

# Drug List

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Medication	Adult Dosing	Pediatric Dosing
<p><b><u>Acetaminophen</u></b> <b>(Tylenol)</b></p> <p><b>NCCEP Protocol:</b>            * 7-Pain Control-Adult            * 46-Pain Control-Pediatric            * 72-Fever</p> <p><b><u>Indications/Contraindications:</u></b></p> <ul style="list-style-type: none"> <li>Indicated for pain and fever control</li> <li>Avoid in patients with severe liver disease</li> </ul>	<ul style="list-style-type: none"> <li>1000 mg po</li> </ul>	<ul style="list-style-type: none"> <li><b>See Color Coded List</b></li> <li>15 mg/kg po</li> </ul>
<p><b><u>Adenosine</u></b> <b>(Adenocard)</b></p> <p><b>NCCEP Protocol:</b>            * 16-Adult Tachycardia Narrow Complex            * 17-Adult Tachycardia Wide Complex            * 52-Pediatric Tachycardia</p> <p><b><u>Indications/Contraindications:</u></b></p> <ul style="list-style-type: none"> <li>Specifically for treatment or diagnosis of Supraventricular Tachycardia</li> </ul>	<ul style="list-style-type: none"> <li>6 mg IV push over 1-3 seconds. If no effect after 1-2 minutes,</li> <li>Repeat with 12 mg IV push over 1-3 seconds.</li> <li>Repeat once if necessary</li> <li>(use stopcock and 20 ml Normal Saline flush with each dose)</li> </ul>	<ul style="list-style-type: none"> <li>0.1 mg/kg IV (Max 6 mg) push over 1-3 seconds. If no effect after 1-2 minutes,</li> <li>Repeat with 0.2 mg/kg IV (Max 12 mg) push over 1-3 seconds.</li> <li>Repeat once if necessary</li> <li>(use stopcock and Normal Saline flush with each dose)</li> </ul>
<p><b><u>Albuterol</u></b> <b>Beta-Agonist</b></p> <p><b>NCCEP Protocol:</b>            * 24-Allergic Reaction Anaphylaxis            * 26-COPD Asthma            * 56-Pediatric Allergic Reaction            * 61-Pediatric Respiratory Distress</p> <p><b><u>Indications/Contraindications:</u></b></p> <ul style="list-style-type: none"> <li>Beta-Agonist nebulized treatment for use in respiratory distress with bronchospasm</li> </ul>	<ul style="list-style-type: none"> <li>2.5-5.0 mg (3cc) in nebulizer continuously x 3 doses. See local protocol for relative contraindications and/or indications to contact medical control for use of this drug.</li> </ul>	<ul style="list-style-type: none"> <li><b>See Color Coded List</b></li> <li>2.5mg (3cc) in nebulizer continuously x 3 doses. See local protocol for relative contraindications and/or indications to contact medical control for use of this drug.</li> </ul>

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<p><b><u>Amiodarone</u></b> <b>(Cordarone)</b></p> <p><b>NCCEP Protocol:</b></p> <ul style="list-style-type: none"> <li>* 17-Adult Tachycardia Wide Complex</li> <li>* 18-VF Pulseless VT</li> <li>* 52-Pediatric Tachycardia</li> <li>* 53-Pediatric VF Pulseless VT</li> <li>* 54-Pediatric Post Resuscitation</li> </ul> <p><b>Indications/Contraindications:</b></p> <ul style="list-style-type: none"> <li>• Antiarrhythmic used mainly in wide complex tachycardia and ventricular fibrillation.</li> <li>• Avoid in patients with heart block or profound bradycardia.</li> <li>• Contraindicated in patients with iodine hypersensitivity</li> </ul>	<p><u>V-fib / pulseless V-tach</u></p> <ul style="list-style-type: none"> <li>• 300 mg IV push</li> <li>• Repeat dose of 150 mg IV push for recurrent episodes</li> </ul> <p><u>V-tach with a pulse</u></p> <ul style="list-style-type: none"> <li>• 150 mg in 100cc D5W over 10 min</li> </ul>	<p><u>V-fib / pulseless V-tach</u></p> <ul style="list-style-type: none"> <li>• 5 mg/kg IV push over 5 minutes</li> <li>• May repeat up to 15mg/kg IV</li> </ul> <p><u>V-tach with a pulse</u></p> <ul style="list-style-type: none"> <li>• 5 mg/kg IV push over 5 minutes</li> <li>• May repeat up to 15mg/kg IV</li> <li>• Avoid in Length Tape Color <b>Pink</b></li> </ul>
<p><b><u>Aspirin</u></b></p> <p><b>NCCEP Protocol:</b></p> <ul style="list-style-type: none"> <li>* 7-Pain Control Adult</li> <li>* 14-Chest Pain and STEMI</li> </ul> <p><b>Indications/Contraindications:</b></p> <ul style="list-style-type: none"> <li>• An antiplatelet drug for use in cardiac chest pain</li> </ul>	<ul style="list-style-type: none"> <li>• 81 mg chewable (baby) Aspirin Give 4 tablets to equal usual adult dose.</li> </ul>	
<p><b><u>Atropine</u></b></p> <p><b>NCCEP Protocol:</b></p> <ul style="list-style-type: none"> <li>* 12-Bradycardia Pulse Present</li> <li>* 49-Pediatric Bradycardia</li> <li>* 84-WMD Nerve Agent</li> </ul> <p><b>Indications/Contraindications:</b></p> <ul style="list-style-type: none"> <li>• Anticholinergic drug used in bradycardias.</li> <li>• (For Endotracheal Tube use of this drug, double the dose)</li> <li>• In Organophosphate toxicity, large doses may be required (&gt;10 mg)</li> </ul>	<p><u>Bradycardia</u></p> <ul style="list-style-type: none"> <li>• 0.5 - 1.0 mg IV every 3 – 5 minutes up to 3 mg. (If endotracheal -- max 6 mg)</li> </ul> <p><u>Organophosphate</u></p> <ul style="list-style-type: none"> <li>• 1-2 mg IM or IV otherwise as per medical control</li> </ul>	<ul style="list-style-type: none"> <li>• <b>See Color Coded List</b></li> </ul> <p><u>Bradycardia</u></p> <ul style="list-style-type: none"> <li>• 0.02 mg/kg IV, IO (Max 0.5 mg per dose, Max total dose 1mg IV)</li> <li>• (Min 0.1 mg) per dose</li> <li>• May repeat in 3 - 5 minutes</li> </ul> <p><u>Organophosphate</u></p> <ul style="list-style-type: none"> <li>• 0.05 mg/kg IV or IO otherwise as per medical control</li> </ul>

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<p><b><u>Atropine and Pralidoxime Auto-Injector Nerve Agent Kit</u></b></p> <p>NCCEP Protocol: * 84-WMD Nerve Agent</p> <p><u>Indications/Contraindications:</u></p> <ul style="list-style-type: none"> <li>• Antidote for Nerve Agents or Organophosphate Overdose</li> </ul>	<ul style="list-style-type: none"> <li>• One auto-injector then per medical control</li> </ul>	<ul style="list-style-type: none"> <li>• <b>See Color Coded List</b></li> <li>• One pediatric auto-injector then as per medical control</li> </ul>
<p><b><u>Calcium Chloride</u></b></p> <p>NCCEP Protocol: * 28-Dialysis Renal Failure * 31-Overdose Toxic Ingestion * 60-Ped OD Toxic Ingestion * 83-Marine Envenomations * 88-Crush Syndrome</p> <p><u>Indications/Contraindications:</u></p> <ul style="list-style-type: none"> <li>• Indicated for severe hyperkalemia</li> </ul>	<ul style="list-style-type: none"> <li>• 1 gm IV / IO</li> <li>• Avoid use if pt is taking digoxin</li> </ul>	<ul style="list-style-type: none"> <li>• <b>See Color Coded List</b></li> <li>• 20 mg/kg IV or IO slowly</li> </ul>
<p><b><u>Dextrose 5%, 10%, 25%, &amp; 50% Glucose solutions</u></b></p> <p>NCCEP Protocol: * Multiple</p> <p><u>Indications/Contraindications:</u></p> <ul style="list-style-type: none"> <li>• Use in altered mental status or hypoglycemic states</li> </ul>	<p>See local protocol for concentration and dosing</p>	<ul style="list-style-type: none"> <li>• <b>See Color Coded List</b></li> </ul> <p>See local protocol for concentration and dosing</p>

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<p><b><u>Diazepam</u></b> <b>(Valium)</b> <b>Benzodiazepene</b></p> <p><b>NCCEP Protocol:</b>  <ul style="list-style-type: none"> <li>* 32-Seizure</li> <li>* 39-Obstetrical Emergency</li> <li>* 62-Pediatric Seizure</li> </ul> </p> <p><b><u>Indications/Contraindications:</u></b></p> <ul style="list-style-type: none"> <li>• Seizure control</li> <li>• Mild Sedation</li> </ul>	<ul style="list-style-type: none"> <li>• 4 mg IV / IO initially then 2 mg IV / IO every 3 - 5 minutes up to 10 mg max unless med control dictates</li> <li>• Do not administer IM. The drug is not absorbed.</li> <li>• 10 mg Rectally if unable to obtain an IV.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>See Color Coded List</b></li> <li>• 0.1 - 0.3 mg/kg IV/IO</li> <li>• (Max dose 4 mg IV, IO)</li> <li>• 0.5 mg/kg rectally (Dia-Stat)</li> <li>• (Max dose 10 mg rectally)</li> <li>• Repeat as directed by local protocol</li> </ul>
<p><b><u>Diltiazem</u></b> <b>(Cardizem)</b> <b>Calcium Channel Blocker</b></p> <p><b>NCCEP Protocol:</b>  <ul style="list-style-type: none"> <li>* 16-Adult Tachycardia Narrow Complex</li> </ul> </p> <p><b><u>Indications/Contraindications:</u></b></p> <ul style="list-style-type: none"> <li>• Calcium channel blocker used to treat narrow complex SVT</li> <li>• Contraindicated in patients with heart block, ventricular tachycardia, and/or acute MI</li> </ul>	<p>See local protocol for dosing</p>	
<p><b><u>Diphenhydramine</u></b> <b>(Benadryl)</b></p> <p><b>NCCEP Protocol:</b>  <ul style="list-style-type: none"> <li>* 24-Allergic Reaction Anaphylaxis</li> <li>* 56-Pediatric Allergic Reaction</li> </ul> </p> <p><b><u>Indications/Contraindications:</u></b></p> <ul style="list-style-type: none"> <li>• Antihistamine for control of allergic reactions</li> </ul>	<ul style="list-style-type: none"> <li>• 25-50 mg IV/IO/IM/PO</li> </ul>	<ul style="list-style-type: none"> <li>• <b>See Color Coded List</b></li> <li>• 1 mg/kg IV/IO/IM/PO</li> <li>• Do not give in infants &lt; 3 mo</li> </ul>

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<p><b><u>Dopamine</u></b></p> <p><b>NCCEP Protocol:</b> * Multiple</p> <p><b>Indications/Contraindications:</b></p> <ul style="list-style-type: none"> <li>A vasopressor used in shock or hypotensive states</li> </ul>	<ul style="list-style-type: none"> <li>2 - 20 micrograms/kg/min IV or IO, titrate to BP systolic of 90 mmHg</li> </ul>	<ul style="list-style-type: none"> <li><b>See Color Coded List</b></li> <li>2 - 20 micrograms/kg/min IV or IO, titrate to BP systolic appropriate for age</li> </ul>
<p><b><u>Epinephrine 1:1,000</u></b></p> <p><b>NCCEP Protocol:</b> * Multiple</p> <p><b>Indications/Contraindications:</b></p> <ul style="list-style-type: none"> <li>Vasopressor used in allergic reactions or anaphylaxis</li> </ul>	<ul style="list-style-type: none"> <li>0.3 mg IM</li> <li>See local protocol for relative contraindications and/or indications to contact medical control for use of this drug.</li> </ul> <p><b>Nebulized Epinephrine</b></p> <ul style="list-style-type: none"> <li>1 mg mixed with 2 ml of Normal Saline</li> </ul>	<ul style="list-style-type: none"> <li><b>See Color Coded List</b></li> <li>0.01 mg/kg IM</li> <li>(Max dose 0.3 mg)</li> </ul> <p><b>Nebulized Epinephrine</b></p> <ul style="list-style-type: none"> <li>1 mg mixed with 2 ml of Normal Saline</li> </ul>
<p><b><u>Epinephrine 1:10,000</u></b></p> <p><b>NCCEP Protocol:</b> * Multiple</p> <p><b>Indications/Contraindications:</b></p> <ul style="list-style-type: none"> <li>Vasopressor used in cardiac arrest.</li> </ul>	<ul style="list-style-type: none"> <li>1.0 mg IV / IO</li> <li>Repeat every 3 - 5 minutes until observe response</li> <li>(May be given by Endotracheal tube in double the IV dose)</li> </ul>	<ul style="list-style-type: none"> <li><b>See Color Coded List</b></li> <li>0.01 mg/kg IV or IO</li> <li>(Max dose 1 mg)</li> <li>Repeat every 3 - 5 minutes per protocol</li> <li>(May be given by Endotracheal tube in double the IV dose)</li> </ul>
<p><b><u>Etomidate (Amidate)</u></b></p> <p><b>NCCEP Protocol:</b> * 4-Airway Rapid Sequence Intubation * 20-Induced Hypothermia</p> <p><b>Indications/Contraindications:</b></p> <ul style="list-style-type: none"> <li>Sedative used in Drug Assisted Intubation</li> </ul>	<ul style="list-style-type: none"> <li>0.3 mg/kg IV / IO</li> <li>Usual adult dose = 20 mg</li> </ul>	

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<p><b><u>Fentanyl</u></b> <b>(Sublimaze)</b> <b>Narcotic Analgesic</b></p> <p><b>NCCEP Protocol:</b> * Multiple</p> <p><b><u>Indications/Contraindications:</u></b></p> <ul style="list-style-type: none"> <li>Narcotic pain relief</li> <li>Possible beneficial effect in pulmonary edema</li> <li>Avoid use if BP &lt; 110</li> </ul>	<ul style="list-style-type: none"> <li>50-75 mcg IM/IV/IO bolus then 25 mcg IM/IV/IO every 20 minutes until a maximum of 200 mcg or clinical improvement</li> </ul>	<ul style="list-style-type: none"> <li><b>See Color Coded List</b></li> <li>1 mcg/kg IM/IN/IV/IO May repeat 0.5 mcg/kg every 5 minutes Maximum dose 2 mcg/kg</li> </ul>
<p><b><u>Furosemide</u></b> <b>(Lasix)</b></p> <p><b>NCCEP Protocol:</b> * 15-CHF Pulmonary Edema * 50-Pediatric CHF Pulmonary Edema</p> <p><b><u>Indications/Contraindications:</u></b></p> <ul style="list-style-type: none"> <li>Diuretic for pulmonary edema or CHF but no proven benefit in prehospital care</li> </ul>	<ul style="list-style-type: none"> <li>See local protocol for dosing guidelines</li> </ul>	<ul style="list-style-type: none"> <li>See local protocol for dosing guidelines</li> </ul>
<p><b><u>Glucagon</u></b></p> <p><b>NCCEP Protocol:</b> * 27-Diabetic; Adult * 31-Overdose Toxic Ingestion * 58-Pediatric Diabetic * 60-Ped OD Toxic Ingestion</p> <p><b><u>Indications/Contraindications:</u></b></p> <ul style="list-style-type: none"> <li>Drug acting to release glucose into blood stream by glycogen breakdown</li> <li>Use in patients with no IV access</li> </ul>	<ul style="list-style-type: none"> <li>1 - 2 mg IM</li> <li>Repeat blood glucose measurement in 15 minutes, if ≤ 69 mg / dl repeat dose.</li> </ul>	<ul style="list-style-type: none"> <li><b>See Color Coded List</b></li> <li>0.1 mg/kg IM, Maximum 1 mg</li> <li>Repeat blood glucose measurement in 15 minutes, if ≤ 69 mg / dl repeat dose.</li> </ul>

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<p><b><u>Glucose Oral</u></b> <b>Glucose Solutions</b></p> <p><b>NCCEP Protocol:</b> * 27-Diabetic; Adult * 58-Pediatric Diabetic</p> <p><b><u>Indications/Contraindications:</u></b></p> <ul style="list-style-type: none"> <li>Use in conscious hypoglycemic states</li> </ul>	<ul style="list-style-type: none"> <li>One tube or packet</li> <li>Repeat based on blood glucose results, per protocol</li> </ul>	<ul style="list-style-type: none"> <li><b>See Color Coded List</b></li> <li>One Tube or packet</li> <li>Repeat based on blood glucose results, per protocol</li> <li>Consider patient's ability to swallow and follow directions based on age</li> </ul>
<p><b><u>Haloperidol</u></b> <b>(Haldol)</b> <b>Phenothiazine</b> <b>Preparation</b></p> <p><b>NCCEP Protocol:</b> * 6-Behavioral</p> <p><b><u>Indications/Contraindications:</u></b></p> <ul style="list-style-type: none"> <li>Medication to assist with sedation of agitated patients</li> </ul>	<ul style="list-style-type: none"> <li>2.5-10 mg IV/IM, per local protocol</li> <li>See local protocol for relative contraindications and/or indications to contact medical control for use of this drug.</li> </ul>	
<p><b><u>Hydromorphone</u></b> <b>(Dilaudid)</b></p> <p><b>NCCEP Protocol:</b> * Multiple</p> <p><b><u>Indications/Contraindications:</u></b></p> <ul style="list-style-type: none"> <li>Narcotic pain relief</li> <li>Avoid use if BP &lt; 110</li> </ul>	<ul style="list-style-type: none"> <li>1 – 2 mg IV / IO / IM Repeat as necessary every 20-30 min until clinical improvement</li> <li>Maximum dose - 5 mg</li> </ul>	

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<p><b><u>Ibuprofen</u></b> <b>(Motrin)</b> <b>Non-steroidal Anti-inflammatory Drug</b></p> <p><b>NCCEP Protocol:</b>  <ul style="list-style-type: none"> <li>* 7-Pain Control Adult</li> <li>* 46-Pediatric Pain Control</li> <li>* 72-Fever</li> </ul> </p> <p><b><u>Indications/Contraindications:</u></b></p> <ul style="list-style-type: none"> <li>• Avoid NSAIDS in women who are pregnant or could be pregnant.</li> <li>• A nonsteroidal anti-inflammatory drug (NSAID) used for pain and fever control.</li> <li>• Not to be used in patients with history of GI Bleeding (ulcers) or renal insufficiency.</li> <li>• Not to be used in patients with allergies to aspirin or other NSAID drugs</li> <li>• Avoid in patients currently taking anticoagulants, such as coumadin.</li> </ul>	<ul style="list-style-type: none"> <li>• 400-800 mg po</li> </ul>	<ul style="list-style-type: none"> <li>• <b>See Color Coded List</b></li> <li>• 10 mg/kg po</li> <li>• Do not use in patients 6 months of age or younger</li> </ul>
<p><b><u>Ipratropium</u></b> <b>(Atrovent)</b></p> <p><b>NCCEP Protocol:</b>  <ul style="list-style-type: none"> <li>* 24-Allergic Reaction Anaphylaxis</li> <li>* 26-COPD Asthma</li> <li>* 56-Pediatric Allergic Reaction</li> <li>* 61-Pediatric Respiratory Distress</li> </ul> </p> <p><b><u>Indications/Contraindications:</u></b></p> <ul style="list-style-type: none"> <li>• Medication used in addition to albuterol to assist in patients with asthma and COPD</li> </ul>	<ul style="list-style-type: none"> <li>• 2 puffs per dose of MDI (18 mcg/spray) --- OR ---</li> <li>• 0.5 mg per nebulizer treatment</li> </ul>	<ul style="list-style-type: none"> <li>• Use in Pediatrics as a combined Therapy with a Beta Agonist such as Albuterol</li> <li>• 2 puffs per dose of MDI (18 mcg/spray) --- OR ---</li> <li>• 0.5 mg per nebulizer treatment</li> </ul>



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<p><b><u>Ketamine</u></b></p> <p><b>NCCEP Protocol:</b>            * 4-Airway Rapid Sequence Intubation</p> <p><b>• <u>Indications/Contraindications:</u></b>            Dissociative anesthetic used in Drug Assisted Intubation</p> <p>• Avoid use in CVA and severe hypertensive patients</p>	<ul style="list-style-type: none"> <li>• 1.5 – 2 mg/kg IV / IO</li> </ul>	
<p><b><u>Ketorolac</u></b>  <b>(Toradol)</b>  <b>Non-steroidal Anti-inflammatory Drug</b></p> <p><b>NCCEP Protocol:</b>            * 7-Pain Control Adult            * 46-Pediatric Pain Control</p> <p><b><u>Indications/Contraindications:</u></b></p> <ul style="list-style-type: none"> <li>• Avoid NSAIDS in women who are pregnant or could be pregnant</li> <li>• A nonsteroidal anti-inflammatory drug used for pain control.</li> <li>• Not to be used in patients with history of GI bleeding (ulcers), renal insufficiency, or in patients who may need immediate surgical intervention (i.e. obvious fractures).</li> <li>• Not to be used in patients with allergies to aspirin or other NSAID drugs such as motrin</li> <li>• Avoid in patients currently taking anticoagulants such as coumadin</li> </ul>	<ul style="list-style-type: none"> <li>• 30 mg IV / IO or 60 mg IM</li> </ul>	<ul style="list-style-type: none"> <li>• 0.5 mg/kg IV / IO / IM                Maximum 30 mg</li> </ul>

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<p><b><u>Lactated Ringer's Solution</u></b></p> <p><b>NCCEP Protocol:</b>            * 40-Adult Thermal Burn            * 67-Pediatric Thermal Burn</p> <p><b><u>Indications/Contraindications:</u></b></p> <ul style="list-style-type: none"> <li>• Crystalloid solution preferred for fluid resuscitation and preferred in burn care.</li> </ul>	<ul style="list-style-type: none"> <li>• Dosing per protocol, similar to Normal Saline</li> </ul>	<ul style="list-style-type: none"> <li>• Dosing per protocol, similar to Normal Saline</li> </ul>
<p><b><u>Lidocaine</u></b></p> <p><b>NCCEP Protocol:</b>            * 4-Airway Rapid Sequence Intubation            * 18-VF Pulseless VT            * 53-Pediatric VF Pulseless VT</p> <p><b><u>Indications/Contraindications:</u></b></p> <ul style="list-style-type: none"> <li>• Antiarrhythmic used for control of ventricular dysrhythmias</li> <li>• Anesthetic used during intubation to prevent elevated intracranial pressures during intubation</li> </ul>	<ul style="list-style-type: none"> <li>• 1.5 mg/kg IV / IO bolus (ETT dose = 2 x IV dose) up to 3mg/kg max bolus dose</li> <li>• See local protocol for specific dosing algorithm</li> </ul>	<ul style="list-style-type: none"> <li>• <b>See Color Coded List</b></li> <li>• 1 mg/kg IV / IO Maximum 100 mg Repeat 0.5 mg/kg Maximum 3 mg/kg total</li> </ul>
<p><b><u>Magnesium Sulfate</u></b></p> <p><b>NCCEP Protocol:</b>            * Multiple</p> <p><b><u>Indications/Contraindications:</u></b></p> <ul style="list-style-type: none"> <li>• Elemental electrolyte used to treat eclampsia during the third trimester of pregnancy.</li> <li>• A smooth muscle relaxor used in refractory respiratory distress resistant to beta-agonists</li> </ul>	<p><b>Respiratory Distress:</b></p> <ul style="list-style-type: none"> <li>• 2 g IV / IO over 10 minutes</li> <li>• Repeat dosing per local protocol</li> </ul> <p><b>Obstetrical Seizure:</b></p> <ul style="list-style-type: none"> <li>• 2 g IV / IO over 2-3 minutes</li> <li>• Dose may be repeated once, or as per local protocol</li> </ul>	<ul style="list-style-type: none"> <li>• 40 mg/kg IV / IO over 20 minutes (Max 2 gms)</li> <li>• Repeat dosing per local protocol</li> </ul>

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Medication	Adult Dosing	Pediatric Dosing
<p><b><u>Methylprednisolone</u></b> <b>(Solu-medrol)</b> <b>Steroid Preparation</b></p> <p><b>NCCEP Protocol:</b>  <ul style="list-style-type: none"> <li>* 24-Allergic Reaction Anaphylaxis</li> <li>* 26-COPD Asthma</li> <li>* 56-Pediatric Allergic Reaction</li> <li>* 61-Pediatric Respiratory Distress</li> </ul> </p> <p><b>Indications/Contraindications:</b></p> <ul style="list-style-type: none"> <li>• Steroid used in respiratory distress to reverse inflammatory and allergic reactions</li> </ul>	<ul style="list-style-type: none"> <li>• 125 mg IV / IO</li> <li>• IM dosing only if indicated by local protocol</li> </ul>	<ul style="list-style-type: none"> <li>• <b>See Color Coded List</b></li> <li>• 2 mg/kg IV / IO (Max 125 mg)</li> <li>• IM dosing only if indicated by local protocol</li> </ul>
<p><b><u>Midazolam</u></b> <b>(Versed)</b> <b>Benzodiazepine</b></p> <p><b>NCCEP Protocol:</b>  <ul style="list-style-type: none"> <li>* Multiple</li> </ul> </p> <p><b>Indications/Contraindications:</b></p> <ul style="list-style-type: none"> <li>• Benzodiazepine used to control seizures and sedation</li> <li>• Quick acting Benzodiazepine</li> <li>• Preferred over Valium for IM use</li> <li>• Use with caution if BP &lt; 110</li> </ul>	<ul style="list-style-type: none"> <li>• See individual protocols for dosing</li> <li>• Usual total dose: 2.5-5 mg IV / IO / IM</li> </ul>	<ul style="list-style-type: none"> <li>• <b>See Color Coded List</b></li> <li>• See individual protocols for dosing</li> <li>• Usual total dose 0.1-0.2 mg/kg IV / IO / IM / IN</li> </ul>
<p><b><u>Morphine Sulfate</u></b> <b>Narcotic Analgesic</b></p> <p><b>NCCEP Protocol:</b>  <ul style="list-style-type: none"> <li>* Multiple</li> </ul> </p> <p><b>Indications/Contraindications:</b></p> <ul style="list-style-type: none"> <li>• Narcotic pain relief</li> <li>• Possible beneficial effect in pulmonary edema</li> <li>• Avoid use if BP &lt; 110</li> </ul>	<ul style="list-style-type: none"> <li>• 4 mg IM/IV/IO bolus then 2 mg IM/IV/IO every 5-10 minutes until a maximum of 10 mg or clinical improvement</li> </ul>	<ul style="list-style-type: none"> <li>• <b>See Color Coded List</b></li> <li>• 0.1 mg/kg IV / IO / IM May repeat every 5 minutes Maximum single dose 5 mg Maximum dose 10 mg</li> </ul>

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Medication	Adult Dosing	Pediatric Dosing
<p><b><u>Naloxone</u></b> <b>(Narcan)</b> <b>Narcotic Antagonist</b></p> <p>NCCEP Protocol: * 31-Overdose Toxic Ingestion * 60-Ped OD Toxic Ingestion</p> <p><u>Indications/Contraindications:</u> • Narcotic antagonist</p>	<ul style="list-style-type: none"> <li>0.4 - 2 mg IV / IO / IM / IN / ETT bolus titrated to patient's respiratory response</li> </ul>	<ul style="list-style-type: none"> <li><b>See Color Coded List</b></li> <li>0.1 mg/kg IV / IO / IN / IM / ETT (Max 2 mg)</li> <li>Repeat as per protocol</li> </ul>
<p><b><u>Normal Saline</u></b> <b>Crystalloid Solutions</b></p> <p>NCCEP Protocol: * Multiple</p> <p><u>Indications/Contraindications:</u> • IV fluid for IV access or volume infusion</p>	<ul style="list-style-type: none"> <li>See individual protocol for bolus dosing and/or infusion rate</li> </ul>	<ul style="list-style-type: none"> <li><b>See Color Coded List</b></li> <li>See individual protocol for bolus dosing and/or infusion rate</li> <li>Usual initial bolus 20 mL / kg IV / IO</li> </ul>
<p><b><u>Nitroglycerin</u></b></p> <p>NCCEP Protocol: * 14-Chest Pain and STEMI * 15-CHF Pulmonary Edema</p> <p><u>Indications/Contraindications:</u> • Vasodilator used in anginal syndromes and CHF.</p>	<ul style="list-style-type: none"> <li>0.3 / 0.4 mg SL every 5 minutes until painfree</li> <li>See Chest Pain Protocol for paste dosing</li> </ul>	
<p><b><u>Nitrous Oxide</u></b></p> <p>NCCEP Protocol: * 7-Pain Control Adult</p> <p><u>Indications/Contraindications:</u> • Medication used to assist with control of pain</p>	<ul style="list-style-type: none"> <li>Inhaled gas to effect per local protocol</li> </ul>	<ul style="list-style-type: none"> <li>Inhaled gas to effect per local protocol</li> </ul>

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Medication	Adult Dosing	Pediatric Dosing
<p><b><u>Ondansetron</u></b> <b>(Zofran)</b> <b>Anti-emetic</b></p> <p><b>NCCEP Protocol:</b>  <ul style="list-style-type: none"> <li>* 23-Abdominal Pain Protocol</li> <li>* 35-Vomiting and Diarrhea</li> <li>* 63-Pediatric Vomiting and Diarrhea</li> </ul> </p> <p><b><u>Indications/Contraindications:</u></b></p> <ul style="list-style-type: none"> <li>• Anti-Emetic used to control Nausea and/or Vomiting</li> <li>• Ondansetron (Zofran) is the recommended Anti-emetic for EMS use since it is associated with significantly less side effects and sedation.</li> </ul>	<ul style="list-style-type: none"> <li>• 4 mg IV / IO / IM / PO / ODT</li> <li>• Repeat only as per local protocol</li> </ul>	<ul style="list-style-type: none"> <li>• 0.15 mg/kg IV / IO / IM (Max 4 mg)</li> <li>• 0.2 mg/kg PO / ODT (Max 4 mg)</li> <li>• Repeat only as per local protocol</li> </ul>
<p><b><u>Oxygen</u></b></p> <p><b>NCCEP Protocol:</b>  <ul style="list-style-type: none"> <li>* Multiple</li> </ul> </p> <p><b><u>Indications/Contraindications:</u></b></p> <ul style="list-style-type: none"> <li>• Indicated in any condition with increased cardiac work load, respiratory distress, or illness or injury resulting in altered ventilation and/or perfusion. Goal oxygen saturation 94-99%.</li> <li>• Indicated for pre-oxygenation whenever possible prior to endotracheal intubation. Goal oxygen saturation 100%.</li> </ul>	<ul style="list-style-type: none"> <li>• 1-4 liters/min via nasal cannula</li> <li>• 6-15 liters/min via NRB mask</li> <li>• 15 liters via BVM / ETT / BIAD</li> </ul>	<ul style="list-style-type: none"> <li>• 1-4 liters/min via nasal cannula</li> <li>• 6-15 liters/min via NRB mask</li> <li>• 15 liters via BVM / ETT / BIAD</li> </ul>

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Medication	Adult Dosing	Pediatric Dosing
<p><b><u>Oxymetazoline</u></b> <b>(Afrin or Otrivin)</b> <b>Nasal Decongestant Spray</b></p> <p>NCCEP Protocol: * 71-Epistaxis</p> <p><u>Indications/Contraindications:</u></p> <ul style="list-style-type: none"> <li>• Vasoconstrictor used with nasal intubation and epistaxis</li> <li>• Relative Contraindication is significant hypertension</li> </ul>	<ul style="list-style-type: none"> <li>• 2 sprays in affected nostril</li> <li>• Usual concentration is 0.05% by volume</li> </ul>	<ul style="list-style-type: none"> <li>• <b>See Color Coded List</b></li> <li>• 1-2 sprays in affected nostril</li> <li>• Usual concentration is 0.05% by volume</li> </ul>
<p><b><u>Pralidoxime</u></b> <b>(2-PAM)</b></p> <p>NCCEP Protocol: * 84-WMD Nerve Agent</p> <p><u>Indications/Contraindications:</u></p> <ul style="list-style-type: none"> <li>• Antidote for Nerve Agents or Organophosphate Overdose</li> <li>• Administered with Atropine</li> </ul>	<ul style="list-style-type: none"> <li>• 600 mg IV / IO / IM over 30 minutes for minor symptoms</li> <li>• 1800 mg IV / IO / IM over 30 minutes for major symptoms</li> <li>• See local protocol for minor versus major indications</li> </ul>	<ul style="list-style-type: none"> <li>• 15 – 25 mg/kg IV / IM / IO over 30 minutes</li> <li>• See local protocol for specific pediatric dosing recommendations</li> </ul>

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<p><b><u>Promethazine</u></b> <b>(Phenergan)</b> <b>Anti-emetic</b></p> <p><b>NCCEP Protocol:</b>            * 23-Abdominal Pain            * 35-Vomiting and Diarrhea</p> <p><b><u>Indications/Contraindications:</u></b></p> <ul style="list-style-type: none"> <li>• IV Promethazine (Phenergan) should be given IV only with great caution. Extravasation of this drug can result in significant local tissue damage.</li> <li>• Anti-Emetic used to control Nausea and/or Vomiting</li> <li>• Ondansetron (Zofran) is the recommended Anti-emetic for EMS use since it is associated with significantly less side effects and sedation.</li> </ul>	<ul style="list-style-type: none"> <li>• 12.5 mg IV / IO / IM</li> <li>• May repeat as per local protocol</li> </ul>	
<p><b><u>Rocuronium</u></b></p> <p><b>NCCEP Protocol:</b>            * 4-Airway Rapid Sequence Intubation</p> <p><b><u>Indications/Contraindications:</u></b></p> <ul style="list-style-type: none"> <li>• Non-depolarizing paralytic agent used as a component of drug assisted intubation (Rapid Sequence Intubation), when succinylcholine is contraindicated.</li> <li>• Onset of action is longer than succinylcholine, up to 3 minutes, patient will NOT defasciculate.</li> </ul>	<ul style="list-style-type: none"> <li>• 1 mg / kg IV / IO</li> <li>• Only may repeat x1 per RSI protocol</li> </ul>	

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<p><b><u>Sodium Bicarbonate</u></b></p> <p><b>NCCEP Protocol:</b></p> <ul style="list-style-type: none"> <li>* 28-Dialysis Renal Failure</li> <li>* 31-Overdose Toxic Ingestion</li> <li>* 60-Ped OD Toxic Ingestion</li> <li>* 88-Crush Syndrome</li> </ul> <p><b><u>Indications/Contraindications:</u></b></p> <ul style="list-style-type: none"> <li>• A buffer used in acidosis to increase the pH in Cardiac Arrest, Hyperkalemia or Tricyclic Overdose.</li> </ul>	<ul style="list-style-type: none"> <li>• Initial bolus 50 mEq IV / IO</li> <li>• See individual protocol for specific dosing algorithm.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>See Color Coded List</b></li> <li>• Initial bolus 1 mEq / kg IV / IO</li> <li>• Maximum 50 mEq</li> <li>• See individual protocol for specific dosing algorithm.</li> </ul>
<p><b><u>Succinylcholine</u></b> <b>Paralytic Agent</b></p> <p><b>NCCEP Protocol:</b></p> <ul style="list-style-type: none"> <li>* 4-Airway Rapid Sequence Intubation</li> </ul> <p><b><u>Indications/Contraindications:</u></b></p> <ul style="list-style-type: none"> <li>• Paralytic Agent used as a component of Drug Assisted Intubation (Rapid Sequence Intubation)</li> <li>• Avoid in patients with burns &gt;24 hours old, chronic neuromuscular disease (e.g., muscular dystrophy), ESRD, or other situation in which hyperkalemia is likely.</li> </ul>	<ul style="list-style-type: none"> <li>• 1.5 mg/kg IV / IO</li> <li>• Only may repeat x1 per RSI protocol</li> </ul>	



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<p><b><u>Tranexamic Acid (TXA)</u></b></p> <p><b>NCCEP Protocol:</b>            * 30-Hypotension / Shock            * 42-Multiple Trauma</p> <p><b><u>Indications/Contraindications:</u></b></p> <ul style="list-style-type: none"> <li>• Anti-fibrinolytic used for trauma patients needing massive blood transfusion from uncontrolled hemorrhage</li> <li>• Must be given within 3 hrs of injury</li> </ul>	<ul style="list-style-type: none"> <li>• 1 gm / 100 ml over 10 min Mix with NaCl or D5W</li> </ul>	
<p><b><u>Vasopressin (Pitressin)</u></b></p> <p><b>NCCEP Protocol:</b>            * 11-Asystole Pulseless Electrical Activity            * 18-VF Pulseless VT</p> <p><b><u>Indications/Contraindications:</u></b></p> <ul style="list-style-type: none"> <li>• Medication used in place of and/or in addition to epinephrine in the setting of cardiac arrest</li> </ul>	<ul style="list-style-type: none"> <li>• 40 units IV / IO, may replace first or second dose of epinephrine</li> </ul>	
<p><b><u>Vecuronium Paralytic Agent</u></b></p> <p><b>NCCEP Protocol:</b>            * 4-Airway Rapid Sequence Intubation            * 19-Post Resuscitation            * 20-Induced Hypothermia</p> <p><b><u>Indications/Contraindications:</u></b></p> <ul style="list-style-type: none"> <li>• Long-acting non-depolarizing paralytic agent</li> <li>• Avoid in patients with chronic neuromuscular disease (e.g., muscular dystrophy).</li> </ul>	<ul style="list-style-type: none"> <li>• 0.1 mg/kg IV / IO or 10 mg IV / IO, as per individual protocol</li> <li>• Only may repeat dosing as per individual protocol</li> </ul>	