

Pediatric



Resuscitation Guide

1kg 2.2lbs

BOLUS DRUGS	DOSAGE	ROUTE	mg	mL
ADENOSINE 6mg / 2mL FIRST DOSE	0.1mg / kg	IV, IO	0.1	0.03
ADENOSINE 6mg / 2mL SECOND DOSE	0.2mg / kg	IV, IO	0.2	0.07
AMIODARONE 50mg / mL	5mg / kg	IV, IO	5	0.10
ATROPINE 1mg / 1ml	.06mg / kg	ET	0.1	0.10
ATROPINE 1mg / 10mL (min. dose 0.1mg)	.02mg / kg	IV, IO	0.1	1.00
CALCIUM CHLORIDE (10%) 1g / 10 mL	20mg / kg	IV, IO (SLOW)	20	0.20
DEXTROSE 50% (Dilute 1:1) 0.5 Grams/ml *** NOTE Draw equal ml of drug & saline	0.5 Grams /kg	IV, IO	0.5 Grams	1.00 EACH
DIAZEPAM 5mg / mL	0.25mg / kg	IV, IO, RECTAL	0.25	0.05
EPINEPHRINE 1mg / 10mL (1:10,000)	.01mg / kg	INITIAL IV, IO	0.01	0.10
EPINEPHRINE 1mg / ml (1:1000)	0.1mg / kg	ET	0.1	0.10
FENTANYL 50 mcg/mL (Dilute in 5mL NaCl)	1 mcg/kg	IV	1	0.02
LIDOCAINE 2% 20mg / mL	1mg / kg	IV, IO	1	0.05
LORAZEPAM IV 2mg/ml (Dilute 1:1) *** NOTE - draw equal ml of drug & saline	0.1mg / kg	IV, IO	0.1	0.05 EACH
LORAZEPAM RECTAL 2mg/ml (Do NOT dilute)	0.1mg / kg	RECTAL	0.1	0.05
MAGNESIUM SULFATE 5G / 10ml (*** Dilute in 50ml IV Mini Bag ***)	25-50 mg/kg	MAX DOSE IV, IO (10-20 Min)	50	0.10
MORPHINE 10mg / mL	0.1mg / kg	IV, IO	0.1	0.01
NARCAN - NARCAN 0.4 mg / ml	0.1mg / kg	IV, IO, ET	0.1	0.25
SODIUM BICARBONATE (8.4%) 50mEq / 50ml	1mEq / kg	IV, IO (SLOW)	1 mEq	1.00
SUCCLINYLCHOLINE 200mg / 10mL	2mg / kg	IV, IO	2	0.10
VERSED (MIDAZOLAM) 5mg / 5mL CONTACT MEDICAL CONTROL	0.1mg / kg	IV, IO CONTACT MEDICAL CONTROL		
ANAPHYLAXIS				
EPINEPHRINE - ANAPHYLAXIS (1:1000)	0.01mg/kg	SQ,IM	0.01	0.01
DIPHENHYDRAMINE (50mg/mL)	1 mg/kg	IV,IO	1	0.02
ALTERED MENTAL STATUS / HYPOGLYCEMIA				
GLUCAGON (1mg powder / 1mL NaCl)	0.1 mg/kg	IM	0.1	0.10

1 kg 2.2lbs

NORMS (50th Percentile)	B/P	40 - 60 systolic
	HEART RATE	120 - 160
	RESPIRATIONS	30 - 60

EQUIPMENT	BVM	PREMATURE / NEWBORN
	OXYGEN MASK	NEWBORN
	B/P CUFF	NEWBORN / INFANT
	BLADE	# 0 STRAIGHT
	ET TUBE - Cuffed	2.5 - 3.0 - 3.5
	Un-Cuffed	3.0 - 3.5 - 4.0
	ET SUCTION	5F
	IV CATHETER	24 gage
	INTRAOSSEOUS	18 - 15 gauge

	Joules Dose	Joules to Deliver
CARDIOVERSION #1	0.5j - 1 / kg	1
#2 and subsequent	2j / kg	2
DEFIBRILLATION #1	2j / kg	2
#2	4j / kg	4
max	10j / kg	10

DEFIBRILLATION PADS Pediatric

FLUID RESUSCITATION 20 mL / kg **20 mL**

***** NOTE ***** Drugs in **RED** are administered via ET Tube and must be followed with up to 5ml of Saline

2kg 4.4lbs

BOLUS DRUGS	DOSAGE	ROUTE	mg	mL
ADENOSINE 6mg / 2mL FIRST DOSE	0.1mg / kg	IV, IO	0.2	0.07
ADENOSINE 6mg / 2mL SECOND DOSE	0.2mg / kg	IV, IO	0.4	0.13
AMIODARONE 50mg / mL	5mg / kg	IV, IO	10	0.20
ATROPINE 1mg / 1ml	.06mg / kg	ET	0.12	0.12
IN ATROPINE 1mg / 10mL (min. dose 0.1mg)	.02mg / kg	IV, IO	0.1	1.00
CALCIUM CHLORIDE (10%) 1g / 10 mL	20mg / kg	IV, IO (SLOW)	40	0.40
DEXTROSE 50% (Dilute 1:1) 0.5 Grams/ml *** NOTE Draw equal ml of drug & saline	0.5 Grams /kg	IV, IO	1 Gram	2.00 EACH
DIAZEPAM 5mg / mL	0.25mg / kg	IV, IO, RECTAL	0.5	0.10
EPINEPHRINE 1mg / 10mL (1:10,000)	.01mg / kg	IV, IO	0.02	0.20
EPINEPHRINE 1mg / ml (1:1000)	0.1mg / kg	ET	0.2	0.20
FENTANYL 50 mcg/mL (Dilute in 5mL NaCl)	1 mcg/kg	IV	2	0.04
LIDOCAINE 2% 20mg / mL	1mg / kg	IV, IO	2	0.10
LORAZEPAM IV 2mg/ml (Dilute 1:1) *** NOTE - draw equal ml of drug & saline	0.1mg / kg	IV, IO	0.2	0.10 EACH
LORAZEPAM RECTAL 2mg/ml (Do NOT dilute)	0.1mg / kg	RECTAL	0.2	0.10
MAGNESIUM SULFATE 5G / 10ml (*** Dilute in 50ml IV Mini Bag ***)	25-50 mg/kg	MAX DOSE IV, IO (10-20 Min)	100	0.20
MORPHINE 10mg / mL	0.1mg / kg	IV, IO	0.2	0.02
NARCAN - NARCAN 0.4 mg / ml	0.1mg / kg	IV, IO, ET	0.2	0.50
SODIUM BICARBONATE (8.4%) 50mEq / 50ml	1mEq / kg	IV, IO (SLOW)	2 mEq	2.00
SUCCINYLCHOLINE 200mg / 10mL	2mg / kg	IV, IO	4	0.20
VERSED (MIDAZOLAM) 5mg / 5mL CONTACT MEDICAL CONTROL	0.1mg / kg	IV, IO CONTACT MEDICAL CONTROL		
ANAPHYLAXIS				
EPINEPHRINE - ANAPHYLAXIS (1:1000)	0.01mg/kg	SQ,IM	0.02	0.02
DIPHENHYDRAMINE (50mg/mL)	1 mg/kg	IV,IO	2	0.04
ALTERED MENTAL STATUS / HYPOGLYCEMIA				
GLUCAGON (1mg powder / 1mL NaCl)	0.1 mg/kg	IM	0.2	0.20

2kg 4.4lbs

NORMS (50th Percentile)	B/P	40 - 60 systolic
	HEART RATE	120 - 160
	RESPIRATIONS	30 - 60

EQUIPMENT	BVM	PREMATURE / NEWBORN
	OXYGEN MASK	NEWBORN
	B/P CUFF	NEWBORN / INFANT
	BLADE	# 0 STRAIGHT
	ET TUBE - Cuffed	2.5 - 3.0 - 3.5
	Un-Cuffed	3.0 - 3.5 - 4.0
	ET SUCTION	5F
	IV CATHETER	24 gage
	INTRAOSSUEOUS	18 - 15 gauge

	Joules Dose	Joules to Deliver
CARDIOVERSION #1	0.5j - 1 / kg	2 Max
#2 and subsequent	2j / kg	4
DEFIBRILLATION #1	2j / kg	4
#2	4j / kg	8
max	10j / kg	20

DEFIBRILLATION PADS Pediatric

FLUID RESUSCITATION 20 mL / kg 40 mL

***** NOTE ***** Drugs in RED are administered via ET Tube and must be followed with up to 5ml of Saline

3kg 6.6lbs

BOLUS DRUGS	DOSAGE	ROUTE	mg	mL
ADENOSINE 6mg / 2mL FIRST DOSE	0.1mg / kg	IV, IO	0.3	0.10
ADENOSINE 6mg / 2mL SECOND DOSE	0.2mg / kg	IV, IO	0.6	0.20
AMIODARONE 50mg / mL	5mg / kg	IV, IO	15	0.30
ATROPINE 1mg / 1ml	.06mg / kg	ET	0.18	0.18
ATROPINE 1mg / 10mL (min. dose 0.1mg)	.02mg / kg	IV, IO	0.1	1.00
CALCIUM CHLORIDE (10%) 1g / 10 mL	20mg / kg	IV, IO (SLOW)	60	0.60
DEXTROSE 50% (Dilute 1:1) 0.5 Grams/ml *** NOTE Draw equal ml of drug & saline	0.5 Grams /kg	IV, IO	1.5 Grams	3.00 EACH
DIAZEPAM 5mg / mL	0.25mg / kg	IV, IO, RECTAL	0.75	0.15
EPINEPHRINE 1mg / 10mL (1:10,000)	.01mg / kg	IV, IO	0.03	0.30
EPINEPHRINE 1mg / ml (1:1000)	0.1mg / kg	ET	0.3	0.30
FENTANYL 50 mcg/mL (Dilute in 5mL NaCl)	1 mcg/kg	IV	3	0.06
LIDOCAINE 2% 20mg / mL	1mg / kg	IV, IO	3	0.15
LORAZEPAM IV 2mg/ml (Dilute 1:1) *** NOTE - draw equal ml of drug & saline	0.1mg / kg	IV, IO	0.3	0.15 EACH
LORAZEPAM RECTAL 2mg/ml (Do NOT dilute)	0.1mg / kg	RECTAL	0.3	0.15
MAGNESIUM SULFATE 5G / 10ml (*** Dilute in 50ml IV Mini Bag ***)	25-50 mg/kg	MAX DOSE IV, IO (10-20 Min)	150	0.30
MORPHINE 10mg / mL	0.1mg / kg	IV, IO	0.3	0.03
NARCAN - NARCAN 0.4 mg / ml	0.1mg / kg	IV, IO, ET	0.3	0.75
SODIUM BICARBONATE (8.4%) 50mEq / 50ml	1mEq / kg	IV, IO (SLOW)	3 mEq	3.00
SUCCINYLCHOLINE 200mg / 10mL	2mg / kg	IV, IO	6	0.30
VERSED (MIDAZOLAM) 5mg / 5mL CONTACT MEDICAL CONTROL	0.1mg / kg	IV, IO MAX 5 mg		
ANAPHYLAXIS				
EPINEPHRINE - ANAPHYLAXIS (1:1000)	0.01mg/kg	SQ,IM	0.03	0.03
DIPHENHYDRAMINE (50mg/mL)	1 mg/kg	IV,IO	3	0.06
ALTERED MENTAL STATUS / HYPOGLYCEMIA				
GLUCAGON (1mg powder / 1mL NaCl)	0.1 mg/kg	IM	0.3	0.30

3kg 6.6lbs

NORMS (50th Percentile)	B/P	50-70 systolic
	HEART RATE	110 - 160
	RESPIRATIONS	30 - 60

EQUIPMENT	BVM	NEWBORN / INFANT
	OXYGEN MASK	NEWBORN
	B/P CUFF	NEWBORN / INFANT
	BLADE	# 0 - 1 STRAIGHT
	ET TUBE - Cuffed	2.5 - 3.0 - 3.5
	Un-Cuffed	3.0 - 3.5 - 4.0
	ET SUCTION	6F
	IV CATHETER	24 gage
	INTRAOSSEOUS	18 - 15 gauge

	Joules Dose	Joules to Deliver
CARDIOVERSION #1	0.5j - 1 / kg	3 Max
#2 and subsequent	2j / kg	6

DEFIBRILLATION	#1	2j / kg	6
	#2	4j / kg	12
	max	10j / kg	30

DEFIBRILLATION PADS Pediatric

FLUID RESUSCITATION 20 mL / kg **60 mL**

***** NOTE ***** Drugs in RED are administered via ET Tube and must be followed with up to 5ml of Saline

4kg 8.8lbs

BOLUS DRUGS	DOSAGE	ROUTE		
			mg	mL
ADENOSINE 6mg / 2mL FIRST DOSE	0.1mg / kg	IV, IO	0.4	0.13
ADENOSINE 6mg / 2mL SECOND DOSE	0.2mg / kg	IV, IO	0.8	0.27
AMIODARONE 50mg / mL	5mg / kg	IV, IO	20	0.40
ATROPINE 1mg / 1ml	.06mg / kg	ET	0.24	0.24
ATROPINE 1mg / 10mL (min. dose 0.1mg)	.02mg / kg	IV, IO	0.1	1.00
CALCIUM CHLORIDE (10%) 1g / 10 mL	20mg / kg	IV, IO (SLOW)	80	0.80
DEXTROSE 50% (Dilute 1:1) 0.5 Grams/ml *** NOTE Draw equal ml of drug & saline	0.5 Grams /kg	IV, IO	2 Grams	4.00 EACH
DIAZEPAM 5mg / mL	0.25mg / kg	IV, IO, RECTAL	1	0.20
EPINEPHRINE 1mg / 10mL (1:10,000)	.01mg / kg	IV, IO	0.04	0.40
EPINEPHRINE 1mg / ml (1:1000)	0.1mg / kg	ET	0.4	0.40
FENTANYL 50 mcg/mL (Dilute in 5mL NaCl)	1 mcg/kg	IV	4	0.08
LIDOCAINE 2% 20mg / mL	1mg / kg	IV, IO	4	0.20
LORAZEPAM IV 2mg/ml (Dilute 1:1) *** NOTE - draw equal ml of drug & saline	0.1mg / kg	IV, IO	0.4	0.20 EACH
LORAZEPAM RECTAL 2mg/ml (Do NOT dilute)	0.1mg / kg	RECTAL	0.4	0.20
MAGNESIUM SULFATE 5G / 10ml (*** Dilute in 50ml IV Mini Bag ***)	25-50 mg/kg	MAX DOSE IV, IO (10-20 Min)	200	0.40
MORPHINE 10mg / mL	0.1mg / kg	IV, IO	0.4	0.04
NARCAN - NARCAN 0.4 mg / ml	0.1mg / kg	IV, IO, ET	0.4	1.00
SODIUM BICARBONATE (8.4%) 50mEq / 50ml	1mEq / kg	IV, IO (SLOW)	4 mEq	4.00
SUCCINYLCHOLINE 200mg / 10mL	2mg / kg	IV, IO	8	0.40
VERSED (MIDAZOLAM) 5mg / 5mL CONTACT MEDICAL CONTROL	0.1mg / kg	IV, IO MAX 5 mg		
ANAPHYLAXIS				
EPINEPHRINE - ANAPHYLAXIS (1:1000)	0.01mg/kg	SQ,IM	0.04	0.04
DIPHENHYDRAMINE (50mg/mL)	1 mg/kg	IV,IO	4	0.08
ALTERED MENTAL STATUS / HYPOGLYCEMIA				
GLUCAGON (1mg powder / 1mL NaCl)	0.1 mg/kg	IM	0.4	0.40

4kg 8.8lbs

NORMS (50th Percentile)	B/P	50 - 70 systolic
	HEART RATE	110 - 160
	RESPIRATIONS	30 - 60

EQUIPMENT	BVM	NEWBORN / INFANT
	OXYGEN MASK	NEWBORN / INFANT
	B/P CUFF	NEWBORN / INFANT
	BLADE	#1 STRAIGHT
	ET TUBE - Cuffed	2.5 - 3.0 - 3.5
	Un-Cuffed	3.0 - 3.5 - 4.0
	ET SUCTION	8F
	IV CATHETER	22 - 24 gage
	INTRAOSSEOUS	18 - 15 gauge

	Joules Dose	Joules to Deliver
CARDIOVERSION #1	0.5j - 1 / kg	4 Max
#2 and subsequent	2j / kg	8

DEFIBRILLATION	#1	2j / kg	8
	#2	4j / kg	16
	max	10j / kg	40

DEFIBRILLATION PADS Pediatric

FLUID RESUSCITATION 20 mL / kg **80 mL**

5kg 11lbs

BOLUS DRUGS	DOSAGE	ROUTE	mg	mL
ADENOSINE 6mg / 2mL FIRST DOSE	0.1mg / kg	IV, IO	0.5	0.17
ADENOSINE 6mg / 2mL SECOND DOSE	0.2mg / kg	IV, IO	1	0.33
AMIODARONE 50mg / mL	5mg / kg	IV, IO	25	0.50
ATROPINE 1mg / 1ml	.06mg / kg	ET	0.3	0.30
ATROPINE 1mg / 10mL (min. dose 0.1mg)	.02mg / kg	IV, IO	0.1	1.00
CALCIUM CHLORIDE (10%) 1g / 10 mL	20mg / kg	IV, IO (SLOW)	100	1.00
DEXTROSE 50% (Dilute 1:1) 0.5 Grams/ml *** NOTE Draw equal ml of drug & saline	0.5 Grams /kg	IV, IO	2.5 Grams	5.00 EACH
DIAZEPAM 5mg / mL	0.25mg / kg	IV, IO, RECTAL	1.25	0.25
EPINEPHRINE 1mg / 10mL (1:10,000)	.01mg / kg	IV, IO	0.05	0.50
EPINEPHRINE 1mg / ml (1:1000)	0.1mg / kg	ET	0.5	0.50
FENTANYL 50 mcg/mL (Dilute in 5mL NaCl)	1 mcg/kg	IV	5	0.10
LIDOCAINE 2% 20mg / mL	1mg / kg	IV, IO	5	0.25
LORAZEPAM IV 2mg/ml (Dilute 1:1) *** NOTE - draw equal ml of drug & saline	0.1mg / kg	IV, IO	0.5	0.25 EACH
LORAZEPAM RECTAL 2mg/ml (Do NOT dilute)	0.1mg / kg	RECTAL	0.5	0.25
MAGNESIUM SULFATE 5G / 10ml (*** Dilute in 50ml IV Mini Bag ***)	25-50 mg/kg	MAX DOSE IV, IO (10-20 Min)	250	0.50
MORPHINE 10mg / mL	0.1mg / kg	IV, IO	0.5	0.05
NARCAN - NARCAN 0.4 mg / ml	0.1mg / kg	IV, IO, ET	0.5	1.25
SODIUM BICARBONATE (8.4%) 50mEq / 50ml	1mEq / kg	IV, IO (SLOW)	5 mEq	5.00
SUCCINYLCHOLINE 200mg / 10mL	2mg / kg	IV, IO	10	0.50
VERSED (MIDAZOLAM) 5mg / 5mL CONTACT MEDICAL CONTROL	0.1mg / kg	IV, IO MAX 5 mg		
ANAPHYLAXIS				
EPINEPHRINE - ANAPHYLAXIS (1:1000)	0.01mg/kg	SQ,IM	0.05	0.05
DIPHENHYDRAMINE (50mg/mL)	1 mg/kg	IV,IO	5	0.10
ALTERED MENTAL STATUS / HYPOGLYCEMIA				
GLUCAGON (1mg powder / 1mL NaCl)	0.1 mg/kg	IM	0.5	0.50

5kg 11lbs

NORMS (50th Percentile)	B/P	50 - 70 systolic
	HEART RATE	110 - 160
	RESPIRATIONS	30 - 60

EQUIPMENT	BVM	NEWBORN / INFANT
	OXYGEN MASK	NEWBORN / INFANT
	B/P CUFF	NEWBORN / INFANT
	BLADE	#1 STRAIGHT
	ET TUBE - Cuffed	2.5 - 3.0 - 3.5
	Un-Cuffed	3.0 - 3.5 - 4.0
	ET SUCTION	8F
	IV CATHETER	22 - 24 gage
	INTRAOSSEOUS	18 - 15 gauge

	Joules Dose	Joules to Deliver
CARDIOVERSION #1	0.5j - 1 / kg	5 Max
#2 and subsequent	2j / kg	10

DEFIBRILLATION	#1	2j / kg	10
	#2	4j / kg	20
	max	10j / kg	50

DEFIBRILLATION PADS Pediatric

FLUID RESUSCITATION 20 mL / kg 100 mL

6kg 13.2lbs

BOLUS DRUGS	DOSAGE	ROUTE	mg	mL
ADENOSINE 6mg / 2mL FIRST DOSE	0.1mg / kg	IV, IO	0.6	0.20
ADENOSINE 6mg / 2mL SECOND DOSE	0.2mg / kg	IV, IO	1.2	0.40
AMIODARONE 50mg / mL	5mg / kg	IV, IO	30	0.60
ATROPINE 1mg / 1ml	.06mg / kg	ET	0.36	0.36
ATROPINE 1mg / 10mL (min. dose 0.1mg)	.02mg / kg	IV, IO	0.12	1.20
CALCIUM CHLORIDE (10%) 1g / 10 mL	20mg / kg	IV, IO (SLOW)	120	1.20
DEXTROSE 50% (Dilute 1:1) 0.5 Grams/ml *** NOTE Draw equal ml of drug & saline	0.5 Grams /kg	IV, IO	3 Grams	6.00 EACH
DIAZEPAM 5mg / mL	0.25mg / kg	IV, IO, RECTAL	1.5	0.30
EPINEPHRINE 1mg / 10mL (1:10,000)	.01mg / kg	IV, IO	0.06	0.60
EPINEPHRINE 1mg / ml (1:1000)	0.1mg / kg	ET	0.6	0.60
FENTANYL 50 mcg/mL (Dilute in 5mL NaCl)	1 mcg/kg	IV	6	0.12
LIDOCAINE 2% 20mg / mL	1mg / kg	IV, IO	6	0.30
LORAZEPAM IV 2mg/ml (Dilute 1:1) *** NOTE - draw equal ml of drug & saline	0.1mg / kg	IV, IO	0.6	0.30 EACH
LORAZEPAM RECTAL 2mg/ml (Do NOT dilute)	0.1mg / kg	RECTAL	0.6	0.30
MAGNESIUM SULFATE 5G / 10ml (*** Dilute in 50ml IV Mini Bag ***)	25-50 mg/kg	MAX DOSE IV, IO (10-20 Min)	300	0.60
MORPHINE 10mg / mL	0.1mg / kg	IV, IO	0.6	0.06
NARCAN - NARCAN 0.4 mg / ml	0.1mg / kg	IV, IO, ET	0.6	1.50
SODIUM BICARBONATE (8.4%) 50mEq / 50ml	1mEq / kg	IV, IO (SLOW)	6 mEq	6.00
SUCCINYLCHOLINE 200mg / 10mL	2mg / kg	IV, IO	12	0.60
VERSED (MIDAZOLAM) 5mg / 5mL CONTACT MEDICAL CONTROL	0.1mg / kg	IV, IO MAX 5 mg		
ANAPHYLAXIS				
EPINEPHRINE - ANAPHYLAXIS (1:1000)	0.01mg/kg	SQ,IM	0.06	0.06
DIPHENHYDRAMINE (50mg/mL)	1 mg/kg	IV,IO	6	0.12
ALTERED MENTAL STATUS / HYPOGLYCEMIA				
GLUCAGON (1mg powder / 1mL NaCl)	0.1 mg/kg	IM	0.5	0.50

6kg 13.2lbs

NORMS (50th Percentile)	B/P	50 - 70 systolic
	HEART RATE	110 - 160
	RESPIRATIONS	30 - 60

EQUIPMENT	BVM	NEWBORN / INFANT
	OXYGEN MASK	NEWBORN / INFANT
	B/P CUFF	NEWBORN / INFANT
	BLADE	#1 STRAIGHT
	ET TUBE - Cuffed	2.5 - 3.0 - 3.5
	Un-Cuffed	3.0 - 3.5 - 4.0
	ET SUCTION	8F
	IV CATHETER	22 - 24 gage
	INTRAOSSEROUS	18 - 15 gauge

	Joules Dose	Joules to Deliver
CARDIOVERSION #1	0.5j - 1 / kg	6 Max
#2 and subsequent	2j / kg	12
DEFIBRILLATION	#1 2j / kg	12
	#2 4j / kg	24
	max 10j / kg	60

DEFIBRILLATION PADS Pediatric

FLUID RESUSCITATION 20 mL / kg 120 mL

7kg 15.4lbs

BOLUS DRUGS	DOSAGE	ROUTE	mg	mL
ADENOSINE 6mg / 2mL FIRST DOSE	0.1mg / kg	IV, IO	0.7	0.23
ADENOSINE 6mg / 2mL SECOND DOSE	0.2mg / kg	IV, IO	1.4	0.47
AMIODARONE 50mg / mL	5mg / kg	IV, IO	35	0.70
ATROPINE 1mg / 1ml	.06mg / kg	ET	0.42	0.42
ATROPINE 1mg / 10mL (min. dose 0.1mg)	.02mg / kg	IV, IO	0.14	1.40
CALCIUM CHLORIDE (10%) 1g / 10 mL	20mg / kg	IV, IO (SLOW)	140	1.40
DEXTROSE 50% (Dilute 1:1) 0.5 Grams/ml *** NOTE Draw equal ml of drug & saline	0.5 Grams /kg	IV, IO	3.5 Grams	7.00 EACH
DIAZEPAM 5mg / mL	0.25mg / kg	IV, IO, RECTAL	1.75	0.35
EPINEPHRINE 1mg / 10mL (1:10,000)	.01mg / kg	IV, IO	0.07	0.70
EPINEPHRINE 1mg / ml (1:1000)	0.1mg / kg	ET	0.7	0.70
FENTANYL 50 mcg/mL (Dilute in 5mL NaCl)	1 mcg/kg	IV	7	0.14
LIDOCAINE 2% 20mg / mL	1mg / kg	IV, IO	7	0.35
LORAZEPAM IV 2mg/ml (Dilute 1:1) *** NOTE - draw equal ml of drug & saline	0.1mg / kg	IV, IO	0.7	0.35 EACH
LORAZEPAM RECTAL 2mg/ml (Do NOT dilute)	0.1mg / kg	RECTAL	0.7	0.35
MAGNESIUM SULFATE 5G / 10ml (*** Dilute in 50ml IV Mini Bag ***)	25-50 mg/kg	MAX DOSE IV, IO (10-20 Min)	350	0.70
MORPHINE 10mg / mL	0.1mg / kg	IV, IO	0.7	0.07
NARCAN - NARCAN 0.4 mg / ml	0.1mg / kg	IV, IO, ET	0.7	1.75
SODIUM BICARBONATE (8.4%) 50mEq / 50ml	1mEq / kg	IV, IO (SLOW)	7 mEq	7.00
SUCCINYLCHOLINE 200mg / 10mL	2mg / kg	IV, IO	14	0.70
VERSED (MIDAZOLAM) 5mg / 5mL CONTACT MEDICAL CONTROL	0.1mg / kg	IV, IO MAX 5 mg		
ANAPHYLAXIS				
EPINEPHRINE - ANAPHYLAXIS (1:1000)	0.01mg/kg	SQ,IM	0.07	0.07
DIPHENHYDRAMINE (50mg/mL)	1 mg/kg	IV,IO	7	0.14
ALTERED MENTAL STATUS / HYPOGLYCEMIA				
GLUCAGON (1mg powder / 1mL NaCl)	0.1 mg/kg	IM	0.5	0.50

7kg 15.4lbs

NORMS (50th Percentile)	B/P	80 - 100 systolic
	HEART RATE	90 - 130
	RESPIRATIONS	24 - 40

EQUIPMENT	BVM	NEWBORN / INFANT
	OXYGEN MASK	NEWBORN / INFANT
	B/P CUFF	NEWBORN / INFANT
	BLADE	#1 STRAIGHT
	ET TUBE - Cuffed	2.5 - 3.0 - 3.5
	Un-Cuffed	3.0 - 3.5 - 4.0
	ET SUCTION	8F
	IV CATHETER	22 - 24 gage
	INTRAOSSEOUS	18 - 15 gauge

	Joules Dose	Joules to Deliver
CARDIOVERSION #1	0.5j - 1 / kg	7 Max
#2 and subsequent	2j / kg	14
DEFIBRILLATION #1	2j / kg	14
#2	4j / kg	28
max	10j / kg	70

DEFIBRILLATION PADS Pediatric

FLUID RESUSCITATION 20 mL / kg 140 ml

8kg 17.6lbs

BOLUS DRUGS	DOSAGE	ROUTE	mg	mL
ADENOSINE 6mg / 2mL FIRST DOSE	0.1mg / kg	IV, IO	0.8	0.27
ADENOSINE 6mg / 2mL SECOND DOSE	0.2mg / kg	IV, IO	1.6	0.53
AMIONARONE 50mg / mL	5mg / kg	IV, IO	40	0.80
ATROPINE 1mg / 1ml	0.06mg / kg	ET	0.48	0.48
ATROPINE 1mg / 10mL (min. dose 0.1mg)	.02mg / kg	IV, IO	0.16	1.60
CALCIUM CHLORIDE (10%) 1g / 10 mL	20mg / kg	IV, IO (SLOW)	160	1.60
DEXTROSE 50% (Dilute 1:1) 0.5 Grams/ml *** NOTE Draw equal ml of drug & saline	0.5 grams / kg	IV, IO	4	8.00 EACH
DIAZEPAM 5mg / mL	0.25mg / kg	IV, IO, RECTAL	2	0.40
EPINEPHRINE 1mg / 10mL (1:10,000)	.01mg / kg	IV, IO	0.08	0.80
EPINEPHRINE 1mg / ml (1:1000)	0.1mg / kg	ET	0.8	0.80
FENTANYL 50 mcg/mL (Dilute in 5mL NaCl)	1 mcg/kg	IV	8	0.16
LIDOCAINE 2% 20mg / mL	1mg / kg	IV, IO	8	0.40
LORAZEPAM IV 2mg/ml (Dilute 1:1) *** NOTE - draw equal ml of drug & saline	0.1mg / kg	IV, IO	0.8	0.40 EACH
LORAZEPAM RECTAL 2mg/ml (Do NOT dilute)	0.1mg / kg	RECTAL	0.8	0.40
MAGNESIUM SULFATE 5G / 10ml (*** Dilute in 50ml IV Mini Bag ***)	25-50 mg/kg	MAX DOSE IV, IO (10-20 Min)	400	0.80
MORPHINE 10mg / mL	0.1mg / kg	IV, IO	0.8	0.08
NARCAN - NARCAN 0.4 mg / ml	0.1mg / kg	IV, IO, ET	0.8	2.00
SODIUM BICARBONATE (8.4%) 50mEq / 50ml	1mEq / kg	IV, IO (SLOW)	8 mEq	8.00
SUCCINYLCHOLINE 200mg / 10mL	2mg / kg	IV, IO	16	0.80
VERSED (MIDAZOLAM) 5mg / 5mL CONTACT MEDICAL CONTROL	0.1mg / kg	IV, IO MAX 5 mg		
ANAPHYLAXIS				
EPINEPHRINE - ANAPHYLAXIS (1:1000)	0.01mg/kg	SQ,IM	0.08	0.08
DIPHENHYDRAMINE (50mg/mL)	1 mg/kg	IV,IO	8	0.16
ALTERED MENTAL STATUS / HYPOGLYCEMIA				
GLUCAGON (1mg powder / 1mL NaCl)	0.1 mg/kg	IM	0.5	0.50

8kg 17.6lbs

NORMS (50th Percentile)	B/P	80 - 100 systolic
	HEART RATE	90 - 130
	RESPIRATIONS	24 - 40

EQUIPMENT	BVM	NEWBORN / INFANT
	OXYGEN MASK	NEWBORN / INFANT
	B/P CUFF	NEWBORN / INFANT
	BLADE	#1 STRAIGHT
	ET TUBE - Cuffed	2.5 - 3.0 - 3.5
	Un-Cuffed	3.0 - 3.5 - 4.0
	ET SUCTION	8F
	IV CATHETER	22 - 24 gage
	INTRAOSSEOUS	18 - 15 gauge

	Joules Dose	Joules to Deliver
CARDIOVERSION #1	0.5j - 1 / kg	8 Max
#2 and subsequent	2j / kg	16
DEFIBRILLATION	#1 2j / kg	16
	#2 4j / kg	32
	max 10j / kg	80

DEFIBRILLATION PADS Pediatric

FLUID RESUSCITATION 20 mL / kg 160 mL

9kg 19.8lbs

BOLUS DRUGS	DOSAGE	ROUTE	mg	mL
ADENOSINE 6mg / 2mL FIRST DOSE	0.1mg / kg	IV, IO	0.9	0.30
ADENOSINE 6mg / 2mL SECOND DOSE	0.2mg / kg	IV, IO	1.8	0.60
AMIODARONE 50mg / mL	5mg / kg	IV, IO	45	0.90
ATROPINE 1mg / 1ml	.06mg / kg	ET	0.54	0.54
ATROPINE 1mg / 10mL (min. dose 0.1mg)	.02mg / kg	IV, IO	0.18	1.80
CALCIUM CHLORIDE (10%) 1g / 10 mL	20mg / kg	IV, IO (SLOW)	180	1.80
DEXTROSE 50% (Dilute 1:1) 0.5 Grams/ml *** NOTE Draw equal ml of drug & saline	0.5 Grams /kg	IV, IO	4.5 Grams	9.00 EACH
DIAZEPAM 5mg / mL	0.25mg / kg	IV, IO, RECTAL	2.25	0.45
EPINEPHRINE 1mg / 10mL (1:10,000)	.01mg / kg	IV, IO	0.09	0.90
EPINEPHRINE 1mg / ml (1:1000)	0.1mg / kg	ET	0.9	0.90
FENTANYL 50 mcg/mL (Dilute in 5mL NaCl)	1 mcg/kg	IV	9	0.18
LIDOCAINE 2% 20mg / mL	1mg / kg	IV, IO	9	0.45
LORAZEPAM IV 2mg/ml (Dilute 1:1) *** NOTE - draw equal ml of drug & saline	0.1mg / kg	IV, IO	0.9	0.45 EACH
LORAZEPAM RECTAL 2mg/ml (Do NOT dilute)	0.1mg / kg	RECTAL	0.9	0.45
MAGNESIUM SULFATE 5G / 10ml (*** Dilute in 50ml IV Mini Bag ***)	25-50 mg/kg	MAX DOSE IV, IO (10-20 Min)	450	0.90
MORPHINE 10mg / mL	0.1mg / kg	IV, IO	0.9	0.09
NARCAN - NARCAN 0.4 mg / ml	0.1mg / kg	IV, IO, ET	0.9	2.25
SODIUM BICARBONATE (8.4%) 50mEq / 50ml	1mEq / kg	IV, IO (SLOW)	9 mEq	9.00
SUCCINYLCHOLINE 200mg / 10mL	2mg / kg	IV, IO	18	0.90
VERSED (MIDAZOLAM) 5mg / 5mL CONTACT MEDICAL CONTROL	0.1mg / kg	IV, IO MAX 5 mg		
ANAPHYLAXIS				
EPINEPHRINE - ANAPHYLAXIS (1:1000)	0.01mg/kg	SQ,IM	0.09	0.09
DIPHENHYDRAMINE (50mg/mL)	1 mg/kg	IV,IO	9	0.18
ALTERED MENTAL STATUS / HYPOGLYCEMIA				
GLUCAGON (1mg powder / 1mL NaCl)	0.1 mg/kg	IM	0.5	0.50

9kg 19.8lbs

NORMS (50th Percentile)	B/P	80 - 100 systolic
	HEART RATE	90 - 124
	RESPIRATIONS	20 - 30

EQUIPMENT	BVM	NEWBORN / INFANT
	OXYGEN MASK	NEWBORN / INFANT
	B/P CUFF	NEWBORN / INFANT
	BLADE	#1 STRAIGHT
	ET TUBE - Cuffed	2.5 - 3.0 - 3.5
	Un-Cuffed	3.0 - 3.5 - 4.0
	ET SUCTION	8F
	IV CATHETER	22 - 24 gage
	INTRAOSSEOUS	18 - 15 gauge

	Joules Dose	Joules to Deliver
CARDIOVERSION #1	0.5j - 1 / kg	9 Max
#2 and subsequent	2j / kg	18

DEFIBRILLATION	#1	2j / kg	18
	#2	4j / kg	36
	max	10j / kg	90

DEFIBRILLATION PADS Pediatric

FLUID RESUSCITATION 20 mL / kg **180 mL**

10kg 22lbs

BOLUS DRUGS	DOSAGE	ROUTE	mg	mL
ADENOSINE 6mg / 2mL FIRST DOSE	0.1mg / kg	IV, IO	1	0.33
ADENOSINE 6mg / 2mL SECOND DOSE	0.2mg / kg	IV, IO	2	0.67
AMIODARONE 50mg / mL	5mg / kg	IV, IO	50	1.00
ATROPINE 1mg / 1ml	.06mg / kg	ET	0.6	0.60
ATROPINE 1mg / 10mL (min. dose 0.1mg)	.02mg / kg	IV, IO	0.2	2.00
CALCIUM CHLORIDE (10%) 1g / 10 mL	20mg / kg	IV, IO (SLOW)	200	2.00
DEXTROSE 50% (Dilute 1:1) 0.5 Grams/ml *** NOTE Draw equal ml of drug & saline	0.5 Grams / kg	IV, IO	5 Grams	10.00 EACH
DIAZEPAM 5mg / mL	0.25mg / kg	IV, IO, RECTAL	2.5	0.50
EPINEPHRINE 1mg / 10mL (1:10,000)	.01mg / kg	IV, IO	0.1	1.00
EPINEPHRINE 1mg / ml (1:1000)	0.1mg / kg	ET	1	1.00
FENTANYL 50 mcg/mL (Dilute in 5mL NaCl)	1 mcg/kg	IV	10	0.20
LIDOCAINE 2% 20mg / mL	1mg / kg	IV, IO	10	0.50
LORAZEPAM IV 2mg/ml (Dilute 1:1) *** NOTE - draw equal ml of drug & saline	0.1mg / kg	IV, IO	1	0.50 EACH
LORAZEPAM RECTAL 2mg/ml (Do NOT dilute)	0.1mg / kg	RECTAL	1	0.50
MAGNESIUM SULFATE 5G / 10ml (*** Dilute in 50ml IV Mini Bag ***)	25-50 mg/kg	MAX DOSE IV, IO (10-20 Min)	500	1.00
MORPHINE 10mg / mL	0.1mg / kg	IV, IO	1	0.10
NARCAN - NARCAN 0.4 mg / ml	0.1mg / kg	IV, IO, ET	1	2.50
SODIUM BICARBONATE (8.4%) 50mEq / 50ml	1mEq / kg	IV, IO (SLOW)	10 mEq	10.00
SUCCINYLCHOLINE 200mg / 10mL	2mg / kg	IV, IO	20	1.00
VERSED (MIDAZOLAM) 5mg / 5mL	0.1mg / kg	IV, IO MAX 5 mg	1	1.00
ANAPHYLAXIS				
EPINEPHRINE - ANAPHYLAXIS (1:1000)	0.01mg/kg	SQ,IM	0.1	0.10
DIPHENHYDRAMINE (50mg/mL)	1 mg/kg	IV,IO	10	0.20
ALTERED MENTAL STATUS / HYPOGLYCEMIA				
GLUCAGON (1mg powder / 1mL NaCl)	0.1 mg/kg	IM	0.5	0.50

10kg 22lbs

NORMS (50th Percentile)	B/P	80 - 100 systolic
	HEART RATE	90 - 124
	RESPIRATIONS	20 - 30

EQUIPMENT	BVM	INFANT
	OXYGEN MASK	INFANT
	B/P CUFF	INFANT
	BLADE	#1 - #2 STRAIGHT
	ET TUBE - Cuffed	3.5 - 4.0 - 4.5
	Un-Cuffed	4.0 - 4.5 - 5.0
	ET SUCTION	8F - 10F
	IV CATHETER	22 - 24 gage
	INTRAOSSEOUS	15 gauge

	Joules Dose	Joules to Deliver
CARDIOVERSION #1	0.5j - 1 / kg	10 Max
#2 and subsequent	2j / kg	20

DEFIBRILLATION	#1	2j / kg	20
	#2	4j / kg	40
	max	10j / kg	100

DEFIBRILLATION PADS Pediatric

FLUID RESUSCITATION 20 mL / kg **200 mL**

12kg 26.4lbs

BOLUS DRUGS	DOSAGE	ROUTE	mg	mL
ADENOSINE 6mg / 2mL FIRST DOSE	0.1mg / kg	IV, IO	1.2	0.40
ADENOSINE 6mg / 2mL SECOND DOSE	0.2mg / kg	IV, IO	2.4	0.80
AMIODARONE 50mg / mL	5mg / kg	IV, IO	60	1.20
ATROPINE 1mg / 1ml	.06mg / kg	ET	0.72	0.72
ATROPINE 1mg / 10mL (min. dose 0.1mg)	.02mg / kg	IV, IO	0.24	2.40
CALCIUM CHLORIDE (10%) 1g / 10 mL	20mg / kg	IV, IO (SLOW)	240	2.40
DEXTROSE 50% (Dilute 1:1) 0.5 Grams/ml *** NOTE Draw equal ml of drug & saline	0.5 Grams /kg	IV, IO	6 Grams	12.00 EACH
DIAZEPAM 5mg / mL	0.25mg / kg	IV, IO, RECTAL	3	0.60
EPINEPHRINE 1mg / 10mL (1:10,000)	.01mg / kg	IV, IO	0.12	1.20
EPINEPHRINE 1mg / ml (1:1000)	0.1mg / kg	ET	1.2	1.20
FENTANYL 50 mcg/mL (Dilute in 5mL NaCl)	1 mcg/kg	IV	12	0.24
LIDOCAINE 2% 20mg / mL	1mg / kg	IV, IO	12	0.60
LORAZEPAM IV 2mg/ml (Dilute 1:1) *** NOTE - draw equal ml of drug & saline	0.1mg / kg	IV, IO	1.2	0.60 EACH
LORAZEPAM RECTAL 2mg/ml (Do NOT dilute)	0.1mg / kg	RECTAL	1.2	0.60
MAGNESIUM SULFATE 5G / 10ml (*** Dilute in 50ml IV Mini Bag ***)	25-50 mg/kg	MAX DOSE IV, IO (10-20 Min)	600	1.20
MORPHINE 10mg / mL	0.1mg / kg	IV, IO	1.2	0.12
NARCAN - NARCAN 0.4 mg / ml	0.1mg / kg	IV, IO, ET	1.2	3.00
SODIUM BICARBONATE (8.4%) 50mEq / 50ml	1mEq / kg	IV, IO (SLOW)	12 mEq	12.00
SUCCINYLCHOLINE 200mg / 10mL	2mg / kg	IV, IO	24	1.20
VERSED (MIDAZOLAM) 5mg / 5mL	0.1mg / kg	IV, IO MAX 5 mg	1.2	1.20
ANAPHYLAXIS				
EPINEPHRINE - ANAPHYLAXIS (1:1000)	0.01mg/kg	SQ,IM	0.12	0.12
DIPHENHYDRAMINE (50mg/mL)	1 mg/kg	IV,IO	12	0.24
ALTERED MENTAL STATUS / HYPOGLYCEMIA				
GLUCAGON (1mg powder / 1mL NaCl)	0.1 mg/kg	IM	0.5	0.50

12kg 26.4lbs

NORMS (50th Percentile)	B/P	80 - 100 systolic
	HEART RATE	90 - 124
	RESPIRATIONS	18 - 22

EQUIPMENT	BVM	INFANT
	OXYGEN MASK	INFANT
	B/P CUFF	INFANT
	BLADE	#1 - #2 STRAIGHT
	ET TUBE - Cuffed	3.5 - 4.0 - 4.5
	Un-Cuffed	4.0 - 4.5 - 5.0
	ET SUCTION	8F - 10F
	IV CATHETER	22 - 24 gage
	INTRAOSSEOUS	15 gauge

	Joules Dose	Joules to Deliver
CARDIOVERSION #1	0.5j - 1 / kg	12 Max
#2 and subsequent	2j / kg	24

DEFIBRILLATION	#1	2j / kg	24
	#2	4j / kg	48
	max	10j / kg	120

DEFIBRILLATION PADS Pediatric

FLUID RESUSCITATION 20 mL / kg **240 mL**

14kg 30.8lbs

BOLUS DRUGS	DOSAGE	ROUTE	mg	mL
ADENOSINE 6mg / 2mL FIRST DOSE	0.1mg / kg	IV, IO	1.4	0.47
ADENOSINE 6mg / 2mL SECOND DOSE	0.2mg / kg	IV, IO	2.8	0.93
AMIODARONE 50mg / mL	5mg / kg	IV, IO	70	1.40
ATROPINE 1mg / 1ml	.06mg / kg	ET	0.84	0.84
ATROPINE 1mg / 10mL (min. dose 0.1mg)	.02mg / kg	IV, IO	0.28	2.80
CALCIUM CHLORIDE (10%) 1g / 10 mL	20mg / kg	IV, IO (SLOW)	280	2.80
DEXTROSE 50% (Dilute 1:1) 0.5 Grams/ml *** NOTE Draw equal ml of drug & saline	0.5 Grams /kg	IV, IO	7 Grams	14.00 EACH
DIAZEPAM 5mg / mL	0.25mg / kg	IV, IO, RECTAL	3.5	0.70
EPINEPHRINE 1mg / 10mL (1:10,000)	.01mg / kg	IV, IO	0.14	1.40
EPINEPHRINE 1mg / ml (1:1000)	0.1mg / kg	ET	1.4	1.40
FENTANYL 50 mcg/mL (Dilute in 5mL NaCl)	1 mcg/kg	IV	14	0.28
LIDOCAINE 2% 20mg / mL	1mg / kg	IV, IO	14	0.70
LORAZEPAM IV 2mg/ml (Dilute 1:1) *** NOTE - draw equal ml of drug & saline	0.1mg / kg	IV, IO	1.4	0.70 EACH
LORAZEPAM RECTAL 2mg/ml (Do NOT dilute)	0.1mg / kg	RECTAL	1.4	0.70
MAGNESIUM SULFATE 5G / 10ml (*** Dilute in 50ml IV Mini Bag ***)	25-50 mg/kg	MAX DOSE IV, IO (10-20 Min)	700	1.40
MORPHINE 10mg / mL	0.1mg / kg	IV, IO	1.4	0.14
NARCAN - NARCAN 0.4 mg / ml	0.1mg / kg	IV, IO, ET	1.4	3.50
SODIUM BICARBONATE (8.4%) 50mEq / 50ml	1mEq / kg	IV, IO (SLOW)	14 mEq	14.00
SUCCINYLCHOLINE 200mg / 10mL	2mg / kg	IV, IO	28	1.40
VERSED (MIDAZOLAM) 5mg / 5mL	0.1mg / kg	IV, IO MAX 5 mg	1.4	1.40
ANAPHYLAXIS				
EPINEPHRINE - ANAPHYLAXIS (1:1000)	0.01mg/kg	SQ,IM	0.14	0.14
DIPHENHYDRAMINE (50mg/mL)	1 mg/kg	IV,IO	14	0.28
ALTERED MENTAL STATUS / HYPOGLYCEMIA				
GLUCAGON (1mg powder / 1mL NaCl)	0.1 mg/kg	IM	0.5	0.50

14kg 30.8lbs

NORMS (50th Percentile)	B/P	80 - 100 systolic
	HEART RATE	80 - 120
	RESPIRATIONS	18 - 22

EQUIPMENT	BVM	INFANT / CHILD
	OXYGEN MASK	INFANT / CHILD
	B/P CUFF	INFANT / CHILD
	BLADE	# 2 STRAIGHT
	ET TUBE - Cuffed	3.5 - 4.0 - 4.5
	Un-Cuffed	4.0 - 4.5 - 5.0
	ET SUCTION	10F
	IV CATHETER	20 - 22 gage
	INTRAOSSEOUS	15 gauge

	Joules Dose	Joules to Deliver
CARDIOVERSION #1	0.5j - 1 / kg	14 Max
#2 and subsequent	2j / kg	28

DEFIBRILLATION	#1	2j / kg	28
	#2	4j / kg	56
	max	10j / kg	140

DEFIBRILLATION PADS Pediatric

FLUID RESUSCITATION 20 mL / kg **280 mL**

16kg 35.2lbs

BOLUS DRUGS	DOSAGE	ROUTE	mg	ml
ADENOSINE 6mg / 2ml FIRST DOSE	0.1mg / kg	IV, IO	1.6	0.53
ADENOSINE 6mg / 2ml SECOND DOSE	0.2mg / kg	IV, IO	3.2	1.07
AMIODARONE 50mg / ml	5mg / kg	IV, IO	80	1.60
ATROPINE 1mg / 1ml	.06mg / kg	ET	0.96	0.96
ATROPINE 1mg / 10ml (min. dose 0.1mg)	.02mg / kg	IV, IO	0.32	3.20
CALCIUM CHLORIDE (10%) 1g / 10 mL	20mg / kg	IV, IO (SLOW)	320	3.20
DEXTROSE 50% (Dilute 1:1) 0.5 Grams/ml *** NOTE Draw equal ml of drug & saline	0.5 Grams /kg	IV, IO	8 Grams	16.00 EACH
DIAZEPAM 5mg / ml	0.25mg / kg	IV, IO, RECTAL	4	0.80
EPINEPHRINE 1mg / 10ml (1:10,000)	.01mg / kg	IV, IO	0.16	1.60
EPINEPHRINE 1mg / ml (1:1000)	0.1mg / kg	ET	1.6	1.60
FENTANYL 50 mcg/mL (Dilute in 5mL NaCl)	1 mcg/kg	IV	16	0.32
LIDOCAINE 2% 20mg / ml	1mg / kg	IV, IO	16	0.80
LORAZEPAM IV 2mg/ml (Dilute 1:1) *** NOTE - draw equal ml of drug & saline	0.1mg / kg	IV, IO	1.6	0.80 EACH
LORAZEPAM RECTAL 2mg/ml (Do NOT dilute)	0.1mg / kg	RECTAL	1.6	0.80
MAGNESIUM SULFATE 5G / 10ml (*** Dilute in 50ml IV Mini Bag ***)	25-50 mg/kg	MAX DOSE IV, IO (10-20 Min)	800	1.60
MORPHINE 10mg / ml	0.1mg / kg	IV, IO	1.6	0.16
NARCAN - NARCAN 0.4 mg / ml	0.1mg / kg	IV, IO, ET	1.6	4.00
SODIUM BICARBONATE (8.4%) 50mEq / 50ml	1mEq / kg	IV, IO (SLOW)	16 mEq	16.00
SUCCINYLCHOLINE 200mg / 10mL	2mg / kg	IV, IO	32	1.60
VERSED (MIDAZOLAM) 5mg / 5mL	0.1mg / kg	IV, IO MAX 5 mg	1.6	1.60
ANAPHYLAXIS				
EPINEPHRINE - ANAPHYLAXIS (1:1000)	0.01mg/kg	SQ,IM	0.16	0.16
DIPHENHYDRAMINE (50mg/mL)	1 mg/kg	IV,IO	16	0.32
ALTERED MENTAL STATUS / HYPOGLYCEMIA				
GLUCAGON (1mg powder / 1mL NaCl)	0.1 mg/kg	IM	0.5	0.50

16kg 35.2lbs

NORMS (50th Percentile)	B/P	80 - 100 systolic
	HEART RATE	80 - 120
	RESPIRATIONS	20 - 30

EQUIPMENT	BVM	INFANT / CHILD
	OXYGEN MASK	INFANT / CHILD
	B/P CUFF	INFANT / CHILD
	BLADE	# 2 STRAIGHT
	ET TUBE - Cuffed	4.0 - 4.5 - 5.0
	Un-Cuffed	4.5 - 5.0 - 5.5
	ET SUCTION	10F
	IV CATHETER	20 - 22 gage
	INTRAOSSEOUS	15 gauge

	Joules Dose	Joules to Deliver
CARDIOVERSION #1	0.5j - 1 / kg	16 Max
#2 and subsequent	2j / kg	32
DEFIBRILLATION	#1 2j / kg	32
	#2 4j / kg	64
	max 10j / kg	160

DEFIBRILLATION PADS Adult

FLUID RESUSCITATION 20 mL / kg **320 mL**

18kg 39.6lbs

BOLUS DRUGS	DOSAGE	ROUTE	mg	ml
ADENOSINE 6mg / 2ml FIRST DOSE	0.1mg / kg	IV, IO	1.8	0.60
ADENOSINE 6mg / 2ml SECOND DOSE	0.2mg / kg	IV, IO	3.6	1.20
AMIODARONE 50mg / ml	5mg / kg	IV, IO	90	1.80
ATROPINE 1mg / 1ml	0.6mg / kg	ET	1.08	1.08
ATROPINE 1mg / 10ml (min. dose 0.1mg)	.02mg / kg	IV, IO	0.36	3.60
CALCIUM CHLORIDE (10%) 1g / 10 mL	20mg / kg	IV, IO (SLOW)	360	3.60
DEXTROSE 50% (Dilute 1:1) 0.5 Grams/ml *** NOTE Draw equal ml of drug & saline	0.5 Grams /kg	IV, IO	9 Grams	18.00 EACH
DIAZEPAM 5mg / ml	0.25mg / kg	IV, IO, RECTAL	4.5	0.90
EPINEPHRINE 1mg / 10ml (1:10,000)	.01mg / kg	IV, IO	0.18	1.80
EPINEPHRINE 1mg / ml (1:1000)	0.1mg / kg	ET	1.8	1.80
FENTANYL 50 mcg/mL (Dilute in 5mL NaCl)	1 mcg/kg	IV	18	0.36
LIDOCAINE 2% 20mg / ml	1mg / kg	IV, IO	18	0.90
LORAZEPAM IV 2mg/ml (Dilute 1:1) *** NOTE - draw equal ml of drug & saline	0.1mg / kg	IV, IO	1.8	0.90 EACH
LORAZEPAM RECTAL 2mg/ml (Do NOT dilute)	0.1mg / kg	RECTAL	1.8	0.90
MAGNESIUM SULFATE 5G / 10ml (*** Dilute in 50ml IV Mini Bag ***)	25-50 mg/kg	MAX DOSE IV, IO (10-20 Min)	900	1.80
MORPHINE 10mg / ml	0.1mg / kg	IV, IO	1.8	0.18
NARCAN - NARCAN 0.4 mg / ml	0.1mg / kg	IV, IO, ET	1.8	4.50
SODIUM BICARBONATE (8.4%) 50mEq / 50ml	1mEq / kg	IV, IO (SLOW)	18 mEq	18.00
SUCCINYLCHOLINE 200mg / 10mL	2mg / kg	IV, IO	36	1.80
VERSED (MIDAZOLAM) 5mg / 5mL	0.1mg / kg	IV, IO MAX 5 mg	1.8	1.80
ANAPHYLAXIS				
EPINEPHRINE - ANAPHYLAXIS (1:1000)	0.01mg/kg	SQ,IM	0.18	0.18
DIPHENHYDRAMINE (50mg/mL)	1 mg/kg	IV,IO	18	0.36
ALTERED MENTAL STATUS / HYPOGLYCEMIA				
GLUCAGON (1mg powder / 1mL NaCl)	0.1 mg/kg	IM	0.5	0.50

18kg 39.6lbs

NORMS (50th Percentile)	B/P	80 - 110 systolic
	HEART RATE	90 - 120
	RESPIRATIONS	20 - 30

EQUIPMENT	BVM	CHILD / ADULT
	OXYGEN MASK	CHILD / ADULT
	B/P CUFF	CHILD / ADULT
	BLADE	# 2 - #3 STR OR CURVED
	ET TUBE - Cuffed	4.0 - 4.5 - 5.0
	Un-Cuffed	4.5 - 5.0 - 5.5
	ET SUCTION	10F
	IV CATHETER	16 - 20 gage
	INTRAOSSEOUS	15 gage

	Joules Dose	Joules to Deliver
CARDIOVERSION #1	0.5j - 1 / kg	18 Max
#2 and subsequent	2j / kg	36
DEFIBRILLATION #1	2j / kg	36
#2	4j / kg	72
max	10j / kg	180

DEFIBRILLATION PADS	Adult	
FLUID RESUSCITATION	20 mL / kg	360 mL

20kg 44lbs

BOLUS DRUGS	DOSAGE	ROUTE	mg	ml
ADENOSINE 6mg / 2ml FIRST DOSE	0.1mg / kg	IV, IO	2	0.67
ADENOSINE 6mg / 2ml SECOND DOSE	0.2mg / kg	IV, IO	4	1.33
AMIODARONE 50mg / ml	5mg / kg	IV, IO	100	2.00
ATROPINE 1mg / 1ml	.06mg / kg	ET	1.2	1.20
ATROPINE 1mg / 10ml (min. dose 0.1mg)	.02mg / kg	IV, IO	0.4	4.00
CALCIUM CHLORIDE (10%) 1g / 10 mL	20mg / kg	IV, IO (SLOW)	400	4.00
DEXTROSE 50% (Dilute 1:1) 0.5 Grams/ml *** NOTE Draw equal ml of drug & saline	0.5 Grams /kg	IV, IO	10 Grams	20.00 EACH
DIAZEPAM 5mg / ml	0.25mg / kg	IV, IO, RECTAL	5	1.00
EPINEPHRINE 1mg / 10ml (1:10,000)	.01mg / kg	IV, IO	0.2	2.00
EPINEPHRINE 1mg / ml (1:1000)	0.1mg / kg	ET	2	2.00
FENTANYL 50 mcg/mL (Dilute in 5mL NaCl)	1 mcg/kg	IV	20	0.40
LIDOCAINE 2% 20mg / ml	1mg / kg	IV, IO	20	1.00
LORAZEPAM IV 2mg/ml (Dilute 1:1) *** NOTE - draw equal ml of drug & saline	0.1mg / kg	IV, IO	2	1.00 EACH
LORAZEPAM RECTAL 2mg/ml (Do NOT dilute)	0.1mg / kg	RECTAL	2	1.00
MAGNESIUM SULFATE 5G / 10ml (*** Dilute in 50ml IV Mini Bag ***)	25-50 mg/kg	MAX DOSE IV, IO (10-20 Min)	1000	2.00
MORPHINE 10mg / ml	0.1mg / kg	IV, IO	2	0.20
NARCAN - NARCAN 0.4 mg / ml	0.1mg / kg	IV, IO, ET	2	5.00
SODIUM BICARBONATE (8.4%) 50mEq / 50ml	1mEq / kg	IV, IO (SLOW)	20 mEq	20.00
SUCCINYLCHOLINE 200mg / 10mL	2mg / kg	IV, IO	40	2.00
VERSED (MIDAZOLAM) 5mg / 5mL	0.1mg / kg	IV, IO MAX 5 mg	2	2.00
ANAPHYLAXIS				
EPINEPHRINE - ANAPHYLAXIS (1:1000)	0.01mg/kg	SQ,IM	0.2	0.20
DIPHENHYDRAMINE (50mg/mL)	1 mg/kg	IV,IO	20	0.40
ALTERED MENTAL STATUS / HYPOGLYCEMIA				
GLUCAGON (1mg powder / 1mL NaCl)	0.1 mg/kg	IM	0.5	0.50

20kg 44lbs

	B/P	80 - 110 systolic
NORMS (50th Percentile)	HEART RATE	70 - 110
	RESPIRATIONS	12 - 24

EQUIPMENT	BVM	CHILD / ADULT
	OXYGEN MASK	CHILD / ADULT
	B/P CUFF	CHILD / ADULT
	BLADE	# 2 - #3 STR OR CURVE
	ET TUBE - Cuffed	4.5 - 5.0 - 5.5
	Un-Cuffed	5.0 - 5.5 - 6.0
	ET SUCTION	10F
	IV CATHETER	16 - 20 gage
	INTRAOSSEOUS	15 gauge

	Joules Dose	Joules to Deliver
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CARDIOVERSION #1	0.5j - 1 / kg	20 Max
#2 and subsequent	2j / kg	40

DEFIBRILLATION	#1	2j / kg	40
	#2	4j / kg	80
	max	10j / kg	200

DEFIBRILLATION PADS Adult

FLUID RESUSCITATION 20 mL / kg **400 mL**

25kg 55lbs

BOLUS DRUGS	DOSAGE	ROUTE	mg	ml
ADENOSINE 6mg / 2ml FIRST DOSE	0.1mg / kg	IV, IO	2.5	0.83
ADENOSINE 6mg / 2ml SECOND DOSE	0.2mg / kg	IV, IO	5	1.67
AMIODARONE 50mg / ml	5mg / kg	IV, IO	125	2.50
ATROPINE 1mg / 1ml	.06mg / kg	ET	1.5	1.50
ATROPINE 1mg / 10ml (min. dose 0.1mg)	.02mg / kg	IV, IO	0.5	5.00
CALCIUM CHLORIDE (10%) 1g / 10 mL	20mg / kg	IV, IO (SLOW)	500	5.00
DEXTROSE 50% (Dilute 1:1) 0.5 Grams/ml *** NOTE Draw equal ml of drug & saline	0.5 Grams /kg	IV, IO	12.5 Grams	25.00 EACH
DIAZEPAM 5mg / ml	0.25mg / kg	IV, IO, RECTAL	5	1.00
EPINEPHRINE 1mg / 10ml (1:10,000)	.01mg / kg	IV, IO	0.25	2.50
EPINEPHRINE 1mg / ml (1:1000)	0.1mg / kg	ET	2.5	2.50
FENTANYL 50 mcg/mL (Dilute in 5mL NaCl)	1 mcg/kg	IV	25	0.50
LIDOCAINE 2% 20mg / ml	1mg / kg	IV, IO	25	1.25
LORAZEPAM IV 2mg/ml (Dilute 1:1) *** NOTE - draw equal ml of drug & saline	0.1mg / kg	IV, IO	2	1.00 EACH
LORAZEPAM RECTAL 2mg/ml (Do NOT dilute)	0.1mg / kg	RECTAL	2	1.00
MAGNESIUM SULFATE 5G / 10ml (*** Dilute in 50ml IV Mini Bag ***)	25-50 mg/kg	MAX DOSE IV, IO (10-20 Min)	1250	2.50
MORPHINE 10mg / ml	0.1mg / kg	IV, IO	2	0.20
NARCAN - NARCAN 0.4 mg / ml	0.1mg / kg	IV, IO, ET	2	5.00
SODIUM BICARBONATE (8.4%) 50mEq / 50ml	1mEq / kg	IV, IO (SLOW)	25 mEq	25.00
SUCCINYLCHOLINE 200mg / 10mL	2mg / kg	IV, IO	50	2.50
VERSED (MIDAZOLAM) 5mg / 5mL	0.1mg / kg	IV, IO MAX 5 mg	2.5	2.50
ANAPHYLAXIS				
EPINEPHRINE - ANAPHYLAXIS (1:1000)	0.01mg/kg	SQ,IM	0.25	0.25
DIPHENHYDRAMINE (50mg/mL)	1 mg/kg	IV,IO	25	0.50
ALTERED MENTAL STATUS / HYPOGLYCEMIA				
GLUCAGON (1mg powder / 1ml NaCl)	0.1 mg/kg	IM	1	1.00

25kg 55lbs

NORMS (50th Percentile)	B/P	80 - 120 systolic
	HEART RATE	70 - 100
	RESPIRATIONS	12 - 24

EQUIPMENT	BVM	CHILD / ADULT
	OXYGEN MASK	CHILD / ADULT
	B/P CUFF	CHILD / ADULT
	BLADE	# 2 - #3 STR OR CURVED
	ET TUBE - Cuffed	5.0 - 5.5 - 6.0
	Un-Cuffed	5.5 - 6.0 - 6.5
	ET SUCTION	10F
	IV CATHETER	16 - 20 gage
	INTRAOSSEOUS	15 gauge

	Joules Dose	Joules to Deliver
CARDIOVERSION #1	0.5j - 1 / kg	25 Max
#2 and subsequent	2j / kg	50
DEFIBRILLATION #1	2j / kg	50
#2	4j / kg	100
biphasic max	10j / kg	200
monophasic max	10j / kg	250

DEFIBRILLATION PADS Adult

FLUID RESUSCITATION 20 mL / kg 500 mL

30kg 66lbs

BOLUS DRUGS	DOSAGE	ROUTE	mg	ml
ADENOSINE 6mg / 2ml FIRST DOSE	0.1mg / kg	IV, IO	3	1.00
ADENOSINE 6mg / 2ml SECOND DOSE	0.2mg / kg	IV, IO	6	2.00
AMIODARONE 50mg / ml	5mg / kg	IV, IO	150	3.00
ATROPINE 1mg / 1ml	.06mg / kg	ET	1.8	1.80
ATROPINE 1mg / 10ml (min. dose 0.1mg)	.02mg / kg	IV, IO	0.6	6.00
CALCIUM CHLORIDE (10%) 1g / 10 mL	20mg / kg	IV, IO (SLOW)	600	6.00
DEXTROSE 50% (Dilute 1:1) 0.5 Grams/ml *** NOTE Draw equal ml of drug & saline	0.5 Grams /kg	IV, IO	15 Grams	30.00 EACH
DIAZEPAM 5mg / ml	0.25mg / kg	IV, IO, RECTAL	5	1.00
EPINEPHRINE 1mg / 10ml (1:10,000)	.01mg / kg	IV, IO	0.3	3.00
EPINEPHRINE 1mg / ml (1:1000)	0.1mg / kg	ET	3	3.00
FENTANYL 50 mcg/mL (Dilute in 5mL NaCl)	1 mcg/kg	IV	30	0.60
LIDOCAINE 2% 20mg / ml	1mg / kg	IV, IO	30	1.50
LORAZEPAM IV 2mg/ml (Dilute 1:1) *** NOTE - draw equal ml of drug & saline	0.1mg / kg	IV, IO	2	1.00 EACH
LORAZEPAM RECTAL 2mg/ml (Do NOT dilute)	0.1mg / kg	RECTAL	2	1.00
MAGNESIUM SULFATE 5G / 10ml (*** Dilute in 50ml IV Mini Bag ***)	25-50 mg/kg	MAX DOSE IV, IO (10-20 Min)	1500	3.00
MORPHINE 10mg / ml	0.1mg / kg	IV, IO	2	0.20
NARCAN - NARCAN 0.4 mg / ml	0.1mg / kg	IV, IO, ET	2	5.00
SODIUM BICARBONATE (8.4%) 50mEq / 50ml	1mEq / kg	IV, IO (SLOW)	30 mEq	30.00
SUCCINYLCHOLINE 200mg / 10mL	2mg / kg	IV, IO	60	3.00
VERSED (MIDAZOLAM) 5mg / 5mL	0.1mg / kg	IV, IO MAX 5 mg	3	3.00
ANAPHYLAXIS				
EPINEPHRINE - ANAPHYLAXIS (1:1000)	0.01mg/kg	SQ,IM	0.3	0.30
DIPHENHYDRAMINE (50mg/mL)	1 mg/kg	IV,IO	25	0.50
ALTERED MENTAL STATUS / HYPOGLYCEMIA				
GLUCAGON (1mg powder / 1mL NaCl)	0.1 mg/kg	IM	1	1.00

30kg 66lbs

NORMS (50th Percentile)	B/P	80 - 120 systolic
	HEART RATE	70 - 100
	RESPIRATIONS	12 - 24

EQUIPMENT	BVM	CHILD / ADULT
	OXYGEN MASK	CHILD / ADULT
	B/P CUFF	CHILD / ADULT
	BLADE	# 2 - #3 STR OR CURVED
	ET TUBE - Cuffed	5.5 - 6.0 - 6.5
	Un-Cuffed	6.0 - 6.5 - 7.0
	ET SUCTION	10F
	IV CATHETER	16 - 20 gage
	INTRAOSSEOUS	15 gauge

	Joules Dose	Joules to Deliver
CARDIOVERSION #1	0.5j - 1 / kg	30 Max
#2 and subsequent	2j / kg	60

DEFIBRILLATION	#1	2j / kg	60
	#2	4j / kg	120
	biphasic max	10j / kg	200
	monophasic max	10j / kg	300

DEFIBRILLATION PADS Adult

FLUID RESUSCITATION 20 mL / kg 600 mL

35kg 77lbs

BOLUS DRUGS	DOSAGE	ROUTE	mg	ml
ADENOSINE 6mg / 2ml FIRST DOSE	0.1mg / kg	IV, IO	3.5	1.17
ADENOSINE 6mg / 2ml SECOND DOSE	0.2mg / kg	IV, IO	7	2.33
AMIODARONE 50mg / ml	5mg / kg	IV, IO	175	3.50
ATROPINE 1mg / 1ml	.06mg / kg	ET	2.1	2.10
ATROPINE 1mg / 10ml (min. dose 0.1mg)	.02mg / kg	IV, IO	0.7	7.00
CALCIUM CHLORIDE (10%) 1g / 10 mL	20mg / kg	IV, IO (SLOW)	700	7.00
DEXTROSE 50% (Dilute 1:1) 0.5 Grams/ml *** NOTE Draw equal ml of drug & saline	0.5 Grams /kg	IV, IO	17.5 Grams	35.00 EACH
DIAZEPAM 5mg / ml	0.25mg / kg	IV, IO, RECTAL	5	1.00
EPINEPHRINE 1mg / 10ml (1:10,000)	.01mg / kg	IV, IO	0.35	3.50
EPINEPHRINE 1mg / ml (1:1000)	0.1mg / kg	ET	3.5	3.50
FENTANYL 50 mcg/mL (Dilute in 5mL NaCl)	1 mcg/kg	IV	35	0.70
LIDOCAINE 2% 20mg / ml	1mg / kg	IV, IO	35	1.75
LORAZEPAM IV 2mg/ml (Dilute 1:1) *** NOTE - draw equal ml of drug & saline	0.1mg / kg	IV, IO	2	1.00 EACH
LORAZEPAM RECTAL 2mg/ml (Do NOT dilute)	0.1mg / kg	RECTAL	2	1.00
MAGNESIUM SULFATE 5G / 10ml (*** Dilute in 50ml IV Mini Bag ***)	25-50 mg/kg	MAX DOSE IV, IO (10-20 Min)	1750	3.50
MORPHINE 10mg / ml	0.1mg / kg	IV, IO	2	0.20
NARCAN - NARCAN 0.4 mg / ml	0.1mg / kg	IV, IO, ET	2	5.00
SODIUM BICARBONATE (8.4%) 50mEq / 50ml	1mEq / kg	IV, IO (SLOW)	35 mEq	35.00
SUCCINYLCHOLINE 200mg / 10mL	2mg / kg	IV, IO	70	3.50
VERSED (MIDAZOLAM) 5mg / 5mL	0.1mg / kg	IV, IO MAX 5 mg	3.5	3.50
ANAPHYLAXIS				
EPINEPHRINE - ANAPHYLAXIS (1:1000)	0.01mg/kg	SQ,IM	0.3	0.30
DIPHENHYDRAMINE (50mg/mL)	1 mg/kg	IV,IO	25	0.50
ALTERED MENTAL STATUS / HYPOGLYCEMIA				
GLUCAGON (1mg powder / 1mL NaCl)	0.1 mg/kg	IM	1	1.00

35kg 77lbs

NORMS (50th Percentile)	B/P	90 - 120 systolic
	HEART RATE	60 - 90
	RESPIRATIONS	12 - 20

EQUIPMENT	BVM	CHILD / ADULT
	OXYGEN MASK	CHILD / ADULT
	B/P CUFF	CHILD / ADULT
	BLADE	# 2 - #3 STR OR CURVED
	ET TUBE - Cuffed	5.5 - 6.0 - 6.5
	Un-Cuffed	6.0 - 6.5 - 7.0
	ET SUCTION	10F
	IV CATHETER	16 - 20 gage
	INTROSSEOUS	15 gauge

	Joules Dose	Joules to Deliver
CARDIOVERSION #1	0.5j - 1 / kg	35 Max
#2 and subsequent	2j / kg	70
DEFIBRILLATION #1	2j / kg	70
#2	4j / kg	140
biphasic max	10j / kg	200
monophasic max	10j / kg	350

DEFIBRILLATION PADS	Adult
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FLUID RESUSCITATION	20 mL / kg	700 mL
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40kg 88lbs

BOLUS DRUGS	DOSAGE	ROUTE	mg	ml
ADENOSINE 6mg / 2ml FIRST DOSE	0.1mg / kg	IV, IO	4	1.33
ADENOSINE 6mg / 2ml SECOND DOSE	0.2mg / kg	IV, IO	8	2.67
AMIODARONE 50mg / ml	5mg / kg	IV, IO	200	4.00
ATROPINE 1mg / 1ml	.06mg / kg	ET	2.4	2.40
ATROPINE 1mg / 10ml (min. dose 0.1mg)	.02mg / kg	IV, IO	0.8	8.00
CALCIUM CHLORIDE (10%) 1g / 10 mL	20mg / kg	IV, IO (SLOW)	800	8.00
DEXTROSE 50% (Dilute 1:1) 0.5 Grams/ml *** NOTE Draw equal ml of drug & saline	0.5 Grams /kg	IV, IO	20 Grams	40.00 EACH
DIAZEPAM 5mg / ml	0.25mg / kg	IV, IO, RECTAL	5	1.00
EPINEPHRINE 1mg / 10ml (1:10,000)	.01mg / kg	IV, IO	0.4	4.00
EPINEPHRINE 1mg / ml (1:1000)	0.1mg / kg	ET	4	4.00
FENTANYL 50 mcg/mL (Dilute in 5mL NaCl)	1 mcg/kg	IV	40	0.80
LIDOCAINE 2% 20mg / ml	1mg / kg	IV, IO	40	2.00
LORAZEPAM IV 2mg/ml (Dilute 1:1) *** NOTE - draw equal ml of drug & saline	0.1mg / kg	IV, IO	2	1.00 EACH
LORAZEPAM RECTAL 2mg/ml (Do NOT dilute)	0.1mg / kg	RECTAL	2	1.00
MAGNESIUM SULFATE 5G / 10ml (*** Dilute in 50ml IV Mini Bag ***)	25-50 mg/kg	MAX DOSE IV, IO (10-20 Min)	2000	4.00
MORPHINE 10mg / ml	0.1mg / kg	IV, IO	2	0.20
NARCAN - NARCAN 0.4 mg / ml	0.1mg / kg	IV, IO, ET	2	5.00
SODIUM BICARBONATE (8.4%) 50mEq / 50ml	1mEq / kg	IV, IO (SLOW)	40 mEq	40.00
SUCCINYLCHOLINE 200mg / 10mL	2mg / kg	IV, IO	80	4.00
VERSED (MIDAZOLAM) 5mg / 5mL	0.1mg / kg	IV, IO MAX 5 mg	4	4.00
ANAPHYLAXIS				
EPINEPHRINE - ANAPHYLAXIS (1:1000)	0.01mg/kg	SQ,IM	0.3	0.30
DIPHENHYDRAMINE (50mg/mL)	1 mg/kg	IV,IO	25	0.50
ALTERED MENTAL STATUS / HYPOGLYCEMIA				
GLUCAGON (1mg powder / 1mL NaCl)	0.1 mg/kg	IM	1	1.00

40kg 88lbs

NORMS (50th Percentile)	B/P	90 - 140 systolic
	HEART RATE	60 - 90
	RESPIRATIONS	12 - 20

EQUIPMENT	BVM	CHILD / ADULT
	OXYGEN MASK	CHILD / ADULT
	B/P CUFF	CHILD / ADULT
	BLADE	# 2 - #3 STR OR CURVE
	ET TUBE - Cuffed	6.0 - 6.5 - 7.0
	Un-Cuffed	6.5 - 7.0 - 7.5
	ET SUCTION	10F
	IV CATHETER	16 - 20 gage
	INTRAOSSEOUS	15 gauge

	Joules Dose	Joules to Deliver
CARDIOVERSION #1	0.5j - 1 / kg	40 Max
#2 and subsequent	2j / kg	80

DEFIBRILLATION #1		2j / kg	80
	#2	4j / kg	160
	biphasic max	10j / kg	200
	monophasic max	10j / kg	360

DEFIBRILLATION PADS Adult

FLUID RESUSCITATION 20 mL / kg 800 mL

45kg 99lbs

BOLUS DRUGS	DOSAGE	ROUTE	mg	ml
ADENOSINE 6mg / 2ml FIRST DOSE	0.1mg / kg	IV, IO	4.5	1.50
ADENOSINE 6mg / 2ml SECOND DOSE	0.2mg / kg	IV, IO	9	3.00
AMIODARONE 50mg / ml	5mg / kg	IV, IO	225	4.50
ATROPINE 1mg / 1ml	.06mg / kg	ET	2.7	2.70
ATROPINE 1mg / 10ml (min. dose 0.1mg)	.02mg / kg	IV, IO	0.9	9.00
CALCIUM CHLORIDE (10%) 1g / 10 mL	20mg / kg	IV, IO (SLOW)	900	9.00
DEXTROSE 50% (Dilute 1:1) 0.5 Grams/ml *** NOTE Draw equal ml of drug & saline	0.5 Grams /kg	IV, IO	22.5 Grams	45.00 EACH
DIAZEPAM 5mg / ml	0.25mg / kg	IV, IO, RECTAL	5	1.00
EPINEPHRINE 1mg / 10ml (1:10,000)	.01mg / kg	INITIAL IV, IO	0.45	4.50
EPINEPHRINE 1mg / ml (1:1000)	0.1mg / kg	ET	4.5	4.50
FENTANYL 50 mcg/mL (Dilute in 5mL NaCl)	1 mcg/kg	IV	45	0.90
LIDOCAINE 2% 20mg / ml	1mg / kg	IV, IO	45	2.25
LORAZEPAM IV 2mg/ml (Dilute 1:1) *** NOTE - draw equal ml of drug & saline	0.1mg / kg	IV	2	1.00 EACH
LORAZEPAM RECTAL 2mg/ml (Do NOT dilute)	0.1mg / kg	RECTAL	2	1.00
MAGNESIUM SULFATE 5G / 10ml (*** Dilute in 50ml IV Mini Bag ***)	25-50 mg/kg	MAX DOSE IV, IO (10-20 Min)	2000	4.00
MORPHINE 10mg / ml	0.1mg / kg	IV, IO	2	0.20
NARCAN - NARCAN 0.4 mg / ml	0.1mg / kg	IV, IO, ET	2	5.00
SODIUM BICARBONATE (8.4%) 50mEq / 50ml	1mEq / kg	IV, IO (SLOW)	45 mEq	45.00
SUCCINYLCHOLINE 200mg / 10mL	2mg / kg	IV, IO	90	4.50
VERSED (MIDAZOLAM) 5mg / 5mL	0.1mg / kg	IV, IO MAX 5 mg	4.5	4.50
ANAPHYLAXIS				
EPINEPHRINE - ANAPHYLAXIS (1:1000)	0.01mg/kg	SQ,IM	0.3	0.30
DIPHENHYDRAMINE (50mg/mL)	1 mg/kg	IV,IO	25	0.50
ALTERED MENTAL STATUS / HYPOGLYCEMIA				
GLUCAGON (1mg powder / 1mL NaCl)	0.1 mg/kg	IM	1	1.00

45kg 99lbs

NORMS (50th Percentile)	B/P	80 - 100 systolic
	HEART RATE	90 - 130
	RESPIRATIONS	12 - 20

EQUIPMENT	BVM	ADULT
	OXYGEN MASK	ADULT
	B/P CUFF	ADULT
	BLADE	#3 STRAIGHT or CURVED
	ET TUBE - Cuffed	6.0 - 6.5 - 7.0
	Un-Cuffed	6.5 - 7.0 - 7.5
	ET SUCTION	10F - 14F
	IV CATHETER	16 - 20 gage
	INTRAOSSEOUS	15 gauge

	Joules Dose	Joules to Deliver
CARDIOVERSION #1	0.5j - 1 / kg	45 Max
#2 and subsequent	2j / kg	90
DEFIBRILLATION #1	2j / kg	90
#2	4j / kg	180
biphasic max	10j / kg	200
monophasic max	10j / kg	360

DEFIBRILLATION PADS Adult

FLUID RESUSCITATION 20 mL / kg **900 mL**

50kg 110lbs

BOLUS DRUGS	DOSAGE	ROUTE	mg	ml
ADENOSINE 6mg / 2ml FIRST DOSE	0.1mg / kg	IV, IO	5	1.67
ADENOSINE 6mg / 2ml SECOND DOSE	0.2mg / kg	IV, IO	10	3.33
AMIODARONE 50mg / ml	5mg / kg	IV, IO	250	5.00
ATROPINE 1mg / 1ml	.06mg / kg	ET	3	3.00
ATROPINE 1mg / 10ml (min. dose 0.1mg)	.02mg / kg	IV, IO	1	10.00
CALCIUM CHLORIDE (10%) 1g / 10 mL	20mg / kg	IV, IO (SLOW)	1000	10.00
DEXTROSE 50% (Dilute 1:1) 0.5 Grams/ml *** NOTE Draw equal ml of drug & saline	0.5 Grams /kg	IV, IO	25 Grams	50.00 EACH
DIAZEPAM 5mg / ml	0.25mg / kg	IV, IO, RECTAL	5	1.00
EPINEPHRINE 1mg / 10ml (1:10,000)	.01mg / kg	IV, IO	0.5	5.00
EPINEPHRINE 1mg / ml (1:1000)	0.1mg / kg	ET	5	5.00
FENTANYL 50 mcg/mL (Dilute in 5mL NaCl)	1 mcg/kg	IV	50	1.00
LIDOCAINE 2% 20mg / ml	1mg / kg	IV, IO	50	2.50
LORAZEPAM IV 2mg/ml (Dilute 1:1) *** NOTE - draw equal ml of drug & saline	0.1mg / kg	IV, IO	2	1.00 EACH
LORAZEPAM RECTAL 2mg/ml (Do NOT dilute)	0.1mg / kg	RECTAL	2	1.00
MAGNESIUM SULFATE 5G / 10ml (*** Dilute in 50ml IV Mini Bag ***)	25-50 mg/kg	MAX DOSE IV, IO (10-20 Min)	2000	4.00
MORPHINE 10mg / ml	0.1mg / kg	IV, IO	2	0.20
NARCAN - NARCAN 0.4 mg / ml	0.1mg / kg	IV, IO, ET	2	5.00
SODIUM BICARBONATE (8.4%) 50mEq / 50ml	1mEq / kg	IV, IO (SLOW)	50 mEq	50.00
SUCCINYLCHOLINE 200mg / 10mL	2mg / kg	IV, IO	100	5.00
VERSED (MIDAZOLAM) 5mg / 5mL	0.1mg / kg	IV, IO MAX 5 mg	5	5.00
ANAPHYLAXIS				
EPINEPHRINE - ANAPHYLAXIS (1:1000)	0.01mg/kg	SQ,IM	0.3	0.30
DIPHENHYDRAMINE (50mg/mL)	1 mg/kg	IV,IO	25	0.50
ALTERED MENTAL STATUS / HYPOGLYCEMIA				
GLUCAGON (1mg powder / 1mL NaCl)	0.1 mg/kg	IM	1	1.00

50kg 110lbs

	B/P	90 - 140 systolic
NORMS (50th Percentile)	HEART RATE	60 - 90
	RESPIRATIONS	12 - 20
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EQUIPMENT	BVM	ADULT
	OXYGEN MASK	ADULT
	B/P CUFF	ADULT
	BLADE	#3 STRAIGHT or CURVED
	ET TUBE - Cuffed	6.5 - 7.0 - 7.5
	Un-Cuffed	7.0 - 7.5 - 8.0
	ET SUCTION	10F - 14F
	IV CATHETER	16 - 20 gage
	INTRAOSSEOUS	15 gauge
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	Joules Dose	Joules to Deliver
CARDIOVERSION #1	0.5j - 1 / kg	50 Max
#2 and subsequent	2j / kg	100
DEFIBRILLATION #1	2j / kg	100
#2	4j / kg	200
biphasic max	10j / kg	200
monophasic max	10j / kg	360
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DEFIBRILLATION PADS	Adult	
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FLUID RESUSCITATION	20 mL / kg	1000 mL

60kg 132lbs

BOLUS DRUGS	DOSAGE	ROUTE	mg	ml
ADENOSINE 6mg / 2ml FIRST DOSE	0.1mg / kg	IV, IO	6	2.00
ADENOSINE 6mg / 2ml SECOND DOSE	0.2mg / kg	IV, IO	12	4.00
AMIODARONE 50mg / ml	5mg / kg	IV, IO	300	6.00
ATROPINE 1mg / 1ml	.06mg / kg	ET	3	3.00
ATROPINE 1mg / 10ml (min. dose 0.1mg)	.02mg / kg	IV, IO	1	10.00
CALCIUM CHLORIDE (10%) 1g / 10 mL	20mg / kg	IV, IO (SLOW)	1000	10.00
DEXTROSE 50% (Dilute 1:1) 0.5 Grams/ml *** NOTE Draw equal ml of drug & saline	0.5 Grams / kg	IV, IO	30 Grams	60.00 EACH
DIAZEPAM 5mg / ml	0.25mg / kg	IV, IO, RECTAL	5	1.00
EPINEPHRINE 1mg / 10ml (1:10,000)	.01mg / kg	IV, IO	0.6	6.00
EPINEPHRINE 1mg / ml (1:1000)	0.1mg / kg	ET	6	6.00
FENTANYL 50 mcg/mL (Dilute in 5mL NaCl)	1 mcg/kg	IV	60	1.20
LIDOCAINE 2% 20mg / ml	1mg / kg	IV, IO	60	3.00
LORAZEPAM IV 2mg/ml (Dilute 1:1) *** NOTE - draw equal ml of drug & saline	0.1mg / kg	IV, IO	2	1.00 EACH
LORAZEPAM RECTAL 2mg/ml (Do NOT dilute)	0.1mg / kg	RECTAL	2	1.00
MAGNESIUM SULFATE 5G / 10ml (** Dilute in 50ml IV Mini Bag **)	25-50 mg/kg	MAX DOSE IV, IO (10-20 Min)	2000	4.00
MORPHINE 10mg / ml	0.1mg / kg	IV, IO	2	0.20
NARCAN - NARCAN 0.4 mg / ml	0.1mg / kg	IV, IO, ET	2	5.00
SODIUM BICARBONATE (8.4%) 50mEq / 50ml	1mEq / kg	IV, IO (SLOW)	60 mEq	60.00
SUCCINYLCHOLINE 200mg / 10mL	2mg / kg	IV, IO	120	6.00
VERSED (MIDAZOLAM) 5mg / 5mL	0.1mg / kg	IV, IO MAX 5 mg	5	5.00
ANAPHYLAXIS				
EPINEPHRINE - ANAPHYLAXIS (1:1000)	0.01mg/kg	SQ,IM	0.3	0.30
DIPHENHYDRAMINE (50mg/mL)	1 mg/kg	IV,IO	25	0.50
ALTERED MENTAL STATUS / HYPOGLYCEMIA				
GLUCAGON (1mg powder / 1mL NaCl)	0.1 mg/kg	IM	1	1.00

60kg 132lbs

NORMS (50th Percentile)	B/P	90 - 140 systolic
	HEART RATE	60 - 90
	RESPIRATIONS	12 - 20

EQUIPMENT	BVM	ADULT
	OXYGEN MASK	ADULT
	B/P CUFF	ADULT
	BLADE	#3 STRAIGHT or CURVE
	ET TUBE - Cuffed	7.0 - 7.5 - 8.0
	Un-Cuffed	7.5 - 8.0 - 8.5
	ET SUCTION	10F - 14F
	IV CATHETER	16 - 20 gage
	INTRAOSSEOUS	15 gauge

	Joules Dose	Joules to Deliver
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CARDIOVERSION #1	0.5j - 1 / kg	60 Max
#2 and subsequent	2j / kg	120

DEFIBRILLATION #1	2j / kg	120
#2	4j / kg	240
biphasic max	10j / kg	200
monophasic max	10j / kg	360

DEFIBRILLATION PADS Adult

FLUID RESUSCITATION 20 mL / kg 1200 mL

70kg 154lbs

BOLUS DRUGS	DOSAGE	ROUTE	mg	ml
ADENOSINE 6mg / 2ml FIRST DOSE	0.1mg / kg	IV, IO	6	2.00
ADENOSINE 6mg / 2ml SECOND DOSE	0.2mg / kg	IV, IO	12	4.00
AMIODARONE 50mg / ml	5mg / kg	IV, IO	300	6.00
ATROPINE 1mg / 1ml	.06mg / kg	ET	3	3.00
ATROPINE 1mg / 10ml (min. dose 0.1mg)	.02mg / kg	IV, IO	1	10.00
CALCIUM CHLORIDE (10%) 1g / 10 mL	20mg / kg	IV, IO (SLOW)	1000	10.00
DEXTROSE 50% (Dilute 1:1) 0.5 Grams/ml *** NOTE Draw equal ml of drug & saline	0.5 Grams /kg	IV, IO	35 Grams	70.00 EACH
DIAZEPAM 5mg / ml	0.25mg / kg	IV, IO, RECTAL	5	1.00
EPINEPHRINE 1mg / 10ml (1:10,000)	.01mg / kg	IV, IO	0.7	7.00
EPINEPHRINE 1mg / ml (1:1000)	0.1mg / kg	ET	7	7.00
FENTANYL 50 mcg/mL (Dilute in 5mL NaCl)	1 mcg/kg	IV	70	1.40
LIDOCAINE 2% 20mg / ml	1mg / kg	IV, IO	70	3.50
LORAZEPAM IV 2mg/ml (Dilute 1:1) *** NOTE - draw equal ml of drug & saline	0.1mg / kg	IV, IO	2	1.00 EACH
LORAZEPAM RECTAL 2mg/ml (Do NOT dilute)	0.1mg / kg	RECTAL	2	1.00
MAGNESIUM SULFATE 5G / 10ml (*** Dilute in 50ml IV Mini Bag ***)	25-50 mg/kg	MAX DOSE IV, IO (10-20 Min)	2000	4.00
MORPHINE 10mg / ml	0.1mg / kg	IV, IO	2	0.20
NARCAN - NARCAN 0.4 mg / ml	0.1mg / kg	IV, IO, ET	2	5.00
SODIUM BICARBONATE (8.4%) 50mEq / 50ml	1mEq / kg	IV, IO (SLOW)	70 mEq	70.00
SUCCINYLCHOLINE 200mg / 10mL	2mg / kg	IV, IO	140	7.00
VERSED (MIDAZOLAM) 5mg / 5mL	0.1mg / kg	IV, IO MAX 5 mg	5	5.00
ANAPHYLAXIS				
EPINEPHRINE - ANAPHYLAXIS (1:1000)	0.01mg/kg	SQ,IM	0.3	0.30
DIPHENHYDRAMINE (50mg/mL)	1 mg/kg	IV,IO	25	0.50
ALTERED MENTAL STATUS / HYPOGLYCEMIA				
GLUCAGON (1mg powder / 1mL NaCl)	0.1 mg/kg	IM	1	1.00

70kg 154lbs

NORMS (50th Percentile)	B/P	90 - 140
	HEART RATE	60 - 90
	RESPIRATIONS	12 - 20

EQUIPMENT	BVM	ADULT
	OXYGEN MASK	ADULT
	B/P CUFF	ADULT
	BLADE	#3 STRAIGHT or CURVE
	ET TUBE - Cuffed	8.0 - 8.5 - 9.0
	Un-Cuffed	8.5 - 9.0 - 9.5
	ET SUCTION	10F - 14F
	IV CATHETER	16 - 20 gage
	INTRAOSSEOUS	15 gauge

	Joules Dose	Joules to Deliver
CARDIOVERSION #1	0.5j - 1 / kg	70 Max
#2 and subsequent	2j / kg	140

DEFIBRILLATION	#1	2j / kg	140
	#2	4j / kg	280
	biphasic max	10j / kg	200
	monophasic max	10j / kg	360

DEFIBRILLATION PADS	Adult
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FLUID RESUSCITATION	20 mL / kg	1400 mL
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POUNDS TO KILOGRAMS CONVERSION

lb	kg
2.2	1
4.4	2
6.6	3
8.8	4
11	5
13.2	6
15.4	7
17.6	8
19.8	9
22	10

lb	kg
26.4	12
30.8	14
35.2	16
39.6	18
44	20
55	25
66	30
77	35
88	40
99	45

lb	kg
110	50
132	60
154	70