# MANUAL OF EMERGENCY DRUGS

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#### Manual of Emergency Drugs

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#### PREFACE

Manual of Emergency Drugs was designed to provide emergency medical personnel with a handy reference to the most commonly used emergency medications. Chapter 1 profiles over 60 emergency medications in a standard, easy-to-read format. Chapter 2 lists the same medications by drug actions. The commonly used IV fluids, both crystalloids and colloids, are profiled in detail in Chapter 3. Chapter 4, Pediatric Emergency Drugs, contains a detailed breakdown of emergency medications by patient weight to help ensure correct and rapid drug administration when managing a pediatric emergency crisis. Chapter 5 provides a listing of over 1100 home medications, both prescription and nonprescription, to aid emergency personnel in elucidating patient drug histories. Overall, emergency medical personnel will find Manual of Emergency Drugs to be a useful and handy guide to many of the pharmacological agents encountered in prehospital and inhospital emergency care.

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### **ACKNOWLEDGMENTS**

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This listing of prehospital drugs is derived from prehospital drug lists from across the United States. It does not constitute a recommendation by the author or the publisher of the drugs presented herein.

Although every attempt has been made to assure that the drug dosages and indications presented are in accordance with national standards and recommendations, neither the author or the publisher are responsible for any accidental deletions or discrepencies encountered.

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#### INTRODUCTION

This section provides a quick reference to over 60 to the most commonly used energency medications. The doubless and indications have been taken from the most recent Advanced Cardine Life Support (ACLS) standards of the American Heart Association. Drugs not covered in ACLS are calter from the American Medical Association's Actual are calter from the American Medical Association's Actual

QUICK DRUG REFERENCE

#### **INTRODUCTION**

This section provides a quick reference to over 60 of the most commonly used emergency medications. The dosages and indications have been taken from the most recent Advanced Cardiac Life Support (ACLS) standards of the American Heart Association. Drugs not covered in ACLS are taken from the American Medical Association's *Drug Evaluation*. It is important to keep in mind that specific drugs, dosages, indications, and routes may vary in your particular area. It is essential to be familiar with these variations and follow the guidelines established by the medical director of the system in which you work.

### **ACTIVATED CHARCOAL**

dass:

actions: Adsorbs toxins by chemical binding and large surface

sares mild discrete properties

Adsorbent

indications: Poisoning following emesis or

where emesis is

contraindicated

contraindications: None in severe poisoning

precautions: Should only be administered following emesis in cases

where it is so indicated

side effects: Rare

dosage: Two tablespoons (50 grams)

mixed with a glass of water

to form a slurry

Oral route:

Two tablespoons (50 grams) pediatric dosage:

mixed with a glass of water

to form a slurry

#### **AMINOPHYLLINE**

class: Xanthine

Smooth muscle relaxant
Causes bronchodilation
Has mild diuretic properties

Positive chronotrope

indications: Bronchial asthma

Reversible bronchospasm
associated with chronic
bronchitis and emphysema
Congestive heart failure

Pulmonary edema

contraindications: Patients with history of

hypersensitivity to the drug

Hypotension

Patients with peptic ulcer

design to want in this beat in disease

precautions: Monitor for arrhythmias

Monitor blood pressure

side effects: Convulsions

Arrhythmias
Vomiting
Palpitations

dosage: METHOD 1. 250-500 mg in 90

or 80 ml of D<sub>5</sub>W respectively infused over

20-30 minutes

## Aminophylline (continued)

METHOD 2. 250-500 mg (5-7 mg/kg) in 20 ml of D<sub>5</sub>W infused over 20-30 minutes

route: Slow IV

attitional social to

pediatric dosage: Status asthmaticus. 3-4 mg/kg loading dose to be infused over 20-30 minutes. Maximum dose not to exceed 12 mg/kg per 24 hours.

#### **AMYL NITRITE**

class: Nitrate

actions: Causes coronary vasodilation

Removes cyanide-ion via complex mechanism

indications: Cyanide poisoning (bitter almond smell to breath)

contraindications: None when used in the

management of cyanide

poisoning

precautions: Hypotension

Has tendency for abuse

side effects: Headache

Nausea

dosage: Inhalant should be broken and

inhaled, repeated as needed until patient is delivered to ED. Effects diminish after

20 minutes.

route: Inhalation

pediatric dosage: Inhalant should be broken and

inhaled, repeated until patient is delivered to ED

### ATROPINE

class: Parasympatholytic

actions: Blocks acetylcholine receptors

Positive chronotrope
Decreases GI secretions

indications: Bradycardia

Hypotension secondary to

bradycardia

Third degree heart block

Asystole

Organophosphate poisoning

contraindications: None when used in emergency

situations

precautions: Dose of 2.0 mg should not be

exceeded except in cases of organophosphate poisonings

Tachycardia Hypertension

side effects: Palpitations
Headache

Dry mouth

dosage: Bradycardia. 0.5 mg every 5 minutes to a maximum of

2.0 mg Asystole. 1.0 mg

Organophosphate poisoning, 2-5

mg

# Atropine (continued)

route:

P.VI ambababab

pediatric dosage: Bradycardia. 0.01-0.03 mg/kg Organophosphate poisoning. 0.05 mg/kg

## **BRETYLIUM** (Bretylol®)

class:

Antiarrhythmic

actions:

Increases ventricular fibrillation

threshold

Blocks the release of norepinephrine from peripheral sympachetic

notified in viscollo bas vinerves

indications:

Ventricular fibrillation refractory

to lidocaine

Ventricular tachycardia refractory to lidocaine

contraindications:

None when used in the

management of life-threatening arrhythmias

precautions:

Postural hypotension occurs in approximately 50% of patients receiving Bretylium Patient must be kept supine Decrease dosage in patients being treated with catecholamine

side effects:

Hypotension

Increased frequency of

sympathomimetics

arrhythmias