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Executive Director

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Medical Director

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ORGANOPHOSPHATE POISONING

- 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 EMT-Is and EMT-Ps in treating patients.
- III. PROTOCOL:

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.

STANDING ORDERS

PROTECT YOURSELF FROM CONTAMINATION!

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.

ABCs

SECURE AIRWAY As appropriate. Confirm tube placement, if intubated, with end-tidal CO₂ detector and esophageal detector device. I. **Monitor intubated patients with continuous waveform capnography if available.**

MONITOR Treat rhythm as appropriate.

IV ACCESS **TKO.** Myocardial depression and GI fluid losses may cause shock. If systolic BP is less than 90 mmHg, give 250 ml boluses to systolic BP 90-100. Reassess the patient after each bolus.

ATROPINE 2.0 mg slow IV push or IM, or 4 mg ET. Repeat every 3 minutes as needed to control secretions, bronchorrhea and dysrhythmias.

CONSIDER

MIDAZOLAM If seizing 2.0 mg initial dose IV push. Titrate in 1.0 mg increments for seizure control (maximum dose: 6 mg.) If unable to establish IV after 1 attempt, give 5 mg IM. May repeat once in 10 minutes, if seizures continue.

ACTIVATED CHARCOAL 50 gm PO if the patient is alert, protecting his/her airway, and has not ingested a CNS depressant.