

# Neonatal

Resuscitation			
	3KG	4KG	5KG
Epinephrine 1:10,000	0.03 mg	0.04 mg	0.05 mg
Atropine	0.1 mg	0.1 mg	0.1 mg
Bicarbonate 4.2%	3 mEq	4 mEq	5 mEq
Lidocaine	3 mg	4 mg	5 mg
Adenosine			
First Dose	0.3 mg	0.4 mg	0.5 mg
Second Dose	0.6 mg	0.8 mg	1 mg
Amiodarone	15 mg	20 mg	25 mg
Calcium Chloride	60 mg	80 mg	100 mg
Magnesium Sulfate	150 mg	200 mg	250 mg
Overdose			
Dextrose 25%	1.5 gm	2 gm	2.5 gm
Naloxone	0.3 mg	0.4 mg	0.5 mg
Glucagon	1.0 mg	1.0 mg	1.0 mg
Seizure			
Lorazepam	0.3 mg	0.4 mg	0.5 mg

## Neonatal con't

Equipment			
Oral Airway	50 mm	BVM	Infant
Nasal Airway	14 French	ETCO2	Pediatric
Endotracheal Tube	3.5	Vascular Access	22-24 g
Stylet	6 French	Intraosseous	18-15 g
Laryngoscope	1 straight	NG Tube	5-8 French
ET Insertion length	10-10.5 cm	Suction Catheter	8 French

Defibrillation			
	3 KG	4 KG	5 KG
First dose	6 j	8 j	10 j
Second Dose	12 j	16 j	20 j

Cardioversion			
	1.5 j	4 j	5 j

Fluids			
Bolus	60 mL	80 mL	100 mL
Maintenance	12 mL/HR	16 mL/HR	20 mL/HR

Rapid Sequence Intubation			
	3 KG	4KG	5KG
<b>Pre-Medication</b>			
Atropine	0.1 mg	0.1 mg	0.1 mg
Lidocaine	4.5 mg	6mg	7.5 mg

Induction			
Midazolam	0.3 mg	0.4 mg	0.5 mg

Paralytic			
Succinylcholine 2.0 mg/kg	6 mg	8 mg	10 mg
Rocuronium 1.0 mg/kg	3mg	4mg	5mg

Maintenance			
Lorazepam 0.1 mg/kg	0.3 mg	0.4 mg	0.5 mg

## Approximate Weight 6 kg / age 4-6 Months

### Equipment

Oral Airway	50 mm	BVM	Infant / child
Nasal Airway	14 fr	ETCO2	Pediatric
Endotracheal Tube	3.5	Vascular Access	22-24 g
Stylet	6 fr	Intraosseous	18-15 g
Laryngoscope	1 straight	NG Tube	5-8 fr
ET Insertion length	10-10.5 cm		

### Defibrillation

First dose	12 j
Second dose	24 j

### Cardioversion

First dose	3 j
Second dose	6 j

### Fluids

Bolus	120 ml
Maintenance	28 ml/hr



Heart Rate	100-160
Respiratory Rate	30-60
Minimum SBP	60

### Rapid Sequence Intubation

#### Pre-Medication

DRUG	DOSE	ADMINISTER
Atropine	0.02 mg/kg	0.12 mg
Lidocaine	1.5 mg/kg	9 mg

#### Induction

Midazolam	0.1 mg/kg	0.6 mg
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#### Paralytic

Succinylcholine	2.0 mg/kg	12 mg
Rocuronium	1 mg/kg	6 mg

#### Maintenance

Lorazepam	0.1 mg/kg	0.6 mg
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## Approximate Weight 6 kg / age 4-6 Months con't

Resuscitation		
DRUG	DOSE	ADMINISTER
Epinephrine 1:10,000	0.01 mg/kg	0.06 mg
Atropine	0.02 mg/ g	0.12 mg
Bicarbonate 4.2%	1 mEq/kg	6 mEq
Lidocaine	1 mg/kg	6 mg
Adenosine		
First Dose	0.1 mg/kg	0.6 mg
Second Dose	0.2 mg/kg	1.2 mg
Amiodarone	5 mg/kg	30 mg
Calcium Chloride	20mg/kg	130 mg
Magnesium Sulfate	50 mg/kg	325 mg
Overdose		
Dextrose 25%	0.5 gm/kg	3 gm
Naloxone	0.1 mg/kg	0.6 mg
Glucagon		1 mg
Activated Charcoal	1 gm/kg	6 gm
Seizure		
Lorazepam	0.1 mg/kg	0.6 mg
Respiratory/ Allergy		
Albuterol		2.5 mg
Epinephrine 1:1000 Nebulized		2 mg 2mL
Fentanyl	2 mcg/kg	12 mcg
Acetaminophen	20 mg/kg	120 mg

# Approximate Weight 8 kg / age 8 Months

## Equipment

Oral Airway	50 mm	BVM	Infant / child
Nasal Airway	14 fr	ETCO2	Pediatric
Endotracheal Tube	3.5	Vascular Access	22-24 g
Stylet	6 fr	Intraosseous	18-15 g
Laryngoscope	1 straight	NG Tube	5-8 fr
ET Insertion length	10-10.5 cm		

## Defibrillation

First dose	16 j
Second dose	32 j

## Cardioversion

First dose	4 j
Second dose	8 j

## Fluids

Bolus	160 ml
Maintenance	28 ml/hr



Heart Rate	100-160
Respiratory Rate	30-60
Minimum SBP	60

## Rapid Sequence Intubation

### Pre-Medication

DRUG	DOSE	ADMINISTER
Atropine	0.02 mg/kg	0.16 mg
Lidocaine	1.5 mg/kg	13 mg

### Induction

Midazolam	0.1 mg/kg	0.8 mg
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### Paralytic

Succinylcholine	2mg/kg	16 mg
Rocuronium	1 mg/kg	8 mg

### Maintenance

Lorazepam	0.1 mg/kg	0.8 mg
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## Approximate Weight 8 kg / age 8 Months con't

### Resuscitation

DRUG	DOSE	ADMINISTER
Epinephrine 1:10,000	0.01 mg/kg	0.8 mg
Atropine	0.02 mg kg	0.16 mg
Bicarbonate 4.2%	1 mEq/kg	8 mEq
Lidocaine	1 mg/kg	8 mg
Adenosine		
First Dose	0.1 mg/kg	0.8 mg
Second Dose	0.2 mg/kg	1.6 mg
Amiodarone	5 mg/kg	40 mg
Calcium Chloride	20mg/kg	160 mg
Magnesium Sulfate	50 mg/kg	400 mg

### Overdose

Dextrose 25%	0.5 gm/kg	4 gm
Naloxone	0.1 mg/kg	0.8 mg
Glucagon		1 mg
Activated Charcoal	1 gm/kg	8 mg

### Seizure

Lorazepam	0.1 mg/kg	0.8 mg
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### Respiratory/ Allergy

Albuterol	2.5 mg
Epinephrine 1:1000	2 mg 2mL
NEBULIZED	

### Respiratory/ Allergy

Fentanyl	2 mcg/kg	16 mcg
Acetaminophen	20 mg/kg	160 mg

## Approximate Weight 10 kg / age 1 year

### Equipment

Oral Airway	60 mm	BVM	Child
Nasal Airway	18 fr	ETCO2	Pediatric
Endotracheal Tube	4	Vascular Access	20-24 g
Stylet	6 fr	Intraosseous	15 g
Laryngoscope	1 straight	NG Tube	8-10 fr
ET Insertion length	11-12 cm		

### Defibrillation

First dose	20 j
Second dose	40 j

### Cardioversion

First dose	10 j
Second dose	20 j

### Fluids

Bolus	200 ml
Maintenance	40 ml/hr



Heart Rate	90-150
Respiratory Rate	24-40
Minimum SBP	70

### Rapid Sequence Intubation

#### Pre-Medication

DRUG	DOSE	ADMINISTER
Atropine	0.02 mg/kg	0.2 mg
Lidocaine	1.5 mg/kg	15 mg

#### Induction

Midazolam	0.1 mg/kg	1.0 mg
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#### Paralytic

Succinylcholine	2mg/kg	20 mg
Rocuronium	1 mg/kg	10 mg

#### Maintenance

Lorazepam	0.1 mg/kg	1.0 mg 5 mL
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## Approximate Weight 10 kg / age 1 year con't

Resuscitation		
DRUG	DOSE	ADMINISTER
Epinephrine 1:10,000	0.01 mg/kg	0.1 mg
Atropine	0.02 mg/kg	0.20 mg
Bicarbonate 4.2%	1 mEq/kg	10 mEq
Lidocaine	1 mg/kg	10 mg
Adenosine		
First Dose	0.1 mg/kg	1 mg
Second Dose	0.2 mg/kg	2 mg
Amiodarone	5 mg/kg	50 mg
Calcium Chloride	20 mg/kg	210 mg
Magnesium Sulfate	50 mg/kg	525 mg 5.25 mL
Overdose		
Dextrose 25%	0.5 gm/kg	5.25 gm 21 mL
Naloxone 0.4mg/ml	0.1 mg/kg	2.5 mL
Glucagon	0.1 mg/kg	1 mL
Activated Charcoal	1 gm/kg	10 mL
Seizure		
Lorazepam	0.1 mg/kg	1 mg
Respiratory/ Allergy		
Albuterol		2.5 mg
Epinephrine 1:1000		2 mg 2mL
NEBULIZED		
Fentanyl	2 mcg/kg	20 mcg
Acetaminophen	20 mg/kg	200 mg

## Approximate Weight 13 kg / age 2 years

### Equipment

Oral Airway	60 mm	BVM	Child
Nasal Airway	20 fr	ETCO2	Pediatric
Endotracheal Tube	4.5	Vascular Access	18-22 g
Stylet	6 fr	Intraosseous	15 g
Laryngoscope	2 straight	NG Tube	10 fr
ET Insertion length	13.5 cm		



### Defibrillation

First dose	26 j
Second dose	52 j

### Cardioversion

First dose	13 j
Second dose	26 j

### Fluids

Bolus	260 ml
Maintenance	45 ml/hr

Heart Rate	90-150
Respiratory Rate	24-40
Minimum SBP	70

### Rapid Sequence Intubation

#### Pre-Medication

DRUG	DOSE	ADMINISTER
Atropine	0.02 mg/kg	0.26 mg
Lidocaine	1.5 mg/kg	20 mg

#### Induction

Midazolam	0.1 mg/kg	1.3 mg
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#### Paralytic

Succinylcholine	2 mg/kg	26 mg
Rocuronium	1 mg/kg	13 mg

#### Maintenance

Lorazepam	0.1 mg/kg	1.3 mg
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## Approximate Weight 13 kg / age 2 years con't

Resuscitation		
DRUG	DOSE	ADMINISTER
Epinephrine 1:10,000	0.01 mg/kg	0.13 mg
Atropine	0.02 mg/kg	0.26 mg
Bicarbonate 4.2%	1 mEq/kg	13 mEq
Lidocaine	1 mg/kg	13 mg
Adenosine		
First Dose	0.1 mg/kg	1.3 mg
Second Dose	0.2 mg/kg	2.6 mg
Amiodarone	5 mg/kg	65 mg
Calcium Chloride	20 mg/kg	260 mg
Magnesium Sulfate	50 mg/kg	650 mg
Overdose		
Dextrose 25%	0.5 gm/kg	6.5 gm
Naloxone	0.1 mg/kg	1.3 mg
Glucagon		1 mg
Activated Charcoal	1 gm/kg	13 mL
Seizure		
Lorazepam	0.1 mg/kg	1.3 mg
Respiratory/ Allergy		
Albuterol		2.5 mg
Epinephrine 1:1000		2 mg 2mL
NEBULIZED		
Fentanyl	2 mcg/kg	26 mcg
Acetaminophen	20 mg/kg	260 mg

## Approximate Weight 16 kg / age 4 years

### Equipment

Oral Airway	60 mm	BVM	Child
Nasal Airway	22 fr	ETCO2	Adult
Endotracheal Tube	5	Vascular Access	18-22 g
Stylet	6 fr	Intraosseous	15 g
Laryngoscope	2 straight	NG Tube	10 fr
ET Insertion length	14-15 cm		

### Defibrillation

First dose	32 j
Second dose	64 j

### Cardioversion

First dose	16 j
Second dose	32 j

### Fluids

Bolus	320 ml
Maintenance	55 ml/hr



Heart Rate	80-140
Respiratory Rate	22-34
Minimum SBP	80

### Rapid Sequence Intubation

#### Pre-Medication

DRUG	DOSE	ADMINISTER
Atropine	0.02 mg/kg	0.32 mg
Lidocaine	1.5 mg/kg	24 mg

#### Induction

Midazolam	0.1 mg/kg	1.6 mg
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#### Paralytic

Succinylcholine	2mg/kg	32 mg
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Rocuronium	1 mg/kg	16 mg
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#### Maintenance

Lorazepam	0.1 mg/kg	1.6 mg
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## Approximate Weight 16 kg / age 4 years con't

<b>Resuscitation</b>		
<b>DRUG</b>	<b>DOSE</b>	<b>ADMINISTER</b>
Epinephrine 1:10,000	0.01 mg/kg	0.16 mg
Atropine	0.02 mg/kg	0.32 mg
Bicarbonate 4.2%	1 mEq/kg	16 mEq
Lidocaine	1 mg/kg	16 mg
Adenosine		
First Dose	0.1 mg/kg	1.6 mg
Second Dose	0.2 mg/kg	3.2 mg
Amiodarone	5 mg/kg	80 mg
Calcium Chloride	20 mg/kg	320 mg
Magnesium Sulfate	50 mg/kg	800 mg
<b>Overdose</b>		
Dextrose 25%	0.5 gm/kg	8 gm
Naloxone	0.1 mg/kg	1.6 mg
Glucagon		1.0 mg
Activated Charcoal	1 gm/kg	16 gm
<b>Seizure</b>		
Lorazepam	0.1 mg/kg	1.6 mg
<b>Respiratory/ Allergy</b>		
Albuterol		2.5 mg
Epinephrine 1:1000 NEBULIZED		2 mg 2 mL
Fentanyl	2 mcg/kg	32 mcg
Acetaminophen	20 mg/kg	320 mg

## Approximate Weight 20 kg / age 5-6 years

### Equipment

Oral Airway	70 mm	BVM	Child
Nasal Airway	24 fr	ETCO2	Adult
Endotracheal Tube	5.5	Vascular Access	18-20 g
Stylet	14 fr	Intraosseous	15 g
Laryngoscope	2 straight/ curved	NG Tube	12-14 fr
ET Insertion length	16.5 cm		



### Defibrillation

First dose	40 j
Second dose	80 j

### Cardioversion

First dose	20 j
Second dose	40 j

### Fluids

Bolus	400 ml
Maintenance	65 ml/hr

Heart Rate	70-120
Respiratory Rate	18-30
Minimum SBP	80

### Rapid Sequence Intubation

#### Pre-Medication

DRUG	DOSE	ADMINISTER
Atropine	0.02 mg/kg	0.4 mg
Lidocaine	1.5 mg/kg	30 mg

#### Induction

Midazolam	0.1 mg/kg	2 mg
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#### Paralytic

Succinylcholine	2mg/kg	40 mg
Rocuronium	1 mg/kg	2 mg

#### Maintenance

Lorazepam	0.1 mg/kg	2 mg
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## Approximate Weight 20 kg / age 5-6 years con't

Resuscitation		
DRUG	DOSE	ADMINISTER
Epinephrine 1:10,000	0.01 mg/kg	0.2 mg
Atropine	0.02 mg/kg	0.4 mg
Bicarbonate 4.2%	1 mEq/kg	20 mEq
Lidocaine	1 mg/kg	20 mg
Adenosine		
First Dose	0.1 mg/kg	2 mg
Second Dose	0.2 mg/kg	4 mg
Amiodarone	5 mg/kg	100 mg
Calcium Chloride	20 mg/kg	400 mg
Magnesium Sulfate	50 mg/kg	1000 mg
Overdose		
Dextrose 25%	0.5 gm/kg	10.5 gm
Naloxone	0.1 mg/kg	2 mg
Glucagon		1 mg
Activated Charcoal	1 gm/kg	20 gm
Seizure		
Lorazepam	0.1 mg/kg	2 mg
Respiratory/ Allergy		
Albuterol		2.5 mg
Epinephrine 1:1000 NEBULIZED		2 mg 2 mL
Fentanyl	2 mcg/kg	40 mcg
Acetaminophen	20 mg/kg	400 mg

## Approximate Weight 27 kg / age 7-8 years

### Equipment

Oral Airway	80 mm	BVM	Child
Nasal Airway	26 fr	ETCO2	Adult
Endotracheal Tube	6	Vascular Access	18-20 g
Stylet	14 fr	Intraosseous	15 g
Laryngoscope	2 straight/ curved	NG Tube	14-18 fr
ET Insertion length	17-18 cm		



### Defibrillation

First dose	54 j
Second dose	108 j

### Cardioversion

First dose	26 j
Second dose	52 j

### Fluids

Bolus	540 ml
Maintenance	70 ml/hr

Heart Rate	70-120
Respiratory Rate	18-30
Minimum SBP	80

### Rapid Sequence Intubation

#### Pre-Medication

DRUG	DOSE	ADMINISTER
Atropine	0.02 mg/kg	0.54 mg
Lidocaine	1.5 mg/kg	40 mg

#### Induction

Midazolam	0.1 mg/kg	2.7 mg
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#### Paralytic

Succinylcholine	2 mg/kg	54 mg
Rocuronium	1 mg/kg	27 mg

#### Maintenance

Lorazepam	0.1 mg/kg	2.7 mg
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## Approximate Weight 27 kg / age 7-8 years con't

Resuscitation		
DRUG	DOSE	ADMINISTER
Epinephrine 1:10,000	0.01 mg/kg	0.27 mg
Atropine	0.02 mg/kg	0.54 mg
Bicarbonate 8.4%	1 mEq/kg	27 mEq
Lidocaine	1 mg/kg	27 mg
Adenosine		
First Dose	0.1 mg/kg	2.7 mg
Second Dose	0.2 mg/kg	5.4 mg
Amiodarone	5 mg/kg	135 mg
Calcium Chloride	20 mg/kg	540 mg
Magnesium Sulfate	50 mg/kg	1350 mg
Overdose		
Dextrose 50%	0.5 gm/kg	13.5 gm
Naloxone	0.1 mg/kg	2.7 mg
Glucagon		1 mg
Activated Charcoal	1 gm/kg	27 mg
Seizure		
Lorazepam	0.1 mg/kg	2.7 mg
Respiratory/ Allergy		
Albuterol		2.5 mg
Epinephrine 1:1000 NEBULIZED		3 mg 3 mL
Fentanyl	2 mcg/kg	54 mcg
Acetaminophen	20 mg/kg	540 mg

## Approximate Weight 33 kg / age 9-10 year

### Equipment

Oral Airway	80 mm	BVM	Adult
Nasal Airway	30 fr	ETCO2	Adult
Endotracheal Tube	6.5	Vascular Access	16-20 g
Stylet	14 fr	Intraosseous	15 g
Laryngoscope	3 straight/ curved	NG Tube	18 fr
ET Insertion length	18.5-19.5 cm		

### Defibrillation

First dose	66 j
Second dose	132 j

### Cardioversion

First dose	33 j
Second dose	66 j

### Fluids

Bolus	660 ml
Maintenance	75 ml/hr



Heart Rate	70-120
Respiratory Rate	18-30
Minimum SBP	90

### Rapid Sequence Intubation

#### Pre-Medication

DRUG	DOSE	ADMINISTER
Atropine	0.02 mg/kg	0.7 mg
Lidocaine	1.5 mg/kg	50 mg

#### Induction

Midazolam	0.1 mg/kg	3.3 mg
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#### Paralytic

Succinylcholine	2 mg/kg	66 mg
Rocuronium	1 mg/kg	33 mg

#### Maintenance

Lorazepam	0.1 mg/kg	3.3 mg
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## Approximate Weight 33 kg / age 9-10 year con't

Resuscitation		
DRUG	DOSE	ADMINISTER
Epinephrine 1:10,000	0.01 mg/kg	0.33 mg
Atropine	0.02 mg/kg	0.7 mg
Bicarbonate 8.4%	1 mEq/kg	33 mEq
Lidocaine	1 mg/kg	33 mg
Adenosine		
First Dose	0.1 mg/kg	3.3 mg
Second Dose	0.2 mg/kg	6 mg
Amiodarone	5 mg/kg	165 mg
Calcium Chloride	20 mg/kg	660 mg
Magnesium Sulfate	50 mg/kg	1650 mg
Overdose		
Dextrose 50%	0.5 gm/kg	16.5 gm
Naloxone	0.1 mg/kg	3.3 mg
Glucagon		1.0 mg
Activated Charcoal	1 gm/kg	33 gm
Seizure		
Lorazepam	0.1 mg/kg	3.3 mg
Respiratory/ Allergy		
Albuterol		2.5 mg
Epinephrine 1:1000 NEBULIZED		3mg 3mL
Fentanyl	2 mcg/kg	66 mcg
Acetaminophen	20 mg/kg	660 mg