## Occupational Health Surveillance

# Using data on work-related injuries and illnesses to support prevention efforts in worker safety and health

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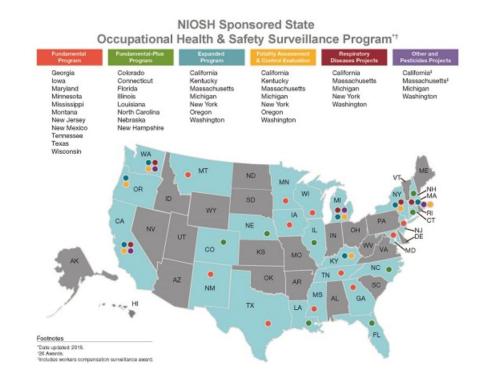
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## **Presentation Objectives**

- General Overview of Occupational Health Surveillance
- Describe the value of population-based surveillance for work-related injuries
- General stats on the magnitude of work-related injury and illness in the nation and state
- Provide links to state-based occupational health indicator statistics for different states

## OH surveillance is done through collaboration

- States 26 formally funded\*
- National Institute for Occupational Safety and Health (NIOSH)
- Council of State and Territorial Epidemiologists (CSTE)



\*22 states funded in new round of funding

## Program Framework

 Based on CSTE and NIOSH: Occupational Health Indicators: A Guide for Tracking Occupational Health Conditions and Their Determinants.\*

#### \*Available from:

https://cdn.ymaws.com/www.cste.org/resource/resmgr/occupationalhealth/OHI GuidanceManual 2018 FINA.pdf

Participating States' OHI's are posted here: <a href="https://www.cste.org/group/OHIndicators">https://www.cste.org/group/OHIndicators</a>

## What is Surveillance?

## On-going, systematic

- collection, analysis, and interpretation of health data which is essential to the planning, implementation and evaluation of public health practice
- dissemination of these data to those who need to know for the purposes of prevention
- "follow-up to see that action has been taken"

Teutsch and Churchill: Principles and Practice of Public Health Surveillance

## **Types of Occupational Health Data**

- Health endpoints:
  - work-related injuries
  - work-related illnesses
  - fatalities
  - biologic measures of exposure
- Hazards/Exposures
- Interventions



## **Types of Surveillance Systems**

### Case-based surveillance

Collect information about individual cases with personal identifiers that can be used for case followup

Some states have laws for reporting specific occupational health conditions.

## Common Reportable OH Conditions

Health Condition	Major Data Sources

Work-related asthma

Health care provider reports

In-patient and ED data Workers' comp claims

Teen worker injuries (<18)

In-patient and ED data

Workers' comp claims

Elevated blood lead levels Clinical lab reports

Acute chemical poisonings Physician and ED reports

Hyperbaric chamber reports

**Poison Control Center** 

Serious burns State Burn Registries

## **Types of Surveillance Systems**

## Population-based surveillance:

- use of large representative data sets to track trends over time and space;
- but does not require access to personal identifiers.
- Caveat: Not necessarily designed to capture work-related injuries & illnesses

## **State Data Sources**

- Hospital Data (inpatient, discharge, ED, ambulatory)
- New England Poison Control Center
- Mortality Data
- Cancer Registry Data
- Workers' Compensation (Department of Labor)
- ABLES (Adult Blood Lead Elevations)
- Behavioral Risk Factor Surveillance System Survey
- State Public Health Laboratories
- NH Labor/Economic Data
- Emergency Management System (EMS) Data

## **National Data Sources**

- Other surveillance programs at CDC
- Bureau of Labor Statistics
- Sentinel Event Notification System for Occupational Risks (SENSOR)
- Census of Fatal Occupational Injuries (CFOI)
- Survey of Occupational Injuries and Illnesses (SOII)
- National Traumatic Occupational Fatalities (NTOF) Surveillance System
- National Center for Health Statistics (NCHS) Vital Statistics Mortality Surveillance System
- Census Current Population Survey (CPS) and other national surveys (ACS)

## What is an Occupational Health Indicator?

 Provides information about a population's health status with respect to workplace injuries and illnesses or to factors that can influence health.

 Measures either health (work related disease or injury) or factors associated with health, such as workplace exposures, hazards or interventions.

## **Core Occupational Health Indicators**

- Non-fatal work-related injuries and illnesses reported by employers
- Work-related hospitalizations
- Fatal work-related injuries
- Work related amputations with days away from work reported by employers
- State workers' compensation claims for amoutations with lost work time
- Hospitalization for work related burns
- Work related musculoskeletal disorders with days away from work reported by employers.
- Carpal tunnel syndrome cases filed with the state workers' compensation system
- Hospitalization from or with pneumoconiosis
- Mortality from or with pneumoconiosis
- Work related asthma

## Indicators (continued)

- Acute work-related pesticide associated illness and injury reported to poison control centers
- Incidence of malignant mesothelioma
- Elevated blood levels among adults
- Occupational heat-related emergency department visits
- Influenza vaccination coverage among healthcare personnel
- Percentage of workers employed in industries at high risk for occupational mortality
- Percentage of workers employed in occupations at high risk for occupational morbidity
- Percentage of workers employed in industries and occupations at high risk for occupational mortality
- OSHA Enforcement Activities
- Workers' compensation awards

## Why do people need data about work related injury and illness?

- > Early event detection (disease outbreaks)
- > Safety and health program development
- > Intervention assessment
- > Resource allocation
- ➤ Grant applications
- Business and community planning
- Research focused on prevention
- Citizen inquiries about their work environments

## **NH OHSP Goals**

- Assess the extent and severity of workplace injuries, illnesses, disability, deaths, hazards and/or exposures;
- Identify workers and occupations at greatest risk through data collection of industry, occupation, and work status;
- Develop research and prevention (program)
  policies through partnerships with public health
  and non-public health organizations; and
- Expand outreach and dissemination.

## Some Stats from NH.....

https://iod.unh.edu/sites/default/files/ media/NHOHSP/Pubs/occupational\_in jury\_and\_illness\_in\_new\_hampshired final.pdf

## NH Report Highlights



#### NH's aging workforce is growing

Workers age 65+ make up a larger proportion of the workforce, nearly doubling in size from 3.9% in 2008 of all workers to 7.7% in 2018.



#### 40 hours or more work weeks

NH workers are more likely to be working 40 hours or more per week, increasing from 61.8% in 2008 to 66.8% in 2018.



#### 264 work-related fatalities

From 2000 to 2018 there were 264 work-related fatalities in NH, with 20 occurring in 2018.



#### 1,735 work-related hospitalizations

There were over 1,735 work-related hospitalizations for persons age 16 years and older, where the expected payer is workers' compensation.



#### high risk for morbidity

In 2018, one in twenty NH workers were employed in industries at high risk for morbidity. One in seven are employed in high-risk occupations for morbidity.



### high risk for

More than one in seven adults with asthma reported they had been told by their healthcare provider that their asthma was work-related.



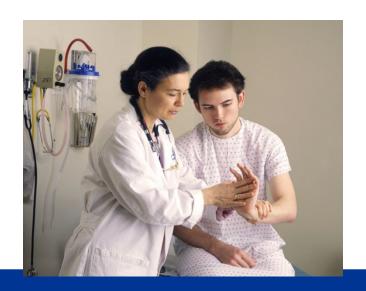
#### high risk for mortality

In 2018, one in seven NH workers were employed in occupations or industries at high risk for mortality.

## New Hampshire Employment Demographics



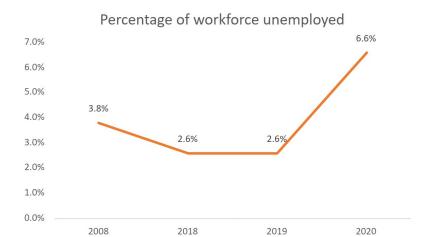


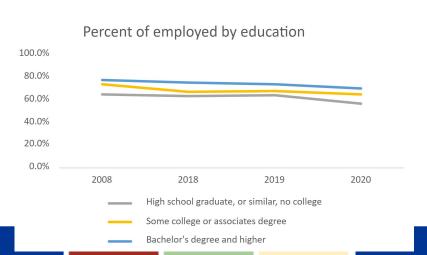


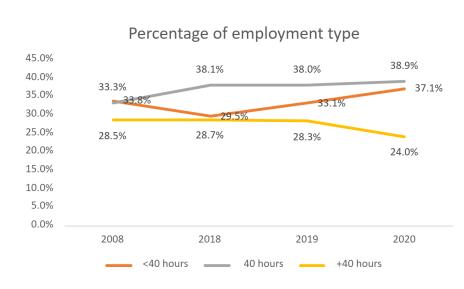
### Employed Persons 16 Years or Older 2008-2020

Demographic Indicators	2008	2018	2019	2020
Total Number of employed persons 16 years or older <sup>1</sup>	712000	745000	756000	754000
Percentage of workforce unemployed <sup>1</sup>	3.8%	2.6%	2.6%	6.6%
Percentage of employment self-employed <sup>1</sup>	7.6%	7.1%	6.6%	6.4%
Percentage of employment in part-time jobs <sup>1</sup>	19.9%	18.3%	18.9%	17.3%
Percentage of employment by number of hours worked per week <sup>1</sup>				
<40 hours	33.8%	29.5%	33.1%	37.1%
40 hours	33.3%	38.1%	38.0%	38.9%
+40 hours	28.5%	28.7%	28.3%	24.0%
Percentage of employment by sex <sup>1</sup>				
Males	N/A	N/A	53.0%	52.7%
Females	N/A	N/A	46.8%	47.3%
Percentage of employment by age group <sup>1</sup>		•	•	
16 to 17	2.1%	1.9%	1.7%	1.7%
18 to 64	93.9%	90.4%	91.3%	90.5%
65+	3.9%	7.7%	7.0%	7.7%
Percentage of employment by race <sup>1</sup>				
White	95.9%	1.2%	94.1%	94.0%
Black	1.1%	1.2%	1.7%	2.0%
Other	2.9%	5.0%	4.2%	3.9%
Percentage of employment by Hispanic origin <sup>1</sup>	1.8%	3.8%	3.2%	3.5%
Percentage of employment by education, Ages 25+1				
Less than a high school diploma	39.3%N	3%N/A N/A		42.1%
High school graduate, or similar, no college	64.7%	63.0%	63.9%	56.4%
Some college or associates degree	73.7%	67.0%	67.6%	64.4%
Bachelor's degree and higher	76.9%	74.9%	73.8%	69.9%

## Employed Persons 16 Years or Older 2008-2020 (Charts – to highlight trends)







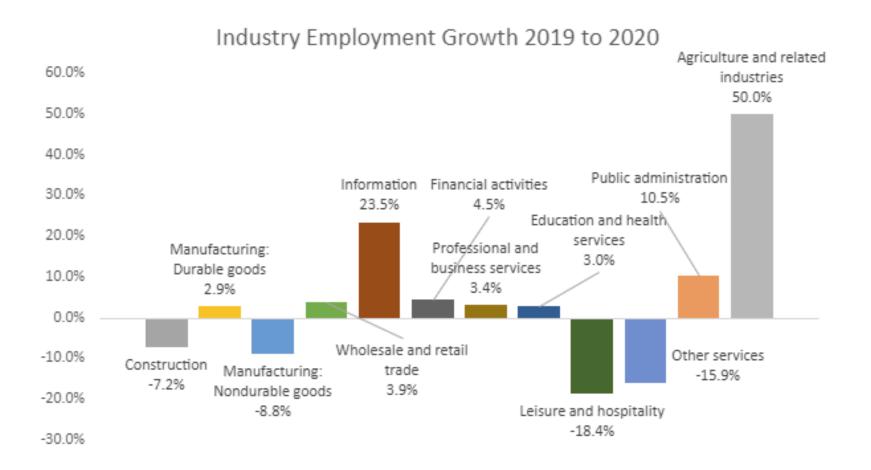
### Percentage of employment by industry

Percent of employment by Industry <sup>1</sup>	2008	2018	2019	2020	
Mining and Logging	0.1%	0.0%	0.1%	0.0%	
Construction	7.4%	8.2%	8.3%	7.7%	
Manufacturing: Durable goods	10.6%	10.4%	10.5%	10.8%	
Manufacturing: Nondurable goods	3.2%	3.1%	3.4%	3.1%	
Wholesale and retail trade	15.3%	13.5%	12.9%	13.4%	
Transportation and utilities	3.9%	3.8%	3.9%	3.9%	
Information	2.7%	2.0%	1.7%	2.1%	_
Financial activities	6.7%	6.1%	6.6%	6.9%	
Professional and business services	10.6%	12.3%	11.8%	12.2%	
Education and health services	21. <del>9%</del>	23.5%	23.4%	24.1%	
Leisure and hospitality	8.0%	8.4%	8 7%	7.1%	
Other services	4.3%	4.2%	4.4%	3.7%	
Public administration	4.6%	3.9%	3.8%	4.2%	
Agriculture and related industries	0.8%	0.6%	0.6%	0.9%	

Data Source: 1. BLS Geographic Profiles of Employment and Unemployment (https://www.bls.gov/opub/geographic-profile/archive.htm)

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### Percent change of industry employment percentage



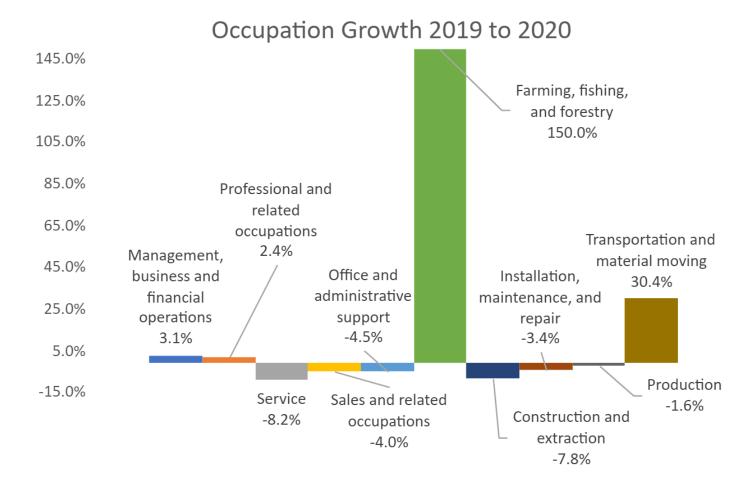
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### Percentage of employment by occupation

Percent of employment by Occupation <sup>1</sup>	2008	2018	2019	2020
Management, business and financial operations	16.8%	18.2%	19.1%	19.7%
Professional and related occupations	23.4%	25.2%	24.5%	25.1%
Service	14.6%	16.0%	15.9%	14.6%
Sales and related occupations	10.9%	10.2%	10.1%	9.7%
Office and administrative support	13.6%	10.2%	11.2%	10.7%
Farming, fishing, and forestry	0.4%	0.2%	0.2%	0.5%
Construction and extraction	5.6%	5.7%	5.1%	4.7%
Installation, maintenance, and repair	3.6%	2.8%	2.9%	2.8%
Production	6.6%	7.0%	6.4%	6.3%
Transportation and material moving	4.6%	4.6%	4.6%	6%

Data Source: 1. BLS Geographic Profiles of Employment and Unemployment (https://www.bls.gov/opub/geographic-profile/archive.htm)

### Percent change of occupation employment percentage



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### Percentage of employment by Disability Status

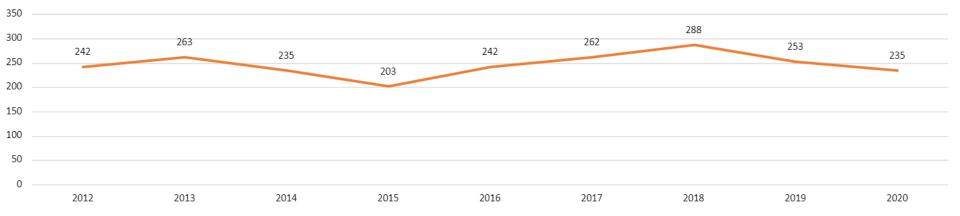
Percent of employment by Disability Status <sup>2</sup>	2009	2018	2019	2020	2021	2022
With Disability	18.9%	19.3%	19.3%	18.0%	20.7%	22.6%
Without Disability	63.4%	66.3%	66.8%	62.7%	65.0%	65.6%
Deaf or serious difficulty hearing	22.8%	24.9%	21.7%	21.4%	22.3%	23.4%
Blind or serious difficulty seeing	18.9%	21.5%	21.4%	20.4%	23.9%	21.8%
Serious difficulty concentrating, remembering,						
or making decisions	15.0%	16.2%	17.5%	16.9%	20.6%	21.9%
Serious difficulty walking or climbing stairs	13.0%	12.2%	12.4%	9.9%	11.8%	13.9%
Difficulty dressing or bathing	6.8%	7.0%	6.7%	5.3%	6.5%	7.1%
Difficulty doing errands alone	6.9%	7.6%	7.5%	6.4%	8.0%	8.9%

Data Source: 2. U.S. Census Bureau Current Population Survey (2008,2018,2019,2020), 1-year estimates. Summarized at Demographic Profiles: https://unhiod.shinyapps.io/DemographicProfiles/

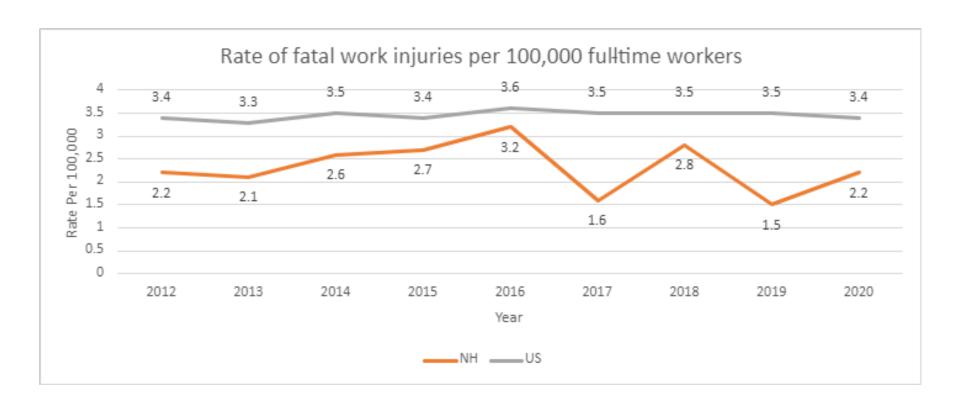
## Annual rate of Work-Related Hospitalizations 16 years and older

Year	Work-Related Hospitalizations
2012	242
2013	263
2014	235
2015	203
2016	242
2017	262
2018	288
2019	253
2020	235

#### Work-Related Hospitalizations, Ages 16+



## Annual rate of fatal work-related injuries in NH and U.S., 2012-2020

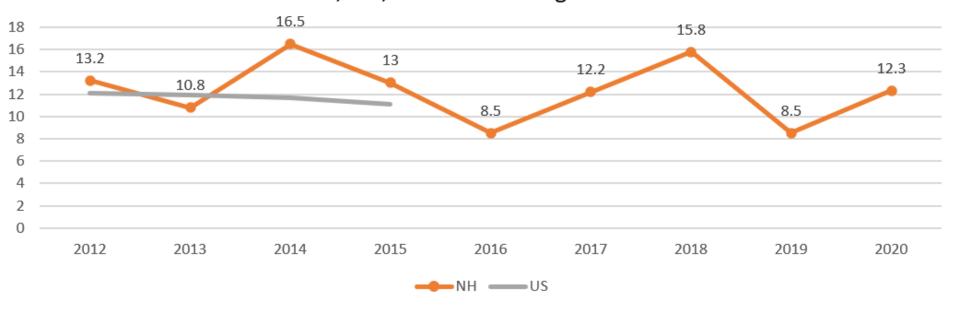


## Hospitalization and Fatalities associated with pneumoconioses

Year		Inpatient coal workers' pneumoconiosis	Inpatient asbestosis	Inpatient silicosis	Inpatient other and unspecified pneumoconiosis
2012	90	1	80	7	2
2013	82	5	73	4	0
2014	100	3	91	7	1
2015	95	4	85	4	2
2016	68	1	64	2	1
2017	63	1	59	3	0
2018	56	0	54	1	1
2019	57	3	50	3	1

# Annual rate per 1,000,000 NH and U.S. residents, age 15 years and older, with malignant mesothelioma, 2012-2019

NH & US Malignant Mesothelioma, 2012-2019 Age Adjusted Per 1,000,000 Residents Ages 15+



## Annual number of elevated blood lead levels over time age 16 years and older, New Hampshire 2013-2020

Table 1: Blood lead levels over time, New Hampshire residents 16 years and older (2013-2020)

Blood Lead Level	2013	2014	2015	2016	2017	2018	2019	2020
<5 μg/dL	1,400	1,603	1,993	2,294	2,469	2,365	2,567	1,976
5-9 μg/dL	202	223	208	239	245	234	166	137
10-24 μg/dL	156	108	140	140	173	136	121	83
25+ μg/dL	23	14	15	38	25	31	17	7

**Note** - The results in this and following tables are limited to the single highest blood lead value per person per year.

State of New Hampshire Adult Blood Lead Report: 2013-2020 (nh.gov)

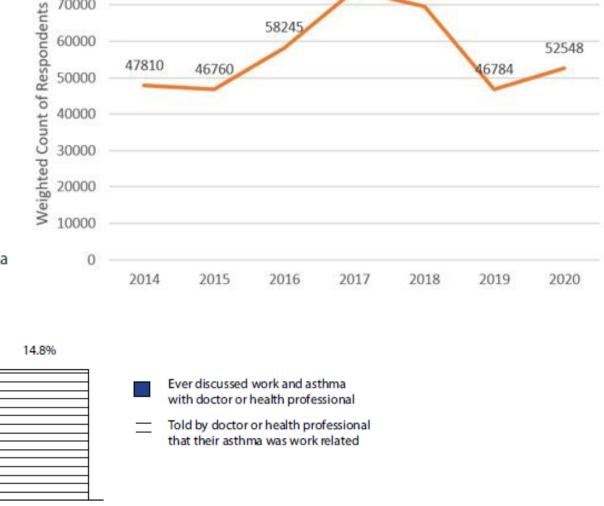
## Lead Test Results > 24 ug/dL or higher by Industry, 2013-2020

Table 4: Industry sector for cases 25 μg/dL or higher with occupational information (n=82)

Sector	Description	Count	Percent
22	Utilities	<5	<5%
23	Construction	28	34%
31-33	Manufacturing	26	32%
42	Wholesale Trade	<5	<5%
56	Administrative and Support and Waste Management and Remediation Services	13	16%
71	Arts, Entertainment, and Recreation	6	7%
81	Other Services (except Public Administration)	<5	<5%
92	Public Administration	<5	<5%

State of New Hampshire Adult Blood Lead Report: 2013-2020 (nh.gov)

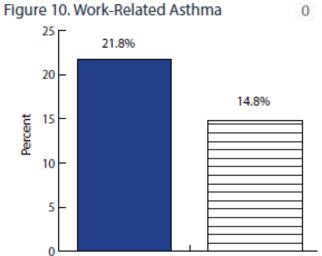
## Work-Related **Asthma BRFSS**



58245

74001

69557

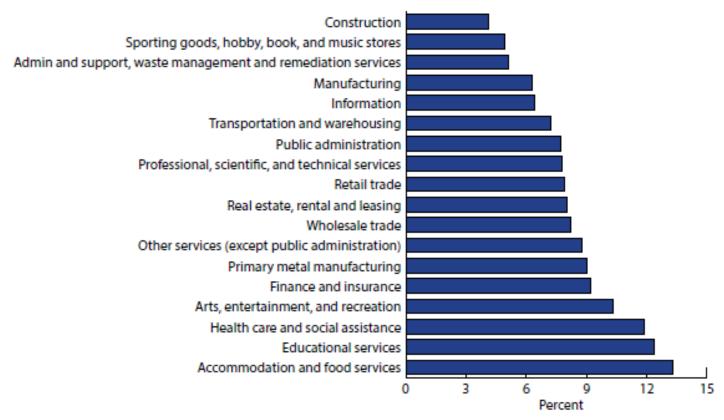


80000

70000

## Work-Related Asthma

Figure 12. Percent of NH Workers Reporting Current Asthma by Industry, BRFSS-ACB, 2014-2016

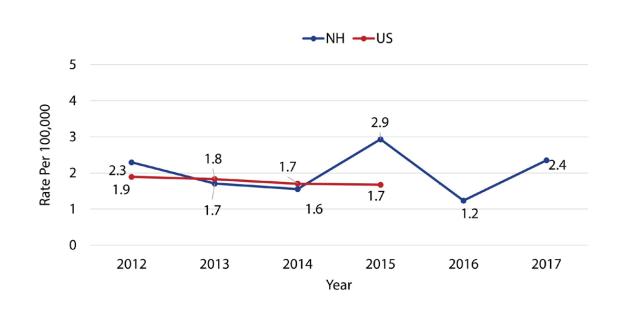


Data Source: NH Behavioral Risk Factor Surveillance System Survey (BRFSS)

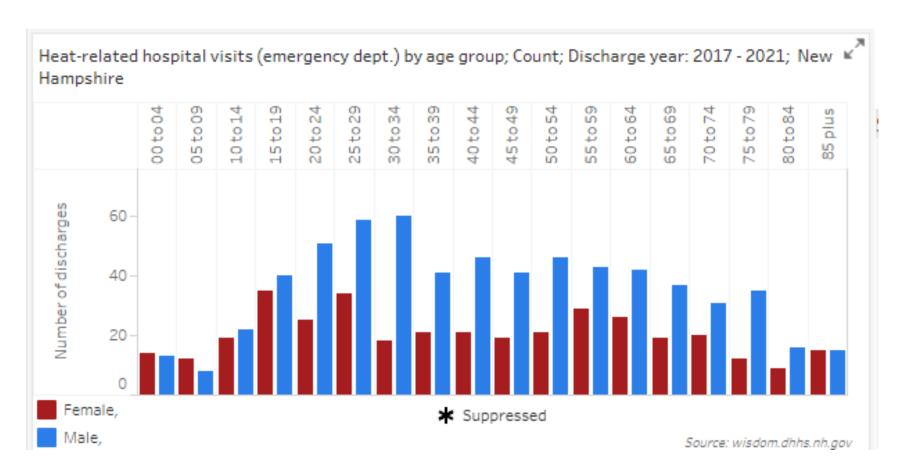


#### Year **Total**

# Occupational Poisonings NH and US Pesticide Associated Illness/Injury 2012-2017 Rate per 100,000 Employed Ages 16+

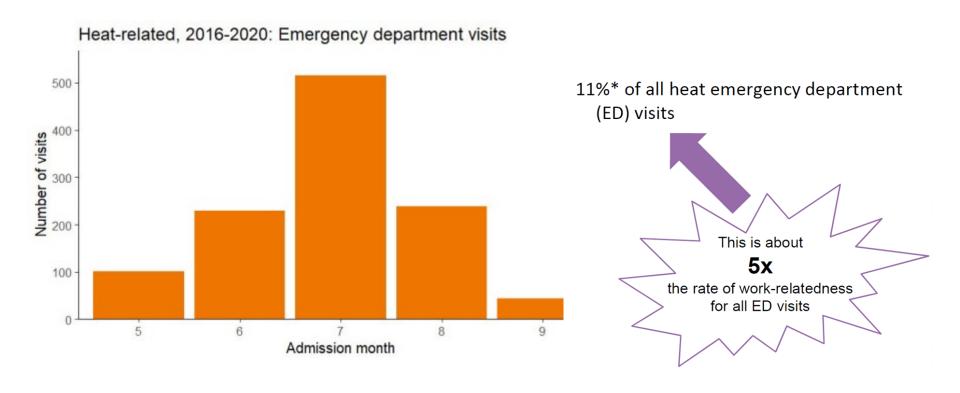


## **Heat Related Illness**



NH DHHS Data Portal, Environmental Public Health Tracking Portal https://wisdom.dhhs.nh.gov/wisdom/topics.html?topic=climate-and-weather

## Heat Related Illness



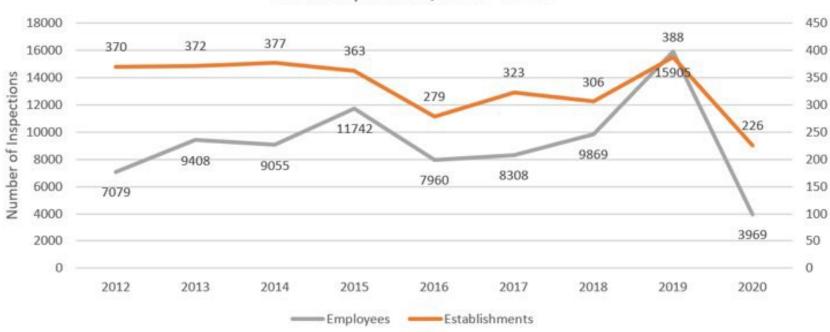
NH DHHS Environmental Public Health Tracking Program https://www.dhhs.nh.gov/programs-services/environmental-health-and-you/environmental-public-health-tracking

#### Morbidity and Mortality by Industry and Occupation

Indicator	2017	2018	2019	2020	2020
Percent Employed in Industries at High Risk for Morbidity	5.3%	5.0%	4.1%	4.1%	4.3%
Percent Employed in Industires at High Risk for Mortality		14.4%%	14.5% %	14.4%	12.7%
Percent Employed in Occupations at High Risk for Morbidity	14.3%	13.9%	13.5%	14.2%	11.9%
Percent Employed in Occupations at High Risk for Mortality	10.0%	9.7%	10.4%	10.0%	8.1%

# **OSHA Enforcement Activities**





# Workers' Compensation Benefits Paid per Covered Job, NH 2010-2020

Year	Total Benefits Paid	Covered Jobs	Benefits Paid per Covered Worker	Benefits Paid per Covered Worker Adjusted by CPI-U for 2020
2010	\$251,667,000	593,000	\$424	\$509
2011	\$231,800,000	598,000	\$388	\$458
2012	\$231,235,000	605,000	\$382	\$438
2013	\$225,500,000	611,000	\$369	\$416
2014	\$212,778,000	619,000	\$344	\$382
2015	\$213,923,000	629,000	\$340	\$378
2016	\$205,663,000	640,000	\$321	\$352
2017	\$209,535,000	646,000	\$324	\$347
2018	\$209,489,000	651,000	\$322	\$338
2019	\$207,719,000	657,000	\$316	\$326
2020	\$201,706,000	616,000	\$327	\$327

11/15/2023

#### **Indicators to Watch**

- Work-related hospitalizations (Indicator #2) has been increasing steadily since 2015 (203 to 288) and merits close review in future years to assess whether the trend continues.
- Work-related deaths (Indicator #3), have, outside of 2017, shown a steady increase in the rate per 100,000 since 2012, increasing from 2 per 100,000 to 2.8 in 2018.

#### Business and community planning

- Reported adult blood lead levels (Indicator #13) of 10 µg/dL or higher have increased 19%from 2012 (100) to 2016 (124), with those above 25 µg/dL more than doubling during the same time period from 12 to 27.
- Workers' Compensation (Indicator #19) data shows that the average benefits per covered worker is \$167 less in 2018 than 2010, a 34% drop in coverage during a time of rapidly increasing health care costs.

## SEPARATE RESEARCH PROJECTS

# Injury Prevention

**State of New Hampshire** 

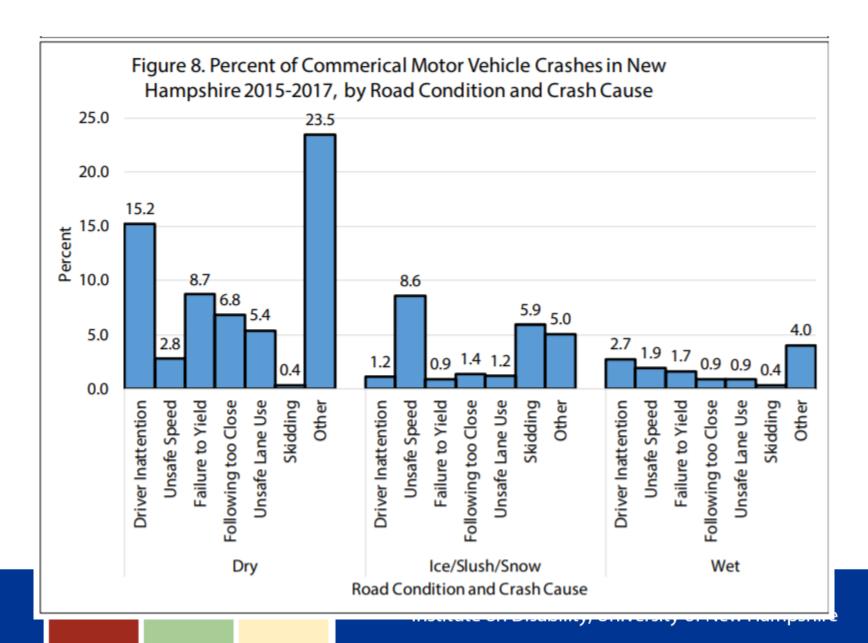
Violence and Injury Prevention 5-Year Plan

https://www.dhhs.nh.gov/dphs/bc hs/mch/documents/nh-vip-plan-2020-2025.pdf

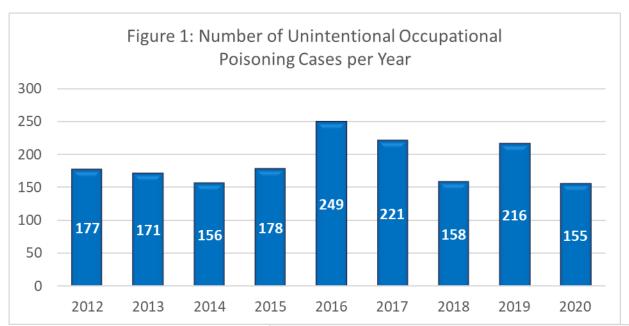
- NH's workforce has been severely impacted by the state's opioid crisis in recent years.
- In 2018, those in their prime working age of 30-49 accounted for 55% of lethal overdose deaths in workers.
- In the last five years in NH (2014-2018), those working in the construction industry have had the highest incidence of opioid overdose deaths, accounting for one-third (36%) of all overdose deaths among workers.

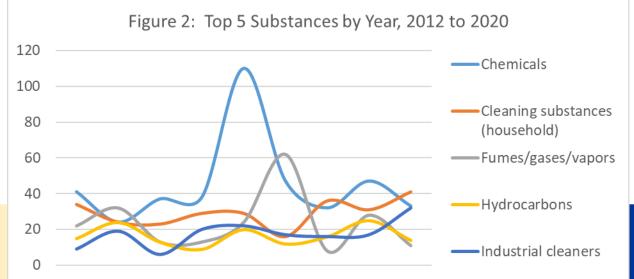
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#### **Commercial Motor Vehicle Crashes**

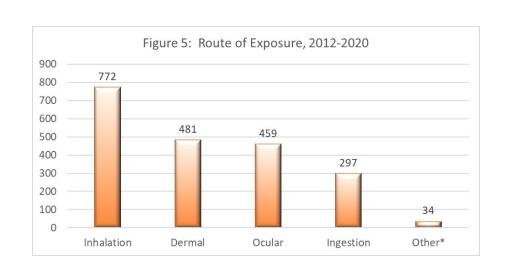


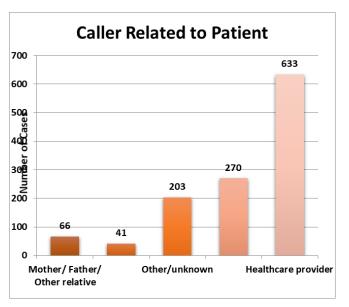
#### Occupational Poisoning Data – Northern New England Poison Center

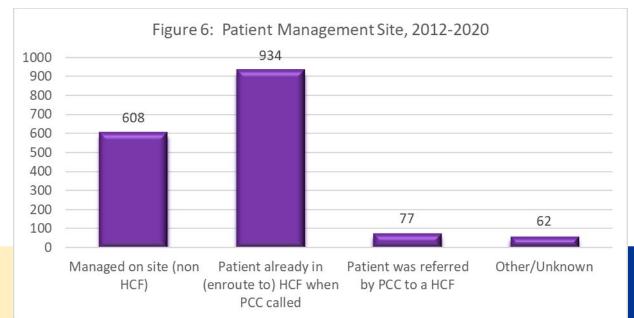




#### Occupational Poisoning: Poison Center Data

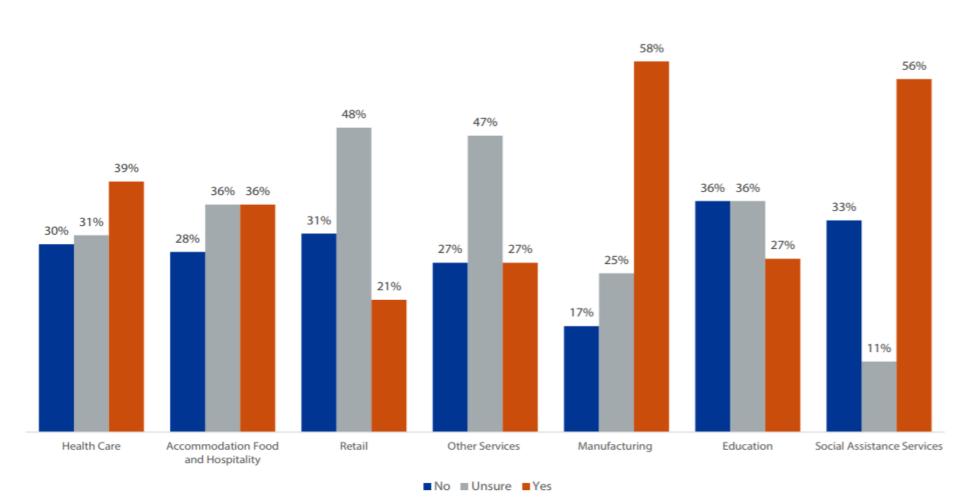






# Exploration of breastfeeding barriers associated with returning to work among women enrolled in the NH WIC Program

Would you have continued breastfeeding longer if it was easier to pump at work?



#### **Employment Opportunities Benefit NH Adults with Cognitive Disabilities**

Working-age adults with cognitive disabilities in New Hampshire (NH) are less likely to live in poverty and more likely to report that they feel healthier when they work for wages or are self-employed.



31% of employed adults ages 18 to 64 with cognitive disabilities report their health is "fair" or "poor," compared to 51% who do not have jobs1



12% of employed adults ages 18 to 64 with cognitive disabilities have annual household income less than \$15,000, compared to 35% who do not have jobs1

"[My job] solidifies my position in the community. It gives me a sense of purpose and an income."

John lives in Lebanon, NH and has a brain injury and visual impairment

**Employment** among People with Cognitive Disabilities in NH

9.5% of NH adults report a cognitive disability

of NH adults ages 18-64 with a cognitive disability are employed for wages or selfemployed

33%



16% of employed NH adults with a cognitive disability work in the retail trade



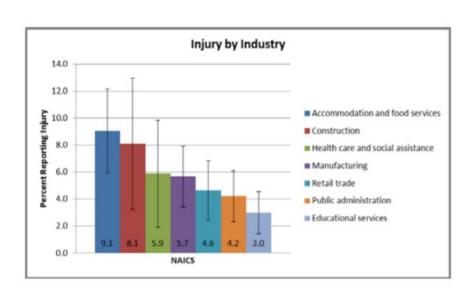
of employed NH

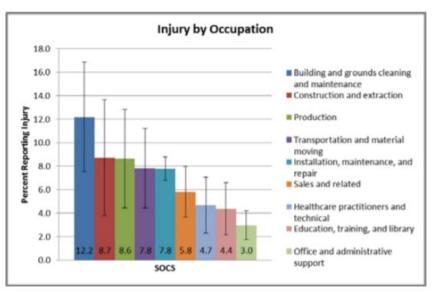
14%

adults with a cognitive disability work in health care or social assistance

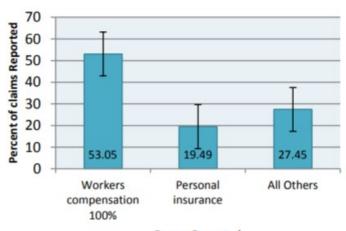


# Utilization of the NH Behavioral Risk Factor Surveillance System (BRFSS) to Better Understand UnderReporting of Work-Related Injuries



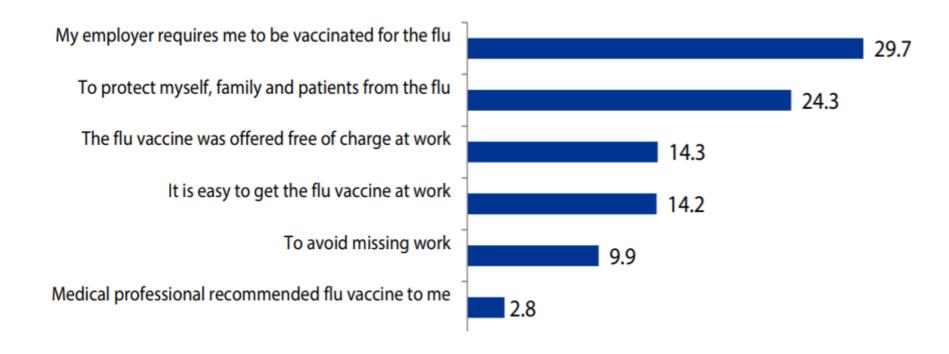


#### Work-Related Injury by Payer Source

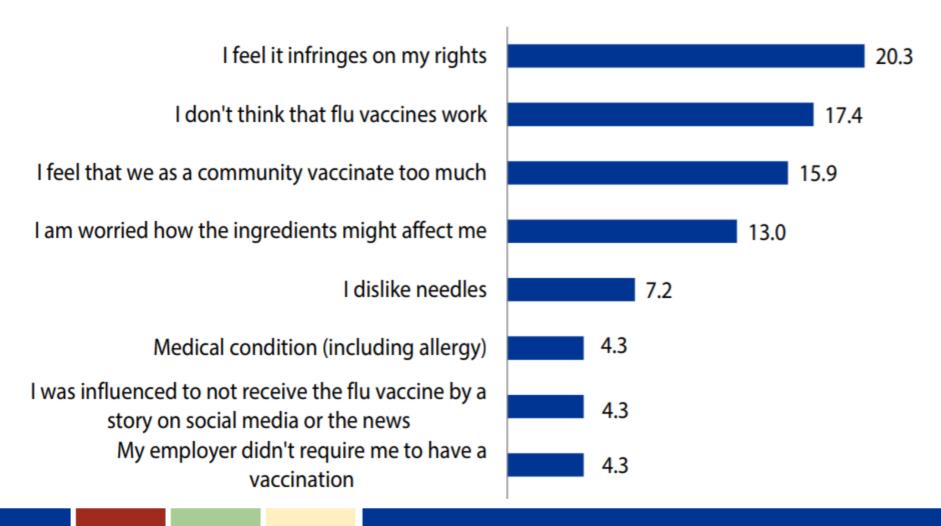


# Impact of Influenza Policies among New Hampshire Healthcare Personnel

#### Top reasons for getting the flu vaccine



# Top reasons for not getting the flu vaccine



# Immigrant /Refugee Workers in Partnership with NH COSH



- 366 immigrants/refugees completed surveys, and 229 (63%) reported working in the U.S. now or at some point in their lives.
- The most common reported job/industry categories were factory, cleaning, food service, farming, service, construction and retail.
- 29 respondents, or about 10% of those who have worked in the U.S., noted they had been injured at work. Common body parts affected included hands, fingers, wrists, backs, knees, feet, elbows, and abdominal regions.

#### **Immigrant Survey Report**

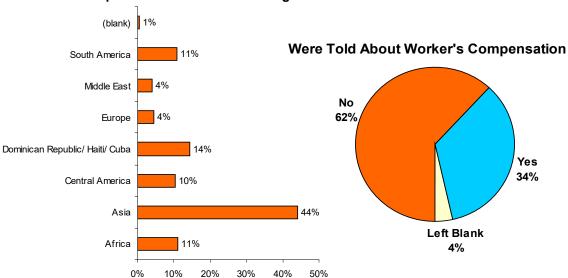
### February 2013

Number weeks out of work	Hurt at work (Yes)
Less than 1 week	2
1 week	4
2 weeks	4
4 weeks	3
8 weeks	1
28 weeks	1
(blank)	2
Grand Total	17

Who Paid The Bill? (could choose more than one)	Hurt at work (Yes)
Bill Paid-WC	8
Bill Paid-Your own health insurance	5
Bill Paid-Your own money	9
Bill Paid-Your employer/company	9
Bills-never paid	6
Never got a bill	6

#### **Respondents' Continents of Origin**

of the 229 respondents who reported working in the U.S., 69% reported that they always or sometimes maintain tiring or painful positions at work.



## **Hazard Alerts**

- Protect Yourself from Ticks Where You Work
- Removing Snow from Rooftops is Dangerous
- Heat Illness at Work Can Be Deadly
- Tree Work Can Be Fatal
- NH Methylene Chloride Fact Sheet
- Asthma and Cleaning Products, What Workers Need to Know, (English) (Spanish) (French) (Nepali) (Swahili)
- Healthy Body, Healthy Lungs-What Salon Workers Need to Know About Their Risk for Work-Related Asthma

https://iod.unh.edu/projects/occupational-health-surveillance-program/hazard-alerts

# **Trainings**

 Staying Safe at Work: A Curriculum for Teaching Workers with Intellectual and Developmental Disabilities about Health and Safety on the Job



 Collecting Industry and Occupation Data: A Training Guide for Healthcare Staff (Video)

https://iod.unh.edu/projects/occupational-health-surveillance-program/trainings

# New Grant Cycle 2021-2026

#### **Fundamental Projects**

- ➤ Core Occupational Health Indicators
- ➤ Enhanced Adult Lead Surveillance
- ➤ Opioid Use and Suicide (Morbidity and Mortality) by Industry and Occupation
- ➤ Enhanced COVID Surveillance
- Productive Aging and Work (CACL Collaboration)
- ➤ Chronic Disease and Disability (by Industry and Occupation (BRFSS)

#### **Expanded Projects**



#### **COVID-19 Supplemental Funding**

- Strengthening Vaccine Confidence in Workers
- Safe Return to Work Policies, and Mitigate or Prevent COVID 19 Outbreaks in Various Industrial Sectors



http://infolytics.wordpress.com/category/data-analysis/

# Limitations of the Data

### **Data Limitations and Barriers**

- Many work-related injuries and illnesses are not reported or recorded.
- BLS Annual Survey does not require every business to participate (probability survey of ~230,000 workplaces)
- 20% of workers including public employees and those who are self-employed are not counted by the Bureau of Labor Statistics.
- Occupational information is not considered a core demographic variable.
- Physician's reporting systems don't fully capture work related conditions.
- Medical records not always charged to workers' compensation insurance.

# Data Tools NH OHSP

#### NH OHSP Data Portal

- National survey analysis and communication of worker COVID-19 vaccination: <a href="https://iod.unh.edu/nhohsp/data-portal/covid-19-vaccination-vaccine-hesitancy-us-workers">https://iod.unh.edu/nhohsp/data-portal/covid-19-vaccination-vaccine-hesitancy-us-workers</a>
- Exploring economic vulnerabilities within demographic, state, and disability status:
  - https://iod.unh.edu/nhohsp/data-portal/employment-demographic-profiles

#### Data Tools – National and State Estimates

- CSTE Occupational Health Subcommittee
- https://www.cste.org/members/group.aspx?i
   d=251931
- CSTE OHI
   https://www.cste.org/group/OHIndicators

## **NIOSH Tools**

#### NIOSH Clearinghouse

https://wwwn.cdc.gov/niosh-statedocs/

**NIOSH Worker Health Charts** 

https://wwwn.cdc.gov/niosh-whc/



What are the priority areas you are seeing in your businesses?

Are there ways we can partner on projects (conducting surveys, hazard alerts, training)?

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#### Website:

https://iod.unh.edu/projects/occupational-healthsurveillance-program

Sign up for our newsletter/mailing list at: <a href="https://iod.unh.edu/projects/occupational-health-surveillance-program/mailing-list">https://iod.unh.edu/projects/occupational-health-surveillance-program/mailing-list</a>

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