

Acetylsalicylic Acid

Other Names:	Aspirin
Class:	Anti-platelet, NSAID, antipyretic
Indications:	Signs and /or symptoms of acute coronary Syndrome
Contraindications:	Allergies to Aspirin; patient has taken Aspirin Just prior to EMS arrival
Precautions/ADR:	None
Suggested dosage	
Adult:	<input checked="" type="radio"/> 81-324 mg PO chewed
Pediatric:	<input checked="" type="radio"/> Not indicated
Notes:	

Activated Charcoal

Other Names:	Actidose
Class:	Antidote
Indications:	Treatment of a patient who has ingested Poisons by mouth, when recommended by the Washington Poison Center or Medical Control
Contraindications:	Relative (without NG tube): Absent gag, Unconscious patient, potential sedation from suspected overdose
Precautions/ADR:	Does not absorb iron, lithium, inorganic ions Ethanol, methanol, or cyanide
Suggested dosage	
Adult:	<input checked="" type="radio"/> 50 g PO/NG
Pediatric:	<input checked="" type="radio"/> Less than 12 y/o: 1 g/kg
Notes:	

Adenosine

Other Names:	Adenocard
Class:	Anti-dysrhythmic
Indications:	Narrow Complex SVT
Contraindications:	Wide complex tachycardia, second and third-Degree heart blocks, sick sinus syndrome; Caution in patients with asthma and COPD.
Precautions/ADR:	Severe bradycardia, VF, VT, afib, asystole, Complete heart block, bronchospasm.
Suggested dosage	
Adult:	● 6 mg rapid IV bolus followed by 10 cc NaCl flush; repeat twice as needed at 12 mg doses.
Pediatric:	● 0.1 mg/kg (NTE 6mg) repeat twice as needed at 0.2 mg/kg (NTE 12mg)
Notes:	

Albuterol

Other Names:	Proventil, Ventolin
Class:	Adrenergic beta-2 agonist
Indications:	Treatment of moderate to severe bronchospasm. Signs and symptoms of hyperkalemia.
Contraindications:	None
Precautions/ADR:	Arrhythmias, tachycardia, chest discomfort
Suggested dosage	

Adult: ● Nebulized initial dose – 2.5 mg PRN
Nebulized – 5mg added to 1 ml of sterile saline for hyperkalemia

Pediatric: ● Nebulized – 2.5 mg in 2.5 ml sterile saline if less than 2 y/o; otherwise use adult dose

Notes:

● Basic EMT's are allowed to assist with metered dose inhaler if the patient is prescribed one. The use of Albuterol for hyperkalemia is an ALS treatment and should be done with continuous cardiac monitoring.

Amiodarone

Other Names:	Cordarone
Class:	Anti-dysrhythmic
Indications:	For patients with VF or VT
Contraindications:	Second and third-degree AV block
Precautions:	None
Suggested dosage	
Adult:	<ul style="list-style-type: none">● 300 mg IV push for pulseless VT/VF● 150 mg IV over 10 min with IV pump
Pediatric:	● Contraindicated

Notes:

Atropine

Other Names:	Generic
Class:	Anticholinergic parasympatholytic
Indications:	Symptomatic bradycardia. Organophosphate Poisoning. Cholinergic poisoning (e.g. mushrooms)
Contraindications:	HR: greater than 180
Precautions/ADR:	Tachycardia, nausea, ventricular ectopy
Suggested dosage	
Adult:	● Bradycardia – 0.5-1 mg IV q 3-5 min up to 0.04 mg/kg or 3 mg. See organophosphate Poisoning/ Cholinergic poisoning protocol.
Pediatric:	● 0.02 mg/kg (minimum 0.1 mg) may repeat once. Refer to length base resuscitation tape

Notes:

Dextrose 50%

Other Names:	D ₅₀ W
Class:	Caloric
Indications:	Symptomatic hypoglycemia
Contraindications:	Hyperglycemia. Delirium tremens.
Precautions/ADR:	Pre-treat hypoglycemic alcoholic patients with Thiamine (ALS only)

Suggested dosage

- Adult: ● 25 g 50 % solution IVP. May be titrated. Repeat if Blood glucose remains less than 60 mg/dl
- Pediatric: ● 1 g/kg 25% solution IVP (1:1 D₅₀W:NS)
1 g/kg 10% solution IVP (1:4 D₅₀W:NS) for Neonate

Notes:

Diphenhydramine

Other Names:	Benadryl®
Class:	Antihistamine
Indications:	Anaphylaxis. Allergic RXN. Dystonia. Akathisia Caused by droperidol
Contraindications:	Anticholinergic poisoning
Precautions/ADR:	Drowsiness, dilated pupils, tinnitus, dry mouth
Suggested dosage	
Adult:	● 25-50 mg IV or IM
Pediatric:	● 1 mg/kg IV or IM NTE 25 mg

Notes:

Dopamine

Other Names:	Generic
Class:	Vasopressor. Catecholamine neurotransmitter
Indications:	Cardiogenic shock. Other non-hypovolemic Shock. Bradycardia with serious S/S
Contraindications:	VF, tachy-dysrhythmias, Pheochromocytoma
Precautions/ADR:	May cause ischemia in patients with peripheral Vascular disease.
Suggested dosage	
Adult:	<ul style="list-style-type: none">● prepare by mixing 400 mg in 250 ml NS2-20 mcg/kg/min titrated until SBP 90 or greater2-5 mcg/kg/min- renal dose5-10 mcg/kg/min- cardiac dose (inotrope)10-20 mcg/kg/min- vasopressor dose
Pediatric:	● 5-20 mcg/kg/min

Notes:

Epinephrine

Other Names:	Adrenalin®
Class:	Adrenergic
Indications:	1:1,000- respiratory distress or shock due to Anaphylaxis. Profound bradycardia. Severe Bronchospasm. Allergic RXN 1:10,000- Asystole, PEA, VF, pulseless VT, Pediatric bradycardia Croup
Contraindications:	None
Precautions/ADR:	May cause cardiac ischemia in the elderly or Patients with known cardiac disease
Suggested dosage	
Adult:	<ul style="list-style-type: none">● Cardiac arrest: IV, IO 1:10,000 1 mg q 3-5 min● Anaphylaxis/Allergic RXN: IM,SQ 1:1,000 0.3-0.5mg or Epi-Pen® (0.3mg)● Bradycardia: Drip 2-10 mcg/min (1 mg in 250ml NS = 4 mcg/ml)● Severe Bronchospasm: IM, SQ 1:1,000 0.3-0.5mg
Pediatric:	<ul style="list-style-type: none">● Cardiac arrest/bradycardia: IV 1:10,000 0.01 mg/kg (refer to Resuscitation tape)● Epi Pen Jr.® (0.15 mg)● Racemic Epinephrine: 0.3-0.5 cc in NS nebulized

Fentanyl Citrate

Other Names:	Generic
Class:	Narcotic analgesic
Indications:	Severe pain
Contraindications:	Altered LOC in the setting of head injury
Precautions/ADR:	Consider lower doses in patients with evidence Of alcohol use, elderly, or chronically ill patients
Suggested dosage	
Adult:	● 0.05-0.1 mcg/kg (50-100 mcg) IV,IO,IM,IN q 3-5min Max dose 300mcg
Pediatric:	● 1 mcg/kg IV,IO,IM,IN consult with medical control For repeat doses.
Notes:	

Furosemide

- Other Names: Lasix®
- Class: Loop diuretic
- Indications: CHF. Pulmonary edema.
- Contraindications: hypotension, patients with allergies to Sulfonamides.
- Precautions/ADR: Efficiency goes down in patients with renal failure
- Suggested dosage
- Adult: ● 40mg IV or twice the patient's daily dose
 - Pediatric: ● Refer to length-based resuscitation tape
- Notes:

Glucagon

Other Names:	Generic
Class:	Endocrine
Indications:	Hypoglycemia with an inability to establish IV access. Ca++ blocker toxicity and Beta blocker Toxicity call medical control for dosing
Contraindications:	None
Precautions/ADR:	Short half life, hypoglycemia may return.
Suggested dosage	
Adult:	<input checked="" type="radio"/> 1.0 mg IM,SQ
Pediatric:	<input checked="" type="radio"/> 0.1 mg/kg IM,SQ
Notes:	

Glucose

Other Names:	Glucose [®] , Insta-glucose [®]
Class:	Caloric
Indications:	Patient with an altered mental status and a Known history of diabetes
Contraindications:	Unconscious patients, or unable to swallow
Precautions/ADR:	Use caution to prevent aspiration
Suggested dosage	

Adult: 1 tube

Pediatric: 1 tube

Notes:

Ask the patient to swallow before administration to make sure they are capable.

Haloperidol

Other Names:	Hadol®
Class:	Antipsychotic
Indications:	Sedation of combative or violent patients
Contraindications:	Known ingestion of CNS depressants
Precautions/ADR:	May cause QT prolongation, extrapyramidal side Effects, muscle stiffness, akathisia.

Suggested dosage

Adult: 5-10 mg IV,IM

Pediatric: Not indicated

Notes:

Ipratropium Bromide

Other Names:	Atrovent
Class:	Anticholinergic. Blocks the muscarinic Acetylcholine receptors in the smooth Muscles of the bronchi in the lungs
Indications:	Initial treatment of moderate to severe Bronchospasm administered with albuterol
Contraindications:	None
Precautions/ADR:	Arrhythmias, tachycardia, chest discomfort
Suggested dosage	
Adult:	● 2.5 mg Albuterol with 0.5 mg Ipratropium
Pediatric:	● 2.5 mg Albuterol in 2.5 ml sterile saline with 0.25 mg Ipratropium. If greater than 2 y/o; use adult dose
Notes:	

Lidocaine 1%

Other Names: Xylocaine®

Class: Local anesthetic

Indications: Prior to IV access (optional)

Contraindications: None

Precautions/ADR: Weigh time loss VS benefit

Suggested dosage

Adult: ● Max dose 5mg/kg SQ

Notes:

Lidocaine 2%

Other Names:	Xylocaine®
Class:	Anti-dysrhythmic
Indications:	Pulseless VF/VT, stable VT, frequent PVC's, After I.O insertion for awake patients.
Contraindications:	Narrow complex SVT, heart block, WPW, A-Fib W/ RVR.
Precautions/ADR:	
Suggested dosage	
Adult:	<ul style="list-style-type: none">● 1.0-1.5mg/kg IV,IO q 5-10 min max 3 mg/kg● Maintenance drip 2 – 4 mg/min● 20-50 mg IO before NaCl flush for awake I.O
Pediatric:	<ul style="list-style-type: none">● 1.0 mg/kg IV● Refer to length based resuscitation tape
Notes:	

Lorazepam

Other Names: Ativan®

Class: Benzodiazepine

Indications: Seizure. Sedation. Anxiety.

Contraindications: Myasthenia gravis

Precautions/ADR: May cause hypotension

Suggested dosage

Adult: ● 1-2 mg IV,IM,IO,IN diluted 1:1 with NS q 3-5 min

Pediatric: ● 0.1 mg/kg NTE adult dose

Notes:

Magnesium Sulfate

Other Names:	Generic
Class:	Anticonvulsant, mineral
Indications:	Eclampsia, Torsades des Points, Hypomagnesemia refractory VF,VT
Contraindications:	Renal impairment, heart block, patients treated With paralytic agents
Precautions/ADR:	Will lower calcium, observe for hypotension, Loss of DTR's, paralysis, and CNS depression, Pulmonary edema
Suggested dosage	
Adult:	<ul style="list-style-type: none">● Eclampsia: 1-4 g over 5 minutes● Torsades des Points: 1-2 g over 5 min● Cardiac arrest: 2 g IVP if know hypomagnesemia
Pediatric:	● Not indicated
Notes:	

Midazolam

Other Names:	Versed®
Class:	benzodiazepine
Indications:	Seizures. Sedation. Sedation prior to RSI
Contraindications:	None in the emergent setting
Precautions/ADR:	Respiratory depression, hypotension, alcohol, Other benzodiazepines, may potentiate the Effects of narcotics

Suggested dosage

Adult: ● Sedation 1-3 mg IV,IO,IM,IN

Induction 0.1-0.3mg/kg

Pediatric: ● 0.05-0.1 mg/kg IV,IO,IM,IN

Notes: Consider Lower dose in elderly population.

Morphine Sulfate

Other Names: Generic

Class: Narcotic analgesic

Indications: Severe pain. MI

Contraindications: Hypotension. Allergy.

Precautions/ADR: May cause hypotension

Suggested dosage

Adult: ● 2-5 mg IV,IM,IO,SQ q 5 min max 10 mg

Pediatric: ● 0.1-0.2 mg/kg IV,IM,IO,SQ

Notes:

Naloxone

Other Names: Narcan®

Class: Narcotic antagonist

Indications: Narcotic overdose

Contraindications: Neonate with possible drug dependence

Precautions/ADR: May cause nausea

Suggested dosage

Adult: ● 0.4-2.0 mg titrated IV,IO,IM,IN,ET

Pediatric: ● 0.1 mg/kg NTE adult dose

Notes:

Nitroglycerin

Other Names:	Nitrotab [®] , Nitrostat [®] , Tridill [®]
Class:	Vasodilator, anti-anginal
Indications:	Chest discomfort from ACS. Hypertensive pulmonary edema. CHF.
Contraindications:	Patients taking phosphodiesterase inhibitors (e.g. Viagra, cialis, or levitra in the past 48 hrs) SBP less than 100
Precautions/ADR:	Hypotension, headache.
Suggested dosage	
Adult:	<ul style="list-style-type: none">● 0.4 mg SL q 3-5 min max 3 doses (tables or spray)● Drip 2-10 mcg/min titrated to pain after SL nitro
Pediatric:	● Not indicated for pediatric patients

Notes:

Ondansetron

Other Names:	Zofran®
Class:	Anti-emetic
Indications:	Nausea. Vomiting.
Contraindications:	Medication allergy
Precautions/ADR:	Caution in liver dysfunction
Suggested dosage	
Adult:	<input checked="" type="radio"/> 4-8 mg IV, SL PRN
Pediatric:	<input checked="" type="radio"/> 0.1 mg/kg IV max 4 mg
Notes:	

Oxymetazoline Hydrochloride

Other Names:	Afrin®
Class:	Selective alpha-1 agonist, vasoconstrictor
Indications:	Prior to nasal intubation. Epistaxis
Contraindications:	
Precautions/ADR:	Hypertensive patients
Suggested dosage	
Adult:	<input checked="" type="radio"/> 1-2 sprays each nostril
Pediatric:	<input checked="" type="radio"/> not indicated
Notes:	

Rocuronium Bromide

Other Names:	Zemuron®
Class:	non-depolarizing neuromuscular
Indications:	May be given after Succinylcholine to maintain Paralysis of an intubated patient.
Contraindications:	Myasthenia gravis
Precautions/ADR:	Provide adequate prior to use.
Suggested dosage	
Adult:	● 0.6-1.2 mg/kg of ideal body weight IV may repeat one time.
Pediatric:	● 0.6 mg/kg IV
Notes:	Duration of action 30-60min

Sodium Bicarbonate

Other Names:	Generic
Class:	Electrolyte (base)
Indications:	Tricyclic antidepressant overdose. Diphenhydramine overdose. May be Indicated for dialysis patients in cardiac arrest To treat hyperkalemia. Metabolic acidosis. Hyperkalemia: use with albuterol and contact Medical control
Contraindications:	Hypertension, hypertensive pulmonary edema
Precautions/ADR:	None
Suggested dosage	
Adult:	● 1 mEq/kg IV
Pediatric:	● Refer to length based resuscitation tape
Notes:	

Succinylcholine

Other Names:	Anectine [®] , Quelicin [®]
Class:	Depolarizing neuromuscular blocker
Indications:	Intubation in patients with intact gag reflex Or whose degree of pharyngeal muscle tone Prevents intubation
Contraindications:	Known Hyperkalemia, history of malignant Hyperthermia, narrow angle glaucoma
Precautions/ADR:	anticipated difficult airway, Neuromuscular Disorders (e.g. myasthenia gravis, muscular Dystrophy, stroke, paraplegia, quadriplegia, Burns greater than 48 hrs post incident)
Suggested dosage	
Adult:	● 1-2 mg/kg IV
Pediatric:	● 1-2 mg/kg IV
Notes:	

Thiamine

Other Names:	Vitiman B1
Class:	Vitamin
Indications:	Hypoglycemic patients with a history of Alcoholism; given prior to dextrose. Thiamine Deficiency
Contraindications:	None
Precautions/ADR:	None
Suggested dosage	
Adult:	<input checked="" type="radio"/> 50-100 mg IV,IM
Pediatric:	<input checked="" type="radio"/> Not indicated
Notes:	