

## MEDICATIONREFERENCES

NAME: ADENOSINE

TRADE NAMES: Adenocard

CLASS: Antidysrhythmic

THERAPUTIC ACTION: Slows impulse formation in the SA node, slows conduction time through the AV node. Also depresses left ventricular function.

CONTRAINDICATIONS/PRECAUTIONS: Second or third degree AV block, hypersensitivity to drug, sick sinus syndrome, acute bronchoconstriction/bronchospasm, acute MI,

INTERACTIONS: N/A

DOSAGE: 6 mg, If no change after 2 minutes 12 mg, may repeat 12 mg once after 2 minutes.

PROTOCOL: Narrow Complex Tachycardia Stable (HR >150)

NAME: ALBUTEROL SULFATE

TRADE NAMES: Accuneb, Proventil, Ventolin, VoSpire ER, ProAir HFA

CLASS: Beta-2 Adrenergic Agonist, Bronchodilator, Sympathomimetic

THERAPUTIC ACTION: Selectively acts on the beta-2 adrenergic receptors of intracellular adenylyl cyclase resulting in smooth muscle relaxation. Also inhibits the release of histamine from mast cells.

CONTRAINDICATIONS/PRECAUTIONS: Hypersensitivity to drug or any of its components

INTERACTIONS: N/A

DOSAGE: 2.5mg in 3ml nebulized

PROTOCOL: Asthma/COPD, Anaphylaxis, Crush/Suspension

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NAME: AMIODARONE

TRADE NAMES: Cordarone, Pacerone

CLASS: Antidysrhythmic

THERAPUTIC ACTION: Prolongs duration of action potential and refractory period without significantly affecting the resting potential. Relaxes smooth muscles causing vasodilation (especially in coronary arteries.) Raises the threshold for Ventricular Fibrillation.

CONTRAINDICATIONS/PRECAUTIONS: Cardiogenic shock, Bradycardia, Sick Sinus Syndrome.

INTERACTIONS: Calcium channel blockers and beta blockers may potentiate sinus bradycardia, sinus arrest, or AV block.

DOSAGE: Adult: Arrest – 300 mg IVP/IO if no change after 3-5 minutes 150mg IVP/IO  
Wide-complex Tachycardia/Ventricular Ectopy – 150mg slow IVP/IO over 10 minutes. If rhythm resolves;  
maintenance infusion – 1 mg/min

PROTOCOL: **ALS ONLY** Cardiopulmonary Arrest -Ventricular Fibrillation/Tachycardia, Wide Complex Tachycardia-Unstable (after cardioversion), Ventricular Ectopy (Symptomatic)

NAME: ASPIRIN

TRADE NAMES: Ecotrin, Bayer, Ascriptin, Aspirin, Easprin, Ecpirin, Entercote

CLASS: Analgesic, NSAID, Salicylate, Aspirin

THERAPUTIC ACTION: A potent inhibitor of both prostaglandin synthesis and platelet aggregation.

CONTRAINDICATIONS/PRECAUTIONS: Hypersensitivity to drug, active ulcers, asthma

INTERACTIONS: N/A

DOSAGE 324 mg.

PROTOCOL: Chest Pain

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NAME: ATROPINE SULFATE

TRADE NAMES: Intropin

CLASS: Anticholinergic/Parasympatholytic

THERAPUTIC ACTION: Competitive antagonist that selectively blocks acetylcholine. By blocking the vagal impulses to the heart, it increases SA node discharge, enhances conduction through the AV junction, and increases cardiac output.

CONTRAINDICATIONS/PRECAUTIONS No contraindications in emergency settings.

INTERACTIONS: None

DOSAGE: Bradydysrhythmias: 0.5 mg IV q 3-5 minutes to a max 3 mg.

Organophosphate : 2 mg IV q 3-5 minutes to maintain a heart rate of 70 and a systolic above 90

PROTOCOL: Bradycardia – Unstable (Sinus Bradycardia, 1st Degree Heart Block, 2nd Degree Type I Heart Block),  
Bradycardia – Unstable (2nd Degree Type II Heart Block, 3rd Degree Heart Block), Suspected Poisoning -  
Organophosphate

NAME: BENZOCAINE

TRADE NAMES: Hurricane Spray, Cetacaine

CLASS: Topical Anesthetic

THERAPUTIC ACTION: Used to control pain and gagging when intubating the conscious/semi-conscious patient. Acts by reversibly blocking nerve conduction. Produces anesthesia in 30 seconds and lasts approximately 30 – 60 minutes.

CONTRAINDICATIONS/PRECAUTIONS: Known Hypersensitivity

INTERACTIONS: No interactions

DOSAGE: Apply spray for approximately 1 second .2 mg per second.

PROTOCOL: Drug Assisted Intubation

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NAME: CALCIUM CHLORIDE

TRADE NAMES: Calcium Chloride

CLASS: Electrolyte

THERAPUTIC ACTION Provides elemental calcium in the form of the cation Ca<sup>++</sup>

CONTRAINDICATIONS/PRECAUTIONS: Ventricular fibrillation, hypercalcemia, digitalis toxicity. Make sure IV line is flushed.

INTERACTIONS: Will precipitate when mixed with Sodium Bicarbonate

DOSAGE: 1 gm IV/IO slow

PROTOCOL: Cardiopulmonary Arrest, Crush/Suspension

NAME: DEXTROSE 50%

TRADE NAMES: Dextrose, Glucose, D50W

CLASS: Carbohydrate

THERAPUTIC ACTION: Simple sugar that rapidly increases serum glucose levels.

CONTRAINDICATIONS/PRECAUTIONS: None in Hypoglycemia. Use with precaution in increased intracranial pressure/hemorrhage. Ensure patient venous access

INTERACTIONS: none

DOSAGE: 25 gm slow IV/IO (see protocol for IO conditions)

PROTOCOL: Diabetic Emergency

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NAME: DIAZEPAM

TRADE NAMES: Valium

CLASS: Benzodiazepine

THERAPUTIC ACTION: Acts on the limbic and subcortical levels of the CNS. It suppresses the spread of seizure activity through the motor cortex. Diazepam is an effective skeletal muscle relaxant.

CONTRAINDICATIONS/PRECAUTIONS: Hypersensitivity, hypotension, respiratory depression

INTERACTIONS: Alcohol, CNS depressants and anticonvulsants can potentiate CNS depression

DOSAGE: 5 mg IV, 10 mg IN

PROTOCOL: Seizure

NAME: DIPHENHYDRAMINE

TRADE NAMES: Benadryl

CLASS: Antihistamine

THERAPUTIC ACTION: Antihistamine with anticholinergic activity

CONTRAINDICATIONS/PRECAUTIONS: Hypersensitivity, acute asthma, hypotension, narrow angle glaucoma

INTERACTIONS: Alcohol and other CNS depressants, MAO inhibitors compound CNS depression

DOSAGE: Anaphylaxis, Allergic Reaction (non- anaphylaxis) 50 mg IV, IM  
Pain Control 12.5 mg IV

PROTOCOL: Anaphylaxis, Allergic Reaction (non- anaphylaxis), Pain Control

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NAME: DOPAMINE

TRADE NAMES: Intropin

CLASS: Sympathomimetic

THERAPUTIC ACTION: Its major cardiac effects are produced by direct action on alpha and beta-adrenergic receptors its positive inotropic effect increases cardiac output.

CONTRAINDICATIONS/PRECAUTIONS: Hypovolemic shock without fluid resuscitation, Tachyarrhythmias, V-Fib

INTERACTIONS: Deactivated by sodium bicarbonate.

DOSAGE: 5 mcg/kg/min. Titrate in 5 mcg/kg/min steps (maximum rate 20 mcg/kg/min) to maintain systolic blood pressure at or above 90 mmHg. (IV pump use is encouraged)

PROTOCOL: Cardiogenic Shock, Anaphylaxis, Spinal Injury

NAME: EPINEPHRINE

TRADE NAMES: Adrenalin

CLASS: Sympathomimetic

THERAPUTIC ACTION: Increases heart rate, cardiac contractile force, and systemic vascular resistance

CONTRAINDICATIONS/PRECAUTIONS: None in cardiac arrest. For other uses: hypersensitivity, narrow angle glaucoma.

INTERACTIONS: Deactivated by sodium bicarbonate

DOSAGE: Cardiac Arrest 1:10000 1 mg IV/IO  
Asthma/ Anaphylaxis 1:1000 0.3 mg IM

PROTOCOL: Cardiopulmonary Arrest – Ventricular Fibrillation/Tachycardia, Cardiopulmonary Arrest – Pulseless Electrical Activity, Cardiopulmonary Arrest – Asystole, Asthma/Copd, Anaphylaxis

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NAME: ETOMIDATE

TRADE NAMES: Amidate

CLASS: Hypnotic/Sedative

THERAPUTIC ACTION: Short acting non barbiturate hypnotic with no analgesic effects and limited cardiovascular and respiratory effects.

CONTRAINDICATIONS/PRECAUTIONS: Hypersensitivity, Hypotension, severe asthma, cardiovascular disease.

INTERACTIONS: None in emergency setting

DOSAGE: 0.5 mg/kg (40 mg max dose)IV/IO over 30 seconds

PROTOCOL: Drug Assisted Intubation

NAME: FENTANYL CITRATE

TRADE NAMES: Sublimaze

CLASS: Narcotic analgesic

THERAPUTIC ACTION: Potent synthetic narcotic agonist with pharmacological action qualitatively similar to morphine

CONTRAINDICATIONS/PRECAUTIONS: Patients who have received MAO inhibitors within 14 days; myasthenia gravis.

INTERACTIONS: Alcohol and other CNS depressants potentiate its effects; MAO inhibitors can cause a hypertensive crisis

DOSAGE: 50-75 mcg IV/IM –OR- 2 mcg/kg IN (max 200 mcg; 1/2 dose in each nare). Dose should be decreased by ½ if patient has a history of renal disease

PROTOCOL: Pain Control

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NAME: FUROSEMIDE

TRADE NAMES: Lasix

CLASS: Loop Diuretic

THERAPUTIC ACTION: Inhibits the reabsorption of sodium and chloride at the loop of Henle and also in the proximal and distal renal tubules; has a vasodilating effect also.

CONTRAINDICATIONS/PRECAUTIONS: Hypersensitivity

INTERACTIONS: Other diuretics enhance the diuretic effect; Corticosteroids can potentiate hypokalemia

DOSAGE: 40 mg if never on diuretics; 80 mg if on diuretics

PROTOCOL: Acute Pulmonary Edema

NAME: GLUCAGON

TRADE NAMES: Glucagon

CLASS: hormone

THERAPUTIC ACTION: Increases blood glucose by stimulating glycogenesis; inhibits conversion of glucose to glycogen.

CONTRAINDICATIONS/PRECAUTIONS: hypersensitivity to glucagon or protein compounds

INTERACTIONS: None in emergency setting

DOSAGE: 1mg IM; 2 mg IN (1 mg in each nare)

PROTOCOL: Diabetic Emergency

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NAME: GLUCOSE

TRADE NAMES: Glucose, Insta-Glucose

CLASS: Monosacchoride, Carbohydrate

THERAPUTIC ACTION: After absorption from GI tract glucose is distributed in the tissues and provides a prompt increase in blood sugar.

CONTRAINDICATIONS/PRECAUTIONS: Altered LOC, patient semi-conscious or compromised airway, must be swallowed not absorbed.

INTERACTIONS: None

DOSAGE: 24 grams

PROTOCOL: Diabetic Emergency

NAME: HALOPERIDAL

TRADE NAMES: Haldol

CLASS: Antipsychotic

THERAPUTIC ACTION: Is not clearly established, it is known to produce a selective effect on the CNS by competitive blockade of postsynaptic dopamine (D2) receptors in the mesolimbic dopaminergic system and increase turnover of brain dopamine to produce its tranquilizing effects.

CONTRAINDICATIONS/PRECAUTIONS: Comatose state from any cause, hypersensitivity to the drug, Parkinson's disease, Toxic CNS depression

Precautions: Elderly patients with dementia related psychosis, cardiac abnormalities, electrolyte imbalances, long QT syndrome, may develop Torsades de pointes, seizures

INTERACTIONS:

Ondesatrom (Zofran) may cause fever, somnolence (strong desire for sleep), vomiting, diarrhea, agitation, hypotension, encephalopathy, bradyphrenia

Amiodarone may cause A-Fib, decreased appetite, dyspnea (labored resp.), sepsis, pneumonia, nausea, dehydration

DOSAGE: 5 mg IV/IM

PROTOCOL: Excited Delirium

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NAME: IPRATROPIUM

TRADE NAMES: Atrovent

CLASS: Anticholinergic bronchodilator

THERAPUTIC ACTION: Inhibits interaction of acetylcholine at receptor sites on the bronchial smooth muscle resulting in bronchodilation.

CONTRAINDICATIONS/PRECAUTIONS: Hypersensitivity. Use cautiously in acute bronchospasm, elderly patients, pregnant or breast feeding patients, children ages 5 or younger

INTERACTIONS: No known dangerous interactions

DOSAGE: 0.5mg (2.5ml)

PROTOCOL: Asthma/COPD

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NAME: LIDOCAINE (Infusion)

TRADE NAMES: Xylocaine

CLASS: Antidysrhythmic

THERAPUTIC ACTION: Increases ventricular fibrillation threshold. Decreases speed of electrical impulse through the conductive system.

CONTRAINDICATIONS/PRECAUTIONS: Hypersensitivity, Stokes-Adams syndrome, 2<sup>nd</sup> degree heart block or 3<sup>rd</sup> degree heart block in the absence of an artificial pacemaker, Junctional bradycardia and ventricular ectopy associated with bradycardia and idioventricular rhythm.

INTERACTIONS: None

DOSAGE: Adult: 2-4mg/min

PROTOCOL: **ILS ONLY** Cardiopulmonary Arrest – Ventricular Fibrillation/Tachycardia, Ventricular Ectopy (Symptomatic)

NAME: LIDOCAINE

TRADE NAMES: Xylocaine

CLASS: Antiarrhythmic Agent

THERAPUTIC ACTION: Increase ventricular fibrillation threshold. Decreases speed of electrical impulse through the conductive system.

CONTRAINDICATIONS/PRECAUTIONS: Hypersensitivity, Stokes-Adams syndrome, 2<sup>nd</sup> degree heart block or 3<sup>rd</sup> degree heart block in the absence of an artificial pacemaker, Junctional bradycardia and ventricular ectopy associated with bradycardia and idioventricular rhythm

INTERACTIONS:

DOSAGE: 1.5 mg/kg subsequent doses are ½ the first dose up to a maximum of 3 mg/kg

PROTOCOL: **ILS ONLY** Cardiopulmonary Arrest – Ventricular Fibrillation/Tachycardia, Ventricular Ectopy (Symptomatic)

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NAME: LORAZAPAM

TRADE NAMES: Ativan

CLASS: Benzodiazepines, Sedative, Anti-anxiety

THERAPUTIC ACTION: It is the most potent of the Benzodiazepines. Its effects are all mediated by the inhibitory neurotransmitter GABA. Lorazepam is a sedative, hypnotic and skeletal muscle relaxant.

CONTRAINDICATIONS/PRECAUTIONS: Pregnant or nursing mothers. Use caution with patients in shock, coma, acute alcohol intoxication, suicidal patients and patients with depressed respirations

INTERACTIONS: Alcohol, CNS depressants and anti convulsants may potentiate CNS depression

DOSAGE: 1 mg for anxiety associated with CHF, Asthma COPD and **ALSO** for pain control  
2 mg for seizures, and excited delirium

PROTOCOL: Acute Pulmonary Edema, Asthma/COPD, Seizures, Pain Control, Excited Delirium

NAME: MAGNESIUM SULFATE

TRADE NAMES: Magnesium Sulfate 50%

CLASS: Electrolyte

THERAPUTIC ACTION: Decreases Acetylcholine in the motor nerve terminals. Produces neuromuscular blockade in the CNS. Physiological calcium channel blocker

CONTRAINDICATIONS/PRECAUTIONS: Cardiogenic shock and heart blocks

INTERACTIONS: Neuromuscular blocking agents add to respiratory depression and apnea

DOSAGE: V-fib/v-tach 2 g IV/IO over 1-2 minutes  
Asthma/COPD- 2 g mixed in 250 ml infused over 6-10 minutes

PROTOCOL: Cardiopulmonary Arrest – Ventricular Fibrillation/Tachycardia, Asthma/COPD

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NAME: METHYLPREDNISOLONE

TRADE NAMES: Solu-Medrol,

CLASS: Corticosteroid

THERAPUTIC ACTION: Inhibits the synthesis of pro-inflammatory enzymes.

CONTRAINDICATIONS/PRECAUTIONS: In the pre-hospital setting there are no contraindications

INTERACTIONS: Furosemide may increase potassium loss

DOSAGE: 125 mg

PROTOCOL: Asthma/COPD, Anaphylaxis

NAME: MIDAZOLAM

TRADE NAMES: Versed

CLASS: Sedative

THERAPUTIC ACTION: Short acting benzodiazepine with CNS depressant, muscle relaxant, anticonvulsant, and anterograde amnesic effects.

CONTRAINDICATIONS/PRECAUTIONS: Hypersensitivity, shock, acute narrow angle glaucoma, acute alcohol intoxication

INTERACTIONS: Alcohol, CNS depressants and anti convulsants may potentiate CNS depression

DOSAGE: Sedation for cardioversion/ pacing: 0.05mg/kg (max dose 5 mg) IV/IO/IN slowly

Sedation for drug assisted intubation 0.05mg/kg (max dose 10 mg) IV/IO

To maintain sedation during drug assisted intubation 2 mg every 3-5 minutes, as necessary  
(max post-intubation dose 10 mg).

PROTOCOL: Narrow Complex Tachycardia – Stable (HR>150), Bradycardia – Unstable (Sinus Bradycardia, 1st Degree Heart Block, 2nd Degree Type I Heart Block), Bradycardia – Unstable (2nd Degree Type II Heart Block, 3rd Degree Heart Block), Drug Assisted Intubation

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NAME: NALOXONE TRADE

NAMES: Narcan CLASS:

Narcotic Antagonist

THERAPUTIC ACTION: Competes for and displaces narcotic molecules from opiate receptors in the brain

CONTRAINDICATIONS/PRECAUTIONS: None in prehospital setting

INTERACTIONS: May cause withdraw symptoms in narcotic addicts

DOSAGE: BLS 2 mg IN

ILS/ALS 0.4mg up to 2.0 mg IN /IV/IM/IO (titrate to return of adequate and spontaneous respirations).

PROTOCOL: Unconsciousness/Altered Level of Consciousness/Syncope, Suspected Poisoning or Drug Overdose

NAME: NITROGLYCERIN (spray/tablet)

TRADE NAMES: Nitro-Bid, Nitrostat, Nitro-Dur, Nitro

CLASS: Nitrate

THERAPUTIC ACTION: Relaxes peripheral venous vessels causing decrease blood flow to the heart (decreasing preload). Nitroglycerin reduces both arterial/venous filling pressures resulting in left ventricular wall tension (decreased afterload).

CONTRAINDICATIONS/PRECAUTIONS: Blood Pressure less than 90 mmHg, erectile dysfunction therapy drugs within 48 hours, hypersensitivity to drug.

INTERACTIONS: Erectile dysfunction drugs, alcohol, beta blockers

DOSAGE: 0.4 mg SL

PROTOCOL: Chest Pain, Acute Pulmonary Edema, Hypertensive Crisis

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NAME: NITROGLYCERIN (infusion)

TRADE NAMES: Nitro-Bid, Nitrostat, Nitro-Dur, Nitro

CLASS: Nitrate

THERAPUTIC ACTION: Relaxes peripheral venous vessels causing decrease blood flow to the heart (decreasing preload). Nitroglycerin reduces both arterial/venous filling pressures resulting in left ventricular wall tension (decreased afterload).

CONTRAINDICATIONS/PRECAUTIONS: Blood Pressure less than 90 mmHg, erectile dysfunction therapy drugs within 48 hours, hypersensitivity to drug.

INTERACTIONS: Erectile dysfunction drugs, alcohol, beta blockers MustusenitroglycerinecompatibleIVpumptubing

DOSAGE: 5mcg/min, after 5 minutes may be increased to 10 mcg/min

PROTOCOL: Must be administered through an IV pump. Chest Pain, Acute Pulmonary Edema, Hypertensive Crisis

NAME: NITROGLYCERIN (paste)

TRADE NAMES: Nitro-Bid, Nitrostat, Nitro-Dur, Nitro

CLASS: Nitrate

THERAPUTIC ACTION: Relaxes peripheral venous vessels causing decrease blood flow to the heart (decreasing preload). Nitroglycerin reduces both arterial/venous filling pressures resulting in left ventricular wall tension (decreased afterload).

CONTRAINDICATIONS/PRECAUTIONS: Blood Pressure less than 90 mmHg, erectile dysfunction therapy drugs within 48 hours, hypersensitivity to drug.

INTERACTIONS: Erectile dysfunction drugs, alcohol, beta blockers

DOSAGE: 1 inch

PROTOCOL: Acute Pulmonary Edema

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NAME: PHENYLEPHRINE HYDROCHLORIDE

TRADE NAMES: Neo-Synephrine, Vick's Sinex, Nostril

CLASS: Synthetic sympathomimetic

THERAPUTIC ACTION: Works by constricting blood vessels in the lining of the sinuses and nasal passages. This action causes the blood vessels to constrict allowing less fluid to leave the blood vessels and decreasing inflammation.

CONTRAINDICATIONS/PRECAUTIONS: Cardiovascular disease, Hypertension, GI or urinary obstruction, hyperthyroidism, diabetes, children, pregnant women, and nursing mothers. Do not administer during or within 14 days of MAOIs or tricyclic antidepressants. B-blockers may increase the pressor response.

INTERACTIONS: May cause hypertensive crisis with MAOIs tricyclics. B-blockers may increase the pressor effects of sympathomimetics.

DOSAGE: 1 spray

PROTOCOL: Use prior to nasotracheal intubation to prep the nasal/sinus cavity.

NAME: ONDANSETRON

TRADE NAMES: Zofran

CLASS: Antiemetic

THERAPUTIC ACTION: Selective serotonin antagonist

CONTRAINDICATIONS/PRECAUTIONS: May cause long QTC syndrome

INTERACTIONS: None in prehospital setting

DOSAGE: 4 mg IV/IO

PROTOCOL: Pain Control, Nausea/Vomiting

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NAME: SODIUM BICARBONATE

TRADE NAMES: Sodium Bicarbonate

CLASS: Electrolytes

THERAPUTIC ACTION: Raises blood PH by buffering excess hydrogen ions.

CONTRAINDICATIONS/PRECAUTIONS None when used as indicated

INTERACTIONS: Most catecholamines are deactivated by sodium bicarbonate, will form a precipitate and clog IV lines when administered through the same IV line with calcium chloride

DOSAGE: For cardiac arrest and specific drug overdoses 50 mEq IV. For Crush/Suspension: 50 mEq in 1000 mL of NORMAL SALINE . Administer the entire 1000 mL bolus at wide open rate (using 10gtts tubing)

PROTOCOL: Cardiopulmonary Arrest – Ventricular Fibrillation/Tachycardia, Cardiopulmonary Arrest – Pulseless Electrical Activity, Cardiopulmonary Arrest – Asystole, Suspected Poisoning Or Drug Overdose, Crush/Suspension

NAME: THIAMINE

TRADE NAMES: Biamine

CLASS: Vitamin

THERAPUTIC ACTION: It functions as a coenzyme in carbohydrate metabolism

CONTRAINDICATIONS/PRECAUTIONS: Rare, Allergic Reactions

INTERACTIONS: None

DOSAGE: 100 mg

PROTOCOL: Unconsciousness/Altered Level of Consciousness/Syncope

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NAME: TRANSEXAMIC ACID (TXA)

TRADE NAMES: Cyklokapron, Lysteda

CLASS: Hemostatic/Antifibrinolytic

THERAPUTIC ACTION: Plasminogen inhibitor that inhibits the body's natural anti-clotting ability

CONTRAINDICATIONS/PRECAUTIONS: Hypersensitivity, subarachnoid hemorrhage

INTERACTIONS: N/A

DOSAGE: 1 gm over 10 minutes. Use infusion pump, if available. (If no pump is available, mix in 250 mL bag; administer 4 gtts/second with 10 gtt tubing).

PROTOCOL: Hemorrhagic Shock

PrimarySource

Cherry, Richard A., and Bryan E. Bledsoe. Drug Guide for Paramedics. 2nd ed. Upper Saddle River, NJ: Pearson/Prentice Hall Health, 2007. Print.

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