

## EMS Immediate Response to NBC

Poison Center – 1-800-222-1222

NBC= Nuclear, Biological, Chemical

### **Nuclear**    *DECON with Water First!*

	Symptoms	Exposure	First Response
Nuclear Radiation	Nausea, vomiting, severe burns, fatigue	Amount of time exposed, internal vs. external exposure, and distance from the radiation is important	<b>Protect Caregivers</b> Remove clothing  External decon using water

### **Biological**    *Don Mask and Gloves at a Minimum*

Agents	Symptoms	Exposure	First Response
Smallpox	<b>Hard</b> pox lesions, body aches, malaise, vomiting, and headaches. <b>HIGHLY INFECTIOUS!</b>	Inhalation contact	<b>Protect caregivers</b> Use impermeable surgical gown/gloves
Botulism	Weakness, dizziness, dry mouth, blurred vision, progressive weakness, of muscle leading to paralysis and abrupt respiratory failure	Ingestion Inhalation Open wounds	Use oral/nasal masks ( <i>Preferable to use HEPA-filter masks, especially for plague, smallpox, and VHF</i> )
Tularemia	General discomfort, irritating cough, weight loss	Ingestion Inhalation Open wounds	If necessary, use face shields or goggles.
Anthrax	Fatigue, then a slight improvement followed by an abrupt onset of severe respiratory problems (cough, dyspnea). Toxic shock, and death within 2-3 days		Remove clean people from contaminated people as soon as appropriately possible
Plague	Tender lymph nodes, skin lesions, chills, possible hemorrhages leading to pneumonia, circulatory failure and death <b>HIGHLY INFECTIOUS!</b>	Inhalation	<b>If dermal exposure</b> Clothing should be removed by protected personnel  Wash skin with lots of soap and water
Brucellosis	Chills, appetite loss, mental depression, extreme fatigue, aching joints, sweating, and possibly GI symptoms		Give supportive care
			<b>ALL Agents</b> Refer to NBC Card for Treatment Recommendations

## EMS Immediate Response to NBC

Poison Center – 1-800-222-1222

NBC= Nuclear, Biological, Chemical

### **Chemical**    *Symptoms usually immediate* *Protect SELF First with PPE!*

Agents	Symptoms	Exposure	First Response
<b>Irritant Gases</b> Phosgene  Ammonia  Chlorine	<b>Immediate</b> Irritation of eyes, skin, respiratory tract  <b>Delayed</b> Pulmonary edema	Skin Contact  Eyes  Inhalation	<b>ALL Agents</b> <b>Protect caregivers:</b> Use impermeable surgical gown/gloves  Use Level B personal protection equipment  Use positive air pressure respirators  Remove clean people from contaminated people as soon as possible  <b>If dermal exposure is suspected</b> Contaminated clothing should be removed by protected personnel  Wash skin thoroughly with <b>soap and water</b> to deactivate contaminant  Give supportive care  <b>Irritant Gases &amp; Cyanide</b> Maintain airway and administer oxygen immediately, in addition to above recommendations  <b>Nerve Agents</b> Exposure by any route use treatment for symptoms listed under Mark I Kit/ DuoDote
Cyanide	<b>Flushing,</b> headache, altered mental status tachycardia, <b>respiratory depression,</b> lethargy, coma	Inhalation  Ingestion	
<b>Blister Agents</b> Sulfur Mustard  Lewisite  Nitrogen Mustard	<b>Eye pain, gritty eyes,</b> reddened skin, large fluid-filled <b>blisters, slow onset</b>  Immediate pain, eye and lung burning, bee-sting <b>blisters, grayish skin</b>  <b>Eye-pain, gritty eyes,</b> reddened skin, large fluid-filled <b>blisters,</b> respiratory damage	Skin Contact  Eyes  Inhalation  Ingestion	
<b>Nerve Agents</b>  Tabun  Soman  Sarin  Organo-phosphate Insecticides  VX	<b>Mild</b> Constricted pupils, runny nose/nasal secretions, shortness of breath, chest tightness, sweating & fasciculations at site of liquid contact  <b>Moderate</b> Wheezy, profuse airway secretions, respiratory distress, muscle weakness, vomiting, diarrhea  <b>Severe</b> Unconsciousness, <b>seizures,</b> flaccid paralysis, cyanosis, apnea	<b>Mark I Kit/DuoDote</b> Mark I Kit consists of 2 IM auto-injectors; DuoDote is a single IM auto-injector Both Contain: Atropine 2 mg & Pralidoxime 600 mg  <b>Adult Dose = Symptoms</b> Mild: 1 Kit or DuoDote Mod: 2 Kits or DuoDotes Severe: 3 Kits or DuoDotes  <b>AtroPEN (Atropine)</b> 1 auto-injector for IM -1 Pen (0.5 mg) 19-28kg (41-62 lbs) -2 Pens (1 mg) 29-39kg (63-84 lbs) -3 Pens (1.5 mg) 40-49kg (88-108 lbs) -4 Pens (2 mg) >38kg (>84 lbs)  <b>For Seizures</b> <b>Diazepam</b>  <b>Adults</b> 5-10 mg IV/IM <b>Children</b> 0.2-0.5 mg/kg IV or IM May repeat q5-10 min	
			DO NOT REVISE. Copyrighted. Check <a href="http://www.nebraska.gov">www.nebraska.gov</a> for the most recent version or call Nebraska Regional Poison Center at 402-955-5555  <b>Version 3, 2009</b> Massoumi/Candy