**Endotracheal tubes**

- **RAE (Ring-Aldair-Elywn):**
  - for ENT, ophthalmic and neurosurgery.
  - So tube is directed away from operative field.

- **Oxford tube & RAE tube:**
  - Non-kinking Oxford tube with a right angle shape for difficult airway.

**Pilot balloon one-way valve**
- Pilot balloon - for ventilation.
- One-way valve - prevents backflow.

**Cuff**
- Murphy's eye - for easy insertion.
- Radio-opaque line - to assess exact location of tube.
- Indicator mark - to ascertain insertion depth.

**Intubation depth markings**
- 1 cm graduation markings to ascertain insertion depth.
- 2 cm indicator mark assists positioning of tube past the vocal cord.
- Latex free.

**Radio-opaque line**
- Full-length radio-opaque line to assess exact location of tube.
- 1 cm graduation markings to ascertain insertion depth.

**Cuff**
- Smooth tip aids atraumatic intubations.

**Parts**
- All tubes are fitted with 15 mm standard connector, which insures compatibility with circuit connectors.
- Smooth tip aids atraumatic intubations.
- Full-length radio-opaque line to assess exact location of tube.
- 1 cm graduation markings to ascertain insertion depth.
- 2 cm indicator mark assists positioning of tube past the vocal cord.
- Latex free.

**Materials**
- Non-toxic, clear, thermo sensitive siliconised PVC which gets soft when warm.

**Features**
- 35cm length, size is the internal diameter in mm.
- Angled tip - for easy insertion.
- Pilot balloon one-way valve - for ventilation.
- Pilot tube - for easy insertion.
- Connector - for compatibility.
- Intubation depth markings.

**Parts**
- All tubes are fitted with 15 mm standard connector, which insures compatibility with circuit connectors.
- Smooth tip aids atraumatic intubations.
- Full-length radio-opaque line to assess exact location of tube.
- 1 cm graduation markings to ascertain insertion depth.
- 2 cm indicator mark assists positioning of tube past the vocal cord.
- Latex free.

**Lasertube**
- Used in ENT laser surgery.
- Laser resistant coat.
- One or two cuff balloons (blocked with water).

**Edgartube**
- EDGAR tube, for endobronchial drug and gas application during resuscitation.

**Oxford tube & RAE tube**
- Non-kinking Oxford tube with a right angle shape for difficult airway.

**Paediatric cuff pressure**
- Above 18 mmHg to reduce aspiration.
- Below 25 mmHg to minimize the risk of pressure necrosis.
- Patients whose peak airway pressures exceed 48 cmH2O will require cuff pressures greater than 25 mmHg in order to avoid a cuff leak.

**Paediatric tube size**

<table>
<thead>
<tr>
<th>Body weight/age</th>
<th>Size (mm)</th>
<th>Oral depth (cm)</th>
<th>Nasal depth (cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Newly-born 3.5 kg</td>
<td>3.0</td>
<td>9</td>
<td>11-11.5</td>
</tr>
<tr>
<td>1-6 months 3.5</td>
<td>3.5</td>
<td>9.5-11</td>
<td>12-13</td>
</tr>
<tr>
<td>6-12 months 4.0</td>
<td>4.0</td>
<td>11.5-12</td>
<td>13-14</td>
</tr>
<tr>
<td>2-3 years 4.5</td>
<td>4.5</td>
<td>13-13</td>
<td>15-16</td>
</tr>
<tr>
<td>4-5 years 5.0</td>
<td>5.0</td>
<td>14-14</td>
<td>17-18</td>
</tr>
<tr>
<td>6-7 years 5.5</td>
<td>5.5</td>
<td>15-15.5</td>
<td>19</td>
</tr>
<tr>
<td>8-9 years 6.0</td>
<td>6.0</td>
<td>16-16</td>
<td>20</td>
</tr>
<tr>
<td>10-11 years 6.5</td>
<td>6.5</td>
<td>17-17</td>
<td>21</td>
</tr>
<tr>
<td>12-13 years 7.0</td>
<td>7.0</td>
<td>18-18</td>
<td>22</td>
</tr>
<tr>
<td>14-16 years 7.5</td>
<td>7.5</td>
<td>19</td>
<td>23</td>
</tr>
</tbody>
</table>

**Paediatric tube size**

<table>
<thead>
<tr>
<th>Birth weight (g)</th>
<th>Gestation (weeks)</th>
<th>Oral depth (cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>750 g</td>
<td>24-25</td>
<td>5.5-6.5</td>
</tr>
<tr>
<td>1,000 g</td>
<td>27</td>
<td>5.5</td>
</tr>
<tr>
<td>1,500 g</td>
<td>30-31</td>
<td>6</td>
</tr>
<tr>
<td>1,750 g</td>
<td>31-32</td>
<td>6.5-7.5</td>
</tr>
<tr>
<td>2,000 g</td>
<td>33</td>
<td>7</td>
</tr>
<tr>
<td>2,250 g</td>
<td>34-35</td>
<td>7.5-8</td>
</tr>
<tr>
<td>2,500 g</td>
<td>35-36</td>
<td>8</td>
</tr>
<tr>
<td>2,750 g</td>
<td>36-37</td>
<td>8-8.5</td>
</tr>
<tr>
<td>3,000 g</td>
<td>37-38</td>
<td>9</td>
</tr>
<tr>
<td>3,500 g</td>
<td>40</td>
<td>9</td>
</tr>
</tbody>
</table>

**ETT sizes:**
- BW <1 kg 2.5 mm; 1-3.5 kg 3.0 mm; >3.5 kg 3.5 mm

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**Reinforced Woodbridge tube**
- Tubes are made of silicone with an integral steel reinforcing wire.
- Used to provide a safe, kink-resistant airway regardless of head or neck position.
- Requires a bite blocker because biting can lead to tube blocking tube.

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