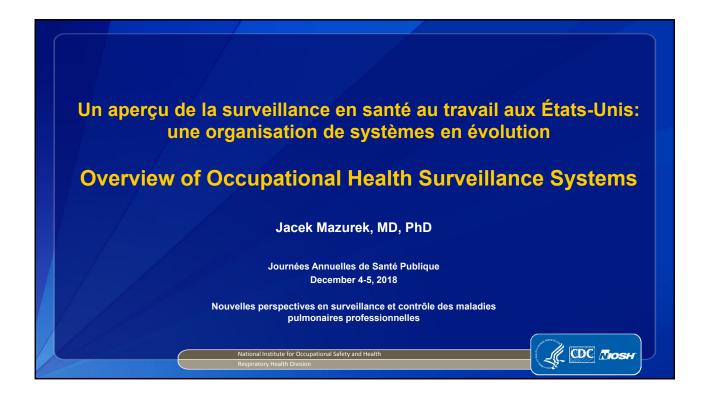
Cette présentation a été effectuée le 4 décembre 2018 au cours de la journée « Nouvelles perspectives en surveillance et contrôle des maladies pulmonaires au Québec » dans le cadre des 22es Journées annuelles de santé publique (JASP 2018). L'ensemble des présentations est disponible sur le site Web des JASP à la section Éditions précédentes au : https://www.inspq.qc.ca/jasp.



Objectives

 To present background information about NIOSH national occupational respiratory disease surveillance

NIOSH Surveillance

- National/State population-based systems
 - Limited information on work and exposures
 - Robust and ongoing
- State-based case reporting
 - Detailed information on work and exposures
 - Selective ascertainment
- Worker populations
 - Health Hazard Evaluations
 - Ongoing worker monitoring



https://www.cdc.gov/niosh/hhe/about.html

Population-based Systems

- National Health Interview Survey (NHIS)
 - Occupation, industry, asthma, COPD
- National Health and Nutrition Evaluation Survey (NHANES)
 - Asthma, COPD, pulmonary function, exhaled NO
- Behavioral Risk Factor Surveillance System (BRFSS)
 - Asthma Call-back Survey (ACBS)
 - Work-related asthma, occupation, industry
- National Vital Statistics System (NVSS) mortality data
 - ICD-10 codes; Industry and occupation for selected states and years

BRFSS ACBS: Work-Related Asthma (WRA)

Have you ever been told by a doctor or other health professional that your asthma was caused by, or your symptoms made worse by, any job you ever had?



https://www.cdc.gov/brfss/acbs/index.htn

BRFSS ACBS: Possible WRA

No WRA and...

- 1. Are your asthma symptoms made worse by things like chemicals, smoke, dust, or mold in your current job?
- 2. Was your asthma first caused by things like chemicals, smoke, dust, or mold in your current job?
- 3. Were your asthma symptoms made worse by things like chemicals, smoke, dust, or mold in any previous job you ever had?
- 4. Was your asthma first caused by things like chemicals, smoke, dust, or mold in any previous job you ever had?

State-based Case Reporting (Silicosis, WRA)

- Physician case reports
- Hospital Discharge data
- Emergency room data
- Poison Control data
- Workers' Compensation Systems



https://www.cdc.gov/niosh/topics/surveillance/ords/statesurveillance/silicosis.html

 Demographic, work-history, and medical information collected for case confirmation, classification, and description through a combination of data sources, review of medical records, and when possible, a follow-up interview with reported cases.

Worker Populations

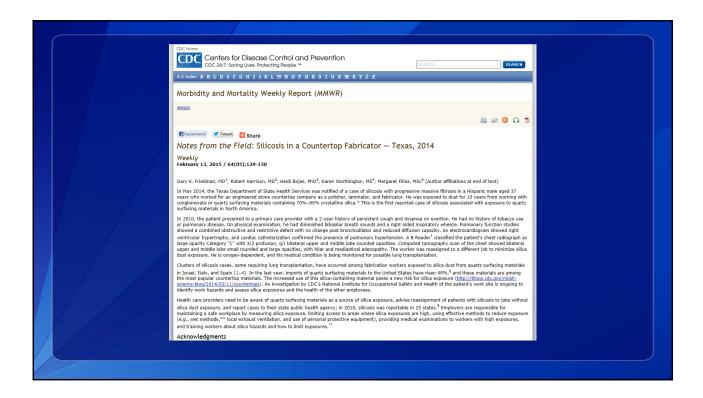
- Health Hazard Evaluations
- Coal Workers' Health Surveillance Program
 - https://www.cdc.gov/niosh/topics/cwhsp/default.html
- Employer sponsored monitoring programs
- Tools for respiratory health surveillance
 - ILO Classification of chest radiographs (B Reader Program)
 - Spirometry (Spirometry Course Certification Program, SPIROLA*)



*Spirometry Longitudinal Data Analysis Software (SPIROLA): https://www.cdc.gov/niosh/topics/spirometry/spirola-software.html



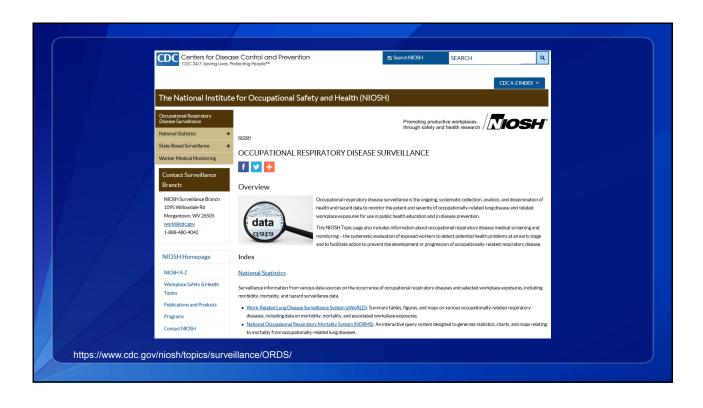
https://www.cdc.gov/niosh/hhe/about.html





Dissemination of Data

- Publications & presentations
- Web-based products
 - Work-Related Lung Disease Surveillance System (eWoRLD) http://wwwn.cdc.gov/eworld
 - National Occupational Respiratory Mortality System (NORMS) http://webappa.cdc.gov/ords/norms.html



State-Based Surveillance

 $Information \, on \, state-based \, surveillance \, of \, occupational \, respiratory \, disease, \, including \, work-related \, asthma \, (WRA) \, and \, silicosis.$

- $\bullet \ \underline{Work\text{-}Related \, Asthma \, (WRA)} : Information \, on \, WRA \, surveillance \, programs \, from \, NIOSH \, funded \, states.$
- $\bullet \ \underline{Silicosis} : Information \ on \ silicosis \ surveillance \ programs \ from \ NIOSH \ funded \ states.$

Worker Medical Monitoring

Information providing technical assistance and recommendations for worker medical monitoring for occupational respiratory diseases, including the NIOSH B Reader Program and the NIOSH-Approved Spirometry Training Program.

- Radiographic Monitoring: Radiographic monitoring for the pneumoconioses, especially coal workers' pneumoconiosis (CWP), is a widely accepted
 practice.
- <u>Spirometric Testing</u>: Spirometric testing is frequently utilized in the United States to monitor workers at risk for chronic obstructive pulmonary disease and asthma.

Coal Workers' Health Surveillance Program (CWHSP)

 $Information \, on \, the \, \underline{Coal \, Workers' \, Health \, Surveillance \, Program}, a \, federally \, mandated \, medical \, monitoring \, program \, for \, coal \, miners.$

- Expanded Coal Workers' Health Surveillance Program (Spirometry): Information on how to participate in the CWHSP for coal miner operators, contractors, radiographic facilities, spirometric facilities, and coal miners.
- <u>Coal Workers Health Surveillance Program (CWHSP) Data Query System</u>: This query system generates tables by Disease Severity Level and Disease Severity Prevalence, by demographic and geographical criteria for the total number of underground miners who participated in the CWHSP program.
- <u>Enhanced Coal Workers' Health Surveillance Program (ECWHSP):</u> Information on the Enhanced Coal Workers' Health Surveillance Program (ECWHSP), a collaborative program with MSHA to institute field surveys of coal miners.

https://www.cdc.gov/niosh/topics/surveillance/ORDS/

Thank You!

For more information please contact: Jacek Mazurek, MD

1095 Willowdale Road, Morgantown, WV 26505 Telephone, 304-285-5983 Email: jmazurek1@cdc.gov Web: www.cdc.gov/niosh/

The findings and conclusions in this presentation are those of the authors and do not necessarily represent the official views of NIOSH or CDC.

