



Portsmouth Hospitals  
University  
NHS Trust

# Paediatric Drug Calculation Handbook

## **Disclaimer/Links**

# References

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# Calculations

## Energy

4 J/kg rounded to the next increment<sup>(1)</sup>.  
10, 20, 30, 50, 75, 100, 120

## ETT

See chart on page xx

## LMA Ambu AuraGain

As per Ambu™ Data Sheet<sup>(2)</sup>

## Atropine

600 mcg/ml

Minimum dose: 100 mcg<sup>(3)</sup> **20 mcg/kg<sup>(4)</sup>**  
Maximum dose: 600 mcg<sup>(3)</sup>

## Glycopyrrolate

Maximum per  
dose: 200 mcg<sup>(5)</sup> **10 mcg/kg<sup>(5)</sup>**

## Sux

**2 mg/kg IV**  
**4 mg/ml IM<sup>(6)</sup>**

## Adrenaline

**10 mcg/kg<sup>(7)</sup>**

## Fluid

**10-20 ml/kg<sup>(8)</sup>**

## Glucose 10%

**2 ml/kg<sup>(9)</sup>**

## Anaphylaxis

Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension

## Rocuronium

Standard - 0.6

mg/kg

RSI - 1 mg/kg<sup>(10)</sup>

## Ketamine

RSI - 1-2 mg/kg<sup>(11)</sup>

## Fentanyl

1-3 mcg/kg<sup>(12)</sup>

# 2kg

**NHS**Portsmouth Hospitals  
University  
NHS Trust**Energy** 4 J/kg**8 J****ETT** (Consider Uncuffed)**2 - 3 mm****LMA** Ambu AuraGain**Size 1****Atropine** **0.17\* ml****Glycopyrrolate** **0.1 ml****Sux** **0.08 ml IV | 0.16 ml IM****Adrenaline** 1:10,000 (Cardiac Arrest) **0.2 ml****Fluid** 10-20ml/kg **20-40 ml****Glucose 10%** **4 ml****Anaphylaxis** Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension**Rocuronium**  
Standard - 0.1 ml  
RSI - 0.2 ml**Ketamine**  
RSI - 0.2-0.4 ml  
of 10mg/ml**Fentanyl**  
1-3 mcg/kg  
2-6 mcg

# 3kg

**NHS**Portsmouth Hospitals  
University  
NHS Trust**Energy** 4 J/kg**10 J****ETT** (Consider Uncuffed)**2 - 3 mm****LMA** Ambu AuraGain**Size 1****Atropine****0.17\* ml****Glycopyrrolate****0.15 ml****Sux 0.12 ml IV | 0.25 ml IM****Adrenaline** 1:10,000 (Cardiac Arrest)**0.3 ml****Fluid** 10-20ml/kg**30-60 ml****Glucose 10%****6 ml****Anaphylaxis**

Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension

**Rocuronium**  
Standard - 0.2 ml  
RSI - 0.3 ml**Ketamine**  
RSI - 0.3-0.6 ml  
of 10mg/ml**Fentanyl**  
1-3 mcg/kg  
3-9 mcg

# 4kg

**NHS**Portsmouth Hospitals  
University  
NHS Trust**Energy** 4 J/kg **20 J****ETT** (Consider Uncuffed) **2 - 3.5 mm****LMA** Ambu AuraGain **Size 1****Atropine** **0.17\* ml****Glycopyrrolate** **0.2 ml****Sux** **0.16 ml IV | 0.3 ml IM****Adrenaline** 1:10,000 (Cardiac Arrest) **0.4 ml****Fluid** 10-20ml/kg **40-80 ml****Glucose 10%** **8 ml****Anaphylaxis** Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension**Rocuronium**  
Standard - 0.3 ml  
RSI - 0.4 ml**Ketamine**  
RSI - 0.4-0.8 ml  
of 10mg/ml**Fentanyl**  
1-3 mcg/kg  
4-12 mcg

# 5kg

**NHS**Portsmouth Hospitals  
University  
NHS Trust**Energy** 4 J/kg**20 J****ETT** (Consider Uncuffed)**2 - 3 mm****LMA** Ambu AuraGain**Size 1 or 1½****Atropine****0.17 ml****Glycopyrrolate****0.25 ml****Sux** **0.2 ml IV | 0.4 ml IM****Adrenaline** 1:10,000 (Cardiac Arrest) **0.5 ml****Fluid** 10-20ml/kg**50-100 ml****Glucose 10%****10 ml****Anaphylaxis**

Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension

**Rocuronium**  
Standard - 0.3 ml  
RSI - 0.5 ml**Ketamine**  
RSI - 0.5-1 ml  
of 10mg/ml**Fentanyl**  
1-3 mcg/kg  
5-15 mcg

# 6kg



**Energy** 4 J/kg **20 J**

**ETT** (Consider Uncuffed) **2 - 3.5 mm**

**LMA** Ambu AuraGain **Size 1 or 1½**

**Atropine** **0.2 ml**

**Glycopyrrolate** **0.3 ml**

**Sux** **0.25 ml IV | 0.5 ml IM**

**Adrenaline** 1:10,000 (Cardiac Arrest) **0.6 ml**

**Fluid** 10-20ml/kg **60-120 ml**

**Glucose 10%** **12 ml**

**Anaphylaxis** Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension

**Rocuronium**  
Standard - 0.4 ml  
RSI - 0.6 ml

**Ketamine**  
RSI - 0.6-1.2 ml  
of 10mg/ml

**Fentanyl**  
1-3 mcg/kg  
6-18 mcg

# 7kg

**NHS**Portsmouth Hospitals  
University  
NHS Trust**Energy** 4 J/kg**30 J****ETT** (Consider Uncuffed)**2 - 3.5 mm****LMA** Ambu AuraGain**Size 1½****Atropine****0.23 ml****Glycopyrrolate****0.35 ml****Sux** **0.3 ml IV | 0.6 ml IM****Adrenaline** 1:10,000 (Cardiac Arrest) **0.7 ml****Fluid** 10-20ml/kg**70-140 ml****Glucose 10%** **14 ml****Anaphylaxis**

Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension

**Rocuronium**  
Standard - 0.4 ml  
RSI - 0.7 ml**Ketamine**  
RSI - 0.7-1.4 ml  
of 10mg/ml**Fentanyl**  
1-3 mcg/kg  
7-21 mcg

# 8kg

**NHS**Portsmouth Hospitals  
University  
NHS Trust**Energy** 4 J/kg **30 J****ETT** (Consider Uncuffed) **2 - 3.5 mm****LMA Ambu AuraGain** **Size 1½****Atropine** **0.27 ml****Glycopyrrolate** **0.4 ml****Sux** **0.3 ml IV | 0.6 ml IM****Adrenaline** 1:10,000 (Cardiac Arrest) **0.8 ml****Fluid** 10-20ml/kg **80-160 ml****Glucose 10%** **16 ml****Anaphylaxis** Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension**Rocuronium**  
Standard - 0.5 ml  
**RSI - 0.8 ml****Ketamine**  
RSI - 0.8-1.6 ml  
of 10mg/ml**Fentanyl**  
1-3 mcg/kg  
8-24 mcg

# 9kg

**NHS**Portsmouth Hospitals  
University  
NHS Trust**Energy** 4 J/kg**30 J****ETT** (Consider Uncuffed)**2 - 3.5 mm****LMA** Ambu AuraGain**Size 1½****Atropine****0.3 ml****Glycopyrrolate****0.45 ml****Sux** **0.36 ml IV | 0.7 ml IM****Adrenaline** 1:10,000 (Cardiac Arrest) **0.9 ml****Fluid** 10-20ml/kg**90-180 ml****Glucose 10%****18 ml****Anaphylaxis**

Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension

**Rocuronium**  
Standard - 0.5 ml  
RSI - 0.9 ml**Ketamine**  
RSI - 0.9-1.8 ml  
of 10mg/ml**Fentanyl**  
1-3 mcg/kg  
9-27 mcg

# 10kg

**NHS**Portsmouth Hospitals  
University  
NHS Trust

**Energy** 4 J/kg **30 J**

**ETT** (Cuffed) **3.5 - 4 mm**

**LMA** Ambu AuraGain **Size 1½ - 2**

**Atropine** **0.3ml**

**Glycopyrrolate** **0.5ml**

**Sux** **0.4 ml IV | 0.8 ml IM**

**Adrenaline** (Cardiac Arrest) 1:10,000 **1ml**

**Fluid** 10-20ml/kg **100-200ml**

**Glucose 10%** **20ml**

**Anaphylaxis** Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension

**Rocuronium**  
Standard - 0.6 ml  
RSI - 1 ml

**Ketamine**  
RSI - 1-2ml  
of 10mg/ml

**Fentanyl**  
1-3 mcg/kg  
10-30 mcg

# 11kg



**Energy** 4 J/kg

**50 J**

**ETT** (Cuffed) **3.5 - 4 mm**

**LMA** Ambu AuraGain **Size 1½ - 2**

**Atropine** **0.4 ml**

**Glycopyrrolate** **0.6 ml**

**Sux** **0.4 ml IV | 0.9 ml IM**

**Adrenaline** 1:10,000 (Cardiac Arrest) **1.1 ml**

**Fluid** 10-20ml/kg **110-220 ml**

**Glucose 10%** **22 ml**

**Anaphylaxis** Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension

**Rocuronium**  
Standard - 0.7 ml  
RSI - 1.1 ml

**Ketamine**  
RSI - 1.1-2.2 ml  
of 10mg/ml

**Fentanyl**  
1-3 mcg/kg  
11-33 mcg

# 12kg



**Energy** 4 J/kg **50 J**

**ETT** (Consider Uncuffed) **3.5 - 4 mm**

**LMA** Ambu AuraGain **Size 2**

**Atropine** **0.3 ml**

**Glycopyrrolate** **0.6 ml**

**Sux** **0.5 ml IV | 1 ml IM**

**Adrenaline** 1:10,000 (Cardiac Arrest) **1.2 ml**

**Fluid** 10-20ml/kg **120 - 240 ml**

**Glucose 10%** **24 ml**

**Anaphylaxis** Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension

**Rocuronium**  
Standard - 0.7 ml  
RSI - 1.2 ml

**Ketamine**  
RSI - 1.2-2.4 ml  
of 10mg/ml

**Fentanyl**  
1-3 mcg/kg  
12-36 mcg

# 13kg

**NHS**Portsmouth Hospitals  
University  
NHS Trust**Energy** 4 J/kg**50 J****ETT** (Consider Uncuffed)**3.5 - 4 mm****LMA** Ambu AuraGain**Size 2****Atropine****0.43 ml****Glycopyrrolate****0.65 ml****Sux****0.5 ml IV | 1 ml IM****Adrenaline**1:10,000  
(Cardiac Arrest)**1.3 ml****Fluid**

10-20ml/kg

**130 - 260 ml****Glucose 10%****26 ml****Anaphylaxis**Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension**Rocuronium**Standard - 0.8 ml  
RSI - 0.13 ml**Ketamine**RSI - 1.3 - 2.6 ml  
of 10mg/ml**Fentanyl**1-3 mcg/kg  
13 - 39 mcg

# 14kg

**NHS**Portsmouth Hospitals  
University  
NHS Trust**Energy** 4 J/kg **50 J****ETT** (Consider Uncuffed) **3.5 - 4 mm****LMA** Ambu AuraGain **Size 2****Atropine** **0.5 ml****Glycopyrrolate** **0.7 ml****Sux** **0.7 ml IV | 1.1 ml IM****Adrenaline** 1:10,000 (Cardiac Arrest) **1.4 ml****Fluid** 10-20ml/kg **140 - 280 ml****Glucose 10%** **28 ml****Anaphylaxis** Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension**Rocuronium**  
Standard - 0.8 ml  
**RSI - 1.4 ml****Ketamine**  
RSI - 1.4 -2.8 ml  
of 10mg/ml**Fentanyl**  
1-3 mcg/kg  
14 - 42 mcg

# 15kg



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**Energy** 4 J/kg

**50 J**

**ETT** (Cuffed) **4 - 4.5 mm**

**LMA Ambu AuraGain** **Size 2**

**Atropine** **0.5 ml**

**Glycopyrrolate** **0.8 ml**

**Sux** **0.6 ml IV | 1.2 ml IM**

**Adrenaline** 1:10,000 (Cardiac Arrest) **1.5 ml**

**Fluid** 10-20ml/kg **150-300 ml**

**Glucose 10%** **30 ml**

**Anaphylaxis** Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension

**Rocuronium**  
Standard - 0.9 ml  
RSI - 1.5 ml

**Ketamine**  
RSI - 1.5-3ml  
of 10mg/ml

**Fentanyl**  
1-3 mcg/kg  
15-45 mcg

# 16kg

**NHS**Portsmouth Hospitals  
University  
NHS Trust**Energy** 4 J/kg **75 J****ETT** (Consider Uncuffed) **4 mm****LMA** Ambu AuraGain **Size 2****Atropine** **0.5 ml****Glycopyrrolate** **0.8 ml****Sux** **0.6 ml IV | 1.3 ml IM****Adrenaline** 1:10,000 (Cardiac Arrest) **1.6 ml****Fluid** 10-20ml/kg **160 - 320 ml****Glucose 10%** **32 ml****Anaphylaxis** Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension**Rocuronium**  
Standard - 1 ml  
RSI - 1.6 ml**Ketamine**  
RSI - 1.6-3.2 ml  
of 10mg/ml**Fentanyl**  
1-3 mcg/kg  
16-48 mcg

# 17kg

**NHS**Portsmouth Hospitals  
University  
NHS Trust**Energy** 4 J/kg**75 J****ETT** (Consider Uncuffed)**4 - 4.5 mm****LMA** Ambu AuraGain**Size 2****Atropine****0.6 ml****Glycopyrrolate****0.9 ml****Sux** **0.7 ml IV | 1.4 ml IM****Adrenaline** 1:10,000 (Cardiac Arrest) **1.7 ml****Fluid** 10-20ml/kg**170 - 340 ml****Glucose 10%****34 ml****Anaphylaxis**

Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension

**Rocuronium**  
Standard - 1 ml  
RSI - 1.7 ml**Ketamine**  
RSI - 1.7-3.4 ml  
of 10mg/ml**Fentanyl**  
1-3 mcg/kg  
17-51 mcg

# 18kg



**Energy** 4 J/kg **75 J**

**ETT** (Consider Uncuffed) **4 - 4.5 mm**

**LMA** Ambu AuraGain **Size 2**

**Atropine** **0.6 ml**

**Glycopyrrolate** **0.9 ml**

**Sux** **0.7 ml IV | 1.4 ml IM**

**Adrenaline** 1:10,000 (Cardiac Arrest) **1.8 ml**

**Fluid** 10-20ml/kg **180-360 ml**

**Glucose 10%** **36 ml**

**Anaphylaxis** Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension

**Rocuronium**  
Standard - 1.1 ml  
RSI - 1.8 ml

**Ketamine**  
RSI - 1.8-3.6 ml  
of 10mg/ml

**Fentanyl**  
1-3 mcg/kg  
18-54 mcg

# 19kg

**NHS**Portsmouth Hospitals  
University  
NHS Trust**Energy** 4 J/kg**75 J****ETT** (Consider Uncuffed)**4.5 - 5 mm****LMA** Ambu AuraGain**Size 2****Atropine****0.6 ml****Glycopyrrolate****0.9 ml****Sux** **0.8 ml IV | 1.5 ml IM****Adrenaline** 1:10,000 (Cardiac Arrest)**1.9 ml****Fluid** 10-20ml/kg**190 - 380 ml****Glucose 10%****38 ml****Anaphylaxis**

Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension

**Rocuronium**  
Standard - 1.1 ml  
RSI - 1.9 ml**Ketamine**  
RSI - 1.9-3.8 ml  
of 10mg/ml**Fentanyl**  
1-3 mcg/kg  
19-57 mcg

# 20kg

**NHS**Portsmouth Hospitals  
University  
NHS Trust**Energy** 4 J/kg **75 J****ETT** (Consider Uncuffed) **4.5 - 5 mm****LMA Ambu AuraGain** **Size 2 / 2½****Atropine** **0.7 ml****Glycopyrrolate** **1 ml****Sux** **0.8 ml IV | 1.6 ml IM****Adrenaline** 1:10,000 (Cardiac Arrest) **2 ml****Fluid** 10-20ml/kg **200 - 400 ml****Glucose 10%** **40 ml****Anaphylaxis** Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension**Rocuronium**  
Standard - 1.2 ml  
RSI - 2 ml**Ketamine**  
RSI - 2-4 ml  
of 10mg/ml**Fentanyl**  
1-3 mcg/kg  
20-60 mcg

# 21kg

**NHS**Portsmouth Hospitals  
University  
NHS Trust**Energy** 4 J/kg**75 J****ETT** (Consider Uncuffed)**4.5 - 5 mm****LMA** Ambu AuraGain**Size 2 / 2½****Atropine****0.7 ml****Glycopyrrolate****1 ml****Sux** **0.8 ml IV | 1.7 ml IM****Adrenaline** 1:10,000 (Cardiac Arrest) **2.1 ml****Fluid** 10-20ml/kg**210 - 420 ml****Glucose 10%****42 ml****Anaphylaxis**

Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension

**Rocuronium**  
Standard - 1.2 ml  
RSI - 2.1 ml**Ketamine**  
RSI - 2.1-4.2 ml  
of 10mg/ml**Fentanyl**  
1-3 mcg/kg  
21-63 mcg

# 22kg

**NHS**Portsmouth Hospitals  
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NHS Trust

**Energy** 4 J/kg **100 J**

**ETT** (Consider Uncuffed) **4.5 - 5 mm**

**LMA** Ambu AuraGain **Size 2½**

**Atropine** **0.7 ml**

**Glycopyrrolate** **1 ml**

**Sux** **0.9 ml IV | 1.8 ml IM**

**Adrenaline** 1:10,000 (Cardiac Arrest) **2.2 ml**

**Fluid** 10-20ml/kg **220-240 ml**

**Glucose 10%** **44 ml**

**Anaphylaxis** Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension

**Rocuronium**  
Standard - 1.1 ml  
RSI - 2.2 ml

**Ketamine**  
RSI - 2.2-4.4 ml  
of 10mg/ml

**Fentanyl**  
1-3 mcg/kg  
22-66 mcg

# 23kg

**NHS**Portsmouth Hospitals  
University  
NHS Trust**Energy** 4 J/kg**100 J****ETT** (Consider Uncuffed)**4.5 - 5 mm****LMA** Ambu AuraGain**Size 2½****Atropine****0.8 ml****Glycopyrrolate****1 ml****Sux** **0.9 ml IV | 1.8 ml IM****Adrenaline** 1:10,000 (Cardiac Arrest) **2.3 ml****Fluid** 10-20ml/kg**230 - 460 ml****Glucose 10%****46 ml****Anaphylaxis**

Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension

**Rocuronium**  
Standard - 1.4 ml  
RSI - 2.3 ml**Ketamine**  
RSI - 2.3-4.6 ml  
of 10mg/ml**Fentanyl**  
1-3 mcg/kg  
23-69 mcg

# 24kg

**NHS**Portsmouth Hospitals  
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**Energy** 4 J/kg **100 J**

**ETT** (Consider Uncuffed) **4.5 - 5 mm**

**LMA** Ambu AuraGain **Size 2½**

**Atropine** **0.8 ml**

**Glycopyrrolate** **1 ml**

**Sux** **1 ml IV | 1.9 ml IM**

**Adrenaline** 1:10,000 (Cardiac Arrest) **2.4 ml**

**Fluid** 10-20ml/kg **240 - 480 ml**

**Glucose 10%** **48 ml**

**Anaphylaxis** Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension

**Rocuronium**  
Standard - 1.4 ml  
RSI - 2.4 ml

**Ketamine**  
RSI - 2.4-4.8 ml  
of 10mg/ml

**Fentanyl**  
1-3 mcg/kg  
24-72 mcg

# 25kg

**NHS**Portsmouth Hospitals  
University  
NHS Trust**Energy** 4 J/kg**100 J****ETT** (Consider Uncuffed)**4.5 - 5 mm****LMA** Ambu AuraGain**Size 2½****Atropine****0.8 ml****Glycopyrrolate****1 ml****Sux****1 ml IV | 2 ml IM****Adrenaline**1:10,000  
(Cardiac Arrest)**2.5 ml****Fluid**

10-20ml/kg

**250 - 500 ml****Glucose 10%****50 ml****Anaphylaxis**Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension**Rocuronium**  
Standard - 1.5 ml  
RSI - 2.5 ml**Ketamine**  
RSI - 2.5-5 ml  
of 10mg/ml**Fentanyl**  
1-3 mcg/kg  
25-75 mcg

# 26kg

**NHS**Portsmouth Hospitals  
University  
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**Energy** 4 J/kg **100 J**

**ETT** (Consider Uncuffed) **4.5 - 5 mm**

**LMA** Ambu AuraGain **Size 2½**

**Atropine** **0.9 ml**

**Glycopyrrolate** **1 ml**

**Sux** **1 ml IV | 2.1 ml IM**

**Adrenaline** 1:10,000 (Cardiac Arrest) **2.6 ml**

**Fluid** 10-20ml/kg **260 - 520 ml**

**Glucose 10%** **52 ml**

**Anaphylaxis** Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension

**Rocuronium**  
Standard - 1.6 ml  
RSI - 2.6 ml

**Ketamine**  
RSI - 2.6-5.2 ml  
of 10mg/ml

**Fentanyl**  
1-3 mcg/kg  
26-78 mcg

# 28kg



**Energy** 4 J/kg

**120 J**

**ETT** (Consider Uncuffed)

**4.5 - 5 mm**

**LMA** Ambu AuraGain

**Size 2½**

**Atropine**

**0.9 ml**

**Glycopyrrolate**

**1 ml**

**Sux** **1.1 ml IV | 2.2 ml IM**

**Adrenaline** 1:10,000 (Cardiac Arrest) **2.8 ml**

**Fluid** 10-20ml/kg

**280 - 560 ml**

**Glucose 10%**

**56 ml**

**Anaphylaxis**

Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension

**Rocuronium**  
Standard - 1.7 ml  
RSI - 2.8 ml

**Ketamine**  
RSI - 2.8-5.6 ml  
of 10mg/ml

**Fentanyl**  
1-3 mcg/kg  
28-84 mcg

# 30kg

**NHS**Portsmouth Hospitals  
University  
NHS Trust**Energy** 4 J/kg **120 J****ETT** (Consider Uncuffed) **5 - 5.5 mm****LMA Ambu AuraGain** **Size 2½ / 3****Atropine** **1 ml****Glycopyrrolate** **1 ml****Sux** **1.2 ml IV | 2.4 ml IM****Adrenaline** 1:10,000 (Cardiac Arrest) **3 ml****Fluid** 10-20ml/kg **300 - 600 ml****Glucose 10%** **60 ml****Anaphylaxis** Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension**Rocuronium**  
Standard - 1.8 ml  
**RSI - 3 ml****Ketamine**  
RSI - 3-6 ml  
of 10mg/ml**Fentanyl**  
1-3 mcg/kg  
30-90 mcg

# 32kg

**NHS**Portsmouth Hospitals  
University  
NHS Trust**Energy** 4 J/kg**120 J****ETT** (Consider Uncuffed)**5 - 5.5 mm****LMA** Ambu AuraGain**Size 3****Atropine****1 ml****Glycopyrrolate****1 ml****Sux** **1.3 ml IV | 2.6 ml IM****Adrenaline** 1:10,000 (Cardiac Arrest) **3.2 ml****Fluid** 10-20ml/kg**320 - 640 ml****Glucose 10%****64 ml****Anaphylaxis**

Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension

**Rocuronium**  
Standard - 1.9 ml  
RSI - 3.2 ml**Ketamine**  
RSI - 3.2-6.4 ml  
of 10mg/ml**Fentanyl**  
1-3 mcg/kg  
32-96 mcg

# 34kg

**NHS**Portsmouth Hospitals  
University  
NHS Trust

**Energy** 4 J/kg **120 J**

**ETT** (Consider Uncuffed) **5.5 - 6 mm**

**LMA** Ambu AuraGain **Size 3**

**Atropine** **1 ml**

**Glycopyrrolate** **1 ml**

**Sux** **1.4 ml IV | 2.7 ml IM**

**Adrenaline** 1:10,000 (Cardiac Arrest) **3.4 ml**

**Fluid** 10-20ml/kg **340 - 680 ml**

**Glucose 10%** **68 ml**

**Anaphylaxis** Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension

**Rocuronium**  
Standard - 2 ml  
RSI - 3.4 ml

**Ketamine**  
RSI - 3.4-6.8 ml  
of 10mg/ml

**Fentanyl**  
1-3 mcg/kg  
34-102 mcg

# 36kg

**NHS**Portsmouth Hospitals  
University  
NHS Trust**Energy** 4 J/kg**120 J****ETT** (Consider Uncuffed)**5.5 - 6 mm****LMA** Ambu AuraGain**Size 3****Atropine****1 ml****Glycopyrrolate****1 ml****Sux** **1.4 ml IV | 2.9 ml IM****Adrenaline** 1:10,000 (Cardiac Arrest) **3.6 ml****Fluid** 10-20ml/kg**360 - 720 ml****Glucose 10%****72 ml****Anaphylaxis**

Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension

**Rocuronium**  
Standard - 2.2 ml  
RSI - 3.6 ml**Ketamine**  
RSI - 3.6-7.2 ml  
of 10mg/ml**Fentanyl**  
1-3 mcg/kg  
36-108 mcg

# 38kg

**NHS**Portsmouth Hospitals  
University  
NHS Trust

**Energy** 4 J/kg **120 J**

**ETT** (Consider Uncuffed) **5.5 - 6 mm**

**LMA** Ambu AuraGain **Size 3**

**Atropine** **1 ml**

**Glycopyrrolate** **1 ml**

**Sux** **1.5 ml IV | 3.0 ml IM**

**Adrenaline** 1:10,000 (Cardiac Arrest) **3.8 ml**

**Fluid** 10-20ml/kg **380 - 760 ml**

**Glucose 10%** **76 ml**

**Anaphylaxis** Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension

**Rocuronium**  
Standard - 2.3 ml  
**RSI - 3.8 ml**

**Ketamine**  
RSI - 3.8-7.6 ml  
of 10mg/ml

**Fentanyl**  
1-3 mcg/kg  
38-114 mcg

# 40kg



**Energy** 4 J/kg

**120 J**

**ETT** (Consider Uncuffed)

**6 - 6.5 mm**

**LMA** Ambu AuraGain

**Size 3**

**Atropine**

**1 ml**

**Glycopyrrolate**

**1 ml**

**Sux** **1.6 ml IV | 3.2 ml IM**

**Adrenaline** 1:10,000 (Cardiac Arrest)

**4 ml**

**Fluid** 10-20ml/kg

**400 - 800 ml**

**Glucose 10%**

**80 ml**

**Anaphylaxis**

Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension

**Rocuronium**  
Standard - 2.4 ml  
RSI - 4 ml

**Ketamine**  
RSI - 4-8 ml  
of 10mg/ml

**Fentanyl**  
1-3 mcg/kg  
40-120 mcg

# 42kg

**NHS**Portsmouth Hospitals  
University  
NHS Trust**Energy** 4 J/kg **120 J****ETT** (Consider Uncuffed) **6 - 6.5 mm****LMA Ambu AuraGain** **Size 3****Atropine** **1 ml****Glycopyrrolate** **1 ml****Sux** **1.7 ml IV | 3.4 ml IM****Adrenaline** 1:10,000 (Cardiac Arrest) **4.2 ml****Fluid** 10-20ml/kg **420 - 840 ml****Glucose 10%** **84 ml****Anaphylaxis** Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension**Rocuronium**  
Standard - 2.5 ml  
**RSI - 4.2 ml****Ketamine**  
RSI - 4.2-8.4ml  
of 10mg/ml**Fentanyl**  
1-3 mcg/kg  
42-126 mcg

# 44kg



NHS  
Portsmouth Hospitals  
University  
NHS Trust

**Energy** 4 J/kg

**120 J**

**ETT** (Consider Uncuffed)

**6 - 6.5 mm**

**LMA** Ambu AuraGain

**Size 3**

**Atropine**

**1 ml**

**Glycopyrrolate**

**1 ml**

**Sux** **1.8 ml IV | 3.5 ml IM**

**Adrenaline** 1:10,000 (Cardiac Arrest) **4.4 ml**

**Fluid** 10-20ml/kg

**440 - 880 ml**

**Glucose 10%**

**88 ml**

**Anaphylaxis**

Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension

**Rocuronium**  
Standard - 2.6 ml  
RSI - 4.4 ml

**Ketamine**  
RSI - 4.4-8.8 ml  
of 10mg/ml

**Fentanyl**  
1-3 mcg/kg  
44-132 mcg

# 46kg

**NHS**Portsmouth Hospitals  
University  
NHS Trust

**Energy** 4 J/kg **120 J**

**ETT** (Consider Uncuffed) **6 - 6.5 mm**

**LMA** Ambu AuraGain **Size 3**

**Atropine** **1 ml**

**Glycopyrrolate** **1 ml**

**Sux** **1.8 ml IV | 3.7 ml IM**

**Adrenaline** **4.6 ml**  
1:10,000 (Cardiac Arrest)

**Fluid** **460 - 920 ml**  
10-20ml/kg

**Glucose 10%** **92 ml**

**Anaphylaxis** Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension

**Rocuronium**  
Standard - 2.8 ml  
RSI - 4.6 ml

**Ketamine**  
RSI - 4.6-9.2 ml  
of 10mg/ml

**Fentanyl**  
1-3 mcg/kg  
46-138 mcg

# 48kg



NHS  
Portsmouth Hospitals  
University  
NHS Trust

**Energy** 4 J/kg

**120 J**

**ETT** (Consider Uncuffed)

**6 - 6.5 mm**

**LMA** Ambu AuraGain

**Size 3**

**Atropine**

**1 ml**

**Glycopyrrolate**

**1 ml**

**Sux** **1.9 ml IV | 3.8 ml IM**

**Adrenaline** 1:10,000 (Cardiac Arrest) **4.8 ml**

**Fluid** 10-20ml/kg

**480 - 960 ml**

**Glucose 10%**

**96 ml**

**Anaphylaxis**

Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension

**Rocuronium**  
Standard - 2.9 ml  
RSI - 4.8 ml

**Ketamine**  
RSI - 4.8-9.6 ml  
of 10mg/ml

**Fentanyl**  
1-3 mcg/kg  
48-144 mcg

# 50kg

**NHS**Portsmouth Hospitals  
University  
NHS Trust

**Energy** 4 J/kg **120 J**

**ETT** (Consider Uncuffed) **6 - 6.5 mm**

**LMA** Ambu AuraGain **Size 3**

**Atropine** **1 ml**

**Glycopyrrolate** **1 ml**

**Sux** **2 ml IV | 4 ml IM**

**Adrenaline** **1:10,000**  
(Cardiac Arrest) **5 ml**

**Fluid** **10-20ml/kg** **500 - 1000 ml**

**Glucose 10%** **100 ml**

**Anaphylaxis** Take arrest dose adrenaline - dilute to 10ml with saline.  
use 0.5 - 1 ml IV boluses to treat hypotension

**Rocuronium**  
Standard - 3 ml  
RSI - 5 ml

**Ketamine**  
RSI - 5-10 ml  
of 10mg/ml

**Fentanyl**  
1-3 mcg/kg  
50-150 mcg

**End Page**  
**Anaphlaxis algorithm?**

# **Back Cover**