San Mateo County Emergency Medical Services

Overdose/Poisoning/Ingestion

For any intentional or unintentional overdose/poisoning by any route, includes illicit substances and prescription medications, overdose and/or adverse reactions.

**History**
- Ingestion or suspected ingestion of a potentially toxic substance
- Substance ingested, route, and quantity
- Time of ingestion
- Reason (suicidal, accidental or criminal)
- Available medications in home
- Past medical history and medications

**Signs and Symptoms**
- Mental status changes
- Hypo or hypertension
- Decreased respiratory rate
- Tachycardia or dysrhythmias
- Seizures
- S.L.U.D.G.E.M.
- Vision impairment
- Pupillary changes

**Differential**
- Tricyclic antidepressants (TCAs)
- Acetaminophen (Tylenol)
- Aspirin
- Depressants
- Stimulants
- Anticholinergics
- Cardiac medications
- Solvents, alcohols or cleaning agents
- Insecticides (organophosphates)

---

California Poison Control Center
(800) 222-1222

---

**History**
- Ingestion or suspected ingestion of a potentially toxic substance
- Substance ingested, route, and quantity
- Time of ingestion
- Reason (suicidal, accidental or criminal)
- Available medications in home
- Past medical history and medications

---

**Signs and Symptoms**
- Mental status changes
- Hypo or hypertension
- Decreased respiratory rate
- Tachycardia or dysrhythmias
- Seizures
- S.L.U.D.G.E.M.
- Vision impairment
- Pupillary changes

---

**Differential**
- Tricyclic antidepressants (TCAs)
- Acetaminophen (Tylenol)
- Aspirin
- Depressants
- Stimulants
- Anticholinergics
- Cardiac medications
- Solvents, alcohols or cleaning agents
- Insecticides (organophosphates)

---

Adequate respirations (> 8) and oxygenation?

- Yes
  - Blood glucose analysis
  - Cardiac monitor
  - 12-Lead ECG
  - IV procedure

- No
  - Hyperactive Delirium

---

Is patient aggressive?

- Yes
  - Naloxone
    - Naloxone is titrated to effect of adequate ventilation and oxygenation
    - NOT ADMINISTERED TO RESTORE CONSCIOUSNESS

- No
  - Notify receiving facility.
  - Consider Base Hospital for medical direction

---

If systolic BP < 90

- Normal Saline bolus 500ml IV/IO
  - Maximum 2L

---

If bradycardic and symptomatic

- Glucagon

---

If symptomatic bradycardic or hypotension

- Calcium Chloride

---

If seizing

- Midazolam

---

Notify receiving facility. Consider Base Hospital for medical direction

---

Effective November 2018
Treatment Protocol X03

Effective April 2023

SAN MATEO COUNTY HEALTH EMERGENCY MEDICAL SERVICES
Pearls

- Overdose or toxic ingestion patients with significant ingestion/exposures should be monitored very closely and aggressively treated as indicated. Do not hesitate to contact the Base Hospital or Poison Control for advice as certain critically ill overdose patients may quickly overwhelm medication supplies. For example, a tricyclic overdose with a wide QRS and altered mental status may need to receive multiple Sodium Bicarbonate boluses until QRS narrowing and clinical improvement. Note: Poison Control offers advice, not medical direction.
- Bring medication with the patient to the hospital.
- Tricyclic: Progression of toxicity include decreased mental status, dysrhythmias, seizures, hypotension then coma and death; onset can occur within 5 minutes.
- Acetaminophen: Initially normal or with nausea/vomiting.
- Aspirin: Early signs consist of abdominal pain and vomiting. Tachypnea and altered mental status may occur later. Renal dysfunction, liver failure or cerebral edema among other things can present later.
- Depressants: Decreased heart rate, blood pressure or temperature, decreased respirations, and non-specific pupils.
- Stimulants: Increased heart rate, blood pressure or temperature, dilated pupils, and seizures.
- Anticholinergics: Increased heart rate or temperature, dilated pupils, and mental status changes.
- Cardiac medications: Dysrhythmias and mental status changes.
- Solvents: Nausea, vomiting, coughing, and mental status changes.
- Insecticides: Increased or decreased heart rate, increased secretions, nausea, vomiting, diarrhea, and pinpoint pupils. Consider restraints if necessary for patient’s or personnel’s protection per Restraint Procedure. See Hazmat protocol for insecticide treatment.