



# **ACETAMINOPHEN**

## **(Tylenol)**

### **Trinity EMS Protocols:**

- 1 – 07 Fever/Infection Control
- 1 – 10 Pain Control (Pediatric)

### **Indications:**

- Pain and fever control
- Analgesic and antipyretic

### **Contraindications:**

- Avoid in patients with liver disease or chronic alcohol use

### **Adult Dosages:**

- 650 mg to 1000 mg po

### **Pediatric Dosages:**

*See color-coded list*

- 15 mg/kg po

### **Side effects:**

- Hepatotoxicity
- Nausea
- Rash
- Headache

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.



# **ADENOSINE**

## **(Adenocard)**

### **Trinity EMS Protocols:**

- 3 – 02 Atrial Fibrillation
- 3 – 12 Supraventricular Tachycardia
- 4 – 11 Pediatric Supraventricular Tachycardia

### **Indications:**

- Specifically for treatment/diagnosis of SVT

### **Contraindications:**

- 2<sup>ND</sup> OR 3<sup>rd</sup> degree AV block without pacemaker
- Acute bronchospasm
- Caution with severe COPD

### **Adult Dosages:**

- 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 12 mg once if necessary
- Use stopcock and 10 ml Normal Saline flush with each dose

### **Pediatric Dosages:**

- 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
- Use stopcock and 5 ml Normal Saline flush with each dose

### **Side effects(Serious):**

- Severe bradycardia
- Ventricular fibrillation/tachycardia
- Atrial fibrillation
- Asystole
- Complete heart block
- Bronchospasm

### **Common:**

- Flushing
- Dyspnea
- Chest pressure
- Nausea
- Lightheaded
- Headache

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.



# ALBUTEROL

## Trinity EMS Protocols:

- 2 – 09 Respiratory Distress
- 4 – 09 Pediatric Respiratory Distress
- 5 – 04 Crush Syndrome
- 5 – 05 Drowning

## Indications:

- Beta-agonist used for treatment of bronchospasm

## Contraindications:

- Caution with ischemic heart disease, arrhythmias, hypokalemia

## Adult Dosages:

- 2.5 mg in nebulizer up to 3 doses if no history of cardiac disease and heart rate  $\leq 150$

## Pediatric Dosages:

*See color-coded list*

- 2.5 mg (3ml) in nebulizer up to 3 doses continuously if no history of cardiac disease and heart rate  $< 200$

## Side effects(Serious):

- Hypertension
- Angina/Myocardial Infarction
- Hypokalemia
- Arrhythmias

## Common:

- Tremor
- Nervousness
- Headache
- Nausea
- Tachycardia
- Muscle Cramps
- Palpitations
- Dizziness

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.



# **AMIODARONE**

## **(Cordarone)**

### **Trinity EMS Protocols:**

- 3 – 15 Ventricular Fibrillation/Pulseless Ventricular Tachycardia
- 3 – 16 Wide Complex Tachycardia
- 4 – 08 Pediatric Pulseless Arrest

### **Indications:**

- Antiarrhythmic used in ventricular dysrhythmias(Class 3)

### **Contraindications:**

- Avoid in patients with 2<sup>nd</sup> or 3<sup>rd</sup> degree heart block or profound bradycardia

### **Adult Dosages:**

#### **Vfib/Pulseless Vtach:**

- 300 mg IV push, diluted in 20 ml NS
- Repeat dose of 150 mg IV push for recurrent episodes

#### **Wide complex tachycardia:**

- 150 mg in 100 ml D5W over 10 minutes

### **Pediatric Dosages:**

#### **Vfib/Pulseless Vtach:**

- 5 mg/kg IV/IO push over 5 minutes, diluted in 20 ml NS; may repeat one dose; Maximum dose 300 mg

#### **Wide complex tachycardia:**

- 5 mg/kg IV/IO in 100 ml D5W over 10 minutes
- Avoid in <6 month/**Pink**

*Use Trinity EMS Standardized Medication Delivery Table*

### **Side effects(Serious):**

- Severe bradycardia
- Torsades de pointes
- CHF
- Hypotension/shock

### **Common:**

- Tremor
- Ataxia
- Nausea/vomiting
- Dizziness
- Ventricular Tachycardia
- Bradycardia

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.



# ASPIRIN

## Trinity EMS Protocols:

- 2 – 08 Pulmonary Edema
- 3 – 05 Chest Pain/STEMI

## Indications:

- An antiplatelet drug for use in cardiac chest pain/stroke
- Analgesic, anti-inflammatory, and antipyretic effects

## Contraindications:

- Allergy or hypersensitivity
- NSAID-induced asthma or urticaria
- GI bleeding or coagulopathy

## Adult Dosages:

- 81 mg chewable (baby) Aspirin. Give 4 tablets equal to usual adult dosage and chew tablets
- 162-324 mg po chewed

## Pediatric Dosages:



## Side effects(Serious):

- Anaphylaxis
- Angioedema
- Bronchospasm
- Bleeding

## Common:

- Dyspepsia
- Nausea/vomiting
- Rash
- Dizziness

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.



# ATROPINE

## Trinity EMS Protocols:

- 2 – 07 Overdose/Toxicity
- 3 – 03 Bradycardia
- 4 – 04 Pediatric Bradycardia

## Indications:

- Anticholinergic drug used in bradycardias
- Antagonizes acetylcholine receptors in organophosphate poisonings

## Contraindications:

- Caution in asthma, paralytic ileus, myasthenia gravis, and the elderly

## Adult Dosages:

### **Bradycardia:**

- 0.5 mg - 1 mg IV/IO every 3-5 minutes up to 3 mg

### **Organophosphate:**

- 1 - 2 mg IM or IV/IO, otherwise per Medical Control
- In organophosphate toxicity, large doses may be required (> 10 mg)

## Pediatric Dosages:

*See color-coded list*

### **Bradycardia:**

- 0.02 mg/kg IV or IO (max 1 mg per dose)
- Minimum 0.1 mg per dose

### **Organophosphate:**

- 0.02 mg/kg IM or IV/IO (otherwise per Medical Control)

## Side effects:

- Severe bradycardia
- Headache
- Dry mouth
- Nausea

- Tachycardia
- Palpitations
- Ataxia
- Tremor

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.



# CALCIUM CHLORIDE

## Trinity EMS Protocols:

- 2 – 07 Overdose/Toxicity
- 3 – 03 Bradycardia
- 3 – 10 Pulseless Electrical Activity
- 4 – 04 Pediatric Bradycardia
- 5 – 04 Crush Syndrome

## Indications:

- Indicated for severe hyperkalemia and calcium channel blocker overdose

## Contraindications/Cautions:

- Digoxin toxicity
- Hypercalcemia
- Irritating to veins and toxic to tissue

## Adult Dosages:

- One amp (10 ml) or 1 gram IV/IO

## Pediatric Dosages:

*See color-coded list*

- 20 mg/kg IV/IO slowly

## Side effects(Serious):

- Arrhythmias
- Syncope
- Extravasation necrosis

## Common:

- Hypotension
- Bradycardia
- Vasodilation/flushing
- Dizziness
- Nausea

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.



# **DEXTROSE 25%**

## **GLUCOSE SOLUTION**

### **Trinity EMS Protocols:**

- 1 – 06 Behavioral
- 1 – 13 Universal Patient Care
- 2 – 03 Altered Mental Status
- 2 – 11 Vomiting & Diarrhea
- 3 – 11 Suspected Stroke
- 4 – 04 Pediatric Bradycardia
- 4 – 05 Pediatric Head Trauma
- 4 – 06 Pediatric Hypotension
- 4 – 08 Pediatric Pulseless Arrest
- 4 – 10 Pediatric Seizure
- 5 – 09 Hypothermia

### **Indications:**

- Use in unconscious/confused states or hypoglycemic states

### **Contraindications:**

- Intracranial hemorrhage
- Severe dehydration

### **Adult Dosages:**



### **Pediatric Dosages:**

*See color-coded list*

- 2-4 ml/kg IV or IO starting at low dose
- Repeat based on blood glucose results

### **Side effects:**

- Phlebitis and thrombosis
- Hyperglycemia
- Pulmonary edema

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.





# **DEXTROSE 50%**

## **GLUCOSE SOLUTION**

### **Trinity EMS Protocols:**

- 1 – 06 Behavioral
- 1 – 13 Universal Patient Care
- 2 – 03 Altered Mental Status
- 2 – 10 Seizure
- 2 – 11 Vomiting & Diarrhea
- 3 – 10 Pulseless Electrical Activity
- 3 – 11 Suspected Stroke
- 3 – 13 Syncope
- 4 – 02 Newly Born
- 4 – 03 Obstetrical Emergency
- 5 – 07 Head Trauma
- 5 – 09 Hypothermia

### **Indications:**

- Use in unconscious/confused states or hypoglycemia

### **Contraindications:**

- Intracranial hemorrhage
- Severe dehydration

### **Adult Dosages:**

- One amp or 25 grams IV bolus
- Repeat based on blood glucose results

### **Pediatric Dosages:**

- **D10** (one ml of **D50** with 4 ml **Normal Saline**) for treatment in Neonates <3 months/White

### **Side Effects:**

- Phlebitis and thrombosis
- Hyperglycemia
- Pulmonary edema

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.



# DIAZEPAM

## (Valium)

### Trinity EMS Protocols:

- 1 – 01 Airway, Adult
- 1 – 03 Airway, Pediatric
- 1 – 06 Behavioral
- 2 – 10 Seizure
- 3 – 02 Atrial Fibrillation
- 3 – 08 Induced Hypothermia
- 3 – 12 Supraventricular Tachycardia
- 3 – 16 Wide Complex Tachycardia
- 4 – 03 Obstetrical Emergency
- 4 – 10 Pediatric Seizures
- 4 – 11 Pediatric SVT

### Indications:

- Used for control of seizures, anxiety, alcohol withdrawal, and sedation

### Contraindications:

- Watch for respiratory depression and hypotension

### Adult Dosages:

- 2 - 10 mg IV/IO
- 5 - 10 mg PR
- May repeat every 5 minutes
- May be administered rectally
- Max dose 20 mg
- Recommended doses are 5 mg for seizures and 2 mg for sedation

### Pediatric Dosages:

- 0.2 mg/kg IV/IO
- 0.5 mg/kg PR
- May repeat every 5 minutes
- Maximum 3 doses

### Side effects:

- Drowsiness
- Ataxia
- Confusion
- Hypotension
- Bradycardia

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.



# **DIPHENHYDRAMINE**

## **(Benadryl)**

### **Trinity EMS Protocols:**

- 2 – 02 Allergic Reaction

### **Indications:**

- Antihistamine used in the treatment of allergic reactions and vertigo

### **Contraindications:**

- Infants < 3 months old
- Caution in the elderly and hypotensive states

### **Adult Dosages:**

- 25-50 mg IV/IM/PO

### **Pediatric Dosages:**

See color-coded list

- 1-2 mg/kg IV/IO/IM
- Do not give in infants <3 months
- Max dose 50 mg

### **Side effects:**

- |  |   |
|--|---|
| <ul style="list-style-type: none"><li>• Arrhythmias</li><li>• Seizures</li><li>• Drowsiness</li><li>• Dizziness</li><li>• Dry Mucous Membranes</li></ul> | <ul style="list-style-type: none"><li>• Urinary Retention</li><li>• Hypotension</li><li>• Palpitations</li><li>• Tachycardia</li><li>• Blurred Vision</li></ul> |
|--|---|

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.



# **DOPAMINE**

## **(Intropin)**

### **Trinity EMS Protocols:**

- 3 – 03 Bradycardia
- 3 – 07 Hypotension
- 3 – 09 Post-Resuscitation
- 3 – 10 Pulseless Electrical Activity (PEA)
- 4 – 06 Pediatric Hypotension

### **Indications:**

- A vasopressor used in shock or hypotensive states

### **Contraindications/Cautions:**

- Caution with MAO-inhibitors
- Caution with Peripheral Arterial Disease

### **Adult Dosages:**

- 2-20 micrograms/kg/min IV/IO titrated to keep BP systolic of >90 mmHg
- 2-20 micrograms/kg/min IV/IO titrated to maintain a mean arterial pressure (MAP) of 90-100 mmHg post-cardiac arrest
- Recommended doses are 5, 10 and 20 mcg/kg/min

### **Pediatric Dosages:**

*See color-coded list*

- 2-20 micrograms/kg/min IV/IO titrated to BP systolic appropriate for age

### **Side effects(Serious):**

- Anaphylaxis
- Asthma Exacerbation
- Extravasation Necrosis
- Gangrene

- Hypotension
- Tachycardia
- Headache
- Nausea/Vomiting
- Conduction Abnormalities
- Vasoconstriction

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.



# **DUODOTE**

## **(Atropine/Pralidoxime)**

### **Trinity EMS Protocols:**

- 2 – 07 Overdose/Toxicity

### **Indications:**

- Used in Organophosphorous insecticide/chemical nerve agent poisonings

### **Contraindications:**

- None if Life-threatening situation

### **Adult Dosages:**

- One Auto-Injector IM in mid-lateral thigh
- May administer up to three for severe symptoms

### **Pediatric Dosages:**

- One Auto-Injector IM in mid-lateral thigh for severe symptoms
- Use only for patients > 40 kg unless directed by Medical Control in nonlife threatening situations

### **Side effects(Serious):**

- Ataxia
- Delirium/Hallucinations
- Arrhythmias
- Syncope
- Laryngospasm
- Myocardial Infarction

### **Common:**

- Dry Mouth
- Confusion
- Headache
- Tachycardia
- Flushing
- Hypertension

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.



# DuoNeb®

## (Albuterol/Ipratropium)

### Trinity EMS Protocols:

- 2 – 09 Respiratory Distress
- 4 – 09 Pediatric Respiratory Distress

### Indications:

- Medication containing Albuterol and Ipratropium to assist patients with asthma and COPD
- Administer only **one treatment**, usually first, in patients with bronchospasm or obstructive lung disease

### Contraindications/Cautions:

- Hypersensitivity/Allergy to drug
- Age less than 1 year/12 months or less than 10 kg

### Adult Dosages:

- 3 mg Albuterol + 500 mcg Ipratropium per nebulizer treatment in 3 ml unit dose

### Pediatric Dosages:

- 3 mg Albuterol + 500 mcg Ipratropium per nebulizer treatment in 3 ml unit dose

### Side effects(Serious):

- Anaphylaxis
- Angioedema
- Laryngospasm
- Paradoxical Bronchospasm

### Common:

- Cough
- Dry Mouth
- Dizziness
- Rash/Urticaria

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.



# EPINEPHRINE

## 1:1,000

### Trinity EMS Protocols:

- 2 – 02 Allergic Reaction
- 2 – 09 Respiratory Distress
- 4 – 09 Pediatric Respiratory Distress

### Indications:

- Vasopressor used in allergic reactions, severe asthma, or anaphylaxis

### Contraindications/Cautions:

- Labor and Delivery
- Cardiac Disease
- Hypertension
- Elderly Patients

### Adult Dosages:

- 0.3 mg IM (if age <50 years)
- 0.15 mg IM (if age >50 years)
- **EpiPen** Auto-Injector (may repeat one time for severe symptoms)

#### **Nebulized Epinephrine**

- 2 mg (2ml) mixed with 1 ml of Normal Saline

### Pediatric Dosages:

*See color-coded list*

- 0.01 mg/kg IM
- Max dose 0.3 mg
- **EpiPen Jr** Auto-Injector for patients 15-33 kg (may repeat one time for severe symptoms)

#### **Nebulized Epinephrine**

- 2 mg (2ml) mixed with 1 ml of Normal Saline

### Side effects(Serious):

- Pulmonary Edema
- Arrhythmias
- Hypertension
- Angina
- Cerebral Hemorrhage
- Tissue Necrosis

### Common:

- Tachycardia
- Nausea/vomiting
- Sweating
- Dizziness
- Tremor
- Anxiety

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.



# **EPINEPHRINE**

## **1:10,000**

### **Trinity EMS Protocols:**

- 3 – 01 Asystole
- 3 – 10 Pulseless Electrical Activity
- 3 – 14 VFib/Pulseless VTach
- 4 – 04 Pediatric Bradycardia
- 4 – 08 Pediatric Pulseless Arrest

### **Indications:**

- Vasopressor used in cardiac arrest

### **Contraindications/Cautions:**

- Labor and Delivery
- Cardiac Disease
- Hypertension
- Elderly Patients

### **Adult Dosages:**

- 1 mg IV/IO (pulseless)
- May be repeated every 3-5 minutes

### **Pediatric Dosages:**

*See color-coded list*

- 0.01 mg/kg IV or IO
- Max dose 0.5 mg
- Repeat every 3-5 minutes until response observed

### **Side effects(Serious):**

- Pulmonary Edema
- Arrhythmias
- Hypertension
- Angina
- Cerebral Hemorrhage
- Tissue Necrosis

### **Common:**

- Tachycardia
- Nausea/vomiting
- Sweating
- Dizziness
- Tremor
- Anxiety

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.





# **ETOMIDATE**

## **(Amidate)**

### **Trinity EMS Protocols:**

- 3 – 08 Induced Hypothermia
- XX - Rapid sequence Intubation Procedure

### **Indications:**

- Hypnotic used in shivering patient being resuscitated from cardiac arrest
- Rapid Sequence Intubation (RSI)

### **Contraindications/Cautions:**

- Elderly patients

### **Adult Dosages:**

- 20 mg IV/IO

### **Pediatric Dosages:**

*Use Trinity EMS Standardized Medication Delivery Table*

- 0.3 mg/kg IV/IO up to max dose of 20 mg

### **Side effects:**

- Shock
- Transient Myoclonic Jerks
- Nausea/Vomiting
- Apnea

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.



# **FENTANYL**

## **(Sublimaze)**

### **Trinity EMS Protocols:**

- 1 – 09 Pain Control: Adult
- 1 – 10 Pain Control: Pediatric
- 2 – 08 Pulmonary Edema
- 3 – 02 Atrial Fibrillation
- 3 – 05 Chest Pain and STEMI
- 3 – 12 Supraventricular Tachycardia
- 3 – 16 Wide Complex Tachycardia

### **Indications:**

- Binds opioid receptors producing analgesia and sedation
- Rapid induction of pain relief

### **Contraindications/Cautions:**

- Elderly patients
- Hypotension

### **Adult Dosages:**

- 25-75 mcg IM/IV/IO bolus, then repeat 50 mcg IM/IV/IO every 10-12 minutes until a maximum of 200 mcg or clinical improvement
- 50-100 mcg IN/intranasal per Intranasal Medication Administration (may repeat x1)

### **Pediatric Dosages:**

*See color-coded list*

- 1 mcg/kg IM/IV/IO single bolus only
- 50 mcg maximum dose
- 2 mcg/kg intranasal **single dose** only

### **Side effects(Serious):**

- Respiratory Depression/Arrest
- Hypotension
- Bradycardia
- Laryngospasm
- Severe Muscle Rigidity
- Increased ICP
- Delirium

### **Common:**

- Somnolence
- Nausea/Vomiting
- Confusion
- Dizziness
- Euphoria
- Hallucinations
- Pruritus

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.



# GLUCAGON

## Trinity EMS Protocols:

- 1 – 06 Behavioral
- 1 – 13 Universal Patient Care
- 2 – 03 Altered Mental Status
- 2 – 10 Seizure
- 2 – 11 Vomiting & Diarrhea
- 3 – 03 Bradycardia
- 3 – 10 Pulseless Electrical Activity
- 3 – 11 Suspected Stroke
- 3 – 13 Syncope
- 4 – 03 Obstetrical Emergency
- 4 – 04 Pediatric Bradycardia
- 4 – 05 Pediatric Head Trauma
- 4 – 06 Pediatric Hypotension
- 4 – 10 Pediatric Seizure
- 5 – 07 Head Trauma
- 5 – 09 Hypothermia

## Indications:

- Drug acting to release glucose into blood stream by glycogen breakdown
- Use in patients with no IV access
- May be used for smooth muscle relaxation with food bolus
- Beta-blocker overdose

## Contraindications:

- Caution with insulinoma/pheochromocytoma/starvation

## Adult Dosages:

- 1-2 mg IM/IV/IO
- Follow up blood glucose determination in 15 minutes. If glucose <60, repeat dose

## Pediatric Dosages:

*See color-coded list*

- 0.03 mg/kg IV/IM up to 1 mg
- Follow up blood glucose determination in 15 minutes. If glucose <60, repeat dose

## Side effects:

- Nausea/Vomiting
- Urticaria/Rash

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.



# LIDOCAINE

## Trinity EMS Protocols:

- 3 – 15 VFib/Pulseless VT (Persistent)
- 3 – 16 Wide Complex Tachycardia
- 4 – 08 Pediatric Pulseless Arrest
- 5 – 07 Head Trauma
- X - *Intraosseous Procedure*

## Indications:

- Anesthetic used during invasive airway management that may reduce elevated intracranial pressures during procedures
- Injectable anesthetic used to reduce pain associated with pressure infusion of fluids into marrow space
- Antiarrhythmic (Class IB) which inhibits Na ion channels

## Contraindications/Cautions:

- Caution with WPW syndrome, Heart Block, CHF, Bradycardia or Shock

## Adult Dosages:

- 100 mg IV
- **RSI premedication:** 100 mg IV/IO
- **IO Anesthesia:** 10 - 20 mg IO slowly
- **Vtach/Persistent VT/VF:** 1 - 1.5 mg/kg IV/IO and may repeat 0.5 - 0.75 mg/kg after 5 minutes
- Maximum dose 3 mg/kg

## Pediatric Dosages:

*See color-coded drug list*

- **IO Anesthesia:** 0.2 mg/kg IO slowly
- **Vtach/Persistent VT/VF:** 1 - 1.5 mg/kg IV/IO and may repeat 0.5 - 0.75 mg/kg after 5 minutes
- Maximum dose 3 mg/kg

## Side effects(Serious):

- Seizures
- Heart Block
- Bradycardia
- Respiratory Arrest
- Status Asthmaticus

## Common:

- Confusion
- Hypotension
- Dizziness
- Nausea/Vomiting
- Agitation
- Hallucinations

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.



# LORAZEPAM

## (Ativan)

### Trinity EMS Protocols:

- 1 – 01 Airway, Adult
- 1 – 03 Airway, Pediatric
- 1 – 06 Behavioral
- 2 – 10 Seizure
- 3 – 02 Atrial Fibrillation
- 3 – 08 Induced Hypothermia
- 3 – 12 Supraventricular Tachycardia
- 3 – 16 Wide Complex Tachycardia
- 4 – 03 Obstetrical Emergency
- 4 – 10 Pediatric Seizure
- 4 – 11 Pediatric SVT

### Indications:

- Anxiolytic used for sedation and seizures
- Benzodiazepine
- May be given and effective IM

### Contraindications:

- May cause hypotension and respiratory depression

### Adult Dosages:

- 0.5 - 2 mg IV/IO
- 2 – 4 mg IM
- May repeat q 5 minutes for total of three doses

### Pediatric Dosages:

- 0.05-0.1 mg/kg IV/IO
- 0.1 mg/kg IM
- May repeat q 5 minutes for total of three doses

### Side effects(Serious):

- Respiratory Depression
- Hypotension
- Syncope
- Paradoxical CNS Stimulation

### Common:

- Sedation
- Dizziness
- Ataxia
- Confusion
- Dystonia

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.



# MAGNESIUM SULFATE

## Trinity EMS Protocols:

- 3 – 15 Ventricular Fibrillation/Ventricular Tachycardia (Persistent)
- 3 – 16 Wide Complex Tachycardia
- 4 – 03 Obstetrical Emergency

## Indications:

- Use in treating Torsades de Pointes/Polymorphic VT
- Treatment of Preeclampsia/Eclampsia

## Contraindications:

- Diabetic Coma or Heart Block

## Adult Dosages:

- **Cardiac dosing:** 1-2 gm IV/IO, may repeat after 5 minutes for persistent Polymorphic VT
- **Obstetrical Emergency:** 4 gm in 250 ml NS bag infused over 30 minutes

## Pediatric Dosages:

- **Cardiac dosing:** 25 – 50 mg/kg IV/IO, max 2 gm/dose, may repeat after 5 minutes for persistent Polymorphic VT

## Side effects(Serious):

- Cardiovascular Collapse
- Pulmonary Edema
- Respiratory Paralysis
- Hypothermia

## Common:

- Hypotension
- Flushing
- Drowsiness
- Diaphoresis
- Diminished reflexes

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.



# **METHYLPREDNISOLONE**

## **(Solumedrol)**

### **Trinity EMS Protocols:**

- 2 – 02 Allergic Reaction
- 2 – 09 Respiratory Distress

### **Indications:**

- Steroid used in respiratory distress and allergic reactions

### **Contraindications/Cautions:**

- Caution in severe active infections

### **Adult Dosages:**

- 125 mg IV/IO

### **Pediatric Dosages:**

*See color-coded drug list*

- 2 mg/kg IV/IO

### **Side effects:**

- Diaphoresis
- Nervousness
- Hypertension
- Hyperglycemia
- Urticaria

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.



# MIDAZOLAM

## (Versed)

### Trinity EMS Protocols:

- 1 – 01 Airway, Adult
- 1 – 03 Airway, Pediatric
- 1 – 06 Behavioral
- 2 – 10 Seizure
- 3 – 02 Atrial Fibrillation
- 3 – 08 Induced Hypothermia
- 3 – 12 Supraventricular Tachycardia
- 3 – 16 Wide Complex Tachycardia
- 4 – 03 Obstetrical Emergency
- 4 – 10 Pediatric Seizure
- 4 – 11 Pediatric SVT

### Indications:

- Used for sedation and to control seizures
- Quick-acting and may be given Intranasal or IM

### Contraindications:

- May cause significant *Respiratory Depression* and *Hypotension*

### Adult Dosages:

- 2-5 mg IV/IO slowly over 2-3 minutes. May slowly titrate dose up to 5 mg if needed. Usual total dose: 2-5 mg.
- 5 mg intranasal using atomizer. Usual total dose: 5 mg
- **IM dosage:** 5 mg

### Pediatric Dosages:

*Use Trinity EMS System Standardized Medication Delivery tables*

- 0.15 – 0.2 mg/kg IV/IO for seizures
- 0.05-0.1 mg/kg IV/IO slowly over 2-3 minutes (max 5 mg/dose) for sedation
- 0.2 mg/kg IM for seizures
- 0.2 mg/kg intra-nasal/IN for seizure control

### Side effects(Serious):

- Respiratory Depression/Apnea
- Hypotension
- Bradycardia

### Common:

- Nausea/Vomiting
- Amnesia
- Confusion

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.





# MORPHINE SULFATE

## Trinity EMS Protocols:

- 1 – 09 Pain Control: Adult
- 1 – 10 Pain Control: Pediatric
- 2 – 08 Pulmonary Edema
- 3 – 02 Atrial Fibrillation
- 3 – 05 Chest Pain and STEMI
- 3 – 08 Induced Hypothermia
- 3 – 12 Supraventricular Tachycardia
- 3 – 16 Wide Complex Tachycardia

## Indications:

- Narcotic pain relief
- Anti-anxiety

## Contraindications/Cautions:

- Avoid use if SBP <100
- Caution with CNS depression or Respiratory Compromise

## Adult Dosages:

- 2 - 6 mg IV/IO, repeat every 5-10 minutes until a max of 20 mg or clinical improvement
- 5 – 10 mg IM single dose only
- If the patient has suffered burns that require prolonged transport, maximum total dose is 40 mg

## Pediatric Dosages:

*See color-coded list*

- 0.1 mg/kg IV/IO(max 5 mg), may repeat after 5 minutes
- 0.2 mg/kg IM single dose only

## Side effects(Serious):

- Respiratory Depression/Apnea
- Hypotension
- Bradycardia
- Seizures

## Common:

- Somnolence
- Nausea/Vomiting
- Dizziness
- Pruritus
- Dysphoria/Euphoria

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.



# NALOXONE

## (Narcan)

**Trinity EMS Protocols:**

- 2 – 03 Altered Mental Status
- 2 – 07 Overdose/Toxicity
- 3 – 10 Pulseless Electrical Activity
- 4 – 02 Newly Born
- 4 – 04 Pediatric Bradycardia
- 5 – 07 Head Trauma
- 5 – 09 Hypothermia

**Indications:**

- Narcotic antagonist
- Anticipate rapid withdrawal or agitation after administration

**Contraindications:**

- *Anticipate rapid withdrawal, delirium, or agitation after administration*
- Use with caution in chronic pain/chronic opiate usage(i.e. cancer, hospice)

**Adult Dosages:**

- 0.4 - 2 mg IV/IO bolus titrated to patient's respiratory response
- May be given IM or IN if unable to establish IV in a known or suspected narcotic overdose
- The lowest dose required for patient to protect their airway should be utilized
- Dosing may be repeated at 5 minute intervals without maximum as necessary to maintain protection of the airway

**Pediatric Dosages:**

*See color-coded list*

- 0.1 mg/kg IV or IO (max 2 mg)
- May be given IM or IN if unable to establish IV or IO in a known or suspected narcotic overdose
- The lowest dose required for patient to protect their airway should be utilized
- Dosing may be repeated at 5 minute intervals without maximum as necessary to maintain protection of the airway

**Side effects:**

- Cardiac Arrest
- Seizures
- Tachycardia
- Hypertension
- Nausea/Vomiting
- Withdrawal from Opiates
- Diaphoresis

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.



# NITROGLYCERIN

## (Nitrostat)

### Trinity EMS Protocols:

- 2 – 08 Pulmonary Edema
- 3 – 05 Chest Pain and STEMI
- 3 – 06 Hypertension

### Indications:

- Vasodilator used in anginal syndromes, CHF, and hypertension

### Contraindications/Cautions:

- Do not use in those **<30 years old without** a history of heart disease with Chest Pain and SBP <180
- Avoid with increased ICP, Erectile Dysfunction medications, or hypotension

### Adult Dosages:

#### **Chest Pain**

- 1 tablet 0.4 mg SL every 5 minutes until pain free or 3 doses
- If SBP <100, contact Medical Control before administration

#### **Pulmonary Edema**

- 1 tablet SL every 1-2 minutes if BP >110 systolic
- If SBP <100, contact Medical Control before administration
- MAP should not be decreased more than 30%

#### **Hypertension**

- 1 tablet SL every 1-2 minutes until Diastolic BP <110
- MAP should not be decreased more than 30%

### Pediatric Dosages:



### Side effects:

- Hypotension
- Headache
- Flushing
- Tachycardia
- Dizziness/Lightheaded

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.



# NORMAL SALINE

## Trinity EMS Protocols:

- 1 – 05 Back Pain
- 1 – 07 Fever/Infection control
- 2 – 01 Abdominal Pain
- 2 – 03 Altered Mental Status
- 2 – 06 Epistaxis
- 2 – 11 Vomiting & Diarrhea
- 3 – 02 Atrial Fibrillation
- 3 – 03 Bradycardia
- 3 – 07 Hypotension
- 3 – 09 Post-Resuscitation
- 3 – 10 Pulseless Electrical Activity
- 4 – 02 Newly Born
- 4 – 03 Obstetrical Emergencies
- 4 – 04 Pediatric Bradycardia
- 4 – 06 Pediatric Hypotension
- 4 – 07 Pediatric Multiple Trauma
- 5 – 02 Burns: Chemical & Electrical
- 5 – 03 Burns: Thermal
- 5 – 04 Crush Syndrome
- 5 – 08 Hyperthermia
- 5 – 10 Multi-System Trauma
- 5 – 12 Traumatic Arrest

## Indications:

- The IV fluid of choice for access or volume infusion

## Contraindications/Cautions:

- Caution in fluid overloaded states(i.e. CHF, Renal Failure, Cirrhosis)

## Adult Dosages:

- KVO for IV access
- Bolus in 250 - 500 ml for cardiac care
- Bolus in 500 - 1000 ml for volume infusions
- Bolus in 1000 ml amount for burns or electrical injuries. See **Burn Protocol** or Reference Materials for IV rates

## Pediatric Dosages:

*See color-coded list*

- KVO for IV or IO access
- Bolus in 20 ml/kg for volume (may be repeated x3)
- See **Burn Protocol** or Reference Materials for IV rates

## Side effects:

- Fluid Overload(Edema, CHF)

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.



# **ONDANSETRON**

## **(Zofran)**

### **Trinity EMS Protocols:**

- 2 – 01 Abdominal Pain
- 2 – 11 Vomiting & Diarrhea
- 3 – 05 Chest Pain and STEMI

### **Indications:**

- Anti-emetic used to control nausea and/or vomiting
- Ondansetron is the recommended anti-emetic for EMS since it is associated with significantly fewer side effects and sedation

### **Contraindications/Cautions:**

- Caution with Prolonged QT

### **Adult Dosages:**

- 2 - 4 mg IV/IO
- 4 mg ODT po

### **Pediatric Dosages:**

- 0.15 mg/kg IV/IO (max 4 mg) for ages >1 year

### **Side effects:**

- QT prolongation
- Torsades de Pointes
- Urinary Retention
- Dizziness
- Extrapyrimaldal Symptoms

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.



# OXYGEN

## **Trinity EMS Protocols:**

- 1 – 01 Airway, Adult
- 1 – 02 Airway, Adult- Failed
- 1 – 03 Airway, Pediatric
- 1 – 04 Airway, Pediatric- Failed
- 1 – 13 Universal Patient Care
- 3 – 09 Post-Resuscitation
- 4 – 02 Newly Born
- 4 – 09 Pediatric Respiratory Distress
- 5 – 04 Crush Syndrome

## **Indications:**

- Useful in any condition with increased cardiac work load, respiratory distress, or illness or injury resulting in altered ventilation and/or perfusion
- Required for pre-oxygenation whenever possible prior to intubation
- Ideal oxygen saturations are 94-99%

## **Contraindications:**

- Avoid excessive oxygenation in newborns and COPD

## **Adult Dosages:**

- 1 - 4 liters/min via nasal cannula
- 6 - 15 liters/min by NRB mask
- 10 - 15 liters/min via BVM (sufficient to allow reservoir bag to completely refill during ventilations)

## **Pediatric Dosages:**

- 1 - 4 liters/min via nasal cannula
- 6 - 16 liters/min per NRB mask
- 10 - 15 liters/min via BVM (sufficient to allow reservoir bag to completely refill between ventilations)

## **Side effects:**

- Bradypnea/Decreased Respiratory Drive
- Nausea
- Euphoria/Dysphoria

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.



# **ROCURONIUM**

## **(Zemuron)**

### **Trinity EMS Protocols:**

- 3 – 08 Induced Hypothermia
- XX - Rapid Sequence Intubation Procedure

### **Indications:**

- Non-depolarizing paralytic agent used in RSI or Induced Hypothermia

### **Contraindications:**

- Avoid in patient with chronic neuromuscular disease

### **Adult Dosages:**

- 0.6 - 1.2 mg/kg IV/IO to a max of 100 mg. IF inadequate relaxation after 5 minutes, may repeat dose
- May refer to **Trinity EMS System Standardized Medication Delivery Table**
- **Onset <1 minute**
- **Duration ~45 minutes**

### **Pediatric Dosages:**

- 0.6 - 1 mg/kg IV/IO to a max of 100mg
- *Only for use in RSI for ages  $\geq 9$  yo*

### **Side effects:**

- Prolonged Paralysis
- Apnea
- Bronchospasm
- Arrhythmias
- Hypotension, transient

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.



# SODIUM BICARBONATE

## Trinity EMS Protocols:

- 2 – 07 Overdose/Toxicity
- 3 – 10 Pulseless Electrical Activity (PEA)
- 3 – 14 Ventricular Fibrillation/Pulseless Ventricular Tachycardia
- 5 – 04 Crush Syndrome

## Indications:

- A buffer used in acidosis to increase the pH in cardiac arrest, hyperkalemia, or overdoses

## Contraindications:

- Caution in known alkalosis

## Adult Dosages:

- One amp (50 mEq) IV/IO
- May repeat every 5 minutes for maximum of three doses

## Pediatric Dosages:

*See color-coded drug list*

- 1 mEq/kg IV/IO
- May repeat every 5 minutes for a maximum of three doses

## Side effects:

- Seizures
- Tetany
- Extravasation cellulitis
- Edema
- Phlebitis

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.





# SUCCINYLCHOLINE

## Trinity EMS Protocols:

- XX - Rapid Sequence Intubation

## Indications:

- Depolarizing paralytic for Medication Assisted/ Rapid Sequence Intubations

## Contraindications:

- Avoid in states of hyperkalemia, burns older than 24 hours, muscular dystrophies, dialysis patients

## Adult Dosages:

- 1.5 mg/kg IV/IO
- 1.5 mg/kg IM (onset of action may be delayed)
- **May refer to Trinity Ems System Standardized Medication Delivery Table**

## Pediatric Dosages:

*See color-coded list*

- 1-2 mg/kg IV/IO
- Consider administration of atropine to blunt bradycardia with intubation in pediatric population
- RSI only in ages >8 years

## Side effects:

- Prolonged Paralysis
- Apnea
- Arrhythmias
- Muscle Fasciculations
- ICP elevation

THIS FORMULARY IS PROVIDED AS A REFERENCE ONLY. IT DOES NOT CONTAIN ALL OF THE CONTRAINDICATIONS AND POTENTIAL ADVERSE REACTIONS FOR EACH DRUG LISTED. IT IS THE RESPONSIBILITY OF EACH EMS AGENCY TO ASSURE THAT EACH EMS PROFESSIONAL IS KNOWLEDGEABLE ABOUT THE USE OF THIS FORMULARY.