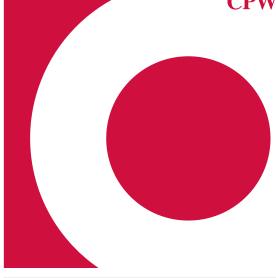
CPWR KEY FINDINGS FROM RESEARCH



Overview

A 2010 study of former construction workers at U.S. Department of Energy nuclear facilities participating in the Building Trades Medical Screening Program (BTMed) found increased risk for chronic obstructive pulmonary disease (COPD). This new study involved a significantly larger cohort of 17,941 BTMed participants, which allowed for a more detailed analysis of COPD risk, including among those whose employment began after the mid-1990s, when additional occupational safety and health programs and controls were implemented. The researchers examined demographic information (age, race, sex, height, and smoking history), employment history (including trade), and respiratory history. The primary study objectives were to: (1) better define overall COPD risk and risk by severity according to trade while considering other factors which can cause COPD (including cigarette smoking); and (2) examine trends in risk by time of construction trade work and DOE site employment.

For more information, contact: John Dement, John.Dement@Duke.edu Read the abstract:

https://bit.ly/3uEyyL0

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Updated Analysis of COPD risk for BTMed participants

COPD risk among older construction workers-Updated analyses 2020

John M. Dement, Marianne Cloeren, Knut Ringen, Patricia Quinn, Anna Chen, Kim Cranford, Scott Haas. American Journal of Industrial Medicine, 2021.

Key Findings

13.4% (around 1/8th) of the study population had chronic obstructive pulmonary disease (COPD); around 2/3rds of the workers with COPD had COPD classified as moderate to severe.

Compared to non-construction workers in the study, construction trade workers were at significantly increased risk of all COPD (OR = 1.34, 95% CI = 1.18–1.54) and even more so for severe COPD (OR = 1.61, 95% CI = 1.32–1.96).

The highest risk trades were cement masons/bricklayers (OR = 2.36; 95% Cl = 1.71–3.26) and roofers (OR = 2.22; 95% Cl = 1.48–3.32).

Risk among workers first employed at a U.S. Department of Energy site after 1995 was elevated but not statistically significant. This suggests that workplace exposures after 1995 have contributed to the risk of developing COPD.

The study results highlight the need for additional preventive measures to reduce occupational exposures to vapors, gases, dusts, and fumes. Also, workers who smoke would greatly benefit from smoking cessation advice and support.



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