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Atlas of Critical Care









Yatin Mehta
Jeetendra Sharma

Forewords
Jean-Louis Vincent
Naresh Trehan
Shirish Prayag

JAYPEE

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Section 2

Respiratory System

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CHAPTER 3

Bronchoscopic View and Clinical Features

GC Khilnani, Pawan Tiwari, Saurabh Mittal

BRONCHOSCOPIC VIEW OF NORMAL ANATOMY (FIGS. 1 TO 20)

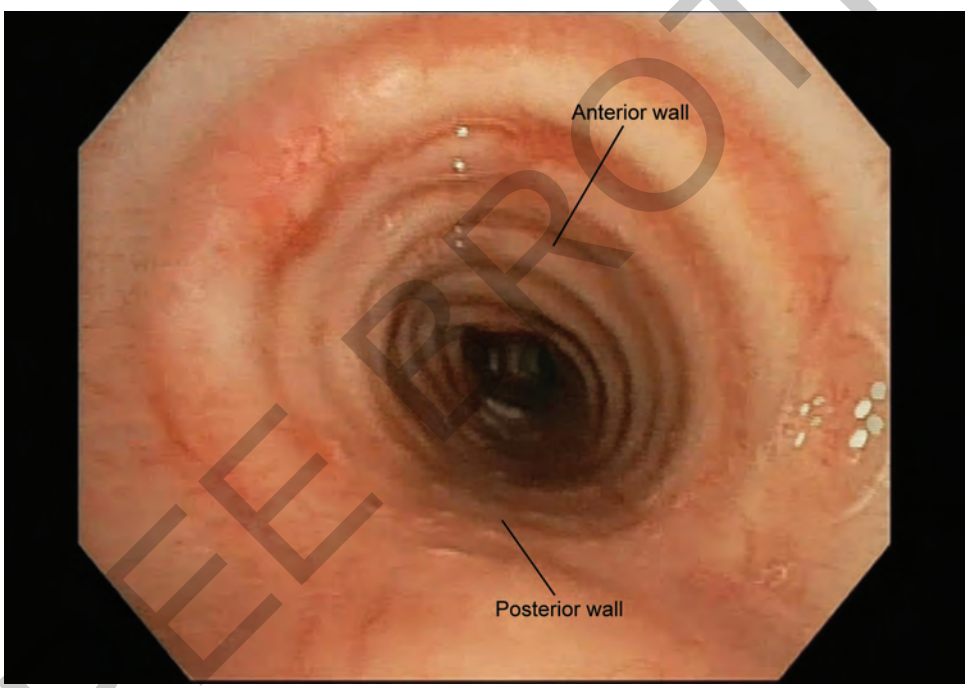


Fig. 1: Normal trachea.

- C-shaped cartilaginous rings in anterolateral wall.
- Membranous posterior wall.

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Lower Trachea showing Carina, Left and Right Main Bronchi (Fig. 2)

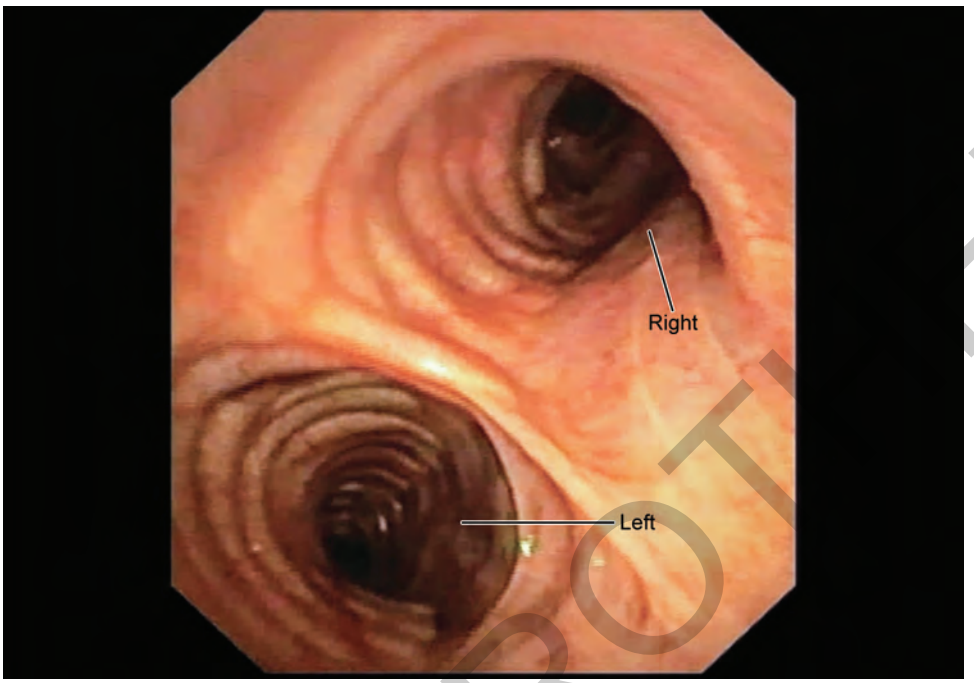


Fig. 2: Carina and both main bronchi.

Right Upper Lobe Bronchus dividing into Anterior, Apical and Lateral Segments (Fig. 3)

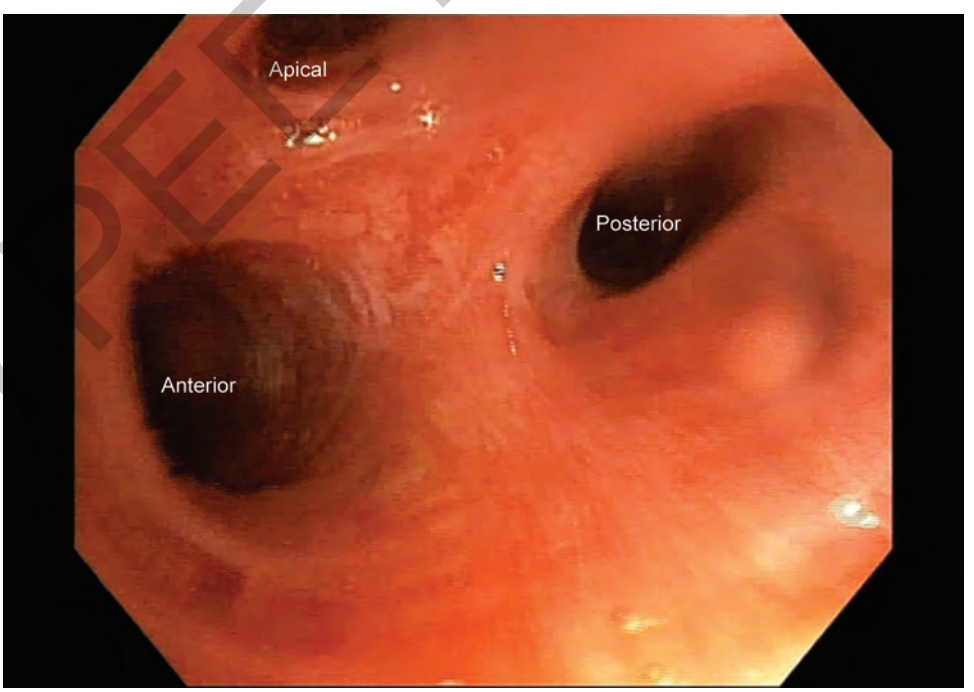


Fig. 3: Normal right upper lobe bronchus with anterior, apical and posterior segmental openings.

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Lower Bronchus Intermedius showing Right Middle Lobe Bronchus, Right Lower Lobe Bronchus and Right Lower Lobe Apical Segment Bronchus (Fig. 4)

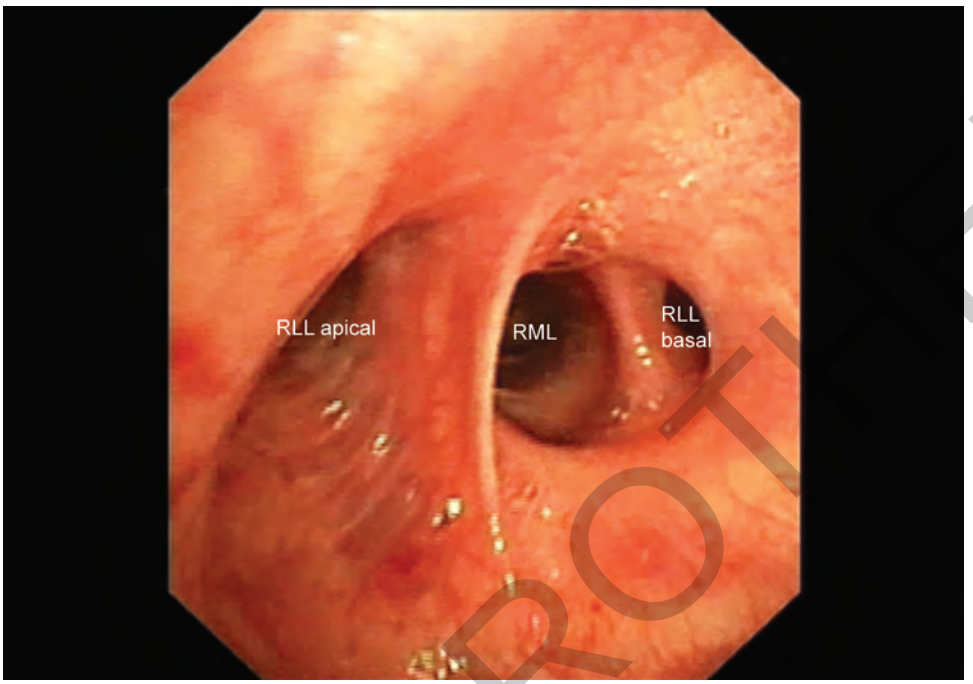


Fig. 4: Bronchus intermedius with RML RLL apical and RLL basal segments. (RML: Right middle lobe; RLL: Right lower lobe)

Right Middle Lobe Bronchus showing Medial and Lateral Segments (Fig. 5)

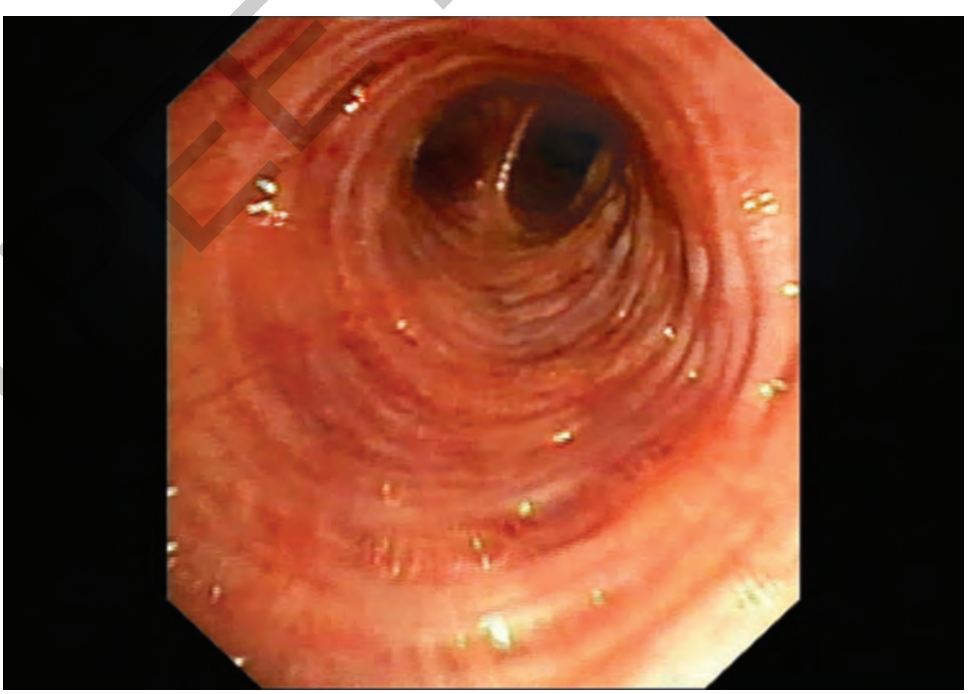


Fig. 5: Right middle lobe (RML) with segmental bronchi.

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Right Lower Lobe Basal Segments with Anterior, Lateral and Posterior Basal Segmental Openings (Fig. 6)

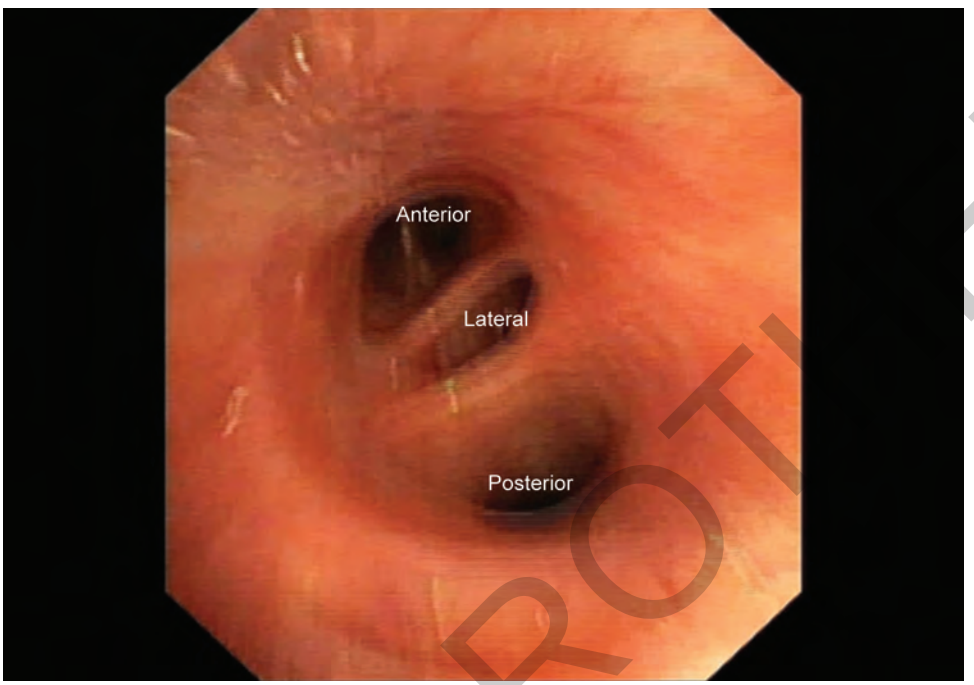


Fig. 6: Right lower lobe (RLL) with anterior, lateral and posterior (ALP) basal segmental openings.

Distal Left Main Bronchus dividing into Left Upper and Lower Lobe Bronchi (Fig. 7)

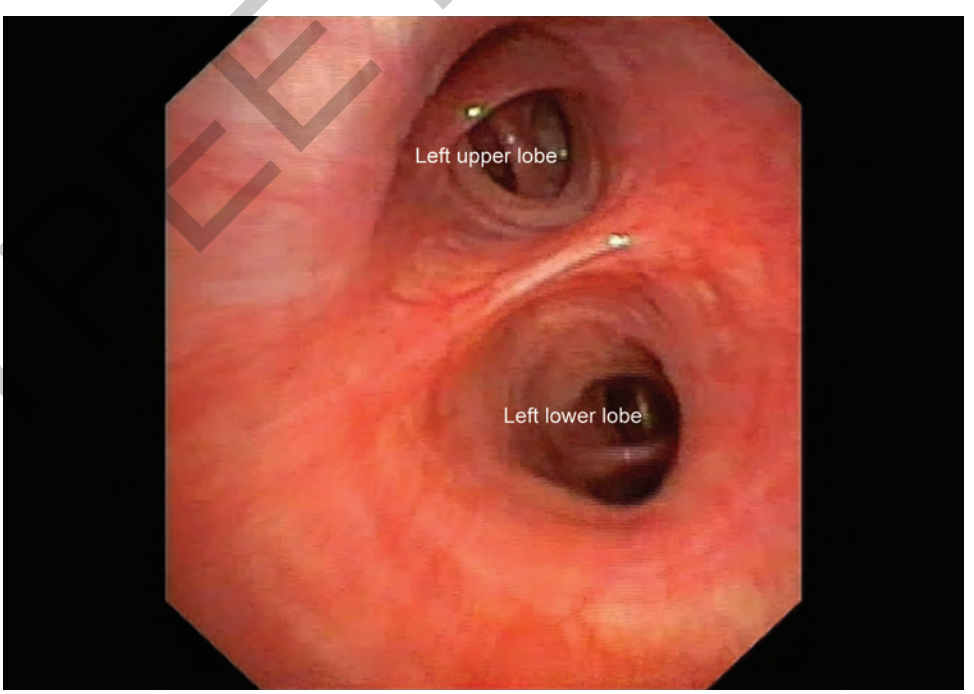


Fig. 7: Distal left main bronchus (LMB) with upper and lower lobe bronchus.

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Left Lower Lobe Bronchus with Left Lower Lobe Apical Segment and Left Lower Lobe Basal Segments (Fig. 8)



Fig. 8: Left lower lobe (LLL) bronchus with LLL apical and basal segments.

Left Lower Lobe Basal Segments: Anterior, Lateral and Posterior (Fig. 9)

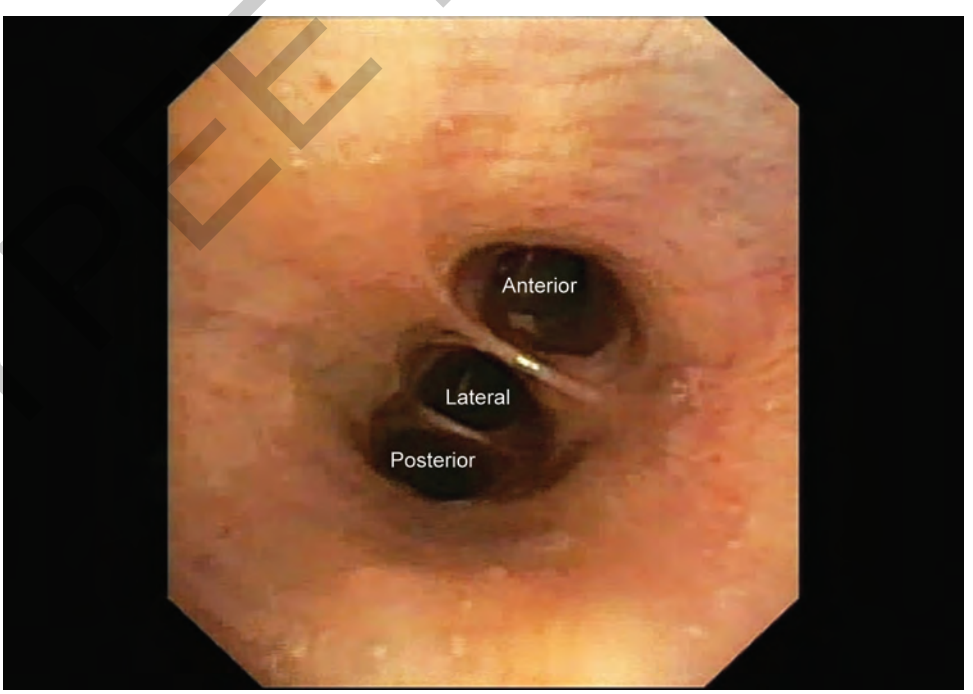


Fig. 9: Left lower lobe (LLL) basal segments anterior, lateral and posterior (ALP).

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Left Main Bronchus Mucous Plug in a Patient with Left Lung Collapse (Fig. 10)

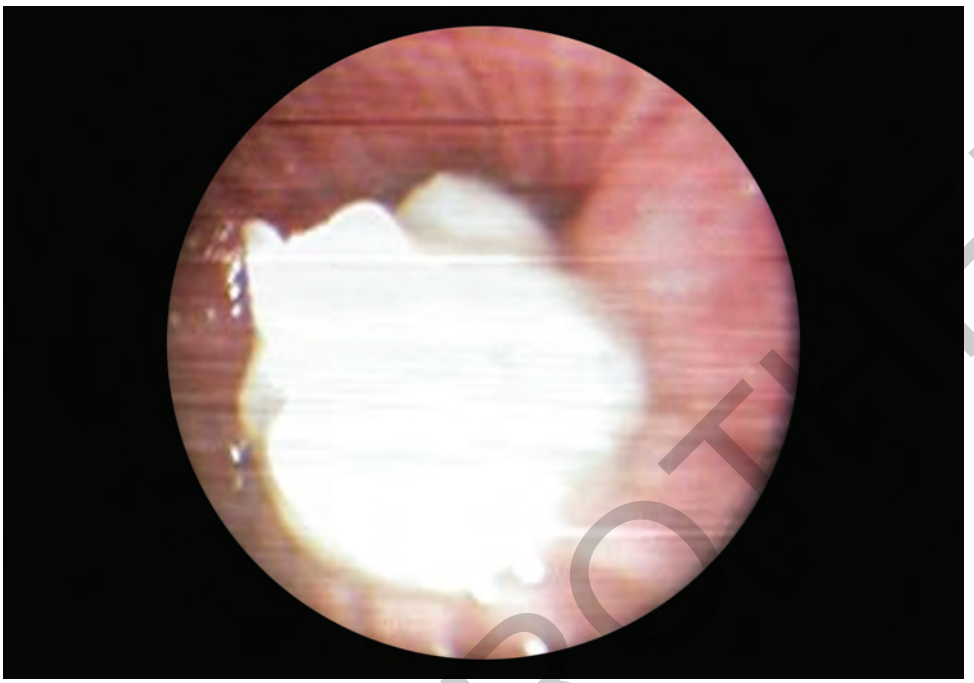


Fig. 10: Left main bronchus (LMB) thick mucous plug.

Endobronchial Mass Completely Occluding Right Main Bronchus (Fig. 11)

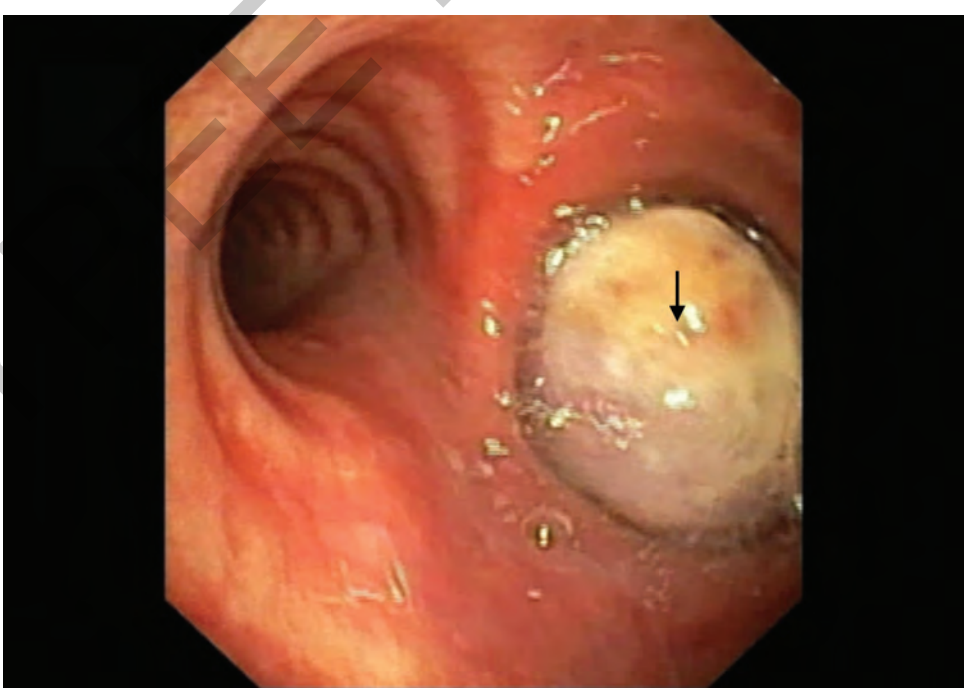


Fig. 11: Endobronchial mass in right main bronchus.

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Extrinsic Compression of Posterior Tracheal Wall in a Patient with Esophageal Carcinoma (Fig. 12)

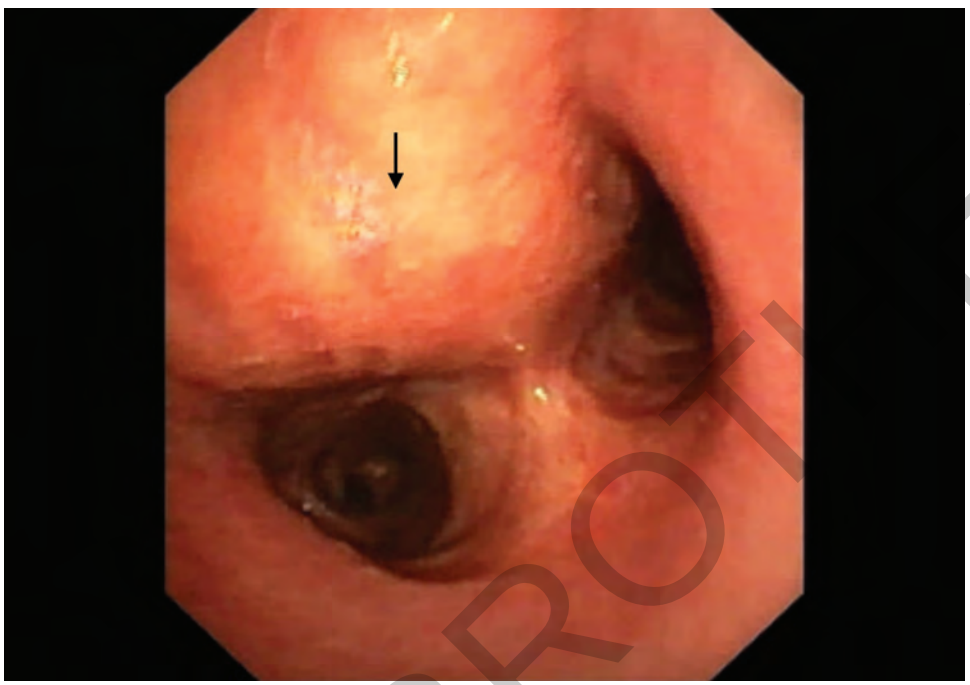


Fig. 12: Posterior tracheal compression (Carcinoma: esophagus).

Right Lower Lobe Basal Segment with Sharp Foreign Body (Board Pin) (Fig. 13)

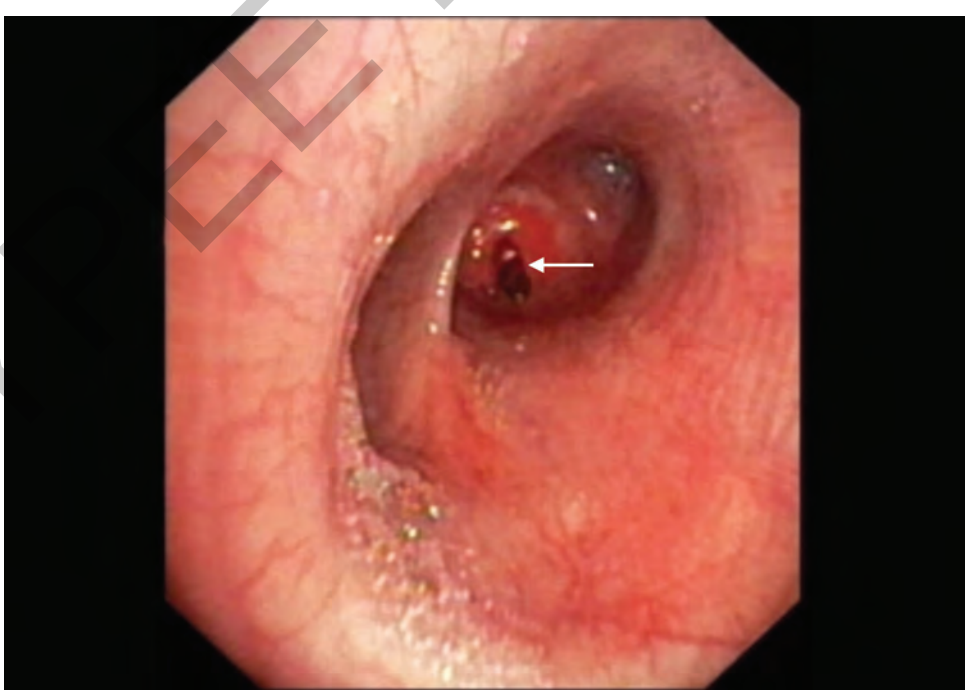


Fig. 13: Foreign body (Pin).

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Tracheoesophageal Fistula Near Carina in a Patient with Carcinoma Esophagus (Fig. 14)

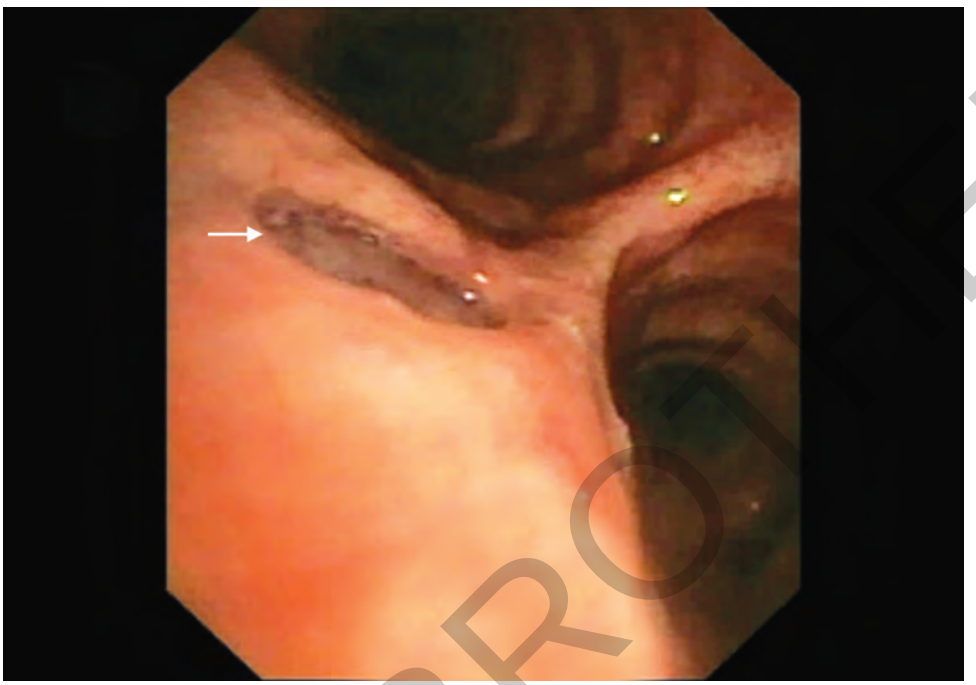


Fig. 14: Tracheoesophageal fistula.

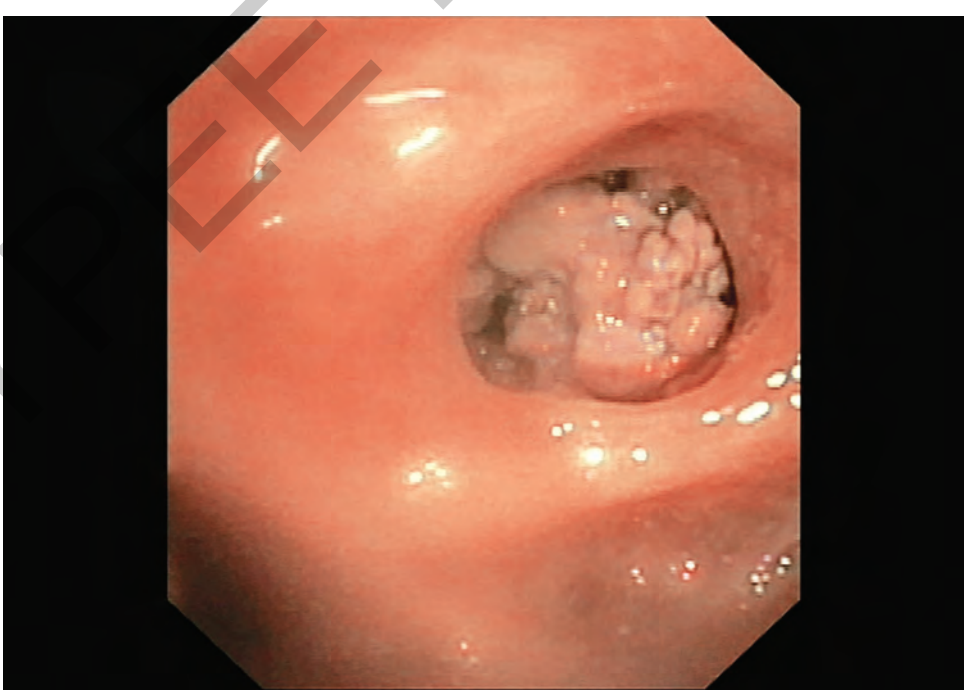


Fig. 15: Left upper lobe anteroinferior segment cavity with aspergilloma.

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Bronchoscopic View of Blue Rhinotracheal Dilator during Percutaneous Tracheostomy (Fig. 16)

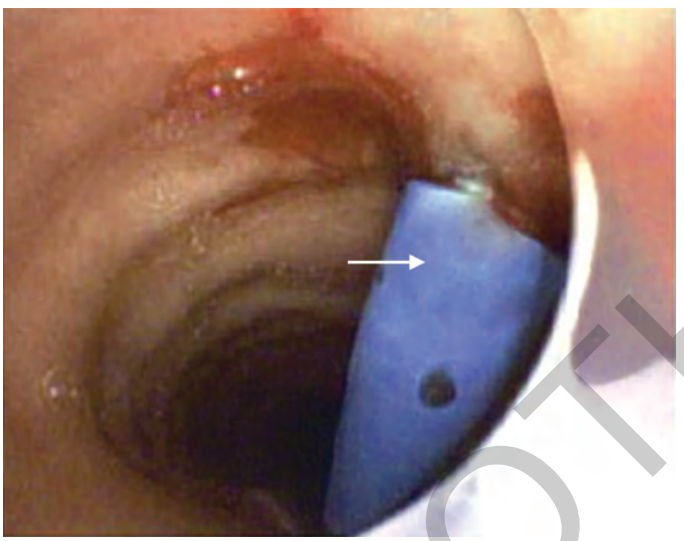


Fig. 16: Tracheostomy dilator bronchoscopic view.

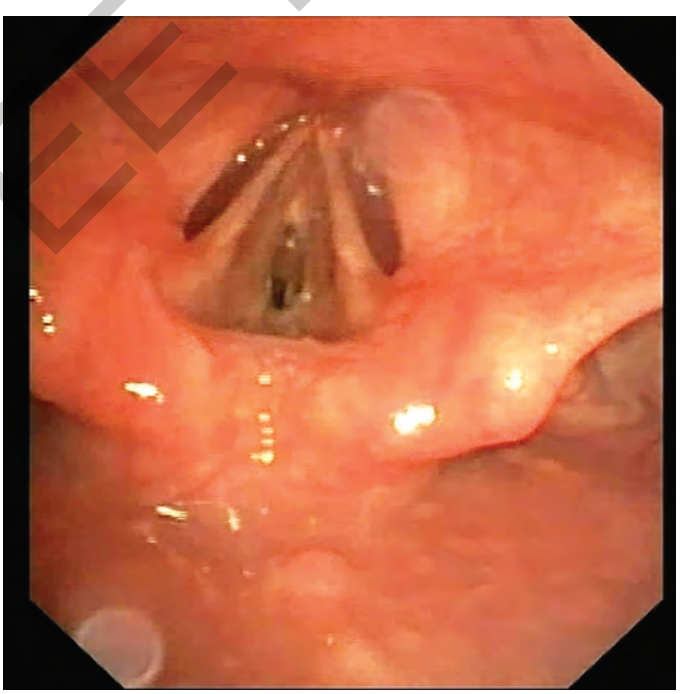


Fig. 17: Subglottic tracheal stenosis.

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Endobronchial Mass with Necrotic Surface and Active Bleeding (Fig. 18)

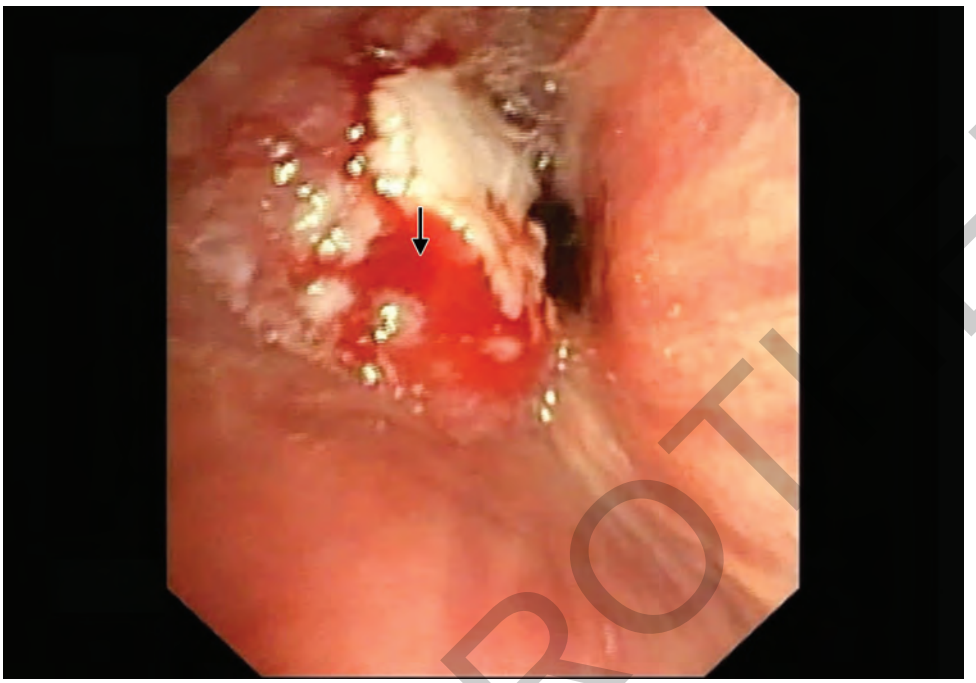


Fig. 18: Endobronchial lesion with active bleeding preargon photocoagulation.

Covered Self-expanding Metallic Tracheal Stent *in situ* in a Patient with Tracheal Carcinoma (Fig. 19)

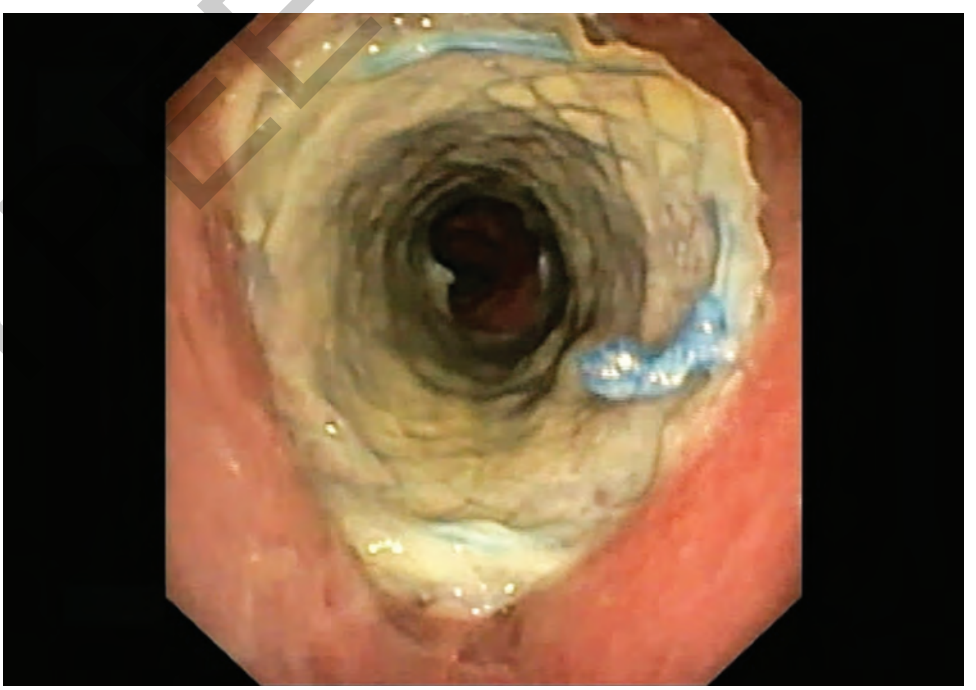


Fig. 19: Tracheal self-expanding metallic tracheal stent (SEMS) postdeployment proximal view.

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Tracheal Silicon Stent *in situ* with Proximal Granulation Tissue in a Patient with Postintubation Tracheal Stenosis (Fig. 20)

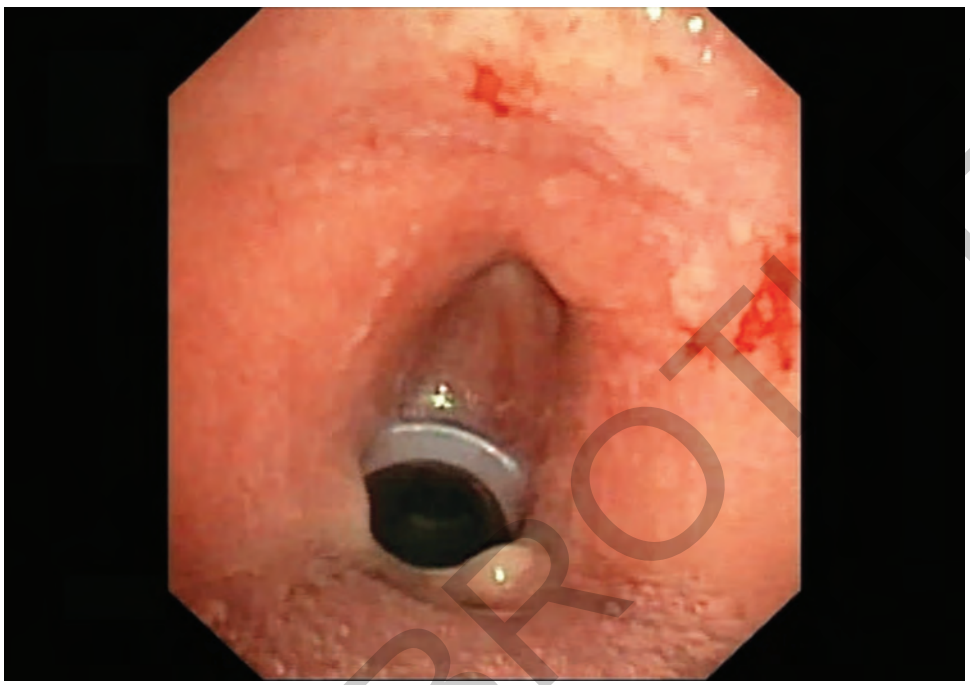


Fig. 20: Tracheal silicon stent with proximal granulation.

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Atlas of
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Salient Features

- Consists of 8 sections which are further divided into chapters according to different domains of sections contributed by separate author(s). All major specialties related to critical care are covered in initial seven sections and last section covers rest of specialties and miscellaneous images
- Includes the images of various radiological studies relevant to critically ill patients that would be of immense help for clinicians to enhance their diagnostic capabilities
- Images of equipment and infrastructure of specialties other than critical care can play a significant role in multidisciplinary approach
- Improves the understanding of certain disease processes by histopathology and microscopic images for critical care physicians
- Facilitates the understanding of laboratory aspect for diagnosing infections in intensive care unit (ICU) by the images from microbiological section
- A must for any modern ICU and exam-going students.

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