SOUTH PLAINS EMERGENCY MEDICAL SERVICE

PROTOCOL SUPPLEMENT 2017

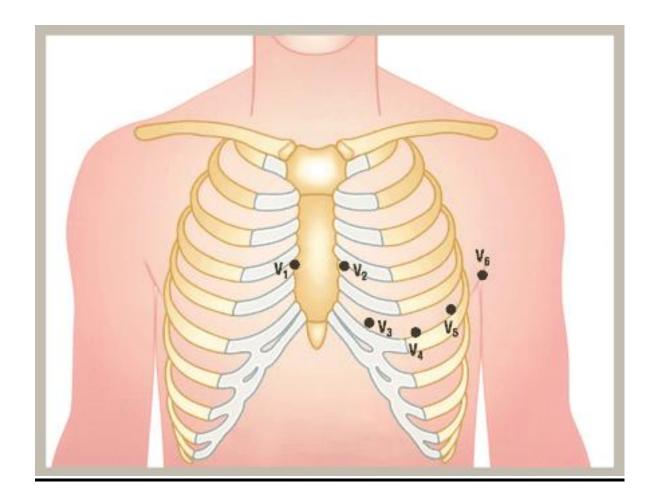
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LEFT SIDED V-LEAD PLACEMENT



V₁: Right 4th intercostal space

V₂: Left 4th intercostal space

V₃: Halfway between V₂ and V₄

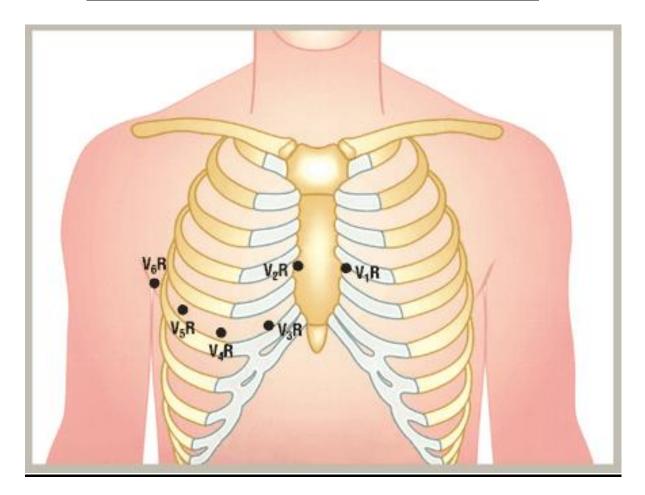
V₄: Left 5th intercostal space, mid-clavicular line

V₅: Horizontal to V₄, anterior axillary line

 V_6 : Horizontal to V_5 , mid-axillary line

In an emergent situation and time does not permit a complete right sided EKG, move V_4 to the V_4R position to confirm a right ventricular infarct.

RIGHT SIDED V-LEAD PLACEMENT



V₁R: Left 4th intercostal space

V₂R: Right 4th intercostal space

V₃R: Halfway between V₂ and V₄

V₄R: Right 5th intercostal space, mid-clavicular line

V₅R: Horizontal to V₄, anterior axillary line

V₆R: Horizontal to V₅, mid-axillary line

In an emergent situation and time does not permit a complete right sided EKG, move V_4 to the V_4R position to confirm a right ventricular infarct.

ACETAMINOPHEN

(Tylenol, APAP)

	TT 10 1 00 0
INDICATIONS	Used for the management of fever of
	100.4° F. or greater
ADMINISTRATION	Orally
DOSAGE	
	10mg/kg up to 1,000mg. Given in 500mg
ADULT	tablets so medication dosage will be
	rounded to nearest 500mg increment
PEDIATRIC	Not used for pediatrics. Liquid Children's
	Motrin is used for pediatrics
	As an antipyretic, Acetaminophen is used
THERAPEUTIC EFFECTS	to manage fever and to treat/prevent sepsis
CONTRAINDICATIONS	Allergy
	History of liver disease
	Has taken Acetaminophen within the
	last 90 minutes
SIDE EFFECTS	Skin Reactions (rare)
SPECIAL NOTES/RESTRICTIONS	Acute overdose may lead to liver
	damage/failure

ACTIVATED CHARCOAL

INDICATIONS	Used to treat certain types of poisonings
	and overdoses
ADMINISTRATION	PO
DOSAGE	
ADULT	1g/kg up to a max of 50g
PEDIATRIC	1g/kg up to a max of 50g
THERAPEUTIC EFFECTS	Binds and absorbs various chemicals and poisonous compounds, thereby reducing
	their absorption into the body
CONTRAINDICATIONS	Caustic/Corrosive substancesCyanide poisoningsSemi-conscious or unconscious patients
SIDE EFFECTS	Abdominal cramping, constipation, dark stools, and nausea and vomiting
SPECIAL NOTES/RESTRICTIONS	 Online medical control orders required Does not absorb all drugs or toxic substances (i.e. Cyanide, Lithium, Iron, Lead, Arsenic, etc) Has no effect in methanol or organophosphate poisonings Has little therapeutic value in caustic alkalis and acid poisonings Should not be given with ice cream, milk, sherbet or syrup of Ipecac

ADENOSINE

(Adenocard)

(Auci	iocaru)
INDICATIONS	 Paroxysmal Supraventricular Tachycardia Supraventricular Tachycardia
	Wolfe-Parkinson-White Syndrome
ADMINISTRATION	Rapid IV or IO push with immediate 10cc NS flush
DOSAGE	
ADULT	Initial dose is 12mg rapid IV or IO push, may repeat once at 12mg rapid IV or IO push
PEDIATRIC	0.1mg/kg rapid IV or IO push to a max of 12mg
THERAPEUTIC EFFECTS	 Slows conduction time through AV node Interrupts reentry pathways through AV node Restores Sinus Rhythm in patients with SVT
CONTRAINDICATIONS	 Hypersensitivity 2nd or 3rd degree AV blocks Sinus node dysfunction, such as sick sinus syndrome or symptomatic bradycardia Atrial Flutter/Atrial Fibrillation Ventricular Tachycardia
SIDE EFFECTS	 Transient AV block, Asystole and other Dysrhythmias Chest pressure Dizziness Flushing Nausea/Vomiting Shortness of Breath
SPECIAL NOTES/RESTRICTIONS	 Onset is generally within less than one minute Adverse effects are usually short lived and easily tolerated Effects may be more pronounced in patients on Dipyridamole Effects may be attenuated in patients on Theophylline preparations

AMIODARONE

(Cordarone)

	Ventricular Fibrillation, Ventricular
INDICATIONS	Tachycardia, SVT
ADMINISTRATION	IVP, IO or IV infusion
DOSAGE	
ADULT	 Pulseless VF/VT-Initial 300mg IVP or IO Pulseless VF/VT- Repeat 150mg IVP or IO Stable V-Tach-150mg over 10 minutes, may repeat every 10 minutes to a max of 450mg SVT-150mg IV or IO over 10 minutes. May be repeated once if needed.
PEDIATRIC	 Pulseless VF/VT Initial-5mg/kg to a max of 300mg IV or IO May repeat once in 3-5 minutes at 2.5mg/kg to a max of 150mg V-Tach with a pulse-5mg/kg, IVP or IO over 20 minutes to a max of 150mg SVT-5mg/kg, IV or IO over 20 minutes, to a max of 150mg
THERAPEUTIC EFFECTS	 Prolongs action potential and refractory period Reduces ventricular dysrythmias and raises fibrillatory threshold
CONTRAINDICATIONS	 Cardiagenic shock Hypersensitivity to drug 2nd or 3rd degree AV block Severe Sinus Bradycardia Severe sinus node dysfunction Patients with VAD device unless in cardiac arrest
SIDE EFFECTS	HypotensionBradycardiaAsystolePEA
SPECIAL NOTES/RESTRICTIONS	 Serial use of calcium channel blockers, Beta blockers and other antiarrhythmics may cause additive hypotensive bradycardia and proarrhythmogenic effects Draw up slowly to prevent bubbling

ASPIRIN

INDICATIONS	Myocardial Infarction, Chest Pain
ADMINISTRATION	Chewed PO
DOSAGE	
ADULT	1 Adult ASA 325mg
PEDIATRIC	Not Indicated
THERAPEUTIC EFFECTS	 Inhibits platelet aggregation by blocking formation of Thromboxane A2 Reduces overall mortality of Acute MI Reduces non-fatal re-infarction
CONTRAINDICATIONS	 Hypersensitivity to Aspirin Active bleeding condition or ulcer Pregnancy Patient's with a VAD device
SIDE EFFECTS	HeartburnIndigestionNausea
SPECIAL NOTES/RESTRICTIONS	Patients on Coumadin (Warfarin) MAY take Aspirin in the acute setting

ATROPINE

(ATROPINE, COMPONENT OF MARK-I AUTO INJECTOR)

	Symptomatic Bradycardia,
	Organophosphate Poisoning and prior to
INDICATIONS	
A DA MANICIPO A INTONI	RSI in patients < 16 y/o
ADMINISTRATION	IV, IO, ETT
DOSAGE	
	Symptomatic Bradycardia: 0.5mg IVP
	every 3-5minutes to a max of 3mg.
ADULT	Organophosphate Poisoning: 2mg IVP
	every 5 minutes until lungs clear or BP
	>90 systolic and pulse > 60.
	Symptomatic Bradycardia: 0.02mg/kg
	IV, minimum does 0.1mg, maximum
PEDIATRIC	single does 0.5mg may repeat in 3-5
	minutes. Max dose for children 0-8
	years old is 1mg, max dose for children
	9-15 years old is 2mg.
	Organophosphate Poisoning:
	0.05mg/kg to a max of 2mg per dose
	every 10-15 minutes, or until lungs
	clear or BP >90 systolic and pulse >60.
	(Minimum does if 0.1mg)
	PAI: 0.02mg/kg to a max of 1.0mg to
	all patients <16 years old
	Blocks acetylcholine receptor sites
THERAPRUTIC EFFECTS	Decreases vagal tone
THERAI RUTTE EFFECTS	Increases SA and AV nodal conduction
	Dries Secretions
CONTRAINDICATIONS	Allergy
CONTRAINDICATIONS	Tachycardia
	Blurred Vision
SIDE EFFECTS	Dry Mouth
	Headache
	Pupillary dilation
	Tachycardia
SPECIAL NOTES/RESTRICTIONS	Organophosphate may require larger doses

BENADRYL

(Diphenhydramine)

(Diphemiy Gramme)	
INDICATIONS	Allergic Reaction
ADMINISTRATION	IV, IO
DOSAGE	
ADULT	50mg IV or IO
PEDIATRIC	1.0mg/kg IV or IO to a max of 50mg
THERAPEUTIC EFFECTS	Inhibits histamine release and effects
	Anticholinergic effects antagonize extra
	pyramidal symptoms
CONTRAINDICATIONS	Acute asthma exacerbation
	Acute Glaucoma
	Pregnancy
	Sensitivity to drug
SIDE EFFECTS	Blurred vision
	Headache
	Palpitations
	Sedation
SPECIAL NOTES/RESTRICTIONS	Contact Medical Control if patient is
	suspected to be having a dystonic
	reaction

CALCIUM GLUCONATE 10%

INDICATIONS	Magnesium toxicity
ADMINISTRATION	Slow IV push
DOSAGE	
ADULT	1 gram SLOW IV Push
PEDIATRIC	Not used for Pediatrics
THERAPEUTIC EFFECTS	Antidote for Magnesium Sulfate toxicity
CONTRAINDICATIONS	Hypersensitivity
SIDE EFFECTS	 Nausea, constipations, GI irritation Rapid IV may cause vasodilation, cardiac arrhythmias, hypotension, bradycardia Infiltrated IV site may cause local necrosis and abscess formation
SPECIAL NOTES/RESTRICTIONS	Assure IV patency prior to administrationGive SLOWLY

DECADRON

(Dexamethasone)

	,
INDICATIONS	 Severe respiratory distress with wheezing Allergic reactions that are accompanied with respiratory distress Bee Stings
ADMINISTRATION	IV, IO
DOSAGE	
ADULT	20mg SIVP
PEDIATRIC	0.6mg/kg to a max of 20mg SIVPNot indicated if < 2YOA
THERAPEUTIC EFFECTS	Anti-inflammatory agentMay prevent the release of histamine
CONTRAINDICATIONS	 Psychosis Hypersensitivity to the drug Fungal infections Non-Asthmatic bronchial disease CHILD < 2 years of age AIDS TB
SIDE EFFECTS	 Tachycardia Bradycardia Hypertension Increase sweating Seizures Headache
SPECIAL NOTES/RESTRICTIONS	 To be used in conjunction with bronchodilators Use caution in women who are pregnant

DEXTROSE 12.5%, 25%, and 50%

(D12.5W, D25W, and D50W)

(2 1 2 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	vi, and Dovvi)
INDICATIONS	Hypoglycemia
ADMINISTRATION	IV, IO
DOSAGE	
ADULT	25g (50cc D50) IVP, IO
PEDIATRIC	 D25W for pediatrics ≥ 1yoa Dextrose 25% (D25W), 2cc/kg, IV, IO to a max of 100cc. (D50W may be diluted 1 to 1 with NS to achieve D25W) D12.5W for Pediatrics < 1yoa Dextrose 12.5% (D12.5W), 5cc/kg, IV, IO. D50W may be diluted 1 to 3 with NS to achieve D12.5W)
THERAPEUTIC EFFECTS	Immediate source of glucose
CONTRAINDICATIONS	CVA with normal serum glucose
SIDE EFFECTS	Local irritation
SPECIAL NOTES/RESTRICTIONS	 Dilute dextrose before administration to pediatric patients Can potentially precipitate acute neurological symptoms in alcoholics Causes local tissue necrosis if IV infiltrates

DOPAMINE

(Intropin)

INDICATIONS	Cardiogenic shock, Refractory	
INDICATIONS	Hypotension	
ADMINISTRATION	IV or IO infusion	
DOSAGE		
ADULT	5mcg/kg/min, IV or IO, increased by 5mcg/kg/min every 2 minutes until: Max of 20mcg/kg/min given or Systolic BP 90-110mmHg	
PEDIATRIC	 5mcg/kg/min, IV or IO If perfusion not adequate after 2 minutes, increase to a max of 10mcg/kg/min 	
THERAPEUTIC EFFECTS	 Stimulates alpha, beta, and dopamine receptors, depending on dose Increases cardiac output and systemic arterial pressure Dilates vessels to the brain, heart and kidneys Increases heart rate 	
CONTRAINDICATIONS	 Uncorrected hypovolemic shock Uncorrected tachydysrhythmias Allergy Patients with a VAD device unless in cardiac arrest 	
SIDE EFFECTS	AnginaEctopyHeadacheTachydysrhythmias	
SPECIAL NOTES/RESTRICTIONS	 Titrate to blood pressure Hypovolemia should be corrected with volume expansion fluids prior to the administration of Dopamine. 	

DUO-NEB

(Combivent)

INDICATIONS	Acute Bronchospasm, Respiratory distress,
	Allergic reaction, CHF, Asthma, COPD
ADMINISTRATION	Hand held Nebulizer, Nebulizer Mask,
ADMINISTRATION	Inline ETT Nebulizer
DOSAGE	
ADULT	Mixture of 3mg of Albuterol with 0.5mg of
ADULI	Ipratropium Bromide in 3cc
DEDIATRIC	Mixture of 3mg of Albuterol with 0.5mg of
PEDIATRIC	Ipratropium Bromide in 3cc
	Decreased bronchospasm via beta
THERAPEUTIC EFFECTS	receptors
	Improves pulmonary function
	Hypersensitivity to any of the contents
CONTRAINDICATIONS	of the solution (including Atropine)
	 Tachydysrhythmias
	Cough
	Dizziness or Nervousness
SIDE EFFECTS	Nausea
	Tachycardia
	• Tremor
SPECIAL NOTES/RESTRICTIONS	May be nebulized via ETT in intubated
	asthmatics or COPD patients
	• For patients with a VAD device, limit
	to one dose

EPINEPHRINE

(Epi 1:10,000 and Epi 1:1,000)

(Epi 1.10,000 and Epi 1.1,000)		
INDICATIONS	Cardiac Arrest, Allergic reaction, and Pediatric Bradycardia	
ADMINISTRATION	IV, IO, IM, ETT	
DOSAGE	11, 10, 111, 211	
ADULT	 Cardiac arrest: 1mg IV or IO every 3-5 minutes or 2mg via ETT every 3-5 minutes of 1:10,000 Allergic Reaction Stable: 0.2mg of 1:10,000 IV Allergic Reaction Unstable: 0.5mg of 1:10,000 IV 	
PEDIATRIC	 Cardiac Arrest-: 1:10,000 0.01mg/kg IV, IO or 0.1mg/kg ETT of 1:1,000 solution up to a max on 1 mg per single dose Bradycardia-: 0.01mg/kg of 1:10,000 solution IV or IO to a max of 5cc per single dose, or 0.1mg/kg ETT 1:1,000 solution to a max of 0.5cc per single dose repeat every 3-5 minutes at same dose Allergic Reaction: 0.01mg/kg IV or IO of 1:10,000, max dose of 0.5mg (ADMINISTER ONLY IF EVIDENCE OF SHOCK IS PRESENT) Epinephrine 1:1,000: 0.01mg/kg to a max of 0.15mg IM 	
THERAPEUTIC EFFECTS	 Stimulates alpha and beta adrenergic receptors Increases heart rate, systemic blood pressure and coronary blood flow 	
CONTRANDICATIONS	 Hypertension Tachycardia Patients with VAD device unless in cardiac arrest or severe allergic reaction 	
SIDE EFFECTS	HypertensionPalpitationsTachycardiaTremors	
SPECIAL NOTES/RESTRICTIONS	 Pay special attention to the concentration either 1:1,000 or 1:10,000 Epinephrine 1:1,000 is NEVER GIVEN IV 	

EPINEPHRINE DRIP

INDICATIONS Bradyarrhythmias resistant to Atropine a	nd
pacing therapy	
ADMINISTRATION IV Drip	
IV DRIP PREPARATION Inject 1mg of 1:1,000 Epi in a 100cc or 250cc bag of NS	
DOSAGE	
• 2-10mcg/min IV drip	
Mixed in 100cc bag:	
$ \begin{array}{ccc} & \text{Wixed in Fooce bag.} \\ & \circ & \text{Imcg} = 6\text{gtt/min} \end{array} $	
0 Timeg = 0 gtt/min $0 2 meg = 12 gtt/min$	
ADULT $0.2 \text{ meg} = 12 \text{ gu/min}$	
• Mixed in 250cc bag:	
0 1mcg = 15gtt/min	
$ \circ 2mcg = 30gtt/min $	
0 10mcg = 150gtt/min	
• 2-10mcg/min IV drip	
• Mixed in 100cc bag:	
$\circ 1\text{mcg} = 6\text{gtt/min}$	
o 2mcg = 12gtt/min	
PEDIATRIC 0 10mcg = 60gtt/min	
• Mixed in 250cc bag:	
$\circ 1\text{mcg} = 15\text{gtt/min}$	
\circ 2mcg = 30gtt/min	
○ 10mcg = 150gtt/min	
Stimulates alpha and beta adrenergic	
THERAPEUTIC EFFECTS receptors	
• Increases heart rate, systemic blood	
pressure and coronary blood flow	
Hypertension	
CONTRANDICATIONS • Tachycardia	
Patients with VAD device	
Hypertension	
• Palnitations	
SIDE EFFECTS • Tachycardia	
• Tremors	
SPECIAL NOTES/RESTRICTIONS • Always mix with 1:1,000 concentrati	on

ETOMIDATE

(Amidate)

INDICATIONS	Chemical Sedation, RSI
ADMINISTRATION	IV, IO
DOSAGE	
ADULT	0.3mg/kg IV or IO to a max of 40mg
PEDIATRIC	0.3mg/kg IV or IO to a max of 40mg
THERAPEUTIC EFFECTS	
CONTRAINDICATIONS	Hypersensitivity
SIDE EFFECTS	Pain at injection site
	Respiratory depression
SPECIAL NOTES/RESTRICTIONS	

FENTANYL

(Duragesic)

INDICATIONS	Dain Managamant
ADMINISTRATION	Pain Management IV, IO, IN (Intranasal)
DOSAGE	IV, IO, IIV (IIII anasai)
ADULT	 IV/IO Dose: 5mcg/kg for single dose max of 100 mcg, (2.5mcg/kg if >60 years of age) May repeat once at same dosage if needed in 3-5 minutes IN Dose: 5mcg/kg for single dose with max of 100mcg May repeat once at same dosage if needed in 3-5 minutes
PEDIATRIC	 IV/IO Dose: 5 mcg/kg for a single does max of 100 mcg May repeat once at same dosage if needed in 3-5 minutes IN Dose: 5mcg/kg for single dose with max of 100mcg May repeat once at same dosage if needed in 3-5 minutes Not indicated for children < 2 years of age
THERAPEUTIC EFFECTS	 Inhibits ascending pain pathways in CNS Increases pain threshold Alters pain perception by binding to opiate receptors
CONTRAINDICATIONS	 Hypersensitivity Asthma Severe renal disease Severe hepatic disease
SIDE EFFECTS	 Dizziness Bradycardia Hypotension Hypertension Blurred vision Nausea/Vomiting Urinary Retention Diaphoresis Respiratory depression
SPECIAL NOTES/RESTRICTIONS	 Light Sensitive DO NOT use in children < 2 years of age

GLUCAGON

INDICATIONS	Hypoglycemia
ADMINISTRATION	IM
DOSAGE	
ADULT	1mg IM
PEDIATRIC	0.5mg IM
THERAPEUTIC EFFECTS	Increases blood sugar
	Improves mental status
CONTRAINDICATIONS	Hypersensitivity
CONTRAINDICATIONS	Hyperglycemia
SIDE EFFECTS	Hypotension
	Nausea and Vomiting
SPECIAL NOTES/RESTRICTIONS	Peak effect occurs within 30 minutes
	Pts can be hyperglycemic for one to
	two hours after

IBUPROFEN

(Motrin)

	Used for the management of fever of
INDICATIONS	100.4° F. or greater
ADMINISTRATION	Orally
DOSAGE	
	10mg/kg up to 800mg. Given in 200mg
ADULT	tablets so medication dosage will be
	rounded to nearest 200mg increment
PEDIATRIC	10mg/kg up to 800mg of Liquid Children's
TEDIATRIC	Motrin is used for pediatrics
THERAPEUTIC EFFECTS	As an antipyretic, Acetaminophen is used
	to manage fever and to treat/prevent sepsis
	• Allergy
CONTRAINDICATIONS	• Pregnancy
	Hyperglycemia
	Nausea
SIDE EFFECTS	GI distress/bleeds
	• Dizziness
	Skin rash
	Fluid retention
	Constipation
	Hypertension
SPECIAL NOTES/RESTRICTIONS	May decrease the effect of aspirin

KETAMINE

(Ketalar)

(Notalar)	
INDICATIONS	For the chemical sedation of patients suffering from Excited Delirium Syndrome as often exhibited by abuse of stimulant drugs, synthetic marijuana, and bath salts
ADMINISTRATION	IV or IM
DOSEAGE	
ADULT	 IV: 2mg/kg slow push (over 1 minute) May repeat once in 10 minutes if needed IM: 5mg/kg in thigh. (May require multiple injections as a maximum of 5cc per injection may be given) May repeat once in 20-25 minutes if indicated. (IV route is preferred for repeat doses)
PEDIATRIC	 IV: 2mg/kg slow push (over 1 minute) May repeat once in 10 minutes if needed IM for children <5yoa: 3mg/kg in thigh May repeat once in 20-25 minutes if indicated (IV route is preferred for repeat doses) IM for children ≥5yoa: 5mg/kg in thigh. (May require multiple injections as a maximum of 5cc per injection may be given) May repeat once in 20-25 minutes if indicated (IV route is preferred for repeat doses) Should NOT be administered to infants < 3 months old
THERAPEUTIC EFFECTS	 Anesthetic medication Amnesic Reduces anxiety and causes sedation
CONTRAINDICATIONS	AllergicInfants < 3 months of age
SIDE EFFECTS	 Increased nasal/oral secretions Muscle tremors Respiratory depression Elevated BP
SPECIALNOTES/RESTRICTIONS	 Administration of Atropine may be indicated if significant oral/nasal secretions develop If given IM, an IV should be established after sedation. IV route is preferred for repeat doses.

LABETOLOL

(Normodyne)

(100 modyne)		
INDICATIONS	Hypertensive Crisis	
ADMINISTRATION	IV, IO	
DOSEAGE		
ADULT	10-20mg IV or IO per online medical control	
PEDIATRIC	Not indicated	
THERAPEUTIC EFFECTS	Decreases blood pressure without reflex tachycardia or significant reduction in heart rate.	
CONTRAINDICATIONS	 Hypersensitivity to Beta blockers, Cardiogenic shock 2nd or 3rd degree AV blocks, Sinus Bradycardia, CHF, or Bronchial Asthma Patients with VAD device 	
SIDE EFFECTS	 Orthostatic hypotension CHF Chest Pain Ventricular dysrhythmias AV Block 	
SPECIALNOTES/RESTRICTIONS	 Use caution in patients who are pregnant, or have diabetes, or well compensated heart failure, and in the elderly Must have online medical direction to give in EMS setting 	

LACTATED RINGERS

(LR)

INDICATIONS	Trauma and Burns. First line IV fluid of
	choice for all trauma patients
ADMINISTRATION	IV, IO
DOSAGE	
ADULT	T.K.O. to W/O IV or IO
PEDIATRIC	T.K.O. to W/O (20mg/kg) IV or IO
	Expands circulation volume
THERAPEUTIC EFFECTS	Isotonic solution
	• Contains sodium chloride, potassium
	chloride, calcium chloride, and sodium
	lactate
CONTRAINDICATIONS	High doses in Congestive Heart Failure
SIDE EFFECTS	Edema
	Fluid Overload
	Electrolyte imbalance
	Hypertension
SPECIAL NOTES/RESTRICTIONS	Monitor vital signs and ECG
	continuously
	• Listen to breath sounds for signs of
	pulmonary edema
	Can cause hypertension

LIDOCAINE

(Xylocaine)

INDICATIONS	Ventricular arrhythmias, Pre IO fluid
	Infusion. PAI for patients w/head injuries
ADMINISTRATION	IV, IO, ETT, IV infusion, IO infusion
DOSAGE	
ADULT	 PVCs: 1mg/kg, if not suppressed give 0.5mg/kg every five minutes until PVCs suppressed or 3mg/kg has been given Lidocaine Drip must be started at 2mg/minute after using Lidocaine to treat Ventricular arrhythmias PAI: 1mg/kg for patients with a head injury Adult IO: Prior to infusion of fluids or flushes in the conscious adult patient you may administer 1mg/kg to a max of 50 mg, if no contraindications
PEDIATRIC	 2mg/kg ETT to a max of 6mg/kg for patients with V-Tach with a pulse, and V-Fib and V-Tach without a pulse Lidocaine Drip for post resuscitation at 30mcg/kg/min Head Injury 0.5mg/kg Pedi IO: Prior to infusion of fluids or flushes in the conscious pedi patient you may administer 0.5mg/kg to a max of 50mg, if no contraindications
THERAPEUTIC EFFECTS	 Suppresses Ventricular ectopy Elevates threshold for ventricular fibrillation Suppresses re-entry arrhythmias
CONTRAINDICATIONS	 Idioventricular rhythms 2nd and 3rd degree AV blocks Allergy to local anesthetics Sinus bradycardia Patients with VAD device unless in cardiac arrest
SIDE EFFECTS	 Arrhythmias Hypotension Irritability Muscle twitching Seizures
SPECIAL NOTES/RESTRICTIONS	 Successful use of Lidocaine IVP or IO should be followed by additional boluses Boluses should be reduced in cases of shock, CHF, or elderly patients

MAGNESIUM SULFATE 50%

	Prevention and control of seizures in
INDICATIONS	severe toxemia of pregnancy
	(Eclampsia)
ADMINISTRATION	Slow IV push, IV infusion
DOSAGE	-
	IVP : Loading dose is 4grams SLOW IV
ADITE	Push over 15 minutes.
ADULT	Should be diluted 1:1 with NS
	Maintenance Dose: 1 gram/hr IV drip
PEDIATRIC	 Not used for pediatrics
	 Blocks neuromuscular transmission
THERAPEUTIC EFFECTS	 Decreases the amount of acetylcholine
	liberated
CONTRAINDICATIONS	 Hypersensitivity
CONTRAINDICATIONS	 Patients with VAD device
	Side effects are a result of magnesium
	intoxication:
	• Flushing, sweating, depressed reflexes,
	flaccid paralysis, hypothermia
SIDE EFFECTS	Hypotension
SIDE EFFECTS	Circulatory collapse, cardiac
	depression,
	 CNS depression proceeding to
	respiratory paralysis
	Hypocalcemia
	 Monitor closely for magnesium
	intoxication especially falling BP and
	respiratory paralysis
SPECIAL NOTES/RESTRICTIONS	Should be used with caution on patients
	with renal impairment
	Administration of Calcium Gluconate
	will normally reverse magnesium
	intoxication
IV DRIP PREPARATION	For 250cc Bag:
	• Mix 5 grams in 250cc of NS
	• Run at 50gtt/min
	For 500cc Bag: Mix 5 grows in 500cc of NS
	Mix 5 grams in 500cc of NS Pup at 100ctt/min
	• Run at 100gtt/min

MORPHINE

INDICATIONS	Pain management, Pulmonary Edema,
	CHF, and Cardiac Chest pain or AMI
ADMINISTRATION	IV, IO
DOSAGE	Dainy 2 Company agreet if manded assessed
ADULT	• Pain: 2-6mg may repeat if needed every 10 minutes or until systolic BP is <90mmHg
	• Pulmonary Edema/CHF: 2-6mg may repeat once in 10 minutes if systolic BP >90mmHg
	• Chest Pain: 2-6mg may repeat as need
	every 10 minutes until pain is relieved or systolic BP < 90mmHg
	• Pain: 0.1mg/kg up to a max single does
PEDIATRIC	of 3mg
FEDIATRIC	• Pulmonary Edema: 0.1mg/kg to a max
	single does of 3mg
	Binds with opiate receptors to reduce
THERAPEUTIC EFFECTS	pain
	Peripheral vasodilation
	Use of Monoamine Oxidase
	Inhibitors (MAOI's) within the past
	14 days
	Asthma GODD
CONTRAINDICATIONS	• COPD
	Head Injury
	Hypotension
	Hypovolemia
	Respiratory depression
	Patients with a VAD device
SIDE EFFECTS	Bradycardia
	Hypotension
	Nausea and vomiting
SPECIAL NOTES/RESTRICTIONS	Respiratory depression
	Naloxone (Narcan) and respiratory
	equipment should be immediately accessible.
	accessible.

NARCAN

(Naloxone)

INDICATIONS	O
INDICATIONS	Opiate Overdose, Decreased LOC
ADMINISTRATION	IV, IO, ETT, IN (Intranasal)
DOSAGE	
ADULT	 IV/IO Dose: 2mg, may be repeated if no changes in patients mental status Patients on chronic high dosages of Narcotics give 0.1mg every 2-3 minutes for clinical effect. IN Dose: 2mg, may be repeated once if no increase in respirations or LOC
PEDIATRIC	 IV/IO Dose: 0.1mg/kg to a max of 2mg IN Dose: 0.1mg/kg to a max of 2mg, may be repeated once if no increase in respirations or LOC
THERAPEUTIC EFFECTS	Reverses effects of most narcotic agents
CONTRAINDICATIONS	Hypersensitivity to Naloxone
SIDE EFFECTS	 Acute Narcotic withdrawal Hypertension Irritability Nausea and vomiting Tachycardia
SPECIAL NOTES/RESTRICTIONS	 Does not reverse benzodiazepine overdoses May precipitate acute withdrawal symptoms Caution should be exercised when administering Naloxone to patients addicted to narcotics

NITROGLYCERIN

(Nitro-Bid, Nitrostat)

INDICATIONS	Chast Dain Dulmanary Edama CHE
	Chest Pain, Pulmonary Edema, CHF
ADMINISTRATION	SL
DOSAGE	
ADULT	 Chest Pain or ACS: If systolic BP is >90mmHg give 0.4mg SL or 1 metered spray of Nitro spray, every 5 minutes until symptoms relieved or Systolic blood pressure < 90mmHg Pulmonary Edema/CHF: If systolic BP > 90mmHg give one Nitro 0.4mg SL or one metered Nitro Spray, may repeat X 1
PEDIATRIC	NOT INDICATED
THERAPEUTIC EFFECTS	Dilates coronary and systemic arteries
CONTRAINDICATIONS	 Head trauma Hypertrophic Cardiomyopathy Glaucoma Hypotension Use of Viagra, Cialis or Levitra within past 48 hours Patients with a VAD device
SIDE EFFECTS	DizzinessHeadacheHypotension
SPECIAL NOTES/RESTRICTIONS	Contact Medical Control prior to administration if taking Viagra, Cialis or Levitra

NORCURON

(Vecuronium)

(, , ,	Viliuili)
INDICATIONS	To facilitate emergent endotracheal intubation
	Provide skeletal muscle relaxation
	during artificial ventilations
ADMINISTRATION	IV, IO
DOSAGE	,
A DATE OF	0.15mg/kg to a max of 20mg and may
ADULT	repeat dosage at 0.01mg/kg if needed
DEDIA MDIC	0.15mg/kg to a max of 20mg and may
PEDIATRIC	repeat dosage at 0.01mg/kg if needed
	The agent is a non-depolarizing skeletal muscle relaxant
	This agent acts by competing for
THERAPEUTIC EFFECTS	cholinergic receptors, which prevents
	acetylcholine from binding to the
	receptors on the muscle end plate, thus
	blocking depolarization
CONTRAINICATIONS	Hypersensitivity to the drug
	Serious histamine mediated flushing
	Hypotension
SIDE EFFECTS	Bronchoconstriction
SIDE EFFECTS	Transient increase in heart rate
	Respiratory depression and Apnea
	Redness and itching at IV site
	The patient will be completely
	paralyzed and in respiratory arrest for
	20-30 minutes following the
SPECIAL NOTES/ RESTRICTIONS	administration of norcuron-Complete
	airway control management will be
	necessary
	The agent has no effect on
	consciousness, cerebration or pain
	threshold
	Use with Anectine may enhance the
	neuromuscular blocking effect of
	Norcuron

NORMAL SALINE

(0.9% Sodium Chloride)

	N
INDICATIONS	Non-traumatic hypovolemic status, as a
	flushing agent, D.K.A. and as an irrigation
	solution for eyes. First line IV fluid of
	choice for medical conditions
ADMINISTRATION	IV, IO
DOSAGE	
ADULT	T.K.O. to W/O IV or IO
PEDIATRIC	T.K.O. to W/O (20mg/kg) IV or IO
	Expands circulation volume
THERAPEUTIC EFFECTS	Isotonic solution
CONTRAINDICATIONS	High doses in Congestive Heart Failure
	Edema
SIDE EFFECTS	Fluid Overload
SIDE EFFECTS	Electrolyte imbalance
	Hypertension
SPECIAL NOTES/RESTRICTIONS	Monitor vital signs and ECG
	continuously
	Listen to breath sounds for signs of
	pulmonary edema
	Can cause hypertension

ORAL GLUCOSE

INDICATIONS	Low blood sugar
ADMINISTRATION	PO (by mouth)
DOSAGE	
ADULT	15g between cheek and gum, may repeat to desired effect
PEDIATRIC	15g between cheek and gum, may repeat to desired effect
THERAPEUTIC EFFECTS	Increases blood sugar in patients that are alert and able to swallow
CONTRAINDICATIONS	 Unconscious patients Hyperglycemia
SIDE EFFECTS	None
SPECIAL NOTES/RESTRICTIONS	Only administer to patients that are alert and able to swallow

OXYGEN

INDICATIONS	Treat Hypoxemia
	Help decrease work of breathing
	Decreases myocardial work
ADMINISTRATION	Inhalation
DOSAGE	
	• 1-6lpm via Nasal cannula
ADULT	• 8-15lpm via Non-Rebreather Mask
ADULI	• 3-6lpm via Hand Held Nebulizer
	• 15lpm via ETT
DEDIA EDIC	• 1-6lpm via Nasal cannula
	• 8-15lpm via Non-Rebreather Mask
PEDIATRIC	• 3-6lpm via Hand Held Nebulizer
	• 15lpm via ETT
	Supplemental Oxygen increases
THERAPEUTIC EFFECTS	alveolar oxygen tension
IHERAI EUTIC EFFECTS	• Reduces both the magnitude and extent
	of ST changes during an AMI
	DO NOT GIVE SUPPLEMENTAL
CONTRAINDICATIONS	OXYGEN IN A PARAQUAT
	POISONING
SIDE EFFECTS	None for short term emergency use
SPECIAL NOTES/RESTRICTIONS	• Do NOT withhold Oxygen from a
	COPD patient if he/she needs it
	Monitor SPO2 continuously

RACEMIC EPINEPHRINE

(Micronefrin, Vapo Nefrin)

INDICATIONS	Croup
ADMINISTRATION	Inhalation
DOSAGE	
ADULT	DO NOT GIVE TO ADULT PATIENTS
PEDIATRIC	<40KG: 11.25mg Racemic Epinephrine in 2mL 2.25% saline solution via nebulizer
THERAPEUTIC EFFECTS	BronchodilatorVasoconstrictor
CONTRAINDICATIONS	HypersensitivityEpiglottitisSignificant underlying cardiovascular disease
SIDE EFFECTS	 Anxiety Palpitations Headache Tremors Tachycardia Nausea/Vomiting
SPECIAL NOTES/RESTRICTIONS	 Monitor vital signs closely Should be used only once prehospital (contact medical control if another is needed) Excessive use may cause bronchospasms May develop "rebound worsening" within 30-60 minutes Effects last from 90-120 minutes PATIENT MUST BE TRANSPORTED AFTER RECEIVING RACEMIC EPINEPHRINE Heat and Light sensitive should be stored in a dark cool place

ROCURONIUM

(Zemuron)

(uron)
INDICATIONS	 To facilitate emergent endotracheal intubation Provide skeletal muscle relaxation during artificial ventilations
ADMINISTRATION	IV, IO
DOSAGE	
ADULT	1mg/kg. May repeat dosage at 0.1mg/kg if needed after 12 minutes
PEDIATRIC	 Preferred Paralytic for Pediatrics 1mg/kg. May repeat dosage at 0.1mg/kg if needed after 12 minutes
THERAPEUTIC EFFECTS	 The agent is a non-depolarizing skeletal muscle relaxant This agent acts by competing for cholinergic receptors, which prevents acetylcholine from binding to the receptors on the muscle end plate, thus blocking depolarization
CONTRAINICATIONS	Hypersensitivity to the drug
SIDE EFFECTS	 Serious histamine mediated flushing Hypotension Bronchoconstriction Transient increase in heart rate Myopathy Respiratory depression and Apnea Redness and itching at IV site
SPECIAL NOTES/ RESTRICTIONS	 The patient will be completely paralyzed and in respiratory arrest for 20-60 minutes following the administration of Rocuronium-Complete airway control management will be necessary The agent has no effect on consciousness, cerebration or pain threshold Use with Succinylcholine may enhance the neuromuscular blocking effect of Rocuronium

SODIUM BICARBONATE

	Cardiac Arrest, May also be given for					
INDICATIONS	KNOWN Tricyclic Antidepressant O.D.,					
	Hyperkalemia or Acidosis					
ADMINISTRATION	IV, IO					
DOSAGE						
ADULT	 1mEq/kg up to 100mEq. May be repeated at 0.5mEq/kg every 10 minutes to a max of 50 mEq. Paramedics may give in prolonged cardiac arrest (>20 minutes) without online medical direction 					
PEDIATRIC	NOT INDICATED					
THERAPEUTIC EFFECTS	 Buffers strong acids in the blood Antagonizes sodium channel blockade in TCA overdose Prevents resorption of salicylates in 					
CONTRAINDICATIONS	renal tubesHypokalmeiaPulmonary Edema					
SIDE EFFECTS	 Dysrhythmias secondary to potassium effects Metabolic alkalosis Pulmonary edema 					
SPECIAL NOTES/RESTRICTIONS	 MUST CONTACT ON-LINE MEDICAL CONTROL for any usage other than prolonged cardiac arrest (>20 minutes) Not to be used in place of proper ventilation to prevent acidosis In patients less than 2 year of age you must dilute 1:1 with NS 					

SUCCINYLCHOLINE

(Anectine)

(Affectific)							
INDICATIONS	Chemical Sedation						
ADMINISTRATION	IV, IO						
DOSAGE							
ADULT	2mg/kg rapid IV or IO push, to a max of 200mg. Do not repeat without medical control authorization.						
PEDIATRIC	2mg/kg rapid IV or IO push, to a max of 200mg. Do not repeat without medical control authorization						
THERAPEUTIC EFFECTS	• Inhibits transmission of nerve impulses by binding with cholinergic receptors sites, antagonizing action of acetylcholine causes release of histamine						
CONTRAINDICATIONS	 Burns greater than 48 hours old Kidney Dialysis Chronic neuromuscular disease or any chronic paralysis Hypersensitivity 						
SIDE EFFECTS	 Bradycardia Tachycardia Hypertension Dysrhythmias Apnea Respiratory depression 						
SPECIAL NOTES/ RESTRICTIONS	Monitor vital signs closely						

VALIUM

(Diazepam)

INDICATIONS	Major motor seizures, Status Epilepticus
ADMINISTRATION	IV,IO, and Rectal
DOSAGE	
ADULT	Seizures: 5mg IV, if no changes repeat 5 mg every 5 minutes until seizures controlled. Rectally one dose 10mg
PEDIATRIC	 Seizures: 0.1mg/kg, IV to a max of 5mg per dose, may repeat dose every 5 minutes until seizures controlled. Rectal: 0.5mg/kg, rectal to a max of 10 mg per dose
THERAPEUTIC EFFECTS	 Suppresses spread of seizure activity through the motor cortex Skeletal muscle relaxant Reduces anxiety and causes sedation
CONTRAINDICATIONS	Respiratory depressionHypotensionAllergy
SIDE EFFECTS	HypotensionRespiratory depressionUse caution in the elderly patients
SPECIAL NOTES/RESTRICTIONS	 Intramuscularly administration leads to widely variable absorption and should be avoided if possible. For patients with VAD device, only use for continuous seizures, and use the lowest effective dose

VERSED

(Midazolam)

INDICATIONS	Premedication for cardioversion, Seizures , Chemical Sedation and
INDICATIONS	Restraint, and for Induced Hypothermia
ADMINISTRATION	IV, IO, IM, IN (Intranasal)
DOSAGE	
ADULT	 Cardioversion: IV/IO: 5mg IV or IO if BP>90mmHg (2.5mg if patient is >60 years of age) IN: 0.2mg/kg to a max of 5mg, repeated every 5-10 minutes as needed as long as SBP > 90mmHg Chemical Sedation: IV/IO,IM: 1-5mg IV, IO or IM 0.5mg/kg to a max of 5mg per dose IN: 0.2mg/kg to a max of 5mg, repeated every 5-10 minutes as needed as long as SBP > 90mmHg Seizure: IM: 5mg IM, may be repeated at 2.5mg every 10 minutes as needed to control seizure activity. IN: 0.2mg/kg to a max of 5mg, May repeat every 5-10 minutes at 0.1mg/kg to a max of 2.5
PEDIATRIC	 Cardioversion: IV/IO: 0.1mg/kg IV or IO to a max of 2.5mg Chemical Sedation: IV/IO,IM: 0.1mg/kg IV or IO to a max of 10mg IN: 0.2mg/kg to a max of 5mg, repeated every 5-10 minutes as needed as long as SBP > 90mmHg Seizures: IM: 0.2mg/kg IM to a max of 5mg, may repeat 0.1mg/kg every 10 minutes as needed. IN: 0.2mg/kg to a max of 5mg, May repeat every 5-10 minutes at 0.1mg/kg to a max of 2.5
THERAPEUTIC EFFECTS	 C.N.S. depressant The agent causes amnesia by unknown mechanism
CONTRAINDICATIONS	 Hypersensitivity Pre-existing respiratory depression due to drugs or C.N.S. dysfunction Use with caution, if at all, for shock states, head injury patients and comatose patients
SIDE EFFECTS	 Amnesia, Tonic-clonic activity, drowsiness, and lethargy Tachycardia and Hypotension Photophobia, blurred vision and nystagmus Nausea, vomiting, depressed gag reflex Pain and phlebitis at injection site
SPECIAL NOTES/RESTRICTIONS	 This agent is 3-4 times as potent as diazepam on a milligram to milligram basis. Its has a more rapid onset and shorter half-life than Valium Monitor ECG, V/S, and SPO2 continuously For patients with VAD device, only use for continuous seizures, and use the lowest effective dose

XOPENEX

(Levalbuterol)

(20 / 41)	outcioi)						
INDICATIONS	Respiratory distress with patients that have						
	Asthma or COPD						
ADMINISTRATION	Nebulized via supplemental oxygen						
DOSAGE							
ADULT	1.25mg/3ml nebulized, may repeat once if						
ADCLI	no relief						
PEDIATRIC	1.25mg/3ml nebulized, may repeat once if						
TEDIATRIC	no relief						
	Relaxes soft muscles						
THERAPEUTIC EFFECTS	Causes bronchodilation						
	Causes cardiac stimulation						
CONTRAINDICATIONS	Hypersensitivity to drug						
	 Tachydysrhythmias 						
	Severe cardiac disease						
	Dizziness						
	Migraine						
	 Nervousness 						
SIDE EFFECTS	Anxiety						
	Tachycardia						
	Increased cough						
	Use with caution in patients with						
	Cardio Vascular disorders						
SPECIAL NOTES/RESTRICTIONS	• Use caution in patients with Diabetes						
SI ECIAL NOTES/RESTRICTIONS	and seizure disorders						
	For patients with a VAD device, limit						
	to one dose						

ZOFRAN

(Ondansetron)

(Olitarised oil)								
INDICATIONS	Nausea and Vomiting							
ADMINISTRATION	IV, IO							
DOSAGE								
ADULT	• 4mg IVP							
PEDIATRIC	 NOT INDICATED FOR CHILDREN 2 YEARS OF AGE Over 2 years of age: 0.1mg/kg to a max of 4mg 							
THERAPEUTIC EFFECTS	 Helps reverse the effects of nausea May potentate the effects of CNS depressants 							
CONTRAINDICATIONS	Hypersensitivity to drugIntestinal obstructionSeizure disorder							
SIDE EFFECTS	 Dizziness Drowsiness Blurred Vision Hypotension Constipation Diarrhea Fatigue 							
SPECIAL NOTES/RESTRICTIONS	Do NOT administer to children < 2 YOA							

ADULT MEDICATIONS FOR WEIGHTS UP TO 100KG Page 1 of 2

Weight (lbs)	110lbs	132lbs	154lbs	176lbs	198lbs	220lbs
Weight (kg)	50kg	60kg	70kg	80kg	90kg	100kg
	500mg	500mg	500mg	1,000mg	1,000mg	1,000mg
Acetaminophen, 10mg/kg up to 1,000mg (500mg tablets)	(1 tablet)	(1 tablet)	(1 tablet)	(2 tablets)	(2 tablets)	(2 tablets)
Activated Charcoal 1g/kg up to 50g	50g PO					
Adenosine 12mg Rapid IV push, may be repeated once at 12mg rapid IV push	12mg	12mg	12mg	12mg	12mg	12mg
Amiodarone 150mg IV over 10 minutes for VT with a pulse	150mg	150mg	150mg	150mg	150mg	150mg
Amiodarone 300mg rapid IV for VF/VT without a pulse may repeat once at 150mg	300mg	300mg	300mg	300mg	300mg	300mg
Aspirin (ASA) 325mg PO	325mg	325mg	325mg	325mg	325mg	325mg
Atropine for Bradycardia 0.5mg may be repeated to a max of 3mg	0.5mg	0.5mg	0.5mg	0.5mg	0.5mg	0.5mg
Benadryl 50mg IVP	50mg	50mg	50mg	50mg	50mg	50mg
Calcium Gluconate 1 gram SLOW IV Push	1 gram					
Decadron 20mg SIVP	20mg	20mg	20mg	20mg	20mg	20mg
Dextrose 50% (D50W) 25g/50cc may repeat once if blood glucose < 70.	25grams	25grams	25grams	25grams	25grams	25grams
Dopamine 5mcg/kg/min 200mg/250mL	18gtts/min	23gtts/min	26gtts/min	30gtts/min	34gtts/min	38gtts/min
Dopamine 10mcg/kg/min 200mg/250mL	38gtts/min	45gtts/min	53gtts/min	60gtts/min	68gtts/min	75gtts/min
Dopamine 15mcg/kg/min 200mg/250mL	56gtts/min	68gtts/min	79gtts/min	90gtts/min	101gtts/min	113gtts/min
Dopamine 20mcg/kg/min 200mg/250mL	75gtts/min	90gtts/min	105gtts/min	120gtts/min	135gtts/min	150gtts/min
Duo-Neb, 3mg of Albuterol with 0.5mg of Ipratropium in 3cc, Nebulized	3mg/0.5mg in					
(Albuterol/Ipratropium)	3cc	3cc	3cc	3cc	3cc	3cc
Epi 1:1,000 0.3mg IM	0.3mg	0.3mg	0.3mg	0.3mg	0.3mg	0.3mg
Epi 1:10,000 1mg IVP or 2mg ETT	1mg/2mg	1mg/2mg	1mg/2mg	1mg/2mg	1mg/2mg	1mg/2mg
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 2mcg/min	12gtt/min	12gtt/min	12gtt/min	12gtt/min	12gtt/min	12gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 4mcg/min	24gtt/min	24gtt/min	24gtt/min	24gtt/min	24gtt/min	24gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 6mcg/min	36gtt/min	36gtt/min	36gtt/min	36gtt/min	36gtt/min	36gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 8mcg/min	48gtt/min	48gtt/min	48gtt/min	48gtt/min	48gtt/min	48gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 10mcg/min	60gtt/min	60gtt/min	60gtt/min	60gtt/min	60gtt/min	60gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 2mcg/min	30gttmin	30gttmin	30gttmin	30gttmin	30gttmin	30gttmin
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 4mcg/min	60gtt/min	60gtt/min	60gtt/min	60gtt/min	60gtt/min	60gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 6mcg/min	90gtt/min	90gtt/min	90gtt/min	90gtt/min	90gtt/min	90gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 8mcg/min	120gtt/min	120gtt/min	120gtt/min	120gtt/min	120gtt/min	120gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 10mcg/min	150gtt/min	150gtt/min	150gtt/min	150gtt/min	150gtt/min	150gtt/min
Etomidate 0.3mg/ kg IV to a max of 40mg	15mg	18mg	21mg	24mg	27mg	30mg
Fentanyl, IV: 5mcg/kg to a max of 100mcg single does. May repeat once	100mcg	100mcg	100mcg	100mcg	100mcg	100mcg
Fentanyl, Intranasal (MAD): 2mcg/kg to a max of 100mcg per dose	100mcg	100mcg	100mcg	100mcg	100mcg	100mcg
Glucagon 1mg IM	1mg	1mg	1mg	1mg	1mg	1mg
Ibuprofen, 10mg/kg up to 800mg (200mg tablets)	400mg	600mg	600mg	800mg	800mg	800mg
	(2 tablets)	(3 tablets)	(3 tablets)	(4 tablets)	(4 tablets)	(4 tablets)
Ketamine IV Push, 2mg/kg (Administer slowly over 1 minute)	100mg	120mg	140mg	160mg	180mg	200mg
Ketamine IM, 5mg/kg (In Thigh) May require multiple injections as maximum of 5cc per injection may be given	250mg	300mg	350mg	400mg	450mg	500mg
Labetalol 10-20mg IVP (MUST CONTACT MEDICAL CONTROL BEFORE ADMINISTERING)	10-20mg	10-20mg	10-20mg	10-20mg	10-20mg	10-20mg

ADULT MEDICATIONS FOR WEIGHTS UP TO 100KG Page 2 of 2

Weight (lbs)	110lbs	143lbs	165lbs	187lbs	209lbs	220lbs
Weight (kg)	50kg	60kg	70kg	80kg	90kg	100kg
Lidocaine for PVCs 1mg/kg IV may be repeated at 0.5mg/kg to a max of 3mg/kg	50mg/25mg	60mg/30mg	70mg/35mg	80mg/40mg	90mg/45mg	100mg/50mg
Lidocaine for VF/VT given via ETT 2mg/kg may repeat at 2mg/kg to a max of 6mg/kg	100mg	120mg	140mg	160mg	180mg	200mg
Lidocaine Drip 2-4mg/minute	30-60gtt/min	30-60gtt/min	30-60gtt/min	30-60gtt/min	30-60gtt/min	30-60gtt/min
Magnesium Sulfate 4 grams Loading Dose (diluted 1:1 and given SLOWLY over 15 minutes	4 grams					
Magnesium Sulfate Maintenance Drip, 1g/hr. 5 grams in 250cc of NS	50gtt/min	50gtt/min	50gtt/min	50gtt/min	50gtt/min	50gtt/min
Magnesium Sulfate Maintenance Drip, 1g/hr. 5 grams in 500cc of NS	100gtt/min	100gtt/min	100gtt/min	100gtt/min	100gtt/min	100gtt/min
Morphine 2-6mg every 10 minutes (half dosage in pts >60y/o)	, /		2-6mg	2-6mg	2-6mg	2-6mg
Narcan, IV: 2mg may repeat once if no change in mental status	2mg	2mg	2mg	2mg	2mg	2mg
Narcan, Intranasal: 2mg, IN may repeat once if no respiratory improvement	2mg	2mg	2mg	2mg	2mg	2mg
Nitro Spray 0.4mg SL max of 3 if BP>90 systolic	0.4mg	0.4mg	0.4mg	0.4mg	0.4mg	0.4mg
Norcuron 0.15mg/kg to a max of 20mg may repeat at 0.01mg/kg if needed	7.5mg	9mg	10.5mg	12mg	13.5mg	15mg
Oral Glucose 15g between check and gum may repeat to desired effect	15g	15g	15g	15g	15g	15g
Racemic Epi	Not indicated					
Rocuronium (INITIAL DOSE) 1mg/kg	50mg	60mg	70mg	80mg	90mg	100mg
Rocuronium (REPEAT DOSE) repeated X1 in 12 minutes if needed 0.1mg/kg	5mg	6mg	7mg	8mg	9mg	10mg
Sodium Bicarbinate 1meq/kg to a max of 100meq, may repeat at 0.5meq every 10 minutes up to 50meq	50meq	60meq	70meq	80meq	90meq	100meq
Succinylcholine 2mg/kg rapid IVP	100mg	120mg	140mg	160mg	180mg	200mg
Valium 5mg IV for active seizures may repeat as needed at 5mg every 5 minutes	5mg	5mg	5mg	5mg	5mg	5mg
Versed 5mg IVP if BP>90 systolic (2.5mg if pt >60)	5mg	5mg	5mg	5mg	5mg	5mg
Versed, Intranasal for SEIZURE activity (0.2mg/kg to a max of 5mg)	5mg	5mg	5mg	5mg	5mg	5mg
Versed, Intranasal, for SEIZURE activity, REPEAT DOSAGE at 0.1mg/kg to a max of 2.5mg	2.5mg	2.5mg	2.5mg	2.5mg	2.5mg	2.5mg
Versed, Intranasal, for SEDATION: 0.2mg/kg to a max of 5mg. May repeat every 5-10 minutes as needed as long as SBP>90mmHg	5mg	5mg	5mg	5mg	5mg	5mg
Xopenex 1.25mg/3cc NS Nebulized may be repeated at same dose if needed	1.25mg/3cc	1.25mg/3cc	1.25mg/3cc	1.25mg/3cc	1.25mg/3cc	1.25mg/3cc
Zofran 4mg IVP	4mg	4mg	4mg	4mg	4mg	4mg

ADULT MEDICATIONS FOR WEIGHTS OF 110KG AND OVER Page 1 of 2

Weight (lbs)	242lbs	264lbs	286lbs	308lbs	330lbs
Weight (kg)	110kg	120kg	130kg	140kg	150kg
Acetaminophen, 10mg/kg up to 1,000mg (500mg tablets)	1,000mg (2 tablets)	1,000mg (2 tablets)	1,000mg (2 tablets)	1,000mg (2 tablets)	1,000mg (2 tablets)
Activated Charcoal 1g/kg up to 50g	50g PO				
Adenosine 12mg Rapid IV push, may be repeated once at 12mg rapid IV push	12mg	12mg	12mg	12mg	12mg
Amiodarone 150mg IV over 10 minutes for VT with a pulse	150mg	150mg	150mg	150mg	150mg
Amiodarone 300mg rapid IV for VF/VT without a pulse may repeat once at 150mg	300mg	300mg	300mg	300mg	300mg
Aspirin (ASA) 325mg PO	325mg	325mg	325mg	325mg	325mg
Atropine for Bradycardia 0.5mg may be repeated to a max of 3mg	0.5mg	0.5mg	0.5mg	0.5mg	0.5mg
Benadryl 50mg IVP	50mg	50mg	50mg	50mg	50mg
Calcium Gluconate 1 gram SLOW IV Push	1gram	1 gram	1 gram	1 gram	1 gram
Decadron 20mg SIVP	20mg	20mg	20mg	20mg	20mg
Dextrose 50% (D50W) 25g/50cc may repeat once if blood glucose < 70.	25g	25g	25g	25g	25g
Dopamine 5mcg/kg/min 200mg/250mL	40gtts/min	45gtts/min	49gtts/min	53gtts/min	56gtts/min
Dopamine 10mcg/kg/min 200mg/250mL	84gtts/min	90gtts/min	98gtts/min	105gtts/min	113gtts/min
Dopamine 15mcg/kg/min 200mg/250mL	124gtts/min	135gtts/min	146gtts/min	158gtts/min	169gtts/min
Dopamine 20mcg/kg/min 200mg/250mL	165gtts/min	180gtts/min	195gtts/min	210gtts/min	225gtts/min
Duo-Neb, 3mg of Albuterol with 0.5mg of Ipratropium in 3cc, Nebulized (Albuterol/Ipratropium)	3mg/0.5mg in 3cc				
Epi 1:1,000 0.3mg IM	0.3mg	0.3mg	0.3mg	0.3mg	0.3mg
Epi 1:10,000 1mg IVP or 2mg ETT	1mg/2mg	1mg/2mg	1mg/2mg	1mg/2mg	1mg/2mg
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 2mcg/min	12gtt/min	12gtt/min	12gtt/min	12gtt/min	12gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 4mcg/min	24gtt/min	24gtt/min	24gtt/min	24gtt/min	24gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 6mcg/min	36gtt/min	36gtt/min	36gtt/min	36gtt/min	36gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 8mcg/min	48gtt/min	48gtt/min	48gtt/min	48gtt/min	48gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 10mcg/min	60gtt/min	60gtt/min	60gtt/min	60gtt/min	60gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 2mcg/min	30gttmin	30gttmin	30gttmin	30gttmin	30gttmin
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 4mcg/min	60gtt/min	60gtt/min	60gtt/min	60gtt/min	60gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 6mcg/min	90gtt/min	90gtt/min	90gtt/min	90gtt/min	90gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 8mcg/min	120gtt/min	120gtt/min	120gtt/min	120gtt/min	120gtt/min
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 10mcg/min	150gtt/min	150gtt/min	150gtt/min	150gtt/min	150gtt/min
Etomidate 0.3mg/ kg IV to a max of 40mg	33mg	36mg	39mg	40mg	40mg
Fentanyl, IV: 5mcg/kg to a max of 100mcg single does. May repeat once	100mcg	100mcg	100mcg	100mcg	100mcg
Fentanyl, Intranasal (MAD): 2mcg/kg to a max of 100mcg per dose	100mcg	100mcg	100mcg	100mcg	100mcg
Glucagon 1mg IM	1mg	1mg	1mg	1mg	1mg
Ibuprofen, 10mg/kg up to 800mg (200mg tablets)	800mg (4 tablets)	800mg (4 tablets)	800mg (4 tablets)	800mg (4 tablets)	800mg (4 tablets)
Ketamine IV Push, 2mg/kg (Administer slowly over 1 minute)	220mg	240mg	260mg	280mg	300mg
Ketamine IM, 5mg/kg (In Thigh) May require multiple injections as maximum of 5cc per injection may be given	550mg	600mg	650mg	700mg	750mg
Labetalol 10-20mg IVP (MUST CONTACT MEDICAL CONTROL BEFORE ADMINISTERING)	10-20mg	10-20mg	10-20mg	10-20mg	10-20mg

ADULT MEDICATIONS FOR WEIGHTS OF 110KG AND OVER Page 2 of 2

Weight (lbs)	242lbs	264lbs	286lbs	308lbs	330lbs
Weight (kg)	110kg	120kg	130kg	140kg	150kg
Lidocaine for PVCs 1mg/kg IV may be repeated at 0.5mg/kg to a max of 3mg/kg	110mg/55mg	120mg/60mg	130mg/65mg	140mg/70mg	150mg/75mg
Lidocaine for VF/VT given via ETT 2mg/kg may repeat at 2mg/kg to a max of 6mg/kg	220mg	240mg	260mg	280mg	300mg
Lidocaine Drip 2-4mg/minute	30-60gtt/min	30-60gtt/min	30-60gtt/min	30-60gtt/min	30-60gtt/min
Magnesium Sulfate 4 grams Loading Dose (diluted 1:1 and given SLOWLY over 15 minutes	4 grams				
Magnesium Sulfate Maintenance Drip, 1g/hr. 5 grams in 250cc of NS	50gtt/min	50gtt/min	50gtt/min	50gtt/min	50gtt/min
Magnesium Sulfate Maintenance Drip, 1g/hr. 5 grams in 500cc of NS	100gtt/min	100gtt/min	100gtt/min	100gtt/min	100gtt/min
Morphine 2-6mg every 10 minutes (half dosage in pts >60y/o)	2-6mg	2-6mg	2-6mg	2-6mg	2-6mg
Narcan, IV: 2mg may repeat once if no change in mental status	2mg	2mg	2mg	2mg	2mg
Narcan, Intranasal: 2mg, IN may repeat once if no respiratory improvement	2mg	2mg	2mg	2mg	2mg
Nitro Spray 0.4mg SL max of 3 if BP>90 systolic	0.4mg	0.4mg	0.4mg	0.4mg	0.4mg
Norcuron 0.15mg/kg to a max of 20mg may repeat at 0.01mg/kg if needed	16.5mg	18mg	19.5mg	20mg	20mg
Oral Glucose 15g between check and gum may repeat to desired effect	15g	15g	15g	15g	15g
Racemic Epi	Not Indicated				
Rocuronium (INITIAL DOSE) 1mg/kg	110mg	120mg	130mg	140mg	150mg
Rocuronium (REPEAT DOSE) repeated X1 in 12 minutes if needed 0.1mg/kg	11mg	12mg	13mg	14mg	15mg
Sodium Bicarb 1meq/kg to a max of 100meq, may repeat at 0.5meq every 10 minutes up to 50meq	100meq	100meq	100meq	100meq	100meq
Succinylcholine 2mg/kg rapid IVP	200mg	200mg	200mg	200mg	200mg
Valium 5mg IV for active seizures may repeat as needed at 5mg every 5 minutes	5mg	5mg	5mg	5mg	5mg
Versed 5mg IVP if BP >90 systolic (give half dosage if pt >60y/o)	5mg	5mg	5mg	5mg	5mg
Versed, Intranasal for SEIZURE activity (0.2mg/kg to a max of 5mg)	5mg	5mg	5mg	5mg	5mg
Versed, Intranasal, for SEIZURE activity, REPEAT DOSAGE at 0.1mg/kg to a max of 2.5mg	2.5mg	2.5mg	2.5mg	2.5mg	2.5mg
Versed, Intranasal, for SEDATION: 0.2mg/kg to a max of 5mg. May repeat every 5-10 minutes as needed as long as SBP>90mmHg	5mg	5mg	5mg	5mg	5mg
Xopenex 1.25mg/3cc NS Nebulized may be repeated at same dose if needed	1.25mg in 3cc				
Zofran 4mg IVP	4mg	4mg	4mg	4mg	4mg

PEDIATRIC MEDICATIONS Page 1 of 3

Weight (lbs)	7.5lbs	15lbs	22lbs	33lbs	44lbs	55lbs	66lbs	77lbs	88lbs	99lbs
Weight (kg)	3.5kg	7kg	10kg	15kg	20kg	25kg	30kg	35kg	40kg	45kg
Acetaminophen NOT INDICATED FOR PEDIATRICS	Not Indicated									
Activated Charcoal 1g/kg up to 50g	3.5g	7g	10g	15g	20g	25g	30g	35g	40g	45g
Adenosine 0.1mg/kg to a max of 12mg	0.4mg	0.7mg	1mg	1.5mg	2mg	2.5mg	3mg	3.5mg	4mg	4.5mg
Amiodarone 5mg/kg rapid IV for VF/VT without a pulse may	17.5mg	35mg	50mg	75mg	100mg	125mg	150mg	150mg	150mg	150mg
repeat once in 3-5 minutes at 2.5mg/kg to a max of 150mg	17.5mg	JJilig	Joing	75Hig	Toomg	1231lig	130mg	150mg	150mg	130mg
Amiodarone 5mg/kg IV or IO over 20 minutes for SVT and VT with a pulse to a max single dose of 150mg May repeat X 2 PRN	17.5mg	35mg	50mg	75mg	100mg	125mg	150mg	150mg	150mg	150mg
Aspirin (ASA)	Not Indicated									
Atropine for Bradycardia 0.02mg/kg, minimum dose 0.1mg, max single dose 0.5mg may repeat in 3-5 minutes	0.1mg	0.14mg	0.2mg	0.3mg	0.4mg	0.5mg	0.5mg	0.5mg	0.5mg	0.5mg
Atropine for PAI (using Succinylcholine) 0.02mg/kg to a max of 1mg to all pts less than 16 years old	0.1mg	0.14mg	0.2mg	0.3mg	0.4mg	0.5mg	0.6mg	0.7mg	0.8mg	0.9mg
Atropine for Organophosphate Poisoning 0.05mg/kg to a max of 2mg single dose may repeat in 10-15 minutes (minimum dose 0.1mg)	0.2mg	0.4mg	0.5mg	0.8mg	1mg	1.3mg	15.mg	1.8mg	2mg	2mg
Benadryl 1mg/kg to a max of 50mg	3.5mg	7mg	10mg	15mg	20mg	25mg	30mg	35mg	40mg	45mg
Calcium Gluconate NOT INDICATED FOR PEDIATRICS	Not Indicated									
Decadron 0.6mg/kg to a max of 20mg NOT INDICATED for children <2 years of age	2mg	4mg	6mg	9mg	12mg	15mg	18mg	20mg	20mg	20mg
Dextrose 50% (D50W) 25g/50cc	Not Indicated									
Dextrose 25% (D25W): Dilute D50W 25g/50cc 1 to 1 with NS to make D25W. 2cc/kg up to 100cc for all pediatrics ≥ 1yoa	Not Indicated	Not Indicated	Not Indicated	30cc	40cc	50cc	60cc	70cc	80cc	90сс
Dextrose 12.5% (D12.5W): Dilute D50W 25g/50cc 1 to 3 with NS to make D12.5W. 5cc/ for all pediatrics < 1yoa	17.5cc	30cc	50cc	Not Indicated						
Dopamine 5mcg/kg/min 200mg/250mL	1gtt/min	3gtts/min	4gtts/min	6gtts/min	8gtts/min	9gtts/min	11gtts/min	13gtts/min	15gtts/min	17gtts/min
Dopamine 10mcg/kg/min 200mg/250mL	3gtts/min	5gtts/min	8gtts/min	11gtts/min	15gtts/min	19gtts/min	23gtts/min	26gtts/min	30gtts/min	34gtts/min
Duo-Neb, 3mg of Albuterol with 0.5mg of Ipratropium in 3cc, Nebulized (Albuterol/Ipratropium)	3mg/0.5mg in 3cc									
Epi 1:1,000 for cardiac arrest ETT 0.1mg/kg to a max of 1mg per single dose	0.35mg	0.7mg	1mg							
Epi 1:10,000 for cardiac arrest 0.01mg/kg IV or IO to a max of 1mg per single dose	0.03mg	0.07mg	0.1mg	0.15mg	0.2mg	0.25mg	0.3mg	0.35mg	0.4mg	0.45mg
Epi for Bradycardia 0.01mg/kg of 1:10,000 solution to a max of 5cc per single dose	0.03mg	0.07mg	0.1mg	0.15mg	0.2mg	0.25mg	0.3mg	0.35mg	0.4mg	0.45mg
Epi for Bradycardia via ETT 0.1mg/kg of 1:1,000 solution to a max of 0.5cc per single dose may repeat at same dose every 3-5minutes	0.35mg	0.7mg	1mg							
Epi for Allergic Reactions 0.01mg/kg IV or IO of 1:10,000 solution to a max of 0.5mg	0.03mg	0.07mg	0.1mg	0.15mg	0.2mg	0.25mg	0.3mg	0.35mg	0.4mg	0.45mg
Epi IM for Allergic Reactions 1:1,000 solution 0.01mg/kg to a max of 0.15mg IM	0.03mg	0.7mg	0.1mg	0.15mg						

PEDIATRIC MEDICATIONS Page 2 of 3

Weight (lbs)	7.5lbs	15lbs	22lbs	33lbs	44lbs	55lbs	66lbs	77lbs	88lbs	99lbs
Weight (kg)	3.5kg	7kg	10kg	15kg	20kg	25kg	30kg	35kg	40kg	45kg
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 2mcg/min	12gtt/min									
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 4mcg/min	24gtt/min									
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 6mcg/min	36gtt/min									
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 8mcg/min	48gtt/min									
Epinephrine DRIP, 1mg of 1:1,000 mixed in 100cc of NS at 10mcg/min	60gtt/min									
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 2mcg/min	30gtt/min									
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 4mcg/min	60gtt/min									
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 6mcg/min	90gtt/min									
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 8mcg/min	120gtt/min									
Epinephrine DRIP, 1mg of 1:1,000 mixed in 250cc of NS at 10mcg/min	150gtt/min									
Etomidate 0.3mg/ kg IV to a max of 40mg	1mg	2.1mg	3mg	45mg	6mg	7.5mg	9mg	10.5mg	12mg	13.5mg
Fentanyl, IV: 5mcg/kg to a max of 100mcg single dose. May repeat once (NOT indicated for children < 2 years of age)	Not Indicated	Not Indicated	Not Indicated	75mcg	100mcg	100mcg	100mcg	100mcg	100mcg	100mcg
Fentanyl, IN (MAD): 2mcg/kg to a max of 100mcg per dose. Do NOT administer to patients < 2 years of age	Not Indicated	Not Indicated	Not Indicated	30mcg	40mcg	50mcg	60mcg	70mcg	80mcg	90mcg
Glucagon 0.5mg IM NOT INDICATED for children <2 years of age	Not Indicated	Not Indicated	Not Indicated	0.5mg						
Ibuprofen (Liquid Children's Motrin) 10mg/kg up to 800mg	35mg	70mg	100mg	150mg	200mg	250mg	300mg	350mg	400mg	450mg
Ketamine IV Push, 2mg/kg (Administer slowly over 1 minute). Do NOT administer to patients < 2 years of age	Not Indicated	14mg	20mg	30mg	40mg	50mg	60mg	70mg	80mg	90mg
Ketamine IM for children < 5yoa: 3mg/kg in thigh. May require multiple injections as maximum of 5cc per injection may be given. Do NOT administer to an infant < 3 months old	N/A	N/A	N/A	N/A	60mg	75mg	90mg	105mg	120mg	135mg
Ketamine IM for children ≥ 5yoa: 5mg/kg in thigh. May require multiple injections as maximum of 5cc per injection may be given. Do NOT administer to an infant < 3 months old	Not Indicated	35mg	50mg	75mg	100mg	125mg	150mg	175mg	200mg	225mg
Labetalol	Not Indicated									
Lidocaine for Head Injury 0.5mg/kg	2mg	4mg	5mg	8mg	10mg	13mg	15mg	18mg	20mg	23mg
Lidocaine for VT and VF with or without a pulse 2mg/kg ETT to a max of 6mg/kg	7mg	14mg	20mg	30mg	40mg	50mg	60mg	70mg	80mg	90mg
Lidocaine Drip 30mcg/kg/min for Post Resuscitation	2gtt/min	3gtt/min	5gtt/min	7gtt/min	9gtt/min	11gtt/min	14gtt/min	16gtt/min	18gtt/min	20gtt/min

PEDIATRIC MEDICATIONS Page 3 of 3

Weight (lbs)	7.5lbs	15lbs	22lbs	33lbs	44lbs	55lbs	66lbs	77lbs	88lbs	99lbs
Weight (kg)	3.5kg	7kg	10kg	15kg	20kg	25kg	30kg	35kg	40kg	45kg
Magnesium Sulfate Loading Dose NOT INDICATED FOR	Not									
PEDIATRICS	Indicated									
Magnesium Sulfate Maintenance Dose: NOT INDICATED	Not									
FOR PEDIATRICS	Indicated									
Morphine 0.1mg/kg to a max of 3mg single dose	0.4mg	0.7mg	1mg	1.5mg	2mg	2.5mg	3mg	3mg	3mg	3mg
Narcan, IV: 0.1mg/kg to a max of 2mg single dose	0.35mg	0.7mg	1mg	1.5mg	2mg	2mg	2mg	2mg	2mg	2mg
Narcan, Intranasal: 0.1mg/kg to a max of 2mg single dose may repeat once if no respiratory improvement	0.35mg	0.7mg	1mg	1.5mg	2mg	2mg	2mg	2mg	2mg	2mg
Nitro Spray	Not Indicated									
Norcuron 0.15mg/kg to a max of 20mg may repeat at 0.01mg/kg if needed	0.5mg	1mg	1.5mg	2.25mg	3mg	3.75mg	4.5mg	5.25mg	6mg	6.75mg
Oral Glucose 15g between check and gum may repeat to desired effect	15g									
Racemic Epi 11.25mg in 2 cc saline solution nebulized. DO NOT give to pts >40kg	11.25mg									
Rocuronium for PAI Initial Dose 1mg/kg	3.5mg	7mg	10mg	15mg	20mg	25mg	30mg	35mg	40mg	45mg
Rocuronium for PAI Repeat Dose 0.1mg/kg if needed in 12 min.	0.35mg	0.7mg	1mg	1.5mg	2mg	2.5mg	3mg	3.5mg	4mg	4.5mg
Sodium Bicarb	Not Indicated									
Succinylcholine 2mg/kg rapid IVP	7mg	14mg	20mg	30mg	40mg	50mg	60mg	70mg	80mg	90mg
Valium 0.1mg/kg IV to a max of 5mg per dose may repeat every 5 minutes	0.4mg	0.7mg	1mg	1.5mg	2mg	2.5mg	3mg	3.5mg	4mg	4.5mg
Valium 0.5mg/kg Rectal to a max of 10mg per dose	1.8mg	3.5mg	5mg	7.5mg	10mg	10mg	10mg	10mg	10mg	10mg
Versed, IV, for Cardioversion 0.1mg/kg to a max of 2.5mg	0.4mg	0.7mg	1mg	1.5mg	2mg	2.5mg	2.5mg	2.5mg	2.5mg	2.5mg
Versed, IV, for Chemical Sedation 0.1mg/kg to a max of 10mg	0.4mg	0.7mg	1mg	1.5mg	2mg	2.5mg	3mg	3.5mg	4mg	4.5mg
Versed, IV, for Seizures 0.2mg/kg to a max of 5mg single dose, may repeat at 0.1mg/kg every 10 minutes as needed.	0.7mg	1.4mg	2mg	3mg	4mg	5mg	5mg	5mg	5mg	5mg
Versed, Intranasal for SEIZURE activity (0.2mg/kg to a max of 5mg)	0.7mg	1.4mg	2mg	3mg	4mg	5mg	5mg	5mg	5mg	5mg
Versed, Intranasal, for SEIZURE activity, REPEAT DOSAGE at 0.1mg/kg to a max of 2.5mg	0.35mg	0.7mg	1mg	1.5mg	2mg	2.5mg	2.5mg	2.5mg	2.5mg	2.5mg
Versed, Intranasal, for SEDATION: 0.2mg/kg to a max of 5mg. May repeat every 5-10 minutes as needed as long as SBP>90mmHg	0.7mg	1.4mg	2mg	3mg	4mg	5mg	5mg	5mg	5mg	5mg
Xopenex 1.25mg/3cc NS Nebulized may be repeated at same dose if needed	1.25mg									

DRIP RATE FORMULAS

• Adult Lidocaine (mg/min)

Formula:

Required dose * Volume in bag * Drip set

Amount of drug in bag = Flow rate in gtts/min

Example:

 $\frac{2 \text{ mg/min} * 250 \text{ mL} * 60 \text{ gtts/min}}{1000 \text{ mg}} = 30 \text{gtts/min}$

<u>Pediatric Lidocaine</u> (mcg/kg/min)

Formula:

Required dose * Volume in bag * Drip set * Patient weight in kg

Amount of drug in bag in mcg (mg * 1000 = mcg) = Flow rate in gtts/min

Pediatric Lidocaine example: (using a 10kg patient)

 $\frac{30mcg/min * 250mL * 60 gtts/min * 10kg}{1,000,000mcg} = 5gtts/min$

• **Dopamine** (mcg/kg/min)

Formula:

Required dose * Volume in bag * Drip set * Patient weight in kg

Amount of drug in bag in mcg (mg * 1000 = mcg) = Flow rate in gtts/min

Example: (using a 100kg patient)
5mcg/min * 250mL * 60 gtts/min * 100kg

200,000mcg = 38gtts/min

• Adult Amiodarone (volume/time)

(Mix 150mg of Amiodarone into 100mL of D5W)

Formula:

Volume to be infused * Drip set

Time in Minutes = Flow rate in gtts/min

Example:

100mL * 10gtts/min 10 min = 100 gtts/min Magnesium Sulfate (5 grams in 250cc of NS) (grm/hr)

(Mix 5 grams of Magnesium Sulfate in 250cc of NS)

Formula:

Required dose * Volume in bag * Drip set

Amount of drug in bag = Flow rate in gtts/min

Example:

1gm/hr (.0167gm/min) * 250 mL * 60 gtts/min

5gm = 50gtts/min

Magnesium Sulfate (5 grams in 500cc of NS) (grm/hr)

(Mix 5 grams of Magnesium Sulfate in 500cc of NS)

Formula:

Required dose * Volume in bag * Drip set

Amount of drug in bag = Flow rate in gtts/min

Example:

1gm/hr (.0167 gm/min) * 500 mL * 60 gtts/min

5gm = 100gtts/min

Epinephrine Drip (1mg in 100cc of NS) (2mcg/min)

(Mix 1mg of Epinephrine 1:1,000 in 100cc of NS)

Formula:

Required dose * Volume in bag * Drip set

Amount of drug in bag = Flow rate in gtts/min

Example:

0.002mg (2mcg/min) * 100mL * 60 gtts/min

1mg

• Epinephrine Drip (1mg in 250cc of NS) (2mcg/min)

(Mix 1mg of Epinephrine 1:1,000 in 100cc of NS)

Formula:

Required dose * Volume in bag * Drip set

Amount of drug in bag = Flow rate in gtts/min

Example:

0.002mg (2mcg/min) * 250mL * 60 gtts/min

1mg = 30gtts/min

= 12gtts/min