

Guidance for Health Care Providers

Environmental Methamphetamine Exposure

Who is at risk?

- Patients living in or near an active clandestine methamphetamine
- Exposure to a former clandestine methamphetamine lab that has been improperly decontaminated

What is the risk?

RISK OF EXPOSURE BY LABORATORY STATUS	
Highest Risk ↓ No Risk	<ul style="list-style-type: none">• Active laboratory with cooking in process• Methamphetamine laboratory fire• Inactive laboratory that is still set up• Laboratory is packed up in crates, boxes, cabinets, or trunks• Laboratory area after nonprofessional clean up• Laboratory area after professional clean up

Methamphetamine synthesis involves a variety of toxic caustics and solvents that are hazardous to human health. *Exposures to active clandestine methamphetamine labs have the greatest risk of adverse health effects from environmental exposures.* Those who become symptomatic from environmental methamphetamine exposure are often the “cooks” or first responders to an active clandestine lab.

However, if not properly decontaminated, former clandestine labs pose a risk for adverse health effects. These exposures are often dermal or inhalation exposures to methamphetamine and the chemicals associated with synthesis.

Symptoms associated with acute exposure to former clandestine labs:

- Headache
- Nausea/vomiting
- Respiratory tract irritation
- Skin irritation
- Eye irritation
- Difficulty breathing

Chronic Environmental Methamphetamine Exposure

Little information exists on the effects of chronic environmental exposure to methamphetamine. Individuals at most risk are those who have lived in a house while it was an active lab. Methamphetamine is released during cooks, and there is a possibility for systemic methamphetamine effects. Similar to acute exposures, there is a much smaller risk of adverse health effects from chronic environmental methamphetamine exposure for those living in an improperly decontaminated former lab.

Symptoms associated with chronic methamphetamine exposure:

- Insomnia
- Irritability
- Compulsive behavior
- Personality changes
- Anorexia/weight loss
- Poor concentration
- Anxiety
- Hyperactivity

Management of Environmental Methamphetamine Exposure from Suspected Former Lab

Laboratory Testing

- Due to the wide variety of chemicals involved in methamphetamine synthesis, there are no recommendations for routine laboratory screening in asymptomatic patients
- Metal salts are occasionally involved in methamphetamine synthesis, however routine heavy metal screening in adults or children are not recommended
- If a patient has symptoms consistent with chronic environmental methamphetamine toxicity, a urine drug screen for methamphetamine is recommended
- Consult the Utah Poison Control Center with patient specific questions

Dermal Exposure

- Irrigate exposed area, launder clothes, and manage with proper wound care if necessary

Ocular Exposure

- Irrigate eyes for 10-15 minutes
- Conduct eye exam if visual changes present or corneal abrasion suspected

Inhalational Exposure

- Pulmonary injury is much less likely when lab is inactive
- Treat complaints of respiratory symptoms
 - Supplemental oxygen
 - Chest X-ray for cough or chest pain
 - Bronchodilators for wheezing/bronchospasm
 - If symptoms persist > 3 hours despite supportive care, admission for observation of pulmonary edema may be warranted

Source Control: Instruct patients to have their home or potential source of exposure tested for methamphetamine, and properly decontaminated if necessary.