

POLICIES AND PROCEDURES

POLICY: 555.51

TITLE: Pediatric Poisoning/Overdose

EFFECTIVE: 4/10/19 REVIEW: 4/2024

SUPERCEDES:

APPROVAL SIGNATURES ON FILE IN EMS OFFICE

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PEDIATRIC POISONING/OVERDOSE

I. AUTHORITY: Health and Safety Code, Division 2.5, California Code of Regulations, Title 22, Division 9

II. PURPOSE: To serve as the treatment standard for EMRs, EMTs, AEMTs and Paramedics within their scope of

practice.

III. PROTOCOL:

Contact Base Hospital if any questions or if additional therapy/treatment is required. Any Poison Control Center consultation must be coordinated with Base Hospital.

STANDING ORDERS

ASSESS CAB

SECURE AIRWAY Using the simplest effective method. A BLS airway with objective evidence of good

ventilation and oxygenation is adequate and acceptable. Beyond BLS airway management -

refer to General Protocol 554.00.

OXYGEN Oxygen delivery as appropriate.

MONITOR Treat rhythm as appropriate.

IV/IO ACCESS Rate as indicated with micro drip tubing and volume control chamber. Give 20 ml/kg fluid

boluses until Broselow tape BP target. Reassess after each bolus.

NARCOTIC/OPIODS-SEDATIVES:

Characterized by: respiratory depression, hypotension, stupor, coma, and pinpoint pupils. The only reasons to treat narcotic intoxication are to reverse respiratory depression and occasionally, shock.

NALOXONE 0.1 mg/kg IV/IO/IN/SQ/IM, if mental status and respiratory effort are depressed and the

child is not a neonate. Maximum single dose 2 mg. May repeat in 3 minutes if a partial

response to treatment.

CYCLIC ANTIDEPRESSANT

Cyclic antidepressant toxicity has a high fatality rate, even in patients who are awake and alert at the scene. The severity of an overdose can be easily underestimated.

A cyclic antidepressant overdose is characterized by a <u>rapid</u> deterioration in mental status, rapid onset of apnea, fever, dilated pupils, flushed skin, and dry mucous membranes. These are usually associated with respiratory depression and tachycardia. Widened QRS complexes and associated ventricular arrhythmias are generally signs of a life-threatening ingestion.

Types of cyclic drugs include: amitriptyline (elavil, eftrafon, triavil, limbitrol), amoxapine (asendin), desipramine (norpramin), doxepin (sinequan), imipramine (tofranil), maprotiline (ludiomil), nortriptyline (aventyl, pamelor), trimipramine (surmontil), and protriptyline (vivactyl).

SODIUM BICARBONATE 1 mEq/kg IV/IO for any of the above signs of cyclic antidepressant intoxication. May repeat

0.5 mEq/kg slow IV/IO push every 5 minutes as needed.

CONSIDER

MIDAZOLAM

If seizing: $0.1\,$ mg/kg IV/IO (maximum dose: $5\,$ mg). If unable to establish IV/IO after one attempt, give $0.2\,$ mg/kg IM (maximum dose: $5\,$ mg). May repeat once in $10\,$ minutes if seizures continue. Most cyclic overdose seizures are short-lived and do not require the administration of Midazolam.

STANDING ORDERS CONTINUED

CAUSTICS/CORROSIVES/PETROLEUM EXPOSURES

Alkalis: sodium hydroxide (caustic soda), drain cleaners, potassium hydroxide, ammonium hydroxide (fertilizers), lithium hydroxide (photographic chemicals, alkaline batteries), calcium hydroxide (lime).

Acids: hydrofluoric acid (which may have a delayed onset of symptoms); sulfuric acid (battery acid) and hydrochloric acid.

Oxidizers: bleach, potassium permanganate.

Petroleum Subtances: typically have an odor similar to gasoline, may cause alteration of mental status, pulmonary edema, vomiting, lung injury. Generally more viscous agents (motor oil) are less toxic.

REMOVE AGENT Remove contaminated clothing.

If agent is dry, brush off. If agent is liquid, flush with copious amounts of water.

If the eyes are contaminated flush with saline for at least 20 minutes.

NOTE Avoid the use of epinephrine in petroleum distillate ingestions unless indicated for life-threatening

cardiac dysrhythmias.

IF INGESTED, DO NOT INDUCE VOMITING OR GIVE ACTIVATED CHARCOAL!

ORGANOPHOSPHATE POISONING

PROTECT YOURSELF FROM CONTAMINATION!

Organophosphate poisonings may cause bronchospasm, an increase in pulmonary and nasal secretions, constricted pupils, vomiting, diarrhea, urinary incontinence, diaphoresis and cardiac dysrhythmias including both bradycardia and AV blocks.

Remember the most spectacular signs by the following mnemonic: (Salivation, Lacrimation, Urination,

Defecation, Gastric upset and Emesis - SLUDGE.)

Other useful mnemonics are, "MUDDLES:" Miosis, Urination, Defecation, Diaphoresis, Lacrimation, Emesis,

Salivation; and "THE KILLER BEES": Bronchorrhea and Bradycardia.

REMOVE AGENT If agent is dry, brush off, then flush with copious amounts of water. If agent is liquid, flush with

copious amounts of water. Remove and isolate contaminated clothing. All of the patient's secretions

are toxic - flush off prior to transport. If possible, save container label.

ATROPINE 0.05mg/kg IV/IO/-IM. Repeat every 3 minutes as needed to control secretions, bronchorrhea and

dysrhythmias.

BASE PHYSICIAN ORDERS

PUSH DOSE

0.5 – 2.0 mL of 10 mcg/mL concentration EPINEPHRINE if low systolic BP. May repeat every 1-2 minutes to length based tape systolic BP target.