



Portsmouth Hospitals
University
NHS Trust

Paediatric Drug Calculation Handbook

Disclaimer/Links

References

1. Resuscitation Council UK. (2021). Paediatric Advanced Life Support Guidelines. Retrieved from Resuscitation Council UK website:
<https://www.resus.org.uk/library/2021-resuscitation-guidelines/paediatric-advanced-life-support-guidelines>
2. Ambu UK. (2025, January 15). AuraGain Data Sheet 2025. Retrieved from Ambu UK website: https://www.ambu.co.uk/Admin/Public/Download.aspx?file=Files%2FFiles%2FDownloads%2FAmbu+UK%2FAAnaesthesia%2FLaryngeal_Masks%2FAuraGain+Disposable+Laryngeal+Mask%2FDatasheets%2FDatasheet-AuraGain.pdf
3. Southampton Oxford Retrieval Team. (2024). SORT Drug Calculator. Retrieved from www.sort.nhs.uk website: <https://www.sort.nhs.uk/Guidelines/Drug-calculator.aspx>
4. National Institute for Health and Care Excellence (NICE). (2025). Atropine Sulphate. Retrieved from NICE website: <https://bnfc.nice.org.uk/drugs/atropine-sulfate/>
5. NICE. (2025). Glycopyrronium Bromide. Retrieved from NICE website: <https://bnfc.nice.org.uk/drugs/glycopyrronium-bromide/>
6. NICE. (2024). Suxamethonium Chloride. Retrieved from NICE website: <https://bnfc.nice.org.uk/drugs/suxamethonium-chloride/>
7. NICE. (2025). Adrenaline. Retrieved from NICE website: <https://bnfc.nice.org.uk/drugs/adrenaline-epinephrine/>
8. Royal College of Paediatrics and Child Health. (2020). Safe Prescription of IV Fluids Workbook. Retrieved from Rcpch.ac.uk website: https://qicentral.rcpch.ac.uk/wp-content/uploads/sites/9/2020/08/iv_fluid_workbook_0.docx
9. Resuscitation Council UK. (2024). Paediatric emergency algorithms & resources. Retrieved from <https://www.resus.org.uk/sites/default/files/2024-03/RCUK%20Paediatric%20emergency%20algortihms%20and%20resources%20Mar%2024%20V2.2.pdf>
10. NICE. (2025c). Rocuronium Bromide. Retrieved from NICE website: <https://bnfc.nice.org.uk/drugs/rocuronium-bromide/>
11. NICE. (2025c). Ketamine Hydrochloride. Retrieved from NICE website: <https://bnfc.nice.org.uk/drugs/ketamine/>
12. NICE. (2022). Fentanyl. Retrieved from NICE website: <https://bnfc.nice.org.uk/drugs/fentanyl/>

Calculations

Energy

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

ETT

See chart on page xx

LMA Ambu AuraGain

As per Ambu™ Data Sheet⁽²⁾

Atropine 600 mcg/ml

Minimum dose: 100 mcg⁽³⁾ 20 mcg/kg⁽⁴⁾
Maximum dose: 600 mcg⁽³⁾

Glycopyrrolate

Maximum per dose: 200 mcg⁽⁵⁾ 10 mcg/kg⁽⁵⁾

Sux

2 mg/kg IV
4 mg/ml IM⁽⁶⁾

Adrenaline

10 mcg/kg⁽⁷⁾

Fluid

10-20 ml/kg⁽⁸⁾

Glucose 10%

2 ml/kg⁽⁹⁾

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⁽¹⁰⁾

Ketamine
RSI - 1-2 mg/kg⁽¹¹⁾

Fentanyl
1-3 mcg/kg⁽¹²⁾

2kg



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



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



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



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

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



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



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



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



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



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



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



NHS
Portsmouth Hospitals
University
NHS Trust

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



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



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



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



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

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



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



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



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



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

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



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



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



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

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



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



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



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



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



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

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



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



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



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



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

Age (Years)	Term - 8 Months	8 months - 2	2 - 4	4 - 6	6 - 8	8 - 10	10 - 12
ETT Size (cuffed) (Stylet)	3.0	3.5	4.0	4.5	5.0	5.5	6.0
Length (cm)	11	12	13	14	15	16	17
Bougie	5Fr						
Suction Catheter	6	8	10	10Fr	14Fr		

Back Cover