

OVERDOSE / TOXIC INGESTION / POISONING

There are numerous agents and drugs which produce toxic effects in patients. This protocol is designed to provide the general guidelines for treatment. Specific treatments or antidote therapy may be appropriate as directed by the Medical Command Physician in consultation with the WV Poison Control Center. Providing as much information as possible to Medical Command will allow more accurate evaluation, treatment, and coordination of medical care.

- A. Perform Initial Treatment / Universal Patient Care Protocol.
- B. Routes:

1. Ingested Poisons:

- a. Protect airway.
- b. Do not induce vomiting.
- c. Transport the patient with all containers, bottles, and labels from the substance, if safe to do so.

2. Inhaled Poisons:

- a. Immediate removal from hazardous environment.
- b. Maintain airway and support respirations.
- c. Transport the patient with all containers, bottles, and labels from the substance, if safe to do so.

3. Absorbed Poisons:

- Remove the poison using procedures described in Burn Protocol 5506.
- b. Transport the patient with all containers, bottles, and labels from the substance, if safe to do so.

4. Injected Poisons:

- a. See treatment guidelines for specific substance.
- C. After decontamination procedures have been completed, do not delay transport.

Note: Remember that a toxic exposure poses a significant risk to both the rescuer and patient; appropriate scene management and decontamination are critical.



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- D. Determine the following:
 - a. What?
 - b. When?
 - c. How much?
 - d. Over what period of time?
 - e. Were any actions taken by bystanders, family members, and/or patient prior to EMS arrival?
- E. Overdose / Toxic Ingestion / Poisoning Emergencies
 - 1. Alcohol:
 - a. Emergencies involving alcohol can range from acute intoxication to alcohol withdrawal and delirium tremens (DTs).
 - b. Assess the patient and follow the proper protocol for medical management based on clinical presentation.
 - Consider hypoglycemia. Perform rapid glucose determination. If glucose < 60 mg/dL or clinical signs and symptoms indicate hypoglycemia, refer to the **Diabetic Emergencies Protocol 5604**.
 - ii. For signs and symptoms of hypovolemic shock or dehydration, follow the **Hypoperfusion Shock Protocol 5108**.
 - iii. For seizures due to alcohol withdrawal, refer to the **Seizure Protocol 5603**.

2. Narcotics / Opiates:

a. Support respirations, as necessary, with a BVM and supplemental O2. Defer consideration of advanced airway management until after administration of Naloxone, if BVM ventilation is adequate based on SpO2 at 94 - 99 %.



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- b. Consider hypoglycemia. Perform rapid glucose determination. If glucose is < 60 mg/dL or clinical signs and symptoms indicate hypoglycemia, refer to the **Diabetic Emergencies Protocol 5604**.
- c. For a suspected narcotic overdose complicated by respiratory depression:
 - i. Administer **Naloxone (Narcan®)** 2 mg IV titrated slowly at 0.4 mg/minute to restore the respiratory drive.
 - ii. If unable to obtain IV access, give **Naloxone (Narcan®)** 2 mg IN. Medication should be administered equally in each nostril.

3. Tricyclic Antidepressants:

- a. Support respirations, as necessary, with a BVM and supplemental O2.
- b. For serious signs and symptoms (altered mental status, sustained tachycardia < 120 bpm, widened QRS complex or hypotension):
 - i. Infuse a 20 mL/kg bolus NS. If no improvement after two 20 mL/kg boluses NS, assess for fluid overload during administration, then:
 - ii. Contact Medical Command for further treatment options.



Tricyclic Antidepressants include: Amitriptyline (Elavil®), Doxepin (Sinequan®, Adepin®), Imipramine (Tofranil®).

4. Cholinergics:

- a. Support respirations, as necessary, with a BVM and supplemental O2.
- b. For serious signs and symptoms (respiratory distress, SLUDGE syndrome, seizures, or HR < 60 bpm): Administer **Atropine** 2 mg IV.



Pesticides (Organophosphates, Carbamates) and nerve gas agents (Sarin, Soman) are the most common exposures.

S - Salivation

L - Lacrimation

U – Urination

D – Defecation

G – Gastrointestinal cramping

E - Emesis



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5. Calcium Channel Blockers:

- a. Support respirations, as necessary, with a BVM and supplemental O2.
- b. For serious signs and symptoms (altered mental status, HR < 60 bpm, conduction delays, SBP < 90 mm Hg, slurred speech, nausea/vomiting):
 - i. Administer Atropine 1 mg IV.
 - ii. If no response to the initial **Atropine** dose contact **Medical Command** for further treatment.



6. Beta Blockers:

- a. Support respirations, as necessary, with a BVM and supplemental O2.
- b. For serious signs and symptoms (altered mental status, HR < 60 bpm, conduction delays, SBP < 90 mm Hg, slurred speech, nausea/vomiting):
 - i. Infuse a 20 mL/kg bolus NS. If no improvement after two (2) 20 mL/kg boluses NS, contact **Medical Command** for direction. If the patient develops signs and symptoms of fluid overload respiratory distress (dyspnea, crackles, rhonchi, decreasing SpO₂), slow the IV to KVO.
 - ii. Administer **Glucagon** 1 mg IV. If additional **Glucagon** is available, administer 2 mg IV as the initial dose repeated at 2 mg IV in 10 minutes.
 - iii. If no response, consider transcutaneous pacing and contact MCP.

7. Stimulants:

- a. Assess the patient and follow the proper protocol for medical management based on clinical presentation.
- b. Support respirations, as necessary, with a BVM and supplemental O2.
- c. Serious signs and symptoms (seizures, tachydysrhythmias, etc.):
 - i. For tachydysrhythmias with HR > 120 bpm, Midazolam (Versed®) 2 mg slow IV push, titrated to effect.



ii. For patients that are severely agitated or combative, follow the **Behavioral Emergencies / Patient Restraint Protocol 5607**.