Assessed for eligibility (n=251)

- Not met inclusion criteria (n=181)
  - Aged < 20 y/o: 28
  - Difficult airway: 13
  - Patient declined: 10
  - ICU Case: 25
  - Conscious unclear: 15
  - Loss explanation or patient: 90

Invited patient (n=70)

**TOC Group** (n=35)
- Received allocated to the tracheal lumen-covered

**TOE Group** (n=35)
- Received allocated to tracheal lumen-exposed

- Patient Withdrawn: (n=0)

**Clinical assessment**

<table>
<thead>
<tr>
<th>Demographic information</th>
<th>Intubation condition</th>
<th>Post intubation</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Age, Gender, BMI, ASA</em></td>
<td><em>Intubating time interval</em></td>
<td><em>Side effects: (Hoarseness, Sore throat, Odynophagia)</em></td>
</tr>
<tr>
<td><em>Upper Airway Characteristics</em></td>
<td><em>Intubation attempts &amp; B URP Maneuver</em></td>
<td></td>
</tr>
<tr>
<td><em>Duration of tracheal operation time</em></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Anesthesia induction**

Fentanyl 2µg/kg + Thiamylal 5 mg/kg + Cisatracurium 0.15 mg/kg + Propofol 1 mg/kg

Discontinued intervention (n=2)
- Duration of surgery time > 6 hrs (n=2)

No patient loss follow-up except 2 duration of surgery time > 6 hrs

Complete data analysis (n=33)

Discontinued intervention (n=2)
- Duration of surgery time > 6 hrs (n=2)

No patient loss follow-up except 2 duration of surgery time > 6 hrs

Complete data analysis (n=33)