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Environmental Exposure Informed Care For Veterans

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The information contained in this presentation is accurate, to our knowledge, when the recording occurred on 4/30/2024.

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Disclosures

We have no relevant relationships with ineligible companies to disclose within the past 24 months.

(Note: Ineligible companies are defined as those whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients.)

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Learning Objectives

At the conclusion of this session, participants should be able to:

- 1. Identify toxic environmental exposures unique to military personnel
- 2. Recognize medical conditions that are presumptively caused by toxic exposures during military service.
- 3. Describe resources that assist in providing informed care for Veterans regarding environmental exposures incurred during military service

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Exposures Encountered By Military Personnel

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Case

Name of Veteran: John Doe #1

Branch: Navy Dates of Service 1965-1970

Military Occupational Specialty: Pipefitter





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How long was the exposure? 5 years

Routes of exposure - oral, dermal, inhaled, mucosal? Inhaled

Were precautions taken? No precautions

What are your concerns about the exposure? Mesothelioma lung cancer



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Asbestos (8)

In 1989, the EPA banned all new uses of asbestos.

Symptoms of asbestos-related diseases do not often appear until 20-50 years after the exposure.

Veterans who served in occupations that involved mining, milling, shipyard work, insulation work, demolition of old buildings, carpentry, construction may have been exposed to asbestos.



The PACT Act

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The PACT Act (9)

- Expands care for Veterans of the Vietnam, Gulf War, and post-9/11 eras
- Adds 20+ presumptive conditions for burn pits, Agent Orange, etc.
- Adds presumptive-exposure locations for Agent Orange and radiation
- Requires VA to provide a toxic exposure screening to every Veteran
- Increases research, education, and treatment related to toxic exposures

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Examples of Toxic Exposures

- Burn Pits
- Herbicide Agent 2,3,7,8 Tetrachlorodibenzodioxin (TCDD), Agent Orange
- Asbestos
- Mustard Gas Nitrogen, Sulfur Mustard, or Lewisite
- Camp Lejeune Water Contamination
- Gulf War Illness in Southwest Asia
- Gulf War Illnesses in Afghanistan
- Radiation

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Case

Name of Veteran: Jane Doe #2

Branch: Army

Dates of Service: 2001-2003, Operation Enduring Freedom, Afghanistan

Military Occupational Specialty (MOS): Artillery



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History What were you exposed to? Burn pits Where and when was the location of the exposure? Afghanistan, 2001-2003 How long was the exposure? 2 years Routes of exposure - oral, dermal, inhaled, mucosal? Inhaled Were precautions taken? No precautions

What are your concerns? Chronic rhinitis and asthma

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Brain cancer	Asthma	Chronic bronchitis / COPD	
Glioblastoma	Chronic sinusitis	Chronic rhinitis	
Bronchiolitis	Emphysema	Granulomatous disease	
Interstitial Lung Disease	Pleuritis	Sarcoidosis	
Pulmonary fibrosis	Reproductive cancer	Respiratory cancer	
Lymphoma	Melanoma	Neck cancer	
Kidney cancer	Head cancer	GI cancer	
Pancreatic cancer			



Case

Name of Veteran: John Doe #3

Branch: Air Force

Dates of Service 1970-1974, Vietnam

Military Occupational Specialty: Sprayed Agent Orange from Planes - Operation Ranch Hand

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History



Hypertension	MGUS	
Bladder cancer	Chronic B-cell leukemia	
Hodgkin's disease	Multiple myeloma	
Non-Hodgkin's lymphoma	Prostate cancer	
Respiratory cancers	Soft tissue sarcomas	
AL amyloidosis	Chloracne	
Diabetes mellitus type 2	Hypothyroidism	
Ischemic heart disease	Parkinson's disease	
Peripheral neuropathy	Porphyria cutanea tarda	
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History

What were you exposed to? Volatile Organic Compounds (VOCs) In Water

Where and when was the location of the exposure? Camp Lejeune 1975-1981

How long was the exposure? 6 years

Routes of exposure - oral, dermal, inhaled, mucosal? Oral, mucosal, dermal

Were precautions taken? No precautions

Concerns: Bladder cancer



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Bladder cancer	Breast cancer
Esophageal cancer	Female infertility
Hepatic steatosis	Kidney cancer
Leukemia	Lung cancer
Miscarriage	Multiple myeloma
Myelodysplastic syndromes	Neurobehavioral effects
Non-Hodgkin's lymphoma	Renal toxicity
Scleroderma	



 Military Occupation Search Portals

 DOD COOL Portal - Research Military Occupations (osd.mil)

 https://www.cool.osd.mil/research-military-occupations.htm

 Military Careers : Occupational Outlook Handbook: : U.S. Bureau of Labor Statistics (bls.gov)

 https://www.bls.gov/ooh/military/military-careers.htm









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Implementing Environmental Exposure Informed Care

Take Home Points

- 1. Ask all patients about military service and exposures during service.
- 2. Veteran benefits have expanded under the PACT Act.
- 3. Use resources such as the Exposure Ed Mobile App to learn more.
- 4. Refer Veterans to Environmental Health Registry Evaluations.
- 5. Direct Veterans to the VA for their disability claim.



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Asking About Military Service Is Key In addition to asking about toxic exposures and injuries, don't forget to ask about emotional responses related to military service such as PTSD, depression, suicidal ideation, and homicidal ideation. Veterans Crisis Line DIAL 988 then PRESS



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Conditio	ns Presumed To Be C	aused By Military Ser	vice Under Th	e PACT Act 🤞	VETERAN DISABILI EXAMINER PAS
Burn Pit Presumptive Conditions I Brain cancer Gastrointestinal cancer (any type) Glioblastoma Head cancer of any type Kidney cancer Lymphoma of any type Melanoma	Asthma	Gulf War Illnesses (2) Chronic Fatigue Syndrome Fibromyalgia Functional GI disorders (dia Nontyphoid salmonella Medically unexplained chroi Other undiagnosed illnesse	arrhea) nic multisystem illne		Brucellosis C. jejuni Shigella
Neck cancer of any type Pancreatic cancer Reproductive cancer of any type Respiratory cancer of any type Sarcoidosis		Radiation Exposure Presum Leukemia (all forms except Thyroid cancer Breast cancer Lung cancer	for CLL)	4) Urinary bladder cancer Salivary gland cancer Multiple myeloma Posterior subcapsula	
Agent Orange Presumptive Condi Hypertension Bladder cancer Hodgkin's disease Non-Hodgkin's lymphoma Respiratory cancers (lung cancer) AL amyloidosis Diabetes mellitus type 2 Ischemic heart disease	MGUS Chronic B-cell leukemia Multiple myeloma Prostate cancer	Non-malignant thyroid nodu Liver cancer Skin cancer Esophageal cancer Stomach cancer Lymphomas other than Hoc Pancreatic cancer Kidney cancer	dgkin's disease	Bone cancer Ovarian cancer Parathyroid adenoma Tumors of the brain / Cancer of the rectum Colon cancer Prostate cancer Any other cancer	CNS
Peripheral neuropathy Asbestos Presumptive Conditions Asbestosis Pleural plaques Mesothelioma lung cancer	Porphyria cutanea tarda	Renal toxicity Hep	ast cancer atic steatosis carriage	Esophageal cancer Kidney cancer Multiple myeloma Neurobehavioral effec	Infertility Lung Cancer Scleroderma ts

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Questions?

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