobronchial stenosis.
- The stenosis is typically 1.5-2.5 cm in length. In patients with chronic stricture, tracheomalacia may result from weakness of tracheal cartilage and can be a cause of dyspnea

# Staging, Grading, & Classification

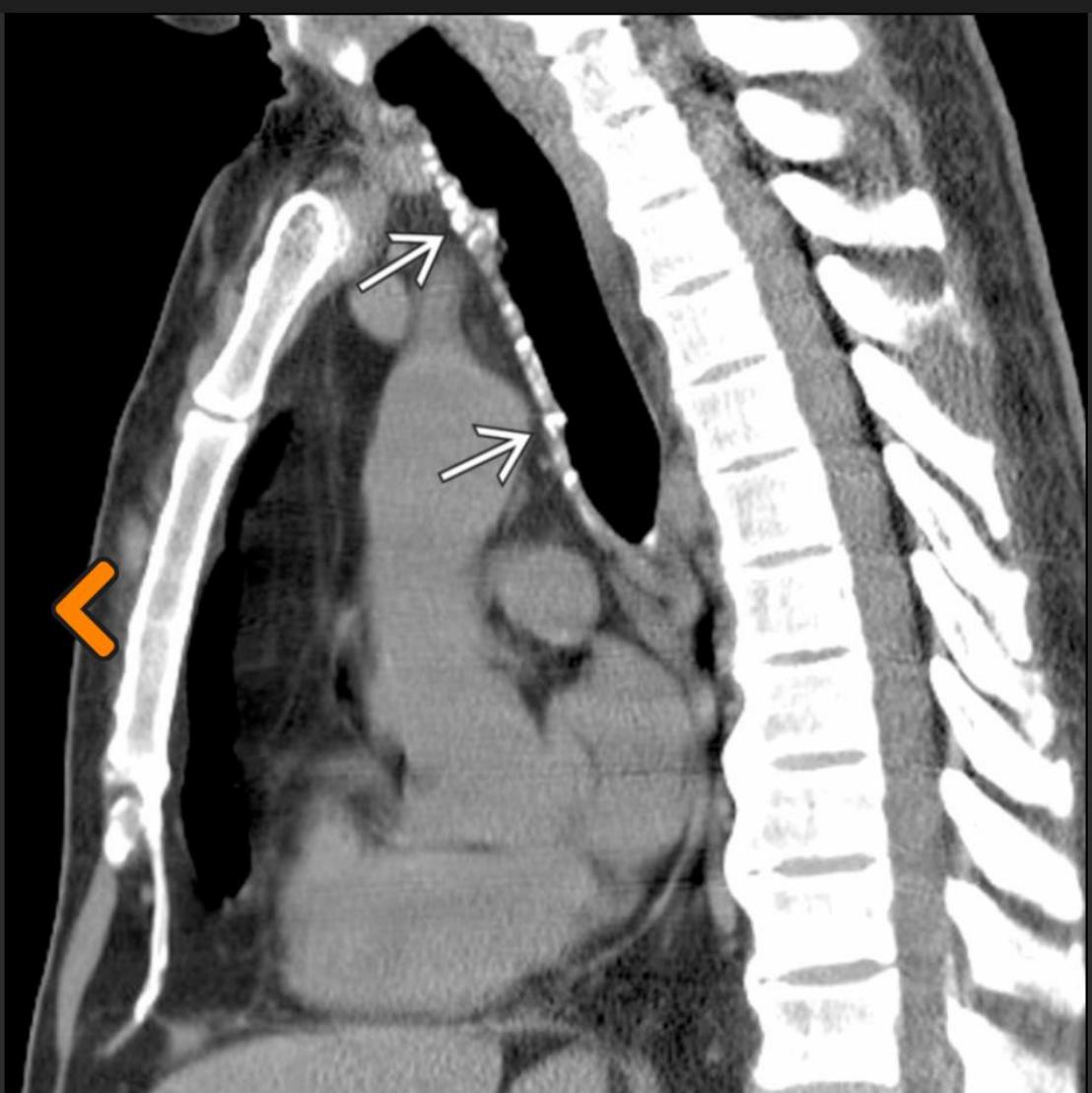
- Trachea divided into upper, mid, and lower 1/3
- Degree of cross-sectional narrowing reported
  - $\leq 25\%$ , 26-50%, 51-75%, 76-90%,  $> 90\%$
- Transition (abrupt or tapered) clinically relevant



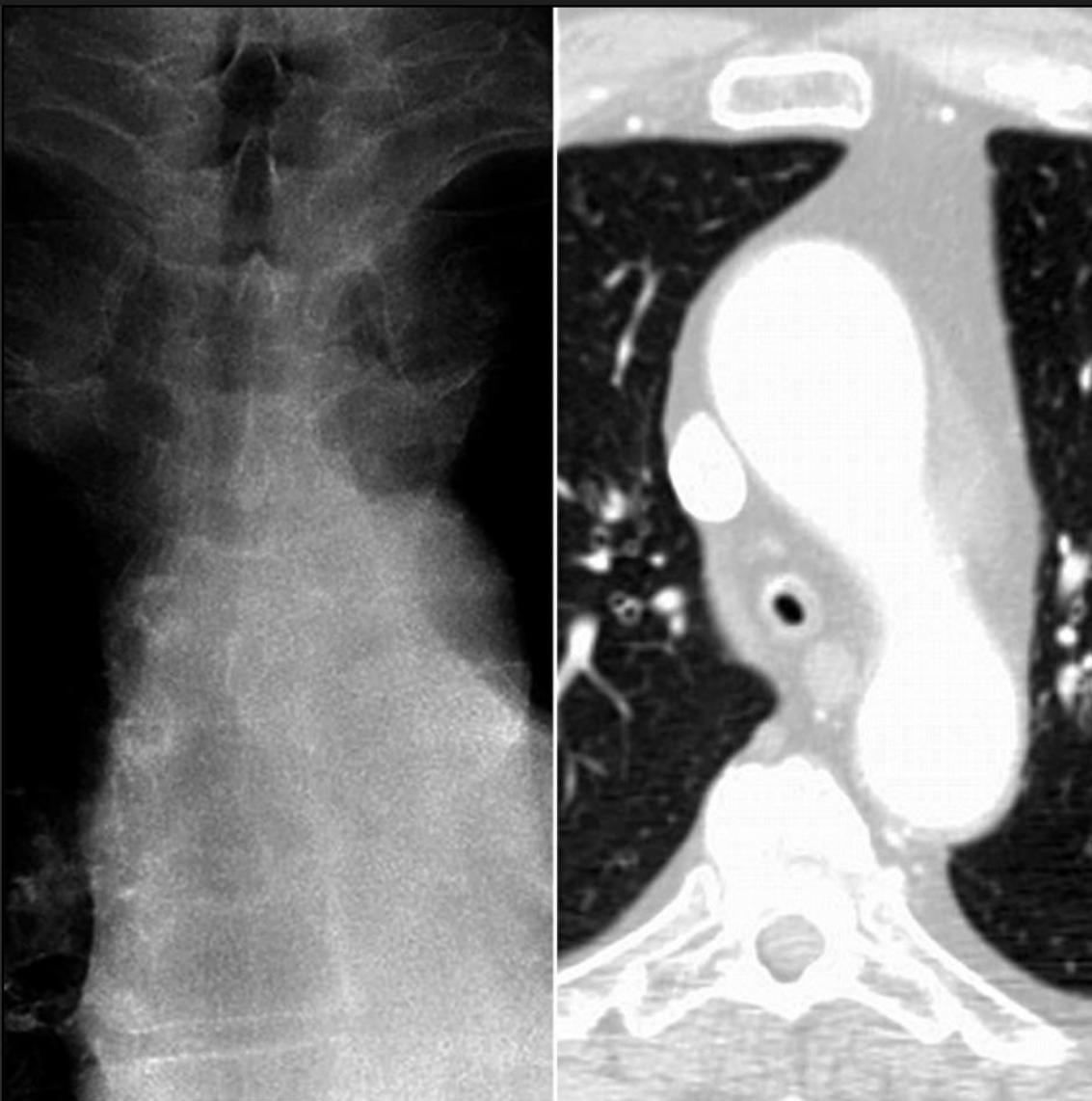
Composite image with coronal NECT (left) and volume-rendered CT reformation (right) of a patient with postintubation tracheal stenosis shows focal hourglass-shaped tracheal narrowing →. Location, severity, and transition margins are important descriptors for classification and clinical management. (Used with permission from AIRP.)



Composite image with axial NECT in lung (left) and soft tissue (right) window of a patient with tracheal stenosis due to tracheobronchopathia osteochondroplastica shows anterolateral mural thickening → and nodular calcifications ↗ that spare the posterior membranous trachea. (Used with permission from AIRP.)



Sagittal NECT of a patient with tracheal stenosis secondary to tracheobronchopathia osteochondroplastica shows characteristic diffuse anterior tracheal wall thickening and nodular calcifications → that spare the posterior trachea. (Used with permission from AIRP.)



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Composite image with PA chest radiograph (left) and axial CECT (right) of a 67-year-old man with relapsing polychondritis shows diffuse, severe tracheal stenosis. Expiratory-phase imaging may be used to evaluate for associated tracheomalacia.