

Foreign Body Bronchus- Few experiences at TUTH.

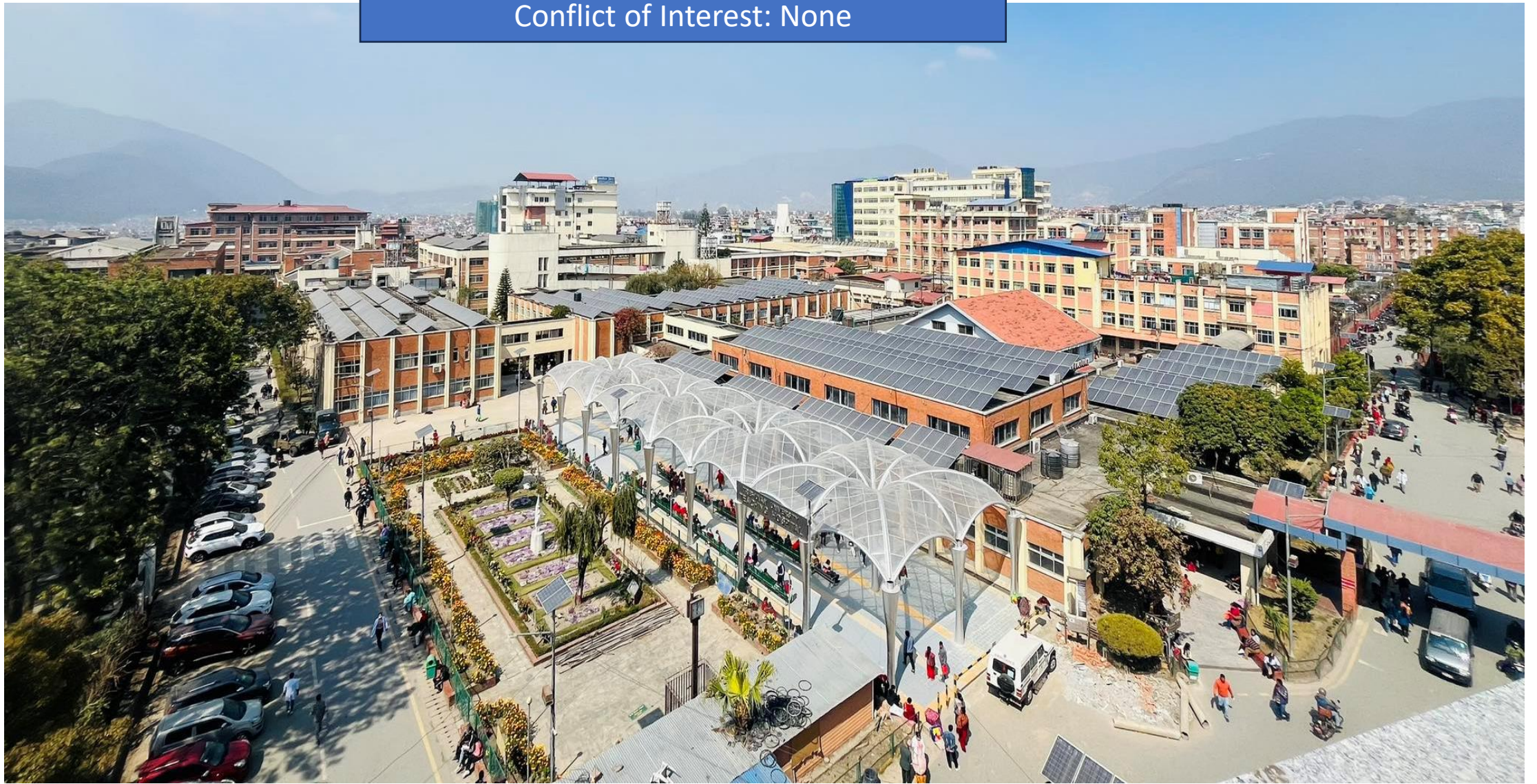
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General Secretary

Society of Anesthesiologists of Nepal (SAN)

Conflict of Interest: None



Tribhuvan University Teaching Hospital

6 years male



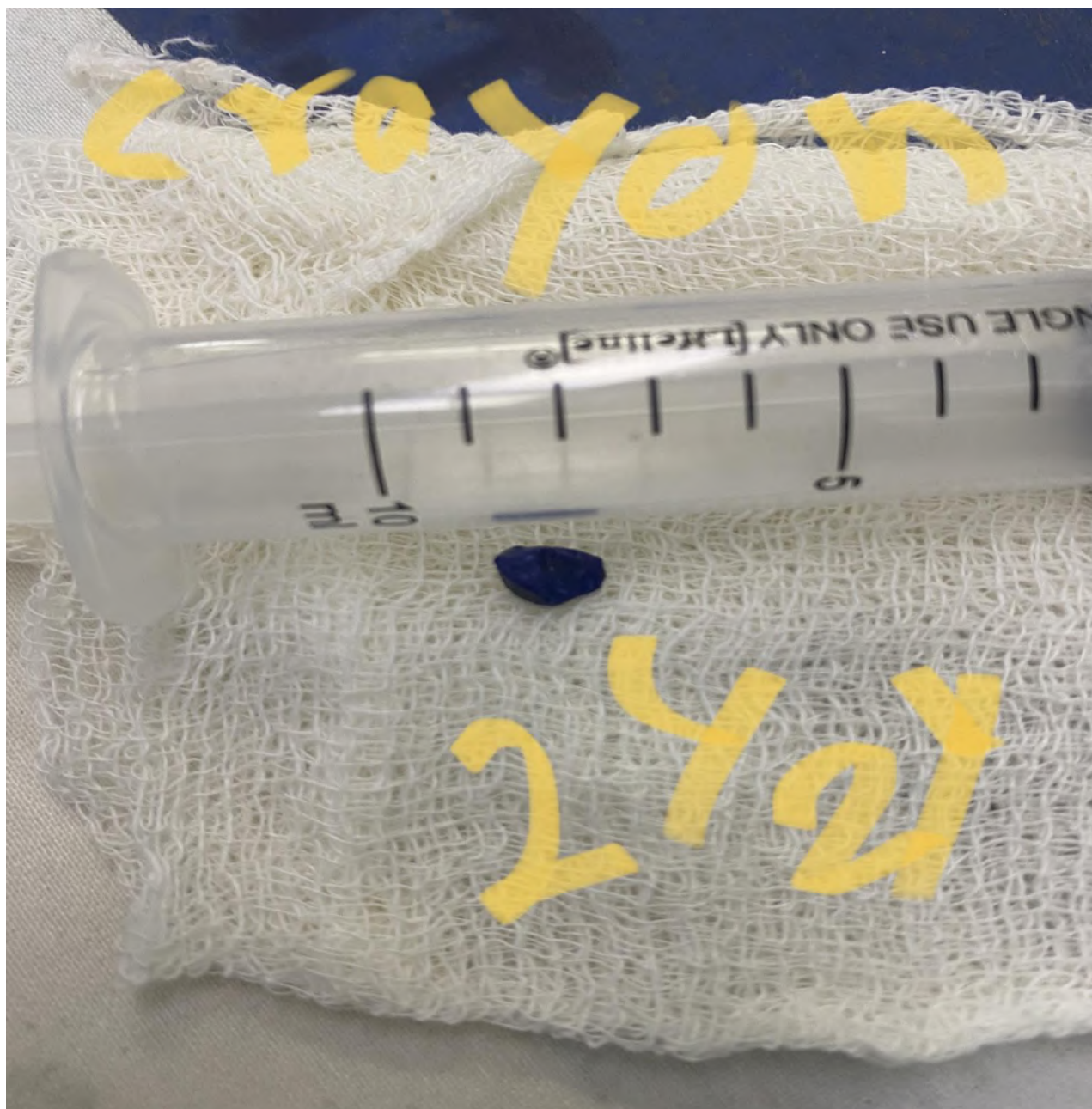


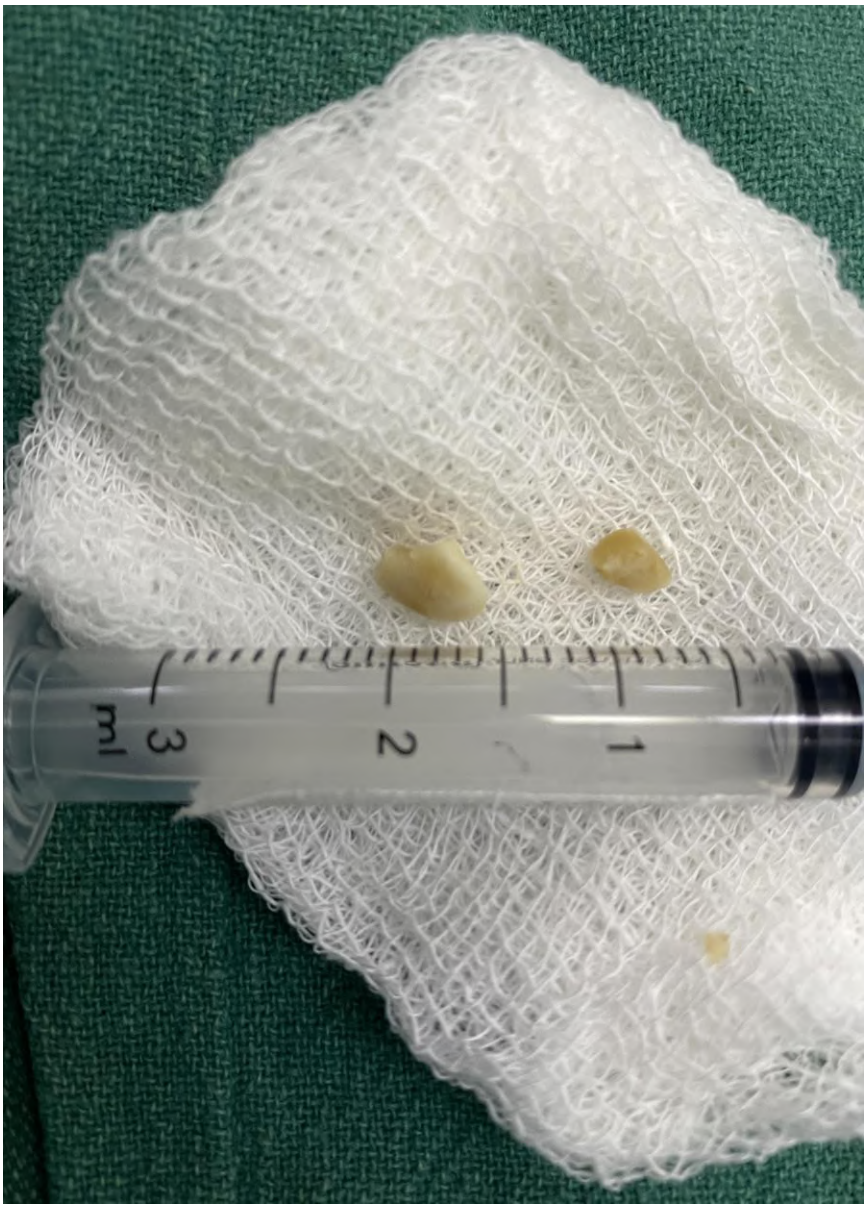


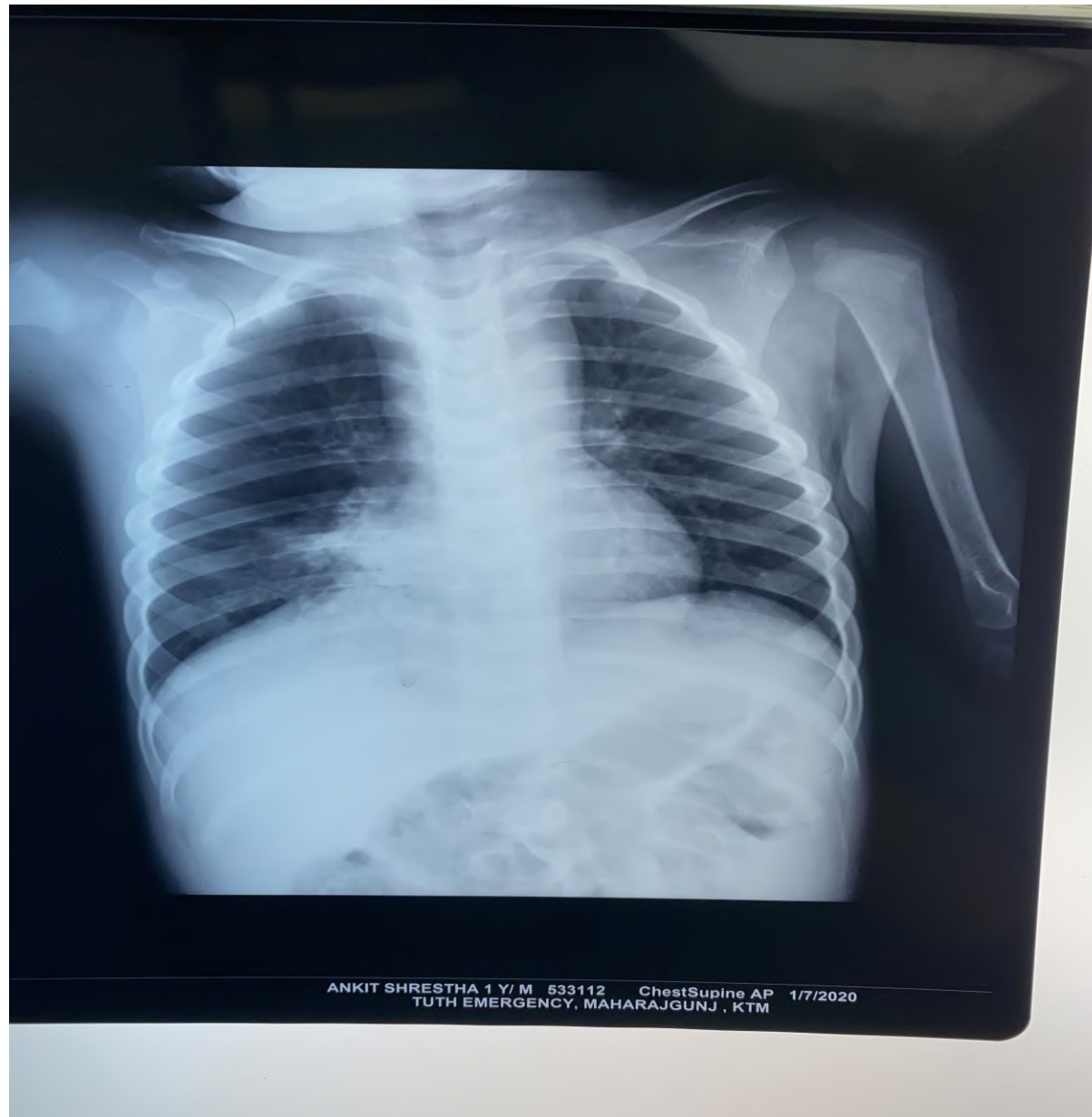
A stone











- 2 years
- 4 days
- Witnessed ingestion
- Cough
- Vomiting



Removed by dermia basket on 4th attempt



Bead of Necklace



CASE 2

- 6 years
- 16 kg
- 10 days
- Witnessed
Pencap
- Cough, vomiting
- 92% Saturation
- Tachycardic



- Multiple attempts
- Desaturation
- Atropine and Adrenaline
- Difficult to bag mask
- Bronchoscopy dropped to other side
- Well ventilated
- Abandoned
- Later thoracotomy

- 6 months
- Referred from out of valley
- 5 days
- Cough, stridor
- Bubble CPAP with Oxygen
- NPL- FB at subglottis

Pencil dirt



Foreign body Bronchus cases details

- Seasonal
- No specific pattern of distribution of patients
- Around 30 per year
- Male> Female (5:1)
- 10 months to 5 years
- Witnessed – almost 50 % cases
- Types
 - Organic – 50% (Peanut> Maize> Coconut> Almond)
 - Inorganic-50% (whistle> Pen cap >Necklace bead > Metallic pin/Safety pin)

Premedication:

- Hydrocortisone: 5 mg/kg
- Glycopyrrolate: 0.01mg/kg

Conduction of Anesthesia

Induction

- IV -Propofol
- Gaseous- Previous Halothane
now sevoflurane

Muscle Relaxant

- Succinylcholine
- Vecuronium
- Now can switch to Rocuronium
due to availability of Sugamadex

Methods of Ventilation

1. Apneic Oxygenation

- Oxygen insufflation
- Manual Jet Ventilation – Previously
- Modified Jet Ventilation

2. Positive Pressure Ventilation

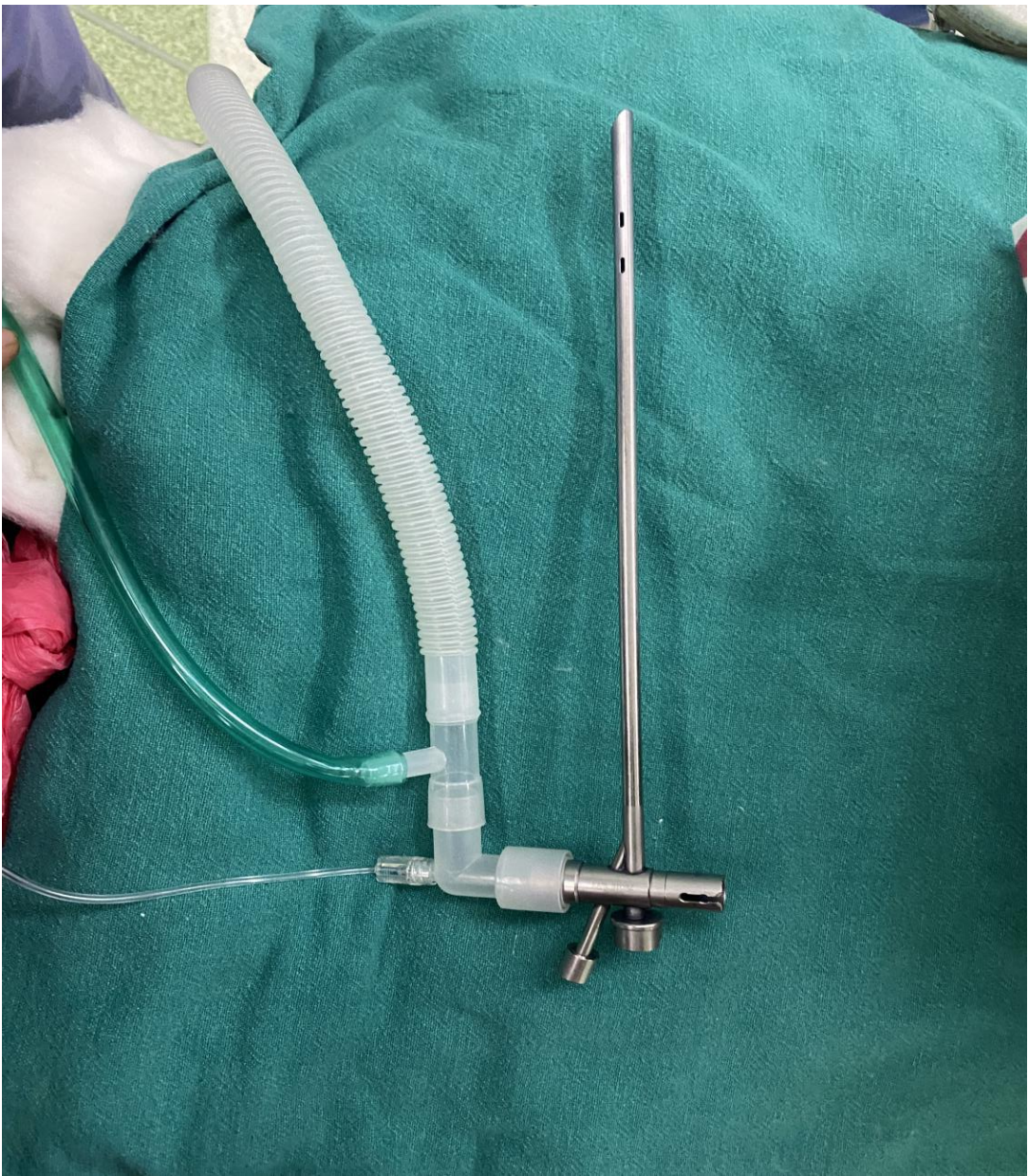
Side port by Jackson Rees circuit

3. Spontaneous
ventilation

4. High frequency Jet
Ventilation



Manual Jet Ventilation



Maintenance

- Propofol infusion/ intermittent bolus
- Midazolam
- Side port → Inhalational agent → Isoflurane
- Vecuronium



MONITOR



After retrieval of FB bronchus

- Ventilate with appropriate/smaller size endotracheal tube
- Recruit lungs → atelectasis → PPV
- Extubate on table after
 - Discuss with ENT surgeon
 - Ruling out Bleeding/ Airway injury / edema of airway
- Send to Pediatric ICU
 - Perform cuff leak test
 - Extubate gradually

If FB can't be retrieved

- Next setting → Thoracotomy backup
- Few cases thoracotomy at Cardio-vascular Thoracic Centre in the same premises

Few cases:

- FB removed by tracheostomy with ETT pulled up → Size of FB bigger than Vocal cord
- FB Dropped down to distal bronchus and removed after thoracotomy

The number of cases are going down at our institute

- Decentralized
- Probably incidence of Foreign body gone down
 - Education
 - Information at national newspaper
 - Social media

Challenges:

- Equipment → Smaller size Bronchoscope
- Jet ventilation
 - Manual
 - High Frequency
- Investigation – CT scan
- Registry



24th Annual Conference of the Society of Anaesthesiologists of Nepal (SANCON 2025)

&

21st Meeting of the Asian Society of Paediatric Anaesthesiologists (ASPA 2025)

"Scaling New Heights in Pediatric Anesthesia and Beyond"

Date: 4th - 5th April, 2025
Venue: Hyatt Regency Kathmandu, Nepal



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SANCON-ASPA 2025