OMHCC

Omaha Metropolitan Healthcare Coalition

EMS Immediate Response - CBRN®

Poison Center - 1-800-222-1222

CBRN= Chemical, Biological, Radiological, Nuclear

Nuclear DECON with Water First!

	Symptoms	Exposure	First Response
Radiological Nuclear	Nausea, vomiting, burns, fatigue, reduced WBCs	Amount of time exposed, internal vs. external exposure, and distance from the radiation is important	Protect Caregivers Remove clothing Decontamination using water

Biological Don Mask and Gloves at a Minimum

Biological Doll Mask and Gloves at a Millimuli						
Agents	Symptoms	Exposure	First Response			
Smallpox	Fever, hard pox lesions, body aches, malaise, vomiting, and headache HIGHLY INFECTIOUS!	Inhalation Person contact	Protect caregivers Use impermeable surgical gown/gloves			
Botulism	Weakness, dizziness, dry mouth, blurred vision, progressive weakness, of muscles leading to paralysis and abrupt respiratory failure	Ingestion Inhalation Open wounds No person-to- person transmission	Use oral/nasal masks *Preferable to use HEPA-filter masks, especially for Plague, Smallpox, and Viral Hemorrhagic Fevers			
Tularemia	No person-to-person transmission Fever, headache, malaise, cough, weight loss		(i.e., Ebola) If necessary, use face shields or goggles			
Anthrax	No person-to-person transmission Contact with spores may cause illness Fever & fatigue, then abrupt onset of resp. problems (cough, dyspnea). Toxic shock and death within 2-3 days	Ingestion Inhalation Cutaneous	Isolate potentially infectious people as soon as possible If dermal exposure: Clothing should be removed by protected personnel Wash skin with soap and water			
Plague	Malaise, fever, tender lymph nodes, skin lesions, chills, headache, bloody sputum, pneumonia, circulatory failure and death HIGHLY INFECTIOUS!	Inhalation	Give supportive care ALL AGENTS Refer to OMHCC CBRN Quick Reference Guide for Treatment Recommendations			

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Chemical

Symptoms are often immediate Protect SELF First with PPE!

Agents	Symptoms	Exposure	First	
Irritant Gases Ammonia Chlorine Phosgene	Ammonia/Chlorine: Immediate irritation of eyes, skin, resp. tract (airway burns) Chlorine/Phosgene: Delayed pulmonary edema	Skin Contact Eyes Inhalation	Response ALL Agents Listed Protect Caregivers Use Level A or B personal protective equipment Use positive air pressure	
Cyanide	Headache, dizziness, lethargy, tachycardia, hypotension, respiratory depression, coma, death can occur in < 5 min	Cyanokit⊕ (Hydroxocobalamin) Adult 5 grams IV over 15 min Repeat 5 grams if needed Child 70 mg/kg IV; 15 min (dosing not FDA approved) Recon vial with 200 mL NS. Administer in separate IV Causes red skin and urine	respirators Separate clean from	
Blister Agents Lewisite Nitrogen Sulfur Mustard	Eye pain, gritty eyes, reddened skin, large fluid-filled blisters, respiratory damage Sulfur mustard symptoms delayed 2-24 hours	Skin Contact Eyes Inhalation Ingestion	Wash skin thoroughly with soap and water to deactivate contaminant Irritant Gases & Cyanide Maintain airway (early intubation as needed) and administer oxygen, in addition to above recommendations	
Nerve Agents Tabun Soman Sarin Organo- phosphate & carbamate insecticides VX Novichok	Symptom onset may be delayed 18 to 72 hours after dermal exposure Mild Constricted pupils, runny nose/nasal secretions, mild shortness of breath, mild chest tightness, sweating, lacrimation Moderate Wheezing, profuse airway secretions, respiratory distress, muscle weakness, vomiting, diarrhea, bradycardia Severe Unconsciousness, seizures, flaccid paralysis, cyanosis, resp. failure, apnea	DuoDote/ATNAA DuoDote & ATNAA are single IM auto-injectors Both Contain: atropine 2 mg + pralidoxime 600 mg Symptoms = Adult Dose Milid: 1 buoDote (ATNAA) Moderate: 2 buoDotes Severe: 3 buoDotes Severe: 3 buoDotes AtroPEN (atropine) 0.5 mg autoinjector for IM -1 Pen (0.5 mg) 1-1 Pen (0.5 mg) 1-2 Pens (1 mg) 1-2 Pens (2 mg) 1-2 Pens	Nerve Agents For Seizures (cont.) Alternative to Diazepam and Midazolam Lorazepam (Ativan) Adult 2 to 4 mg IV/IM Child 0.05-0.1 mg/kg IV/IM May repeat q 5-10 min Check with Nebraskapoison.com for the most recent version or call Nebraska Regional Poison Center at 402-955-5555 DO NOT REVISE Copyrighted Jacobitz/Massoomi/Candy September 2023, Version 7	