



Drug List

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



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



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Medication	Adult Dosing	Pediatric Dosing
<p><u>Atropine and Pralidoxime Auto-Injector Nerve Agent Kit</u></p> <p>NCCEP Protocol: * 84-WMD Nerve Agent</p> <p><u>Indications/Contraindications:</u></p> <ul style="list-style-type: none"> • Antidote for Nerve Agents or Organophosphate Overdose 	<ul style="list-style-type: none"> • One auto-injector then per medical control 	<ul style="list-style-type: none"> • See Color Coded List • One pediatric auto-injector then as per medical control
<p><u>Calcium Chloride</u></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"> • Indicated for severe hyperkalemia 	<ul style="list-style-type: none"> • 1 gm IV / IO • Avoid use if pt is taking digoxin 	<ul style="list-style-type: none"> • See Color Coded List • 20 mg/kg IV or IO slowly
<p><u>Dextrose 10%, 25%, 50% Glucose solutions</u></p> <p>NCCEP Protocol: * Multiple</p> <p><u>Indications/Contraindications:</u></p> <ul style="list-style-type: none"> • Use in altered mental status or hypoglycemic states 	<p>See local protocol for concentration and dosing</p>	<ul style="list-style-type: none"> • See Color Coded List <p>See local protocol for concentration and dosing</p>



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



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



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



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<p><u>Glucose Oral</u> Glucose Solutions</p> <p>NCCEP Protocol: * 27-Diabetic; Adult * 58-Pediatric Diabetic</p> <p><u>Indications/Contraindications:</u></p> <ul style="list-style-type: none"> Use in conscious hypoglycemic states 	<ul style="list-style-type: none"> One tube or packet Repeat based on blood glucose results, per protocol 	<ul style="list-style-type: none"> See Color Coded List One Tube or packet Repeat based on blood glucose results, per protocol Consider patient's ability to swallow and follow directions based on age
<p><u>Haloperidol</u> (Haldol) Phenothiazine Preparation</p> <p>NCCEP Protocol: * 6-Behavioral</p> <p><u>Indications/Contraindications:</u></p> <ul style="list-style-type: none"> Medication to assist with sedation of agitated patients 	<ul style="list-style-type: none"> 2.5-10 mg IV/IM, per local protocol See local protocol for relative contraindications and/or indications to contact medical control for use of this drug. 	



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



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<p><u>Ketorolac</u> (Toradol) Non-steroidal Anti-inflammatory Drug</p> <p>NCCEP Protocol: * 7-Pain Control Adult * 46-Pediatric Pain Control</p> <p><u>Indications/Contraindications:</u></p> <ul style="list-style-type: none"> • Avoid NSAIDS in women who are pregnant or could be pregnant • A nonsteroidal anti-inflammatory drug used for pain control. • 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). • Not to be used in patients with allergies to aspirin or other NSAID drugs such as motrin • Avoid in patients currently taking anticoagulants such as coumadin 	<ul style="list-style-type: none"> • 30 mg IV / IO or 60 mg IM 	<ul style="list-style-type: none"> • 0.5 mg/kg IV / IO / IM Maximum 30 mg
<p><u>Lactated Ringer's Solution</u></p> <p>NCCEP Protocol: * 40-Adult Thermal Burn * 67-Pediatric Thermal Burn</p> <p><u>Indications/Contraindications:</u></p> <ul style="list-style-type: none"> • Crystalloid solution preferred for fluid resuscitation and preferred in burn care. 	<ul style="list-style-type: none"> • Dosing per protocol, similar to Normal Saline 	<ul style="list-style-type: none"> • Dosing per protocol, similar to Normal Saline



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<p><u>Lidocaine</u></p> <p>NCCEP Protocol:</p> <ul style="list-style-type: none"> * 4-Airway Rapid Sequence Intubation * 18-VF Pulseless VT * 53-Pediatric VF Pulseless VT <p>Indications/Contraindications:</p> <ul style="list-style-type: none"> • Antiarrhythmic used for control of ventricular dysrhythmias • Anesthetic used during intubation to prevent elevated intracranial pressures during intubation 	<ul style="list-style-type: none"> • 1.5 mg/kg IV / IO bolus (ETT dose = 2 x IV dose) up to 3mg/kg max bolus dose • See local protocol for specific dosing algorithm 	<ul style="list-style-type: none"> • See Color Coded List • 1 mg/kg IV / IO Maximum 100 mg Repeat 0.5 mg/kg Maximum 3 mg/kg total
<p><u>Magnesium Sulfate</u></p> <p>NCCEP Protocol:</p> <ul style="list-style-type: none"> * Multiple <p>Indications/Contraindications:</p> <ul style="list-style-type: none"> • Elemental electrolyte used to treat eclampsia during the third trimester of pregnancy. • A smooth muscle relaxor used in refractory respiratory distress resistant to beta-agonists 	<p>Respiratory Distress:</p> <ul style="list-style-type: none"> • 2 g IV / IO over 10 minutes • Repeat dosing per local protocol <p>Obstetrical Seizure:</p> <ul style="list-style-type: none"> • 2 g IV / IO over 2-3 minutes • Dose may be repeated once, or as per local protocol 	<ul style="list-style-type: none"> • 40 mg/kg IV / IO over 20 minutes (Max 2 gms) • Repeat dosing per local protocol
<p><u>Methylprednisolone (Solu-medrol) Steroid Preparation</u></p> <p>NCCEP Protocol:</p> <ul style="list-style-type: none"> * 24-Allergic Reaction Anaphylaxis * 26-COPD Asthma * 56-Pediatric Allergic Reaction * 61-Pediatric Respiratory Distress <p>Indications/Contraindications:</p> <ul style="list-style-type: none"> • Steroid used in respiratory distress to reverse inflammatory and allergic reactions 	<ul style="list-style-type: none"> • 125 mg IV / IO • IM dosing only if indicated by local protocol 	<ul style="list-style-type: none"> • See Color Coded List • 2 mg/kg IV / IO (Max 125 mg) • IM dosing only if indicated by local protocol



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<p><u>Midazolam</u> (Versed) Benzodiazepine</p> <p>NCCEP Protocol: * Multiple</p> <p><u>Indications/Contraindications:</u></p> <ul style="list-style-type: none"> • Benzodiazepine used to control seizures and sedation • Quick acting Benzodiazepine • Preferred over Valium for IM use • Use with caution if BP < 110 	<ul style="list-style-type: none"> • See individual protocols for dosing • Usual total dose: 2.5-5 mg IV / IO / IM 	<ul style="list-style-type: none"> • See Color Coded List • See individual protocols for dosing • Usual total dose 0.1-0.2 mg/kg IV / IO / IM / IN
<p><u>Morphine Sulfate</u> Narcotic Analgesic</p> <p>NCCEP Protocol: * Multiple</p> <p><u>Indications/Contraindications:</u></p> <ul style="list-style-type: none"> • Narcotic pain relief • Possible beneficial effect in pulmonary edema • Avoid use if BP < 110 	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • See Color Coded List • 0.1 mg/kg IV / IO / IM May repeat every 5 minutes Maximum single dose 5 mg Maximum dose 10 mg
<p><u>Naloxone</u> (Narcan) Narcotic Antagonist</p> <p>NCCEP Protocol: * 31-Overdose Toxic Ingestion * 60-Ped OD Toxic Ingestion</p> <p><u>Indications/Contraindications:</u></p> <ul style="list-style-type: none"> • Narcotic antagonist 	<ul style="list-style-type: none"> • 0.4 - 2 mg IV / IO / IM / IN / ETT bolus titrated to patient's respiratory response 	<ul style="list-style-type: none"> • See Color Coded List • 0.1 mg/kg IV / IO / IN / IM / ETT (Max 2 mg) • Repeat as per protocol



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<p><u>Normal Saline Crystalloid Solutions</u></p> <p>NCCEP Protocol: * Multiple</p> <p><u>Indications/Contraindications:</u></p> <ul style="list-style-type: none"> • IV fluid for IV access or volume infusion 	<ul style="list-style-type: none"> • See individual protocol for bolus dosing and/or infusion rate 	<ul style="list-style-type: none"> • See Color Coded List • See individual protocol for bolus dosing and/or infusion rate • Usual initial bolus 20 mL / kg IV / IO
<p><u>Nitroglycerin</u></p> <p>NCCEP Protocol: * 14-Chest Pain and STEMI * 15-CHF Pulmonary Edema</p> <p><u>Indications/Contraindications:</u></p> <ul style="list-style-type: none"> • Vasodilator used in anginal syndromes and CHF. 	<ul style="list-style-type: none"> • 0.3 / 0.4 mg SL every 5 minutes until painfree • See Chest Pain Protocol for paste dosing 	
<p><u>Nitrous Oxide</u></p> <p>NCCEP Protocol: * 7-Pain Control Adult</p> <p><u>Indications/Contraindications:</u></p> <ul style="list-style-type: none"> • Medication used to assist with control of pain 	<ul style="list-style-type: none"> • Inhaled gas to effect per local protocol 	<ul style="list-style-type: none"> • Inhaled gas to effect per local protocol



Drug List

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



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

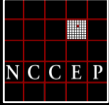


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Medication	Adult Dosing	Pediatric Dosing
<p><u>Promethazine</u> (Phenergan) Anti-emetic</p> <p>NCCEP Protocol: * 23-Abdominal Pain * 35-Vomiting and Diarrhea</p> <p><u>Indications/Contraindications:</u></p> <ul style="list-style-type: none"> • IV Promethazine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



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



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Medication	Adult Dosing	Pediatric Dosing
<p><u>Vasopressin</u> (Pitressin)</p> <p>NCCEP Protocol: * 11-Asystole Pulseless Electrical Activity * 18-VF Pulseless VT</p> <p><u>Indications/Contraindications:</u></p> <ul style="list-style-type: none"> Medication used in place of and/or in addition to epinephrine in the setting of cardiac arrest 	<ul style="list-style-type: none"> 40 units IV / IO, may replace first or second dose of epinephrine 	
<p><u>Vecuronium</u> Paralytic Agent</p> <p>NCCEP Protocol: * 4-Airway Rapid Sequence Intubation * 19-Post Resuscitation * 20-Induced Hypothermia</p> <p><u>Indications/Contraindications:</u></p> <ul style="list-style-type: none"> Long-acting non-depolarizing paralytic agent Avoid in patients with chronic neuromuscular disease (e.g., muscular dystrophy). 	<ul style="list-style-type: none"> 0.1 mg/kg IV / IO or 10 mg IV / IO, as per individual protocol Only may repeat dosing as per individual protocol 	



Pediatric Color Coded Drug List

Length < 59.5 cm		Weight 3-5 Kg (Avg 4.0 Kg)		Gray (0-3 months)		
Vital Signs		Acetaminophen	64 mg		Epinephrine 1:10,000	0.04 mg
Heart Rate	120-150	Adenosine 1 st Dose-	0.3 mg		Epinephrine 1:1000 Nebulized	2.0 mg
Respirations	24-48	Repeat Dose-	0.6 mg		Epinephrine 1:1000 IM	0.05 mg
BP Systolic	70 (+/-25)	Afrin Nasal Spray	HOLD	Fentanyl	8.0 mcg	
Equipment		Albuterol	2.5mg	Glucagon	0.5 mg	
ET Tube	2.5 - 3.5	Amiodarone	20 mg	Ibuprofen	N/A	
Blade Size	0 - 1	Atropine	0.10 mg	Ipratropium	500 mcg	
Defibrillation		Calcium Chloride	80 mg	Levalbuterol	0.31 mg	
Defibrillation	8 J, 15 J	Charcoal	N/A	Lidocaine	4 mg	
Cardioversion	2 J, 4 J	Dextrose 10%	20 ml	Lorazepam	0.2 mg	
Normal Saline		Diazepam (IV)	0.8 mg	Magnesium Sulfate	200 mg	
80 ml		(Rectal)	2.0 mg	Methylprednisolone	6.25 mg	
		Dilaudid	HOLD	Midazolam	0.5 mg	
		Diphenhydramine	6.5 mg	Morphine Sulfate	0.4 mg	
		Dopamine (800 mg in 500 cc)		Naloxone	0.4 mg	
		2 mcg/kg/min	0.3 ml/hr	Ondansetron	0.6 mg	
		5 mcg/kg/min	0.9 ml/hr	Prednisone	4.0 mg	
		10 mcg/kg/min	1.7 ml/hr	Sodium Bicarbonate	4 mEq	
		20 mcg/kg/min	3.3 ml/hr			

Length 59.5-66.5 cm		Weight 6-7 Kg (Avg 6.5 Kg)		Pink (3-6 Months)		
Vital Signs		Acetaminophen	96 mg		Epinephrine 1:10,000	0.06 mg
Heart Rate	120-125	Adenosine 1 st Dose-	0.6 mg		Epinephrine 1:1000 Nebulized	2.0 mg
Respirations	24-48	Repeat Dose-	1.2 mg		Epinephrine 1:1000 IM	0.06 mg
BP Systolic	85 (+/-25)	Afrin Nasal Spray	HOLD	Fentanyl	13.0 mcg	
Equipment		Albuterol	2.5 mg	Glucagon	0.5 mg	
ET Tube	3.5	Atropine	0.13 mg	Ibuprofen	N/A	
Blade Size	1	Amiodarone	30 mg	Ipratropium	500 mcg	
Defibrillation		Calcium Chloride	130 mg	Levalbuterol	0.31 mg	
Defibrillation	10 J, 20 J	Charcoal	HOLD	Lidocaine	6 mg	
Cardioversion	2 J, 5 J	Dextrose 10%	35 ml	Lorazepam	0.33 mg	
Normal Saline		Diazepam (IV)	1.3 mg	Magnesium Sulfate	300 mg	
130 ml		(Rectal)	3.2 mg	Methylprednisolone	12.5 mg	
		Dilaudid	HOLD	Midazolam	0.5 mg	
		Diphenhydramine	5 mg	Morphine Sulfate	0.6 mg	
		Dopamine (800 mg in 500 cc)		Naloxone	0.6 mg	
		2 mcg/kg/min	0.5 ml/hr	Ondansetron	1.0 mg	
		5 mcg/kg/min	1.3 ml/hr	Prednisone	6.5 mg	
		10 mcg/kg/min	2.5 ml/hr	Sodium Bicarbonate	6 mEq	
		20 mcg/kg/min	5.0 ml/hr			

Length 66.5-74 cm		Weight 8-9 Kg (Avg 8.5 Kg)		Red (7-10 Months)		
Vital Signs		Acetaminophen	128 mg		Epinephrine 1:10,000	0.08 mg
Heart Rate	120	Adenosine 1 st Dose-	0.9 mg		Epinephrine 1:1000 Nebulized	2.0 mg
Respirations	24-32	Repeat Dose-	1.8 mg		Epinephrine 1:1000 IM	0.08 mg
BP Systolic	92 (+/-30)	Afrin Nasal Spray	HOLD	Fentanyl	17.0 mcg	
Equipment		Albuterol	2.5 mg	Glucagon	0.5 mg	
ET Tube	3.5-4.0	Atropine	0.17 mg	Ibuprofen	4.0 ml	
Blade Size	1	Amiodarone	40 mg	Ipratropium	500 mcg	
Defibrillation		Calcium Chloride	170 mg	Levalbuterol	0.31 mg	
Defibrillation	20 J, 40 J	Charcoal	HOLD	Lidocaine	8 mg	
Cardioversion	5 J, 9 J	Dextrose 10%	43 ml	Lorazepam	0.43 mg	
Normal Saline		Diazepam (IV)	1.7 mg	Magnesium Sulfate	400 mg	
170 ml		(Rectal)	4.25 mg	Methylprednisolone	12.5 mg	
		Dilaudid	HOLD	Midazolam	0.85 mg	
		Diphenhydramine	10 mg	Morphine Sulfate	0.8 mg	
		Dopamine (800 mg in 500 cc)		Naloxone	0.8 mg	
		2 mcg/kg/min	0.7 ml/hr	Ondansetron	1.2 mg	
		5 mcg/kg/min	1.6 ml/hr	Prednisone	8.5 mg	
		10 mcg/kg/min	3.2 ml/hr	Sodium Bicarbonate	8 mEq	
		20 mcg/kg/min	6.5 ml/hr			



Pediatric Color Coded Drug List

Weight 10-11 Kg (Avg 10.5 Kg)

Length 74-84.5 cm

Vital Signs	
Heart Rate	115-120
Respirations	22-30
BP Systolic	96 (+/-30)

Equipment	
ET Tube	4.0
Blade Size	1

Defibrillation	
Defibrillation	20 J, 40 J
Cardioversion	5 J, 10 J

Normal Saline	210 ml
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Acetaminophen		160 mg
Adenosine	1 st Dose-	0.9 mg
	Repeat Dose-	1.8 mg
Afrin Nasal Spray		HOLD
Albuterol		2.5 mg
Atropine		0.2 mg
Amiodarone		50 mg
Calcium Chloride		210 mg
Charcoal		HOLD
Dextrose 10%		50 ml
Diazepam	(IV)	1.0 mg
	(Rectal)	5.0 mg
Dilaudid		HOLD
Diphenhydramine		10 mg
Dopamine		(800 mg in 500 ml Normal Saline)
	2 mcg/kg/min	0.8 ml/hr
	5 mcg/kg/min	2.0 ml/hr
	10 mcg/kg/min	4.0 ml/hr
	20 mcg/kg/min	8.0 ml/hr

Epinephrine 1:10,000	0.1 mg
Epinephrine 1:1000 IM	0.1 mg
Epinephrine 1:1000 Nebulized	2.0 mg
Fentanyl	21.0 mcg
Glucagon	1.0 mg
Ibuprofen	5.0 ml
Ipratropium	500 mcg
Levalbuterol	0.63 mg
Lidocaine	10 mg
Lorazepam	0.53 mg
Magnesium Sulfate	500 mg
Methylprednisolone	18.75 mg
Midazolam	1.0 mg
Morphine Sulfate	1.0 mg
Naloxone	1.0 mg
Ondansetron	1.6 mg
Prednisone	10.5 mg
Sodium Bicarbonate	10 mEq

Purple (11-18 Months)

Weight 12-14 Kg (Avg 13 Kg)

Length 84.5-97.5 cm

Vital Signs	
Heart Rate	110-115
Respirations	20-28
BP Systolic	100(+/-30)

Equipment	
ET Tube	4.5
Blade Size	2

Defibrillation	
Defibrillation	30 J, 50 J
Cardioversion	6 J, 15 J

Normal Saline	260 ml
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Acetaminophen		192 mg
Adenosine	1 st Dose-	1.2 mg
	Repeat Dose-	2.4 mg
Afrin Nasal Spray		1 spray
Albuterol		2.5 mg
Atropine		0.26 mg
Amiodarone		65 mg
Calcium Chloride		260 mg
Charcoal		15 gms
Dextrose 10%		60-80 ml
Diazepam	(IV)	2.6 mg
	(Rectal)	6.5 mg
Dilaudid		HOLD
Diphenhydramine		10 mg
Dopamine		(800 mg in 500 ml Normal Saline)
	2 mcg/kg/min	0.8 ml/hr
	5 mcg/kg/min	2.5 ml/hr
	10 mcg/kg/min	5.0 ml/hr
	20 mcg/kg/min	10 ml/hr

Epinephrine 1:10,000	0.10 mg
Epinephrine 1:1000 IM	0.10 mg
Epinephrine 1:1000 Nebulized	2.0 mg
Fentanyl	26.0 mcg
Glucagon	0.5 mg
Ibuprofen	6.5 ml
Ipratropium	500 mcg
Levalbuterol	0.63 mg
Lidocaine	14 mg
Lorazepam	0.65 mg
Magnesium Sulfate	650 mg
Methylprednisolone	25.0 mg
Midazolam	1 mg
Morphine Sulfate	1.0 mg
Naloxone	1.3 mg
Ondansetron	2.0 mg
Prednisone	13.0 mg
Sodium Bicarbonate	13 mEq

Yellow (19-35 Months)

Weight 15-18 Kg (Avg 16.5 Kg)

Length 97.5-110 cm

Vital Signs	
Heart Rate	100-15
Respirations	20-26
BP Systolic	100(+/-20)

Equipment	
ET Tube	5.0
Blade Size	2

Defibrillation	
Defibrillation	30 J, 70 J
Cardioversion	8 J, 15 J

Normal Saline	330 ml
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Acetaminophen		240 mg
Adenosine	1 st Dose-	1.8 mg
	Repeat Dose-	3.6 mg
Afrin Nasal Spray		1 spray
Albuterol		2.5 mg
Atropine		0.32 mg
Amiodarone		80 mg
Calcium Chloride		330 mg
Charcoal		15-30 gms
Dextrose 10%		80 ml
Diazepam	(IV)	3.3 mg
	(Rectal)	8.25 mg
Dilaudid		HOLD
Diphenhydramine		15 mg
Dopamine		(800 mg in 500 ml Normal Saline)
	2 mcg/kg/min	1.2 ml/hr
	5 mcg/kg/min	3.0 ml/hr
	10 mcg/kg/min	6.0 ml/hr
	20 mcg/kg/min	12 ml/hr

Epinephrine 1:10,000	0.16 mg
Epinephrine 1:1000 IM	0.20 mg
Epinephrine 1:1000 Nebulized	2.0 mg
Fentanyl	33.0 mcg
Glucagon	0.5 mg
Ibuprofen	8.0 ml
Ipratropium	500 mcg
Levalbuterol	0.63 mg
Lidocaine	15 mg
Lorazepam	0.83 mg
Magnesium Sulfate	800 mg
Methylprednisolone	31.25 mg
Midazolam	1.5 mg
Morphine Sulfate	1.0 mg
Naloxone	1.6 mg
Ondansetron	2.4 mg
Prednisone	16.5 mg
Sodium Bicarbonate	16 mEq

White (3-4 yrs)



Pediatric Color Coded Drug List

Weight 19-22 Kg (Avg 20.75 Kg)

Length 110-122 cm

Vital Signs	
Heart Rate	100
Respirations	20-24
BP Systolic	100(+/-15)

Equipment	
ET Tube	5.5
Blade Size	2

Defibrillation	
Defibrillation	40 J, 85 J
Cardioversion	10 J, 20 J

Normal Saline	410 ml
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Acetaminophen		288 mg
Adenosine	1 st Dose-	2.1 mg
	Repeat Dose-	4.1 mg
Afrin Nasal Spray		1 spray
Albuterol		2.5 mg
Atropine		0.4 mg
Amiodarone		100 mg
Calcium Chloride		420 mg
Charcoal		20-40 gms
Dextrose 10%		100 ml
Diazepam	(IV)	4.0 mg
	(Rectal)	10.0 mg
Dilaudid		0.31 mg
Diphenhydramine		25.0 mg
Dopamine		(800 mg in 500 ml Normal Saline)
	2 mcg/kg/min	1.6 ml/hr
	5 mcg/kg/min	3.9 ml/hr
	10 mcg/kg/min	7.8 ml/hr
	20 mcg/kg/min	16 ml/hr

Epinephrine 1:10,000	0.2 mg
Epinephrine 1:1000 IM	0.2 mg
Epinephrine 1:1000 Nebulized	2.0 mg
Fentanyl	40.0 mcg
Glucagon	1.0 mg
Ibuprofen	10.0 ml
Ipratropium	500 mcg
Levalbuterol	0.63 mg
Lidocaine	20 mg
Lorazepam	1.0 mg
Magnesium Sulfate	1000 mg
Methylprednisolone	37.5 mg
Midazolam	2.0 mg
Morphine Sulfate	2.0 mg
Naloxone	2.0 mg
Ondansetron	3.0 mg
Prednisone	20.0 mg
Sodium Bicarbonate	20 mEq

Blue (5-6 yrs)

Weight 24-30 Kg (Avg 27 Kg)

Length 122-137 cm

Vital Signs	
Heart Rate	90
Respirations	18-22
BP Systolic	105(+/-15)

Equipment	
ET Tube	6.0
Blade Size	2-3

Defibrillation	
Defibrillation	50 J, 100 J
Cardioversion	15 J, 30 J

Normal Saline	540 ml
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Acetaminophen		384 mg
Adenosine	1 st Dose-	2.7 mg
	Repeat Dose-	5.4 mg
Afrin Nasal Spray		1 spray
Albuterol		2.5 mg
Atropine		0.5 mg
Amiodarone		135 mg
Calcium Chloride		540 mg
Charcoal		25-50 gms
Dextrose 10%		135 ml
Diazepam	(IV)	4.0 mg
	(Rectal)	10.0 mg
Dilaudid		0.4 mg
Diphenhydramine		25 mg
Dopamine		(800 mg in 500 ml Normal Saline)
	2 mcg/kg/min	2 ml/hr
	5 mcg/kg/min	5 ml/hr
	10 mcg/kg/min	10 ml/hr
	20 mcg/kg/min	20 ml/hr

Epinephrine 1:10,000	0.27 mg
Epinephrine 1:1000 IM	0.3 mg
Epinephrine 1:1000 Nebulized	2.0 mg
Fentanyl	54.0 mcg
Glucagon	1.0 mg
Ibuprofen	13 ml
Ipratropium	500 mcg
Levalbuterol	0.63 mg
Lidocaine	20 mg
Lorazepam	1.35 mg
Magnesium Sulfate	1350 mg
Methylprednisolone	54.0 mg
Midazolam	2.0 mg
Morphine Sulfate	2.0 mg
Naloxone	2.0 mg
Ondansetron	4.0 mg
Prednisone	27.0 mg
Sodium Bicarbonate	27 mEq

Orange (7-9 yrs)

Weight 32-40 Kg (Avg 36 Kg)

Length 137-150 cm

Vital Signs	
Heart Rate	85-90
Respirations	16-22
BP Systolic	115(+/-20)

Equipment	
ET Tube	6.5
Blade Size	3

Defibrillation	
Defibrillation	60 J, 150 J
Cardioversion	15 J, 30 J

Normal Saline	720 ml
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Acetaminophen		544 mg
Adenosine	1 st Dose-	3.6 mg
	Repeat Dose-	7.2 mg
Afrin Nasal Spray		2 spray
Albuterol		2.5 mg
Atropine		0.5 mg
Amiodarone		180 mg
Calcium Chloride		700 mg
Charcoal		25-50 gms
Dextrose 10%		180 ml
Diazepam	(IV)	4.0 mg
	(Rectal)	10.0 mg
Dilaudid		0.54 mg
Diphenhydramine		35 mg
Dopamine		(800 mg in 500 ml Normal Saline)
	2 mcg/kg/min	2.7 ml/hr
	5 mcg/kg/min	7.0 ml/hr
	10 mcg/kg/min	14.0 ml/hr
	20 mcg/kg/min	28.0 ml/hr

Epinephrine 1:10,000	0.3 mg
Epinephrine 1:1000 IM	0.3 mg
Epinephrine 1:1000 Nebulized	2.0 mg
Fentanyl	62.0 mcg
Glucagon	1.0 mg
Ibuprofen	18 ml
Ipratropium	500 mcg
Levalbuterol	0.63 mg
Lidocaine	36 mg
Lorazepam	1.8 mg
Magnesium Sulfate	1800 mg
Methylprednisolone	62.5 mg
Midazolam	2.0 mg
Morphine Sulfate	3.0 mg
Naloxone	2.0 mg
Ondansetron	4.0 mg
Prednisone	36.0 mg
Sodium Bicarbonate	36 mEq

Green (10-12 yrs)