

**Treatment Protocols****Date: 07/01/2023****Poisoning/Intoxication/Envenomation - Adult****Policy #9160A****Adult BLS Standing Orders**

- Ensure EMS provider safety, consider HAZMAT activation. Recognize, Notify, Isolate
- Universal Patient Protocol
- Do not approach patient or location if scene safety is in question
- Obtain accurate history of incident:
  - Name of product or substance
  - Quantity ingested, and/or duration of exposure
  - Time elapsed since exposure
  - If safe and accessible, bring medications or bottles to hospital
- Move victim(s) to safe environment
- Externally decontaminate - PRN
- Continuously monitor blood pressure, pulse oximetry PRN
- Give oxygen and provide airway support per **Airway Policy**
- Contact Poison Control Center as needed **1 (800) 222-1222**

**Suspected Opioid Overdose with Respirations <12 RPM**

- If possible, avoid the use of a supraglottic device prior to the administration of naloxone
- Naloxone 0.1 mg/kg, to a max of 4 mg IN. MR x3
- May assist family/friends on-scene with administration of patient's own naloxone

NOTE - Use with caution in opioid dependent pain management patients

- Assess vitals, with specific attention to respiratory rate and respiratory drive
- Note pupil exam
- Note drug paraphernalia or medication bottles near patient

**Suspected Stimulant Overdose with Sudden Hypoventilation, Oxygen Desaturation, or Apnea**

- High flow O2
- Ventilate PRN

**Skin/Eye Contact (Isolated Incident)**

- Remove contaminate clothing, brush off powder, rinse with water for at least 20 minutes
- Remove contacts, brush off powder, irrigate eyes with sterile for 20 minutes
- NOTE – Ensure product or substance does not react violently with water prior to beginning of irrigation

**Envenomation****Snake Bite/Scorpion Sting**

- Keep involved extremity immobile, at or slightly below heart level
- Mark proximal extent of swelling
- Remove jewelry on the same limb, and/or around the neck if the trunk, neck or head bitten
- Keep patient calm, do not allow to walk
- Do not attempt to bring the animal in to the hospital

**Bee Stings**

- Remove stinger by flicking or scraping with a card

**Treatment Protocols****Date: 07/01/2023****Poisoning/Intoxication/Envenomation - Adult****Policy #9160A**

- Apply cold compress to site

**Insect Bites**

- Apply cold compress to site

**Toxic Inhalation (Suspected CO or Cyanide Exposure, Smoke, Gas, etc.)**

- Give high flow oxygen via NRB mask at 15 LPM

Follow **Cyanide Toxicity Treatment Protocol****Hyperthermia Secondary to Stimulant**

- Initiate cooling measures per **Hyperthermia Protocol**
- Obtain baseline temperature

**Adult LALS Standing Orders**

- Establish IV PRN

**Hypotension**

- NS 500-1,000 mL IV MR x 1 to a max of 2,000 mL to maintain a SBP of  $\geq 90$  mmHg
- For persistent hypotension, refer to Shock Protocol

**Hyperthermia Secondary to Stimulant**

- NS 500-1,000 mL IV MR x 1 to a max of 2,000 mL to maintain a SBP of  $\geq 90$  mmHg

**Toxic Inhalation (CO Exposure, Smoke, Gas, etc.)**

- Albuterol 2.5 mg via nebulizer (may administer 5 mg for severe distress.) MR x 1

**Suspected Opioid Overdose with Respirations < 12 RPM**

- Naloxone 0.1 mg/kg, to a max of 4 mg IN/IV. MR x3. Titrate IV dose to effect, to drive the respiratory effort

**Ingested Poisons**

- Activated Charcoal 1-2 g/kg PO to a max of 100 g if within 60 minutes of ingestion or recommended by Poison Control Center
- Ensure patient has gag reflex and is cooperative

**NOTE** – Activated Charcoal is contraindicated with ingestion of any of the following:

- Acids, alcohol, alkalines, petroleum distillates, caustic substances, iron or drugs that cause rapid onset of seizures (e.g. camphor, tricyclics)

**Adult ALS Standing Orders**

- Monitor EKG
- Establish IV/IO PRN
- Capnography
- Obtain 12 Lead ECG

**Hypotension**

- NS 500-1,000 mL IV/IO MR x 1 to a max of 2,000 mL to maintain a SBP of  $\geq 90$  mmHg
- For persistent hypotension, refer to Shock Protocol

**Hyperthermia Secondary to Stimulant**

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**Suspected Opioid Overdose with Respirations < 12 RPM**

- Naloxone 0.1 mg/kg, max of 4 mg IN/IM/IV/IO, MR x 3

**Ingested Poisons**

- Activated Charcoal 1-2 g/kg PO to a max of 100 g if within 60 minutes of ingestion or recommended by Poison Control Center
- Ensure patient has gag reflex and is cooperative

**NOTE** – Activated Charcoal is contraindicated with ingestion of any of the following:

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**Stimulant Overdose****Severe Agitation**

- Midazolam -
  - IV – Can administer up to 5 mg IV/IN/IM. MR x 1 q2min to a max dose of 10 mg SO
  - For patients that are elderly, small statured, have other medications, intoxicants, or medical sources for their agitation, consider administering midazolam in 1 mg or smaller increments, waiting at least 2 minutes between doses.
  - **Do not exceed 1.0 mL per nostril per dose for adult patients**
  - IM is preferred route of administration due to risk of injury to patient or EMS personnel.

**NOTE**

- For severely agitated patient IM is preferred route to decrease risk of injury to patient and EMS personnel
- As soon as able, monitor ECG/Capnography/O<sub>2</sub> saturation and obtain blood glucose

**Extrapyramidal Reactions**

- Diphenhydramine - 25-50 mg IV/IM PRN symptom severity

**Toxic Inhalation (CO or Cyanide Exposure, Smoke, Gas, etc.)**

- Albuterol 2.5 mg via nebulizer (give 5 mg for severe distress.) MR x1
- Consider administration of hydroxocobalamin, sodium nitrate or sodium thiosulfate. See **Cyanide Toxicity Policy**

**Hypotension**

- NS 500-1,000 mL IV MR x 1 to a max of 2,000 mL to maintain a SBP of  $\geq 90$  mmHg

**Suspected Opioid Overdose with Respirations <12 RPM**

- Naloxone 0.4-4.0 max of 4 mg IM/IV/IN/IO, MR x 3 q5min. Titrate IV dose to effect, to drive the respiratory effort
- If patient unconscious and breathing ineffectively after naloxone, consider intubation per **Airway Policy**
- If patient refuses transport, give additional naloxone 2 mg IM SO
- If patient refuses transport, consider dispensing Leave Behind Naloxone 4 mg nasal spray preloaded device with education for patient and household members SO

**Organophosphate Poisoning**

**For respiratory secretions and/or distress:**

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- Atropine 2 mg IV/IM, q3-5 minutes until airway improved (decreased secretions, easier to ventilate)

**For seizures:**

- Midazolam 10 mg IM x1 or IN (5 mg each nostril) or 5 mg slow push IV/IO. MR IV/IO dose in 5 minutes. Maximum total dose 10 mg IV/IO
- Preferred volume of administration IN is 0.3 ml per nostril. Largest acceptable volume in adults is 1.0 ml. In pediatrics, 0.5 ml is maximum preferred volume of administration.

**Tricyclic Overdose (Altered LOC, Tachycardia, Prolonged QRS)**

- Sodium Bicarbonate – 1-2 mEq/kg (max 1 amp or 50 mEq) IV/IO q3-5min until QRS narrows to < 100 ms and hypotension improves

**Suspected Beta Blocker OD with cardiac effects (e.g., bradycardia with hypotension)**

- Glucagon 1-3 mg IV , MR 5-10 min , for a total of 10 mg
- Patients often require dextrose as well. Perform frequent (minimum q5min) glucose checks, and more frequently with clinical status changes.

**Suspected Calcium Channel Blocker OD (SBP <90 mmHg)**

- CaCl<sub>2</sub> IV/IO 20 mg/kg, MR x1 in 10 min BH

**Adult Base Hospital Orders****Organophosphate Poisoning**

- **BH - Repeat Midazolam Dosing**

**Toxic Inhalation (Suspected Cyanide Toxicity)**

- **BH - Administer hydroxocobalamin (0.7 mg/kg up to 5 grams) IV piggyback over 15 minutes**  
Or

If hydroxocobalamin is not available, and there is no clinical suspicion for carbon monoxide poisoning, administer sodium nitrite AND sodium thiosulfate

- **BH - Administer sodium nitrite (6 mg/kg up to 300 mg) IV over 5 minutes AND sodium thiosulfate (400 mg/kg up to 12.5 grams) IV piggyback over 10 minutes**

**Notes:**

- **Use caution when considering midazolam use with ETOH intoxication or depressants. May result in apnea**
- Notify receiving facilities and EMS Agency of HazMat incidents requiring mass decontamination of victims prior to arrival in ED
- Request CHEMPAK resources through EMS Agency/MHOAC program for incidents involving multiple victims with organophosphate poisoning

APPROVED:

Signature on File

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