RESUSCITATION DRUGS

DRUG	DOSE	COMMENTS
Adenosine	1st dose: 0.1 mg/kg (max 6 mg/dose) 2nd dose: 0.2 mg/kg/dose (max 12 mg/dose)	Rapid IV bolus over 1–2 seconds using a stop cock and NS flush
Amiodarone	Refractory pulseless VT/VF: 5 mg/kg rapid IV/IO Perfusing tachycardias: 5 mg/kg over 20-60 min. max 300 mg/dose	Can repeat x 2 1st dose max 300mg 2nd dose max 150mg May cause hypotension For perfusing tachycardia, dilute to 2 mg/mL
Atropine	0.02 mg/kg IV	Min. dose: 0.1 mg Max. single dose: 0.5mg child 1mg adolescent
Calcium Chloride	20 mg/kg IV Rapid IV push in arrest	For documented hyperkalemia, hypocalcemia or calcium channel blocker overdose, Give slowly and dilute 1:1 CaCl with NS.
Epinephrine 1mg/10mL (1:10,000)	0.01mg/kg followed by 3-5 mL NS flush	Bradycardia / Asystole / Pulseless arrest max 1 mg
Epinephrine 1:1,000	(anaphylaxis dose) 1mg/1mL IM (max 0.3mg)	10kg – 0.1mg / 20kg – 0.2mg 30kg and up – 0.3mg
Glucose (dextrose)	D50W: 1-2 mL/kg D25W 2-4 mL/kg D10W 2-4 mL/kg	>8 yrs 6 months–8 yrs Neonate-6 mo max rate 2 mL/kg/min

If D25 or D10 are not available, utilize a syringe of D50. To make D25, expel 25mL of D50 and draw up 25mL of NS. To make D10, expel 40mL of D50 and draw up 40mL of NS. * Reminder: IO is appropriate after 2 failed IV attempts or 90 seconds.

Hydrocortisone	1–2 mg/kg dose IV dilute to 50mg/mL	Slow IVP over 3-5 min
Lidocaine	1 mg/kg max dose 3 mg/kg or 100 mg given over 5 min	Continuous infusion: 20-50 mcg/kg/min IV
Mannitol	0.5-1g/kg IV push over 5-10 min.	Use in-line filter and insert foley catheter
3% Saline	3-5 mL/kg infused over 5-30 min.	For increased ICP and hyponatremic seizures
IV Volume Resuscitation	20 mL/kg NS or LR may repeat up to 60 mL/kg	After 60 mL/kg, consider vasoactive drips DO NOT use glucose solutions CAUTION in Renal/ Cardiac patients, use 10 mL

INITIAL VENTILATOR SETTINGS

Oxygen:	100%
Tidal volume:	7-10 mL/kg
Rate:	Infants - 20-25 breaths/min
PEEP:	Child - 12-25 breaths/min 5 cm

AVERAGE PEDIATRIC VITAL SIGNS BY AGE

Age	New Born	3 Mo	6 Mo	1 Yr	2 Yr	3 Yr	4 Yr	6 Yr	8 Yr	12 Yr
Wt. (kg.)	3.5	6	8	10	12	15	17	20	25	40
Heart Rate	150	140	130	120	115	100	100	100	90	85
SBP	70	80	80	90	90	90	95	95	95	105
Resp. Rate	40	30	30	26	26	24	24	20	20	20
ETT Blade	#0-1	#1	#1	#1	#2	#2	#2	#2	#2-3	#3
ETT Size	3.0- 3.5	3.5- 4.0	3.5- 4.0	4.0- 4.5	4.0- 4.5	4.5- 5.0	4.5- 5.0	5.0- 5.5	5.5- 6.5*	6.5- 7.0*
SX. CATH	6F	8F	8- 10F	8- 10F	10F	10F	10F	10F	10F	12F
NGT	5-8F	5-8F	8- 10F	8- 10F	10F	10F or 10-12F	10- 12F	12- 14F	14F	14- 18F

For a cuffed ETT, use 1/2 size smaller.

· For patients greater than one month of age, a cuffed ETT is recommended.

Neonate 3.0-3.5 uncuffed

No Hurt

Hurts

Little Bit

Hurts

Little More

Avg. tube depth from gum/teeth = 3 x Normal ETT size (i.e. 3.0 x 3 = 9 cm @ gum)

SEIZURES			
DRUG	DOSE		
Lorazepam	0.1mg/kg		
Midazolam	0.1mg/kg IV, max 5 mg		
	0.2mg/kg IM, max 6mg		
	0.3mg/kg IN, max 10mg		
Levetiracetam	40mg/kg IV over 10 min, max 2500mg		
Fosphenytoin/Dilantin	20PE/kg IV over 15 min, max 1500mg		

PAIN AND SEDATION

PAIN MEDICATIONS Fentanyl IV / IM Fentanyl Intranasal Morphine IV/IM Ketamine IV Ketamine IM	1 mcg/kg IV/IM 1.5 mcg/kg 0.05 mg/kg 0.1 mg/kg 0.5 mg/kg	MAX DOSE 100 mcg 100 mcg 4 mg 100 mg 100 mg
SEDATION MEDICATIONS Versed IV/IM Versed Intranasal Ketamine IV Ketamine IM	0.1 mg/kg 0.5 mg/kg 1 mg/kg 2 mg/kg	MAX DOSE 4 mg 10 mg 150 mg 150 mg

Hurts

Even More

Hurts

Whole Lot

Hurts

Worst



GUIDELINES FOR PEDIATRIC ACUTE CARE

IMPORTANT PHONE NUMBERS

East Tennessee Children's Hospital Interfacility - (865) 541-8999 EMS - (865) 541-8133

Children's Hospital at Erlanger (423) 778-8100

Le Bonheur Children's Hospital (901) 287-4408

Monroe Carell Jr. Children's Hospital at Vanderbilt (866) 936-7575

PEDIATRIC ASSESSMENT KEY POINTS

Airway

- Tongue is large and may occlude the airway.

- Be cautious of swelling from disease or trauma.

- If intubation is necessary, use an uncuffed tube.

Breathing

- Use methods such as bag-valve mask before going to advanced airways. - Assess breath sounds in midaxillary area especially in smaller patients.

Circulation

- Heart rate and capillary refill must be checked on every patient and is a better initial indicator of shock.

- Persistent tachycardia may be the only sign of fluid depletion or shock. - Bradycardia is an ominous sign and most likely is secondary to hypoxia

Disability

- Investigate causes for altered level of consciousness (ie: the "H's & T's taught in AHA courses).

- Check blood glucose with AMS/seizures.
- Check pupils.

Exposure

- Expose entire patient especially if they are critical - Prevent heat loss.

Things to remember

- Call 15-20 minutes prior to arriving and include patient weight. - Call for medical direction (RMCC number listed) anytime during transport if needed.

ASTHMA

DRUG	DOSE
Albuterol neb	2.5 mg/dose q 20 min Continuous 25 mg/hour diluted
Epinephrine 1:10,000 neb	1mg/10mL in 3-5 mL NS
Ipratropium Bromide (Atrovent) neb 500 mcg/2.5 mL	0.5 mg Give in conjunction with Albuterol for at least the first aerosol.
Magnesium Sulfate	75mg/kg, max 2gms over 15 minutes WITH NS bolus over 30-60 minutes
Decadron	0.6mg/kg IV/PO, max 16mg
Solumedrol (Methylprednisolone)	1-2 mg/kg IV, 120 mg max
Terbutaline SQ 1 mg/mL	0.01 mg/kg/dose (max dose 0.5 mg/dose); can repeat q20 min x 3 doses
Terbutaline Infusion 1 mg/mL	10 mcg/kg IV over 10 min followed immediately by 0.4 mcg/ kg/min IV Increase by 0.2 mcg/kg/min (to 3-6 mcg/kg/min max dose)
Epinephrine 1:1,000	1mg/1mL to a max of 0.3 mg

CROUP			
Racemic Epinephrine neb Solu Medrol Epinephrine 1:1,000	2.25% 0.5 mg/mL add 3 mL of NS 1-2 mg/kg IV 120 mg max 2 mg/mL in 3-5 mL NS		
neb Decadron	0.6mg/kg IV/PO, max 16mg		

NEWBORN RESUSCITATION

- Dry, Warm, Position, Suction, Tactile, Stimulation Oxygen: (blow-by)
- BVM Ventilation: If heart rate < 100 bpm or gasping respirations
- · Chest Compressions: after 30 seconds of support and HR is < 60 bpm.
- Epi 1:10,000: 0.01mg/mL if HR continues <60 bpm
- Fluid boluses of NS should be 10mL/kg

DEFIBRILLATION DOSE

- Pulseless VT/VF-2J/kg then 4J/kg
- (may consider up to 10J/kg)
- Unstable SVT synchronized cardioversion 0.5-1J/kg then up to 2J/kg

GLASCOW COMA SCALE (GCS)

Eye Opening	
INFANTS 4 Spontaneous 3 To Speech 2 To Pain 1 None	CHILD/ADULT 4 Spontaneous 3 To Speech 2 To Pain 1 None
Best Verbal Response	
INFANTS5Coos, babbles4Irritable, cries3Cries to pain2Moans to pain1None	CHILD / ADULT 5 Oriented 4 Confused 3 Inappropriate words 2 Nonspecific sounds 1 None
Best Motor Response	
 INFANTS Normal, spontaneous movements Withdraws to touch Withdraws to pain Abnormal flexion Abnormal extension None (flaccid) 	 CHILD / ADULT Follows commands Localizes pain Withdraws to pain Flexion response to pain Extension None (flaccid)

PEDIATRIC INTUBATION DRUGS

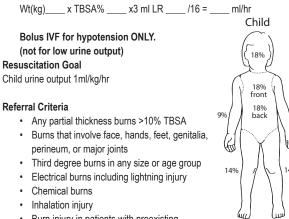
DRUG Adjunct drugs	DOSE	COMMENTS
Atropine	0.02 mg/kg	Max. single dose
		0.5mg child 1mg adolescent
Lidocaine	1.5 mg/kg	Give 3 minutes prior to intubation in head injured patients to prevent laryngospasm and 1 ICP
SEDATIVES		
Midazolam (Versed)	0.1 mg/kg	(max 5 mg/dose)
Ketamine	2 mg/kg	Drug of choice for status asthmaticus and sepsis Max dose 100mg
Etomidate	0.3 mg/kg	For head injured hemodynamically unstable patients. Do not use in septic shock. Max dose 20mg
PARALYTICS		
Succinylcholine	1-2 mg/kg	Contraindicated in patients with neuromuscular disease, glaucoma, eye injuries, severe burns or crush injuries. May increase BP. Max dose 150mg
Rocuronium (Zemuron)	1 mg/kg	Paralytic of choice for RSI
Vecuronium (Norcuron)	0.1 mg/kg	Utilize for long-term paralysis Max dose 10mg

PEDIATRIC BURN GUIDELINES

Total Body Surface Area Chart

Fluid resuscitation applicable only for 2nd/3rd degree burns: >10% TBSA - Pediatrics

Child: Ages 14 & under



- · Burn injury in patients with preexisting medical conditions
- · Any patient with burns occurring with trauma

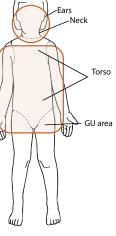
CHILD ABUSE

TEN-4 Torso Ears Neck 4 years of age or under Or Any bruising on a child less than 4 months of age is a major indicator of child abuse. Please contact the Department of Children's Services if there is concern for child abuse. Any bruising in the GU area can be a major indicator of

child abuse.

consultation.

Please contact your CRPC for



Every effort has been made to provide information that is accurate and in accordance with good medical practice. It is the responsibility of the attending physician to evaluate the appropriateness of a particular opinion in the context of the clinical situation and give consideration to your knowledge, skill, new medical developments and FDA regulations.