

Drug Listing

ADENOSINE (ADENOCARD)

EMT-I, EMT-P

Medical Command for Pediatrics

This drug will be given after carotid sinus massage on patients under 50 years old, or after Valsalva maneuver on patients 50 and older.

INDICATIONS

Supraventricular tachycardia (SVT)

CONTRAINDICATIONS

Atrial fibrillation, atrial flutter or ventricular arrhythmias including ventricular tachycardia, 2nd and 3rd degree heart blocks, or sick sinus syndrome

EFFECTS

Slows conduction through the AV node

SIDE EFFECTS

Bradycardia, hypotension, facial flushing, transient dyspnea, chest pressure, headache, nausea, or bronchospasm
Expect an asystolic/bradycardic period.
Do not treat for 1 minute

HOW SUPPLIED

6 mg/2 ml

QUANTITY

3

DOSAGE AND ROUTE

6 mg IV **rapidly** over 1-2 seconds. If no effect after 2 minutes, give 12 mg IV **rapidly** over 1-2 seconds.

Pediatric: 0.1 mg/kg

ALBUTEROL (PROVENTIL)

EMT-J, EMT-E, EMT-I, EMT-P, Park Medic

INDICATIONS

Bronchospasm related to asthma, chronic bronchitis & emphysema

CONTRAINDICATIONS

Tachydysrhythmias

EFFECTS

Bronchodilation

SIDE EFFECTS

Tachycardia, anxiety, nausea & vomiting

HOW SUPPLIED

2.5 mg/3ml

QUANTITY

4

DOSAGE & ROUTE

1 unit dose of 2.5 mg/3ml through hand-held nebulizer with oxygen flow at 4-6 liters. May repeat if necessary. A modified nebulizer may be used with a BVM or a simple facemask.

Drug Listing (continued)

AMIODARONE
(Cordarone)

EMT-I, EMT-P

INDICATIONS

Used for treatment of arrhythmias including ventricular tachycardia, ventricular fibrillation, and supra-ventricular arrhythmia

CONTRAINDICATIONS

None in cardiac arrest situations; bradycardia, heart block, hypotension, pregnancy

EFFECTS

Antiarrhythmic, several different effects, primarily beta-blockade acutely

SIDE EFFECTS

Hypotension, bradycardia, increased heart block

HOW SUPPLIED

(3) 150 mg vials

DOSEAGE & ROUTE

Cardiac arrest situations, 300 mg IV push.
Unstable arrhythmias, 150 mg IV over 10 minutes as an infusion, may be repeated once if needed for recurrent arrhythmia

ASPIRIN

All Levels

INDICATIONS

Chest pain of suspected cardiac origin

CONTRAINDICATIONS

Trauma, bleeding, on blood thinners

EFFECTS

Inhibits the formation of blood clots

SIDE EFFECTS

None

HOW SUPPLIED

81 mg chewable tabs

QUANTITY

1 bottle

DOSAGE & ROUTE

2 - 81 mg tabs chewed after first Nitroglycerin

Drug Listing (continued)

ATROPINE SULFATE

EMT-I, EMT-P

INDICATIONS

Bradycardia with hypotension, asystole;
organophosphate poisoning

CONTRAINDICATIONS

Glaucoma; use caution in AMI.

EFFECTS

Increased heart rate

SIDE EFFECTS

Blurred vision, headache, dilated pupils, thirst, flushed skin, dysuria

HOW SUPPLIED

1 mg/10 ml

QUANTITY

6

DOSAGE & ROUTE

Bradycardia: 1 mg IV
Asystole: 1 mg IV or 2 mg ET

Pediatric: 0.02 mg/kg (Minimum dose 0.1 mg)
Organophosphate poisoning: 2 mg IV every 5-10 min
(0.05 mg/kg child).

CALCIUM CHLORIDE 10% Medical Command only

EMT-I, EMT-P

INDICATIONS

Used for Calcium blocker toxicity, Hypermagnesemia

CONTRAINDICATIONS

VF, digitalis toxicity, hypercalcemia

EFFECTS

Electrolyte

SIDE EFFECTS

Extravasation causes necrosis, Dysrhythmias,
hypotension, CNS changes

HOW SUPPLIED

1 gm/ 10 mL

QUANTITY

1

DOSAGE & ROUTE

20mg/kg slow IV

Pediatric: 10 mg/kg IV or IO slowly

Drug Listing (continued)

50% DEXTROSE
(D50)

EMT-E, EMT-I, EMT-P, Park Medic

INDICATIONS

Unconscious diabetics; altered level of consciousness;
seizures

CONTRAINDICATIONS

Known intracranial hemorrhage

EFFECTS

Increases blood sugar

SIDE EFFECTS

Rare, neurologic symptoms in alcoholics; tissue necrosis
if extravasation

HOW SUPPLIED

25 gm/50 ml

QUANTITY

2

DOSAGE & ROUTE

25 gm bolus in free flowing IV

Pediatric: .5 gm/kg. See dilution on Pediatric: Glucose
Emergencies

DIAZEPAM
(Valium)

EMT-I, EMT-P

INDICATIONS

Status epilepticus, severe emotional tension

CONTRAINDICATIONS

Pregnancy

EFFECTS

CNS depressant

SIDE EFFECTS

Hypotension, stupor, respiratory and/or cardiac arrest

HOW SUPPLIED

10 mg/2mL

QUANTITY

1

DOSAGE & ROUTE

2.5 – 5 mg slow IV
Pediatric: 0.1 mg/kg

Drug Listing (continued)

DIPHENHYDRAMINE HCL
(BENADRYL)

EMT-J, EMT-E, EMT-I, EMT-P, Park Medic

INDICATIONS

Anaphylaxis; allergic reactions; dystonic reaction

CONTRAINDICATIONS

Asthma, nursing mothers

EFFECTS

Block histamine effects; antiemetic; sedative; to reverse side effects of phenothiazines

SIDE EFFECTS

Hypotension, headache, tachycardia, and sedation

HOW SUPPLIED

50 mg/ml

QUANTITY

2

DOSAGE & ROUTE

25-50 mg IV or deep IM.

Pediatric: 1.0 mg/kg slow IV push (over 2 minutes)
maximum dose of 50 mg for hives, allergic reaction.

DOPAMINE HCL
(INOTROPIN)

Medical Command only

EMT-I, EMT-P

INDICATIONS

Cardiogenic & septic shock

CONTRAINDICATIONS

Use only after volume deficit is corrected in cardiogenic & septic shock

EFFECTS

Increases heart rate & force; increases urine output;
constricts small blood vessels

SIDE EFFECTS

Ventricular tachyarrhythmias, hypertension

HOW SUPPLIED

200 mg/5 ml

QUANTITY

1

DOSAGE & ROUTE

Drip only: 200 mg in 250 ml D5W. Start at 2 to 5
micrograms/kg/min (or approx 10-20 micro drops/min)
titrated to BP.

Quick calculation: drops/min = kg x micrograms/kg/min x .075

Drug Listing (continued)

EPINEPHRINE 1:1000
(ADRENALIN)

EMT-J, EMT-E, EMT-I, EMT-P, Park Medic

INDICATIONS

Anaphylaxis; asthma that is unresponsive to Albuterol;
severe asthma

CONTRAINDICATIONS

None in anaphylaxis. Do not give: If over the age of 50 yrs with cardiac history; if pulse is greater than 140/min in adult or 180/min in child; if hypertensive.

EFFECTS

Bronchodilation; increases BP

SIDE EFFECTS

Palpitations, hypertension, and dysrhythmias

HOW SUPPLIED

1 mg/ml

QUANTITY

2

DOSAGE & ROUTE

0.3 mg SQ. May repeat every 10-20 min

Pediatric: 0.01 mg/kg SQ

EPINEPHRINE 1:10,000
(ADRENALIN)

EMT-I, EMT-P

INDICATIONS

Asystole; ventricular fibrillation; ventricular tachycardia with no pulse; PEA

CONTRAINDICATIONS

None

EFFECTS

Increases heart rate, force, & automaticity

SIDE EFFECTS

Tachyarrhythmias

HOW SUPPLIED

1 mg/10 ml

QUANTITY

8

DOSAGE & ROUTE

Cardiac arrest: 1 mg IV or double dose ET every 3-5 min.

Pediatric: 0.01 mg/kg, repeat dose

Drug Listing (continued)

FUROSEMIDE
(LASIX)

EMT-I, EMT-P

INDICATIONS

CHF; pulmonary edema

CONTRAINDICATIONS

Hypotension, pregnancy, hypokalemia

EFFECTS

Increases urine output; vasodilation

SIDE EFFECTS

Dehydration, decreases potassium

HOW SUPPLIED

40mg/4 ml

QUANTITY

3

DOSAGE & ROUTE

40 mg IV over 2-3 min. May consider higher dose for patients already on diuretics.

Pediatric: 1-2 mg/kg

GLUCAGON

EMT-J, EMT-E, EMT-I, EMT-P, Park Medic

INDICATIONS

Hypoglycemia, Beta blocker overdose

CONTRAINDICATIONS

Rare

EFFECTS

Causes breakdown of glycogen to glucose

SIDE EFFECTS

Rare

HOW SUPPLIED

1 unit (1 mg/ml to be mixed)

QUANTITY

1

DOSAGE & ROUTE

1 unit (1 ml) IM

Pediatric: 1 unit IM

Drug Listing (continued)

<u>IPRATROPIUM</u> (Atrovent)	EMT-J, EMT-E, EMT-I, EMT-P, Park Medic
INDICATIONS	Bronchospasm related to asthma, chronic bronchitis & emphysema
CONTRAINDICATIONS	Tachydysrhythmias
EFFECTS	Bronchodilation
SIDE EFFECTS	Tachycardia, Myocardial ischemia
HOW SUPPLIED	0.5 mg/3ml
QUANTITY	1
DOSAGE & ROUTE	1 unit dose of 0.5 mg/3ml through hand-held nebulizer with oxygen flow at 4-6 liters. Mixed with 1 st dose of Albuterol. A modified nebulizer maybe used with a BVM or a simple face mask.
<u>MAGNESIUM SULFATE</u> Medical Command for Eclampsia	EMT-I, EMT-P
INDICATIONS	Refractory VT or SVT; eclampsia
CONTRAINDICATIONS	None
EFFECTS	Changes calcium transport in the cells
SIDE EFFECTS	Flushing, nausea
HOW SUPPLIED	1 gm/2 ml
QUANTITY	4
DOSAGE & ROUTE	Refractory VF – 1 to 2 grams of 50% solution diluted in 10 mL of NS (Dilute each gram of Magnesium with 8cc of NS). Eclampsia – Medical Command only - 10% solution 2 to 4 grams IV push at no greater than 1 gram per minute, until seizure stops or a maximum dose of 4 grams have been given.

Drug Listing (continued)

<u>METAPROLOL</u> (Lopressor) Medical Command only	EMT-I, EMT-P
INDICATIONS	Used for hypertension, acute MI, angina pectoris, adult v-fib, pulseless wide complex tachycardia
CONTRAINDICATIONS	Shock, 2 nd or 3 rd degree AV heart block, sinus bradycardia, CHF, bronchial asthma
EFFECTS	B1-blocker
SIDE EFFECTS	Hypotension, dysrhythmias, CHF, N/V, CNS changes
HOW SUPPLIED	5 mg in 5 ml ampules
QUANTITY	3
DOSAGE & ROUTE	5 mg IV once over 2 minutes, may repeat per medical command.
<u>METHYLPREDNISOLONE</u> (Solu-Medrol)	EMT-E, EMTI, EMT-P, Park Medic
INDICATIONS	Used for severe anaphylaxis and asthma/COPD
CONTRAINDICATIONS	None in anaphylaxis; premature infants; systemic fungal Infections; pregnancy
EFFECTS	anti-inflammatory, natural glucocorticoid
SIDE EFFECTS	CHF, HTN, seizures, N/V, dysrhythmias
HOW SUPPLIED	125 mg vial
QUANTITY	1
DOSAGE & ROUTE	125 mg IV Pediatrics: 1-2mg/kg IV

Drug Listing (continued)

MIDAZOLAM
(Versed)

EMT-I, EMT-P, Park Medic

INDICATIONS

Used for Sedation and Seizures

CONTRAINDICATIONS

Shock, acute narrow angle glaucoma

EFFECTS

CNS depressant, anticonvulsant and amnesic

SIDE EFFECTS

Respiratory depression, hypotension, decreased HR

HOW SUPPLIED

5mg/ml

QUANTITY

2

DOSAGE & ROUTE

Adult sedation: 2-5 mg IV; seizures 5 mg IM if no IV
Pediatric sedation: 0.1mg/kg, max 2 mg; seizures 0.1 mg/kg IM

MORPHINE SULFATE

EMT-I, EMT-P, Park Medic

INDICATIONS

Pulmonary edema; pain in AMI; & pain associated with identifiable injuries such as fractures, burns, etc.

CONTRAINDICATIONS

Hypotension; head injury; undiagnosed abdominal pain

EFFECTS

CNS depressant; vasodilator; decreases venous return to heart; decreases pain

SIDE EFFECTS

Hypotension, bradycardia, respiratory depression, dizziness

HOW SUPPLIED

10 mg/1 ml

QUANTITY

2

DOSAGE & ROUTE

IV: 2-5 mg slow IV push every 5-10 min titrated to desired effect (max 15 mg)
IM: 5-10 mg

Pediatric: 0.1 mg/kg IV or IM

Drug Listing (continued)

<u>NALOXONE HCL</u> (NARCAN)	EMT-J, EMT-E, EMT-I, EMT-P, Park Medic
INDICATIONS	Suspected narcotic OD
CONTRAINDICATIONS	Intubated patients
EFFECTS	Reverses effects of narcotics
SIDE EFFECTS	Withdrawal syndrome
HOW SUPPLIED	4 mg/10 ml
QUANTITY	1
DOSAGE & ROUTE	0.8 mg slow IV, IM, titrated to respirations. Repeat dose 1.6 mg Pediatric: 0.1 mg/kg IV, IO or IM
<u>NITROGLYCERINE</u>	EMT-J, EMT-E, EMT-I, EMT-P, Park Medic
INDICATIONS	Chest pain of suspected cardiac origin; pulmonary edema;
CONTRAINDICATIONS	Hypotension, trauma, ICH, Use in consultation with Medical Control Physician with patients using Viagra, Levitra and Cialis.
EFFECTS	Vasodilation
SIDE EFFECTS	Headache, hypotension, and dizziness
HOW SUPPLIED	0.4 mg (tablet), 1/150th grain
QUANTITY	1 bottle
DOSAGE & ROUTE	1 tablet SL every 5 min

Drug Listing (continued)

NITROPASTE

EMT-J, EMT-E, EMT-I, EMT-P, Park Medic

INDICATIONS

Pulmonary edema; chest pain of suspected cardiac origin;

CONTRAINDICATIONS

Hypotension, trauma, ICH, Use in consultation with Medical Control Physician with patients using Viagra, Levitra and Cialis.

EFFECTS

Vasodilation

SIDE EFFECTS

Hypotension, dizziness. (Wipe off if side effects occur)

HOW SUPPLIED

1 inch of paste in prefilled packets

QUANTITY

2

DOSAGE & ROUTE

1/2-2 inches topically

PROMETHAZINE **(PHENERGAN)**

EMT-I, EMT-P, Park Medic

INDICATIONS

Motion sickness, rhinitis, allergy symptoms, sedation, nausea

CONTRAINDICATIONS

Acute asthma attack, lower respiratory tract disease

EFFECTS

Anti-emetic

SIDE EFFECTS

Drowsiness, anxiety, euphoria, confusion, hypotension, tachycardia, increased secretions, wheezing, thrombocytopenia, rash, nasal stuffiness, blurred vision.

HOW SUPPLIED

vial/ampules 25mgs/1cc

QUANTITY

2

DOSAGE & ROUTE

Adult: 12.5 – 25 mg IV, 25 mg IM
Ped: 0.5 mg/kg IM

Medical Command only – must be diluted for IV administration

Drug Listing (continued)

SODIUM BICARBONATE

8.4%

Medical Command only

EMT-I, EMT-P

INDICATIONS

Cardiac arrest only after prolonged anoxia, tricyclic antidepressant overdose, known acidosis

CONTRAINDICATIONS

Not to be given as initial drug therapy

EFFECTS

Increases pH

SIDE EFFECTS

Metabolic alkalosis, increased sodium

HOW SUPPLIED

50 mEq/50 ml

QUANTITY

2

DOSAGE & ROUTE

1 mEq/kg IV followed by 1/2 the initial dose every 10 min.

Pediatric: 1 mEq/kg. Dilute 1:1 with IV fluid

VASOPRESSIN

(Pitressin)

EMT-I, EMT-P

INDICATIONS

Used in ventricular fibrillation Cardiac Arrest situations

CONTRAINDICATIONS

None in Cardiac Arrest

EFFECTS

Stimulates smooth muscle resulting in vasoconstriction

SIDE EFFECTS

None applicable in Cardiac Arrest

HOW SUPPLIED

20 unit vials

QUANTITY

2

DOSAGE & ROUTE

40u IV– adult only