



Portsmouth Hospitals
University
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Paediatric Drug Calculation Handbook

Disclaimer

This handbook is intended as a guide for healthcare professionals involved in the care of paediatric patients. While every effort has been made to ensure the accuracy of the information contained herein, the authors and publishers accept no responsibility for any errors, omissions, or outcomes resulting from the use of this material.

Clinical judgment, institutional protocols, and individual patient considerations must always take precedence. It is the responsibility of the healthcare provider to verify drug dosages, contraindications, interactions, and calculations with up-to-date references and official prescribing information before administering any medication.

This handbook is not a substitute for professional training or medical advice and should not be used as the sole resource for patient care decisions.

Doses

Energy

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

ETT

See chart on page 42

LMA Ambu AuraGain

As per Ambu™ Data Sheet⁽²⁾

Atropine 600 mcg/ml

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

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⁾

Concentrations in *italics* have reached the upper or lower dosage limit for that drug.

Rocuronium
Standard - 0.6
mg/kg
RSI - 1 mg/kg⁽¹⁰⁾

Ketamine
RSI - 1-2 mg/kg⁽¹¹⁾

Fentanyl
1-3 mcg/kg⁽¹²⁾

2 kg



Energy 4 J/kg

8 J

ETT (Consider Uncuffed)

2 - 3 mm

LMA Ambu AuraGain

Size 1

Atropine

100 mcg = 0.17 ml of
600mcg/ml. Dilution is
recommended

100 mcg

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

3 kg



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Energy 4 J/kg

10 J

ETT (Consider Uncuffed)

2 - 3 mm

LMA Ambu AuraGain

Size 1

Atropine

100 mcg = 0.17 ml of
600mcg/ml. Dilution is
recommended

100 mcg

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

4 kg



Energy 4 J/kg

20 J

ETT (Consider Uncuffed)

2 - 3.5 mm

LMA Ambu AuraGain

Size 1

Atropine

100 mcg = 0.17 ml of
600mcg/ml. Dilution is
recommended

100 mcg

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

5 kg



Energy 4 J/kg

20 J

ETT (Consider Uncuffed)

2 - 3.5 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

6 kg



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

7 kg



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

8 kg



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

9 kg



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

10 kg



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

11 kg



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

12 kg



Energy 4 J/kg **50 J**

ETT (Cuffed) **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

13 kg



Energy 4 J/kg

50 J

ETT (Cuffed)

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

14 kg



Energy 4 J/kg **50 J**

ETT (Cuffed) **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

15 kg



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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

16 kg



Energy 4 J/kg

75 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 | 1.3 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

17 kg



Energy 4 J/kg

75 J

ETT (Cuffed)

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

18 kg



Energy 4 J/kg

75 J

ETT (Cuffed) **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

19 kg



Energy 4 J/kg

75 J

ETT (Cuffed)

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

20 kg



Energy 4 J/kg **75 J**

ETT (Cuffed) **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

21 kg



Energy 4 J/kg

75 J

ETT (Cuffed)

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

22 kg



Energy 4 J/kg **100 J**

ETT (Cuffed) **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

23 kg



Energy 4 J/kg

100 J

ETT (Cuffed)

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

24 kg



Energy 4 J/kg **100 J**

ETT (Cuffed) **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

25 kg



Energy 4 J/kg

100 J

ETT (Cuffed)

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

26 kg



Energy 4 J/kg **100 J**

ETT (Cuffed) **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

28 kg



Energy 4 J/kg

120 J

ETT (Cuffed)

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

30 kg



Energy 4 J/kg **120 J**

ETT (Cuffed) **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

32 kg



Energy 4 J/kg

120 J

ETT (Cuffed)

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

34 kg



Energy 4 J/kg **120 J**

ETT (Cuffed) **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

36 kg



Energy 4 J/kg

120 J

ETT (Cuffed)

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

38 kg



Energy 4 J/kg **120 J**

ETT (Cuffed) **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

40 kg



Energy 4 J/kg

120 J

ETT (Cuffed)

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

42 kg



Energy 4 J/kg **120 J**

ETT (Cuffed) **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

44 kg



Energy 4 J/kg

120 J

ETT (Cuffed)

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

46 kg



Energy 4 J/kg

120 J

ETT (Cuffed) **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 **10-20ml/kg** **460 - 920 ml**

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

48 kg



Energy 4 J/kg

120 J

ETT (Cuffed)

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

50 kg



Energy 4 J/kg **120 J**

ETT (Cuffed) **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 (Stylet)	3.5 (Stylet)	4.0	4.5	5.0	5.5	6.0
Length (cm)	11	12	13	14	15	16	17
Bougie	5Fr	10Fr	10Fr	10Fr	10Fr	14Fr	14Fr
Suction Catheter	6	8	10	10	10	14Fr	14Fr

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