



***SNS COLLEGE OF ALLIED HEALTH SCIENCES
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AFFILIATED TO Dr MGR UNIVERSITY, CHENNAI***

***DEPARTMENT OF OPERATION THEATRE AND
ANAESTHESIA TECHNOLOGY***

3rd YEAR

SUBJECT: Principles of Anaesthesia II

***TOPIC: Preparing theatre for thoracic
anaesthesia***



- Select Appropriate Tube
- Choose based on patient's height and gender
(e.g., 35–41 Fr for adults)
- Left-sided DLT preferred for most procedures



Equipment Preparation

- Double Lumen Tube (DLT)
- Stylet (inserted into bronchial lumen)
- Lubricant
- 10 mL syringes $\times$ 2 (for cuff inflation)
- Clamp (e.g., bronchial clamp)
- Fibreoptic bronchoscope (FOB)
- Suction catheters
- Airway securing materials (tape, tube holder)



Pre-insertion Checks

- Inflate both cuffs (tracheal & bronchial) to check for leaks
- Deflate completely before insertion
- Confirm patency of both lumens
- Lubricate the tube adequately



Insertion Technique

- Position patient in sniffing position
- Insert DLT with bronchial lumen anterior
- Rotate 90° towards intended bronchus when tip passes vocal cords
- Advance gently until resistance



Position Confirmation

- Inflate tracheal cuff first, then bronchial cuff
- Use fiberoptic bronchoscopy to confirm:
- Placement of bronchial lumen in correct main bronchus
- Check tracheal and bronchial lumens for proper alignment

Securing the Tube

- Fix tube firmly with adhesive tape
- Reconfirm position after any patient repositioning (especially lateral)



Ventilation Setup

- Connect appropriate limbs of circuit to tracheal & bronchial ports
- Clamp and ventilate one lung to confirm correct isolation
- Use OLV protocols as per surgery



THANK YOU