CPWR KEY FINDINGS FROM RESEARCH



Overview

Using data collected between 1997 and 2010 from the Building Trades Medical Screening Program, researchers estimated lifetime risk of dust-related occupational lung disease, Chronic Obstructive Pulmonary Disease (COPD), and hearing loss. Researchers analyzed results from 12,742 chest x-rays, 12,679 breathing tests (spirometry), and 11,793 hearing tests to estimate the cumulative risk of occupational injury or fatality for a construction worker in the course of a 45-year career. Lifetime risk of injury and death in the construction industry: Chronic Disease

Risks of a lifetime in construction Part II: Chronic occupational diseases

Knut Ringen, John Dement, Laura Welch, Xiuwen Sue Dong, Eula Bingham and Patricia Quinn. American Journal of Industrial Medicine, November 2014.

Key Findings

Assuming a 45-year working life, the construction trades workers in the sample had a 16% probability of suffering COPD – double the risk suffered by their counterparts employed in the administrative/scientific/security control group. For some trades the risk was considerably higher: one-third of roofers who survived to age 85 could expect to develop COPD.

Chest x-rays indicated that a construction worker has an 11% lifetime probability of parenchymal abnormalities associated with dust-related occupational lung diseases (pneumoconioses). This was nearly three times the risk experienced by the administrative/scientific/security control group (3.7%).

Hearing tests with this group suggested that a construction worker with a 45year career has a 73.8%% probability of material hearing loss. The administrative/ scientific/security control group had a significantly lower probability of hearing loss (43.4%).

For more information, contact: Sue Dong: sdong@cpwr.com

See abstract: http://bit.ly/1XtH4GL

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