# Paediatric Airway Equipment and Medication Calculator

<table>
<thead>
<tr>
<th>Broselow Trolley</th>
<th>Drawer 2</th>
<th>Drawer 3</th>
<th>Drawer 4</th>
<th>Drawer 5</th>
<th>Drawer 6</th>
<th>Drawer 7</th>
<th>Drawer 8</th>
<th>Drawer 9</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Age</strong></td>
<td>0 mo</td>
<td>3 mo</td>
<td>6 mo</td>
<td>1 yo</td>
<td>2 yo</td>
<td>3 yo</td>
<td>4 yo</td>
<td>5 yo</td>
</tr>
<tr>
<td>WT (Kg)</td>
<td>3.5</td>
<td>6</td>
<td>8</td>
<td>10</td>
<td>12</td>
<td>14</td>
<td>16</td>
<td>20</td>
</tr>
<tr>
<td>ETT size (ID)</td>
<td>3.0 (Uncuffed)</td>
<td>3.0 (Cuffed)</td>
<td>3.5 (Cuffed)</td>
<td>4.0 (Cuffed)</td>
<td>4.0 (Cuffed)</td>
<td>4.5 (Cuffed)</td>
<td>4.5 (Cuffed)</td>
<td>5.0 (Cuffed)</td>
</tr>
<tr>
<td>ETT length (cm)</td>
<td>8.5</td>
<td>11</td>
<td>16</td>
<td>11</td>
<td>16</td>
<td>16</td>
<td>15</td>
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<tr>
<td>LMA</td>
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<td>8</td>
<td>16</td>
<td>16</td>
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<tr>
<td>NGT/OGT/IDC (Fr)</td>
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<td>8</td>
<td>8</td>
<td>8</td>
<td>16</td>
<td>16</td>
<td>18</td>
<td>18</td>
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<tr>
<td>ICC (Fr)</td>
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<td>20</td>
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<td>20</td>
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</tr>
<tr>
<td>Tidal Volume (ml)</td>
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<td>200</td>
<td>200</td>
<td>200</td>
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<tr>
<td>Respiratory Rate</td>
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<tr>
<td>Blade</td>
<td>Miller Straight 1</td>
<td>Miller Straight 2</td>
<td>Mac Curved 2</td>
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<tr>
<td>ETT ID (mm)</td>
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<tr>
<td>ETT length at lip (cm)</td>
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<tr>
<td>Respiratory Rate</td>
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</tbody>
</table>

### Atropine
20mcg/kg (200mcg/ml)
60mcg in 3ml SYR

### Fentanyl
2mcg/kg (200mcg/ml)
100mcg in 1ml SYR

### Morphine
0.1mg/kg (0.2mg/ml)
10mg in 1ml SYR

### Ketamine
2mg/kg (20mg/ml)
100mg in 1ml SYR

### Suxamethonium
2mg/kg (20mg/ml)
100mg in 1ml SYR

### Rocuronium
1.2mg/kg (12mg/ml)
50mg in 1ml SYR

### Adrenaline bolus
1mg/kg (100mcg/ml)
100mcg in 1ml SYR

### NS 0.5% Bolus
10ml

### Propofol
2mg/kg (10mg/ml)

## Infusions

### Morphine infusion
1mg/kg of Morphine in 50ml NS 0.9% at 10 – 40 mcg/kg/hr (20mcg/kg/hr = 1ml/hr at 0.5 – 2 ml/hr)

### Midazolam infusion
3mg/kg in 50ml NS 0.9% at 2 – 6 mcg/kg/min (1mcg/kg/min = 1ml/hr at 2 – 6 ml/hr)

### Adrenaline infusion
0.01mcg/kg = 1:1000 (1mcg/ml) in 50ml NS 0.9% at 0.05 – 0.5 mcg/kg/min (0.05 mcg/kg/min = 1ml/hr at 1 – 10 ml/hr)

*SYR: Syringe

**Disclaimer**: All doses based on APLS equations below. These are comparable with the NETs and SCH Emergency Paediatric Calculator doses, and equally valid.

Estimated weight <Sy = (Age x 2) + 8. Estimated weight >Sy = (Age in years x 3) + 7. Cuffed ETT ID (mm) = (Age in years / 4) + 3.5. ETT length at lip (cm) = (Age in years / 2) + 12. NGT = 2 x ETT. ICC = 4 x ETT.