

SUBJECT: TREATMENT PROTOCOL – PEDIATRIC (< 15 yo and < 37 kg) DRUG CHART

Date: 2009

Broselow color: GREY/PINK

Kg range: < 8 kg **Approx Kg:** 5 kg
Approximate LBS: 10 lbs
ET uncuffed tube size: 3.5
ET cuffed tube size: 3.0
NG tube size: 5 Fr

Defib: $\frac{1^{st}}{10 J}$ $\frac{2^{nd}}{20 J}$ $\frac{3^{rd}}{20 J}$
Cardiovert: 5 J 10 J 10 J
 (or clinically equivalent biphasic energy dose)

VOL	MEDICATION	DOSE	CONCENTRATION
0.2 ml	Adenosine IV 1st	0.5 mg	6 mg/2 ml
0.4 ml	Adenosine IV 2nd/3rd	1 mg	6 mg/2 ml
6 ml	Albuterol- Nebulized	5 mg	2.5 mg/3 ml
1.25 ml	Atrovent- Nebulized	0.25 mg	0.5 mg/2.5 ml
1 ml	Atropine (Bradycardia) IV/IO	0.1 mg	1 mg/10 ml
0.3 ml *	Atropine (OPP) IV/IM	0.1 mg	0.4 mg/1 ml
0.5 ml	Atropine ET	0.2 mg	0.4 mg/1 ml
0.1 ml	Benadryl IV/IM	5 mg	50 mg/1 ml
24 ml	Charcoal PO	5 GM	50 GM/240 ml
10 ml	Dextrose 25% IV	2.5 GM	12.5 GM/50 ml
0.5 ml	Epinephrine IV/IO	0.05 mg	1:10,000 1mg/10ml
0.5 ml	Epinephrine ET	0.5 mg	1:1,000 1mg/1ml
0.1 ml *	Epinephrine SC/IM	0.05 mg	1:1,000 1mg/1ml
2.5 ml	Epinephrine- Nebulized	2.5 mg	1:1,000 1mg/1ml
0.3 ml *	Glucagon IM	0.25 mg	1 unit (mg)/1 ml
0.3 ml *	Lidocaine 2% IV/IO	5 mg	100 mg/5 ml
0.5 ml	Lidocaine 2% ET	10 mg	100 mg/5 ml
NONE	Morphine Sulfate IV/IM	NONE	10 mg/1 ml
0.8 ml *	Morphine PO	1.5 mg	10 mg/5 ml
0.5 ml	Narcan IN/IM/IV	0.5 mg	1 mg/1 ml
5 ml	Narcan IV titrated increments	0.5 mg	Diluted to 1 mg/10 ml
100 ml	Normal Saline Fluid Bolus		Standard
5 ml	Sodium Bicarb IV	5 meq	1 meq/1 ml
0.1 ml	Versed IV	0.5 mg	5 mg/1 ml
0.2 ml	Versed IN/IM	1 mg	5 mg/1 ml

- To assure accuracy be sure the designated **concentration** of medication is used.
- All pediatric ET doses are diluted with NS to achieve a minimum volume of 3 ml.
- * Volume rounded for ease of administration

Approved:



 EMS Medical Director

Broselow color: RED
Broselow color: PURPLE
Broselow color: YELLOW

Kg range: 8-14kg Approx Kg: 10 kg
Approximate LBS: 20 lbs
ETT uncuffed size: 3.5(R) 4 (P) 4.5(Y)
ETT cuffed size: 3.0(R) 3.5(P) 4.0(Y) (or clinically equivalent biphasic energy dose)
NG tube size: 5-8 Fr 8-10 Fr 10 Fr

Defib: $\frac{1^{st}}{20 J}$ $\frac{2^{nd}}{40 J}$ $\frac{3^{rd}}{40 J}$
Cardiovert: 10 J 20 J 20 J

VOL	MEDICATION	DOSE	CONCENTRATION
0.3 ml *	Adenosine IV fast 1st	1mg	6 mg/2 ml
0.7 ml *	Adenosine IV fast 2nd/3rd	2 mg	6 mg/2 ml
6 ml	Albuterol- Nebulized	5 mg	2.5 mg/3 ml
1.25 ml	Atrovent- Nebulized	0.25 mg	0.5 mg/2.5 ml
2 ml	Atropine (Bradycardia) IV/IO	0.2 mg	1 mg/10 ml
0.5 ml	Atropine (OPP) IV/IM	0.2 mg	0.4 mg/1 ml
1 ml	Atropine ET	0.4 mg	0.4 mg/1 ml
0.2 ml	Benadryl IV/IM	10 mg	50 mg/1 ml
50 ml *	Charcoal PO	10 GM	50 GM/240 ml
20 ml	Dextrose IV 25%	5 GM	12.5 GM/50 ml
1 ml	Epinephrine IV/IO	0.1 mg	1:10,000 1mg/10ml
1 ml	Epinephrine ET	1 mg	1:1,000 1mg/1ml
0.1 ml	Epinephrine SC/IM	0.1 mg	1:1,000 1mg/1ml
2.5 ml	Epinephrine- Nebulized	2.5 mg	1:1,000 1mg/1ml
0.5 ml	Glucagon IM	0.5 mg	1 unit (mg)/1 ml
0.5 ml	Lidocaine 2% IV/IO	10 mg	100 mg/5 ml
1 ml	Lidocaine 2% ET	20 mg	100 mg/5 ml
0.1 ml	Morphine Sulfate IV/IM	1 mg	10 mg/1 ml
1.5 ml	Morphine Sulfate PO	3 mg	10 mg/5 ml
1 ml	Narcan IN/IM/IV	1 mg	1 mg/1 ml
10 ml	Narcan IV titrated increments	1 mg	Diluted to 1 mg/10 ml
200 ml	Normal Saline Fluid Bolus		Standard
10 ml	Sodium Bicarb IV	10 mEq	1 meq/1 ml
0.2 ml	Versed IV	1 mg	5 mg/1 ml
0.4 ml	Versed IN/IM	2 mg	5 mg/1 ml

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Approved:


EMS Medical Director

SUBJECT: TREATMENT PROTOCOL – PEDIATRIC (< 15 yo and < 37 kg) DRUG CHART

Date: 2009

Broselow color: WHITE

Kg range:15-18kg Approx Kg:15 kg

Approximate LBS: 30 lbs

ETT uncuffed size: 5

ETT cuffed size: 4.5

NG tube size: 10 Fr

Defib: 1st 30 J 2nd 60 J 3rd 60 J

Cardiovert: 15 J 30 J 30 J

(or clinically equivalent biphasic energy dose)

VOL	MEDICATION	DOSE	CONCENTRATION
0.5 ml	Adenosine IV fast 1st	1.5 mg	6 mg/2 ml
1 ml	Adenosine IV fast 2nd/3rd	3 mg	6 mg/2 ml
6 ml	Albuterol- Nebulized	5 mg	2.5 mg/3 ml
2.5 ml	Atrovent- Nebulized	0.5 mg	0.5 mg/2.5 ml
3 ml	Atropine (Bradycardia) IV/IO	0.3 mg	1 mg/10 ml
0.8 ml	Atropine (OPP) IV/IM	0.3 mg	0.4 mg/1 ml
1.5 ml	Atropine ET	0.6 mg	0.4 mg/1 ml
0.3 ml	Benadryl IV/IM	15 mg	50 mg/1 ml
70 ml *	Charcoal PO	15 GM	50 GM/240 ml
30 ml	Dextrose 25% IV	7.5 GM	12.5 GM/50 ml
1.5 ml	Epinephrine IV/IO	0.15 mg	1:10,000 1mg/10ml
1.5 ml	Epinephrine ET	1.5 mg	1:1,000 1mg/1ml
0.2 ml *	Epinephrine SC/IM	0.15 mg	1:1,000 1mg/1ml
5 ml	Epinephrine Nebulized	5 mg	1:1,000 1mg/1ml
0.8 ml *	Glucagon IM	0.75 mg	1 unit (mg)/1 ml
0.8 ml	Lidocaine 2% IV slow/IO	15 mg	100 mg/5 ml
1.5 ml	Lidocaine 2% ET	30 mg	100 mg/5 ml
0.2 ml *	Morphine Sulfate IV/IM	1.5 mg	10 mg/1 ml
2.3 ml *	Morphine Sulfate PO	4.5 mg	10 mg/5 ml
1.5 ml	Narcan IN/IM/IV	1.5 mg	1 mg/1 ml
15 ml	Narcan IV titrated increments	1.5 mg	Diluted to 1 mg/10 ml
300 ml	Normal Saline Fluid Bolus		Standard
15 ml	Sodium Bicarb IV	15 mEq	1 meq/1 ml
0.3 ml	Versed IV slow	1.5 mg	5 mg/1 ml
0.6 ml	Versed IN/IM	3 mg	5 mg/1 ml

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- * Volume rounded for ease of administration

Approved:


EMS Medical Director

Broselow color: BLUE

Kg range: 19-23kg Approx KG: 20 kg

Approximate LBS:	40 lbs	Defib:	<u>1st</u> 40 J	<u>2nd</u> 80 J	<u>3rd</u> 80 J
ETT uncuffed size:	5.5	Cardiovert:	20 J	40 J	40 J
ETT cuffed size:	5.0	(or clinically equivalent biphasic energy dose)			
NG tube size:	12-14 Fr				

VOL	MEDICATION	DOSE	CONCENTRATION
0.7 ml *	Adenosine IV fast 1st	2 mg	6 mg/2 ml
1.3 ml *	Adenosine IV fast 2nd/3rd	4 mg	6 mg/2 ml
6 ml	Albuterol- Nebulized	5 mg	2.5 mg/3 ml
2.5 ml	Atrovent- Nebulized	0.5 mg	0.5 mg/2.5 ml
4 ml	Atropine (Bradycardia) IV	0.4 mg	1 mg/10 ml
1 ml	Atropine (OPP) IV/IM	0.4 mg	0.4 mg/1 ml
2 ml	Atropine ET	0.8 mg	0.4 mg/1 ml
0.4 ml	Benadryl IV/IM	20 mg	50 mg/1 ml
100 ml *	Charcoal PO	20 GM	50 GM/240 ml
40 ml	Dextrose 25% IV	10 GM	12.5 GM/50 ml
2 ml	Epinephrine IV/IO	0.2 mg	1:10,000 1mg/10ml
2 ml	Epinephrine ET	2 mg	1:1,000 1mg/1ml
0.2 ml	Epinephrine SC/IM	0.2 mg	1:1,000 1mg/1ml
5 ml	Epinephrine Nebulized	5 mg	1:1,000 1mg/1ml
1 ml	Glucagon IM	1 mg	1 unit (mg)/1 ml
1 ml	Lidocaine 2% IV slow/IO	20 mg	100 mg/5 ml
2 ml	Lidocaine 2% ET	40 mg	100 mg/5 ml
0.2 ml	Morphine Sulfate IV/IM	2 mg	10 mg/1 ml
3 ml	Morphine Sulfate PO	6 mg	10 mg/5 ml
2 ml	Narcan IN/IM/IV	2 mg	1 mg/1 ml
20 ml	Narcan IV titrated increments	2 mg	Diluted to 1 mg/10 ml
400 ml	Normal Saline Fluid Bolus		Standard
20 ml	Sodium Bicarb IV	20 mEq	1 meq/1 ml
0.4 ml	Versed IV slow	2 mg	5 mg/1 ml
0.8 ml	Versed IN/IM	4 mg	5 mg/1 ml

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Approved:



 EMS Medical Director

Broselow color: ORANGE

Kg range: 24-29 kg Approx KG: 25 kg

Approximate LBS: 50 lbs

ETT uncuffed size: 6

ETT cuffed size: 5.5

NG tube size: 14-18 Fr

Defib: 1st 50 J 2nd 100 J 3rd 100 J

Cardiovert: 25 J 50 J 50 J

(or clinically equivalent biphasic energy dose)

VOL	MEDICATION	DOSE	CONCENTRATION
0.8 ml *	Adenosine IV fast 1st	2.5 mg	6 mg/2 ml
1.7 ml *	Adenosine IV fast 2nd/3rd	5 mg	6 mg/2 ml
6 ml	Albuterol- Nebulized	5 mg	2.5 mg/3 ml
2.5 ml	Atrovent- Nebulized	0.5 mg	0.5 mg/2.5 ml
5 ml	Atropine (Bradycardia) IV/IO	0.5 mg	1 mg/10 ml
1.3 ml *	Atropine (OPP) IV/IM	0.5 mg	0.4 mg/1 ml
2.5 ml	Atropine ET	1 mg	0.4 mg/1 ml
0.5 ml	Benadryl IV/IM	25 mg	50 mg/1 ml
120 ml	Charcoal PO	25 GM	50 GM/240 ml
50 ml	Dextrose 25% IV	12.5 GM	12.5 GM/50 ml
2.5 ml	Epinephrine IV/IO	0.25 mg	1:10,000 1mg/10ml
2.5 ml	Epinephrine ET	2.5 mg	1:1,000 1mg/1ml
10 ml	Epinephrine ETAD (#1 tube) Dilute with NS to 20 ml	10 mg	1:1,000 1mg/1ml
0.25 ml	Epinephrine SC/IM	0.25 mg	1:1,000 1mg/1ml
5 ml	Epinephrine Nebulized	5 mg	1:1,000 1mg/1ml
1 ml	Glucagon IM	1 mg	1 unit (mg)/1 ml
1.3 ml *	Lidocaine 2% IV slow/IO	25 mg	100 mg/5 ml
2.5 ml	Lidocaine 2% ET	50 mg	100 mg/5 ml
0.3 ml *	Morphine Sulfate IV/IM	2.5 mg	10 mg/1 ml
3.8 ml *	Morphine Sulfate PO	7.5 mg	10 mg/5 ml
2 ml	Narcan IN/IM/IV	2 mg	1 mg/1 ml
20 ml	Narcan IV titrated increments	2 mg	Diluted to 1 mg/10 ml
500 ml	Normal Saline Fluid Bolus		Standard
25 ml	Sodium Bicarb IV	25 mEq	1 meq/1 ml
0.5 ml	Versed IV slow	2.5 mg	5 mg/1 ml
1 ml	Versed IN/IM	5 mg	5 mg/1 ml

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Approved:



EMS Medical Director

Broselow color: GREEN

Kg range: 30-36kg Approx Kg: 35 kg

Approximate LBS: 70 lbs

ETT uncuffed size: 6.5

ETT cuffed size: 6.0

NG tube size: 18Fr

Defib: 1st 70 J 2nd 140 J 3rd 140 J

Cardiovert: 35 J 70 J 70 J

(or clinically equivalent biphasic energy dose)

VOL	MEDICATION	DOSE	CONCENTRATION
1.2 ml *	Adenosine IV fast 1st	3.5 mg	6 mg/2 ml
2.3 ml *	Adenosine IV fast 2nd/3rd	7 mg	6 mg/2 ml
6 ml	Albuterol- Nebulized	5 mg	2.5 mg/3 ml
2.5 ml	Atrovent- Nebulized	0.5 mg	0.5 mg/2.5 ml
7 ml	Atropine (Bradycardia) IV/IO	0.7 mg	1 mg/10 ml
1.8 ml *	Atropine (OPP) IV/IM	0.7 mg	0.4 mg/1 ml
3.5 ml	Atropine ET	1.4 mg	0.4 mg/1 ml
0.7 ml	Benadryl IV/IM	35 mg	50 mg/1 ml
170 ml *	Charcoal PO	35 GM	50 GM/240 ml
70 ml	Dextrose 25% IV	17.5 GM	12.5 GM/50 ml
3.5 ml	Epinephrine IV/IO	0.35 mg	1:10,000 1mg/10ml
3.5 ml	Epinephrine ET	3.5 mg	1:1,000 1mg/1ml
10 ml	Epinephrine ETAD (#1 tube) Dilute with NS to 20 ml	10 mg	1:1,000 1mg/1ml
0.3 ml	Epinephrine SC/IM	0.3 mg	1:1,000 1mg/1ml
5 ml	Epinephrine Nebulized	5 mg	1:1,000 1mg/1ml
1 ml	Glucagon IM	1 mg	1 unit (mg)/1 ml
1.8 ml *	Lidocaine 2% IV slow/IO	35 mg	100 mg/5 ml
3.5 ml	Lidocaine 2% ET	70 mg	100 mg/5 ml
0.4 ml	Morphine Sulfate IV/IM	3.5 mg	10 mg/1 ml
5 ml	Morphine Sulfate PO	10 mg	10 mg/5 ml
2 ml	Narcan IN/IM/IV	2 mg	1 mg/1 ml
20 ml	Narcan IV titrated increments	2 mg	Diluted to 1 mg/10 ml
500 ml	Normal Saline Fluid Bolus		Standard
35 ml	Sodium Bicarb IV	35 mEq	1 meq/1 ml
0.7 ml	Versed IV slow	3.5 mg	5 mg/1 ml
1.4 ml	Versed IM	7 mg	5 mg/1 ml
1 ml	Versed IN	5 mg	5 mg/1 ml

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