

NIOSH BIBLIOGRAPHY OF COMMUNICATION AND RESEARCH PRODUCTS | 2018



**Centers for Disease Control
and Prevention**
National Institute for Occupational
Safety and Health

Cover: The photographs on the cover of the *NIOSH Bibliography of Communication and Research Products 2018* represent the variety of people who benefit from the work of the National Institute for Occupational Safety and Health. Workers, researchers, and workplace issues depicted in the photographs are as follows, clockwise from above left:

- Texting while driving a vehicle illustrates a common safety threat in the transportation industry.
- A fire fighter interacts with a paramedic.
- Snow plow workers battle the elements.
- A worker wearing personal protective equipment (PPE) uses a power saw.
- A worker uses a barcode reader in a distribution warehouse.
- Municipal workers put markers to help pedestrians keep away from a street maintenance hole in flooded streets during a storm.

All photographs are from © Getty Images.

NIOSH

Bibliography
of Communication
and Research Products

2018

DEPARTMENT OF HEALTH AND HUMAN SERVICES
Centers for Disease Control and Prevention
National Institute for Occupational Safety and Health

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Ordering Information

Find NIOSH products and get answers to workplace safety and health questions:

1-800-CDC-INFO (1-800-232-4636) | TTY: 1-888-232-6348

CDC/NIOSH INFO: [cdc.gov/info](https://www.cdc.gov/info) | [cdc.gov/niosh](https://www.cdc.gov/niosh)

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DOI: <https://doi.org/10.26616/NIOSH-PUB2019125updated052019>

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May 2019

Foreword

At NIOSH, we strive for excellence in our scientific endeavors and in the publications of our work. This bibliography is our effort to provide the best scientific information possible to maintain and improve safety and health at work. I believe that this bibliography reflects and reinforces the NIOSH values of relevance, quality, and impact, and demonstrates the consistent commitment of NIOSH and our partners to all workers as they face challenges to be safe and healthy while contributing to our nation's productivity. Please explore these products further and distribute them freely in workplaces and to our colleagues in the occupational health and safety community.



A handwritten signature in black ink that reads "J. Howard". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

John Howard, M.D.
Director, National Institute for
Occupational Safety and Health

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Introduction

“Safer, Healthier Workers”

In 2018, the enduring National Institute for Occupational Safety and Health (NIOSH) vision of “Safer, Healthier Workers” held true as innovative research helped improve occupational safety and health across industries. Whether addressing the resurgence of advanced black lung disease, the opioid epidemic and first-responder safety, or cancer among fire fighters, NIOSH helped lead the nation’s efforts to protect the safety and health of workers.

Throughout the year, the institute’s communication and research products reflected these efforts in a robust research to practice (r2p) program. These efforts involve intramural and extramural scientists, communication and program staff, and external partners collaborating to translate research findings into practical steps that improve workplace safety and health and protect workers. In 2018, these dedicated professionals contributed to both the scientific and general literature, in the form of journal articles, books and book chapters, fact sheets, brochures, conference proceedings, and abstracts. To bring the research directly to the workplace, NIOSH also developed hands-on products such as smartphone applications and other software programs, transferring research findings into actionable solutions. In the field, NIOSH investigations led to many recommendations for improving workplace safety in the form of control technology reports, fatality assessment and control evaluations, fire fighter fatality investigation and prevention reports, and health hazard evaluations.

Structure of NIOSH

The organizational structure at NIOSH comprises 14 divisions, laboratories, and offices (DLOs), described in Figure 2. With headquarters in Atlanta, Georgia, and Washington, D.C., NIOSH maintains research laboratories and offices in six locations:

- Anchorage, Alaska
- Cincinnati, Ohio
- Denver, Colorado
- Morgantown, West Virginia
- Pittsburgh, Pennsylvania
- Spokane, Washington

In these laboratories, NIOSH scientists bring the most-advanced technologies and methods to current issues in occupational safety and health research. NIOSH researchers in Pittsburgh, for example, test mining health and safety interventions in a four-mile, underground coal mine that, in a safe and controlled environment, simulates a working coal mine. In Morgantown, NIOSH scientists use the NIOSH Virtual Reality Laboratory to study how to prevent falls in construction and other industries. Using computer technology, this laboratory creates for users a safe, three-dimensional virtual experience, such as walking on elevated scaffolding at a construction site.

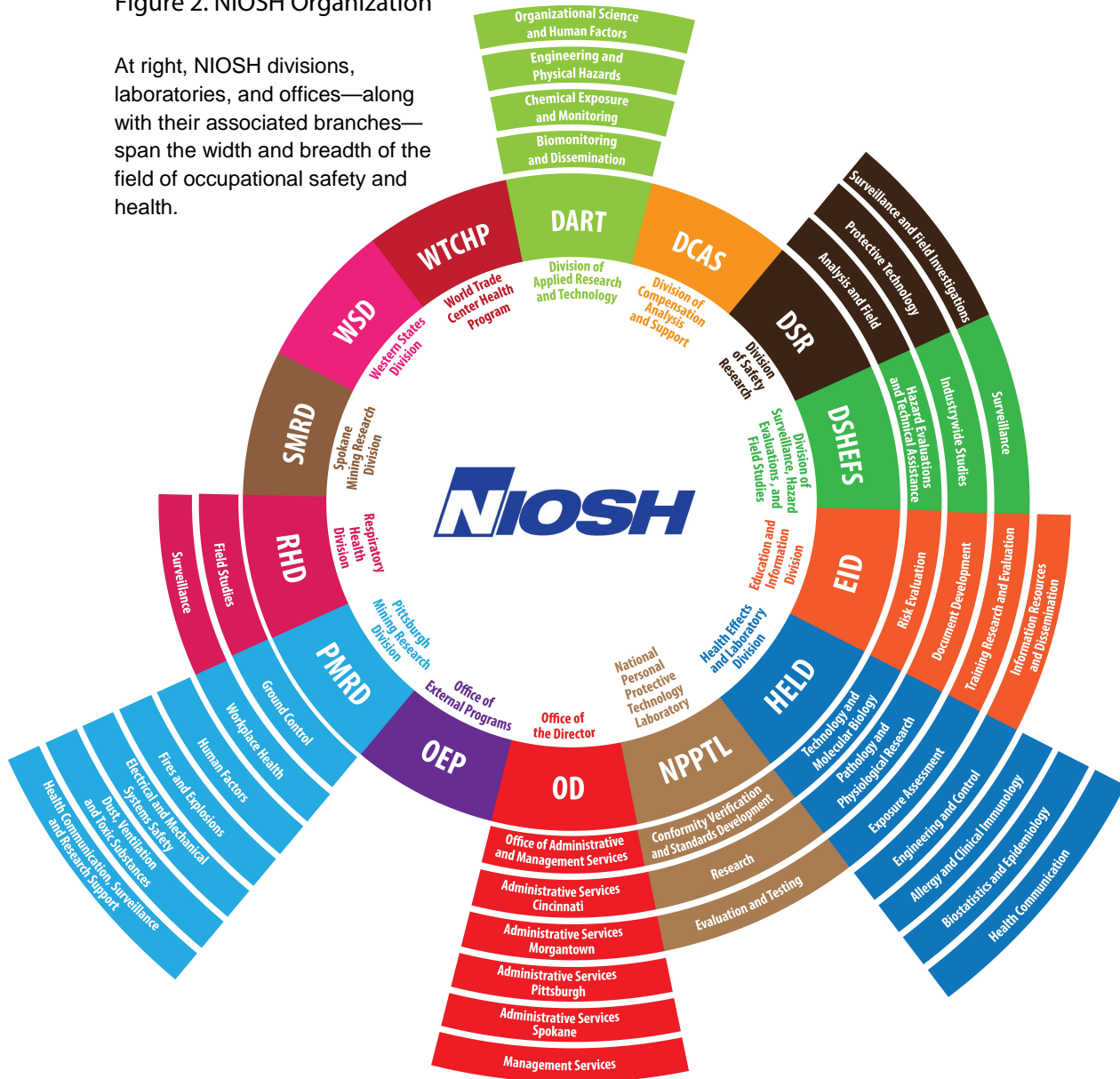
NIOSH scientists also go to worksites when called to the field through the NIOSH Health Hazard Evaluation Program. In 2018, NIOSH scientists worked with partners nationwide to evaluate the causes of work-related illness, injury, and death in diverse industries, including firefighting, mining, construction, and oil and gas extraction.

Figure 1. NIOSH Locations



Figure 2. NIOSH Organization

At right, NIOSH divisions, laboratories, and offices—along with their associated branches—span the width and breadth of the field of occupational safety and health.



Mission Goals and Objectives (2016–2020)

Goal 1: Conduct research to reduce worker illness and injury, and to advance worker well-being.

- Track work-related hazards, exposures, illnesses and injuries for prevention.
- Generate new knowledge through intramural and extramural research programs.
- Develop innovative solutions for difficult-to-solve problems in high-risk industrial sectors.

Goal 2: Promote safe and healthy workers through interventions, recommendations, and capacity building.

- Enhance the relevance and utility of recommendations and guidance.
- Transfer research findings, technologies and information into practice.
- Build capacity to address traditional and emerging hazards.

Goal 3: Enhance worker safety and health through global collaborations.

- Take a leadership role to share knowledge and best practices.
- Provide workplace illness and injury reduction strategies.
- Build professional capacity to address workplace hazards through information sharing and research experience.

National Occupational and Research Agenda

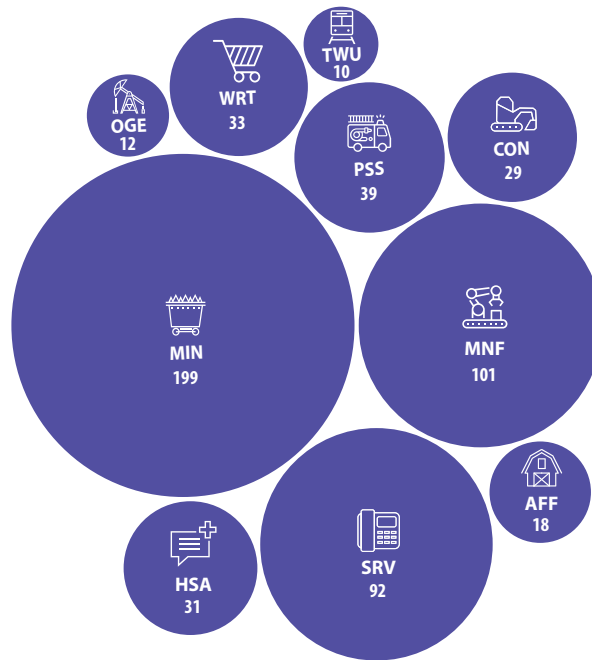
Now in its third decade, the National Occupational Research Agenda (NORA) is a unique partnership between NIOSH, academia, industry, labor, and government to collaborate and identify shared priorities and goals to improve workplace safety and health across the nation. NORA comprises the 10 sector programs and 7 cross-sector programs listed in Table 1, as well as many core and specialty programs listed in the following bibliography.

Table 1. NORA Sector and Cross-sector Programs

Sector Programs	Cross-sector Programs
Agriculture, Forestry and Fishing (AFF)	Cancer, Reproductive, Cardiovascular Disease (CRC)
Construction (CON)	Hearing Loss Prevention (HLP)
Healthcare and Social Assistance (HSA)	Immune, Infectious and Dermal Disease Prevention (IID)
Manufacturing (MNF)	Musculoskeletal Health (MUS)
Mining (MIN)	Respiratory Health (RHP)
Oil and Gas Extraction (OGE)	Traumatic Injury Prevention (TIP)
Public Safety (PPS)	Healthy Work Design and Well-Being (HWD)
Services (SRV)	
Transportation, Warehousing and Utilities (TWU)	
Wholesale and Retail Trade (WRT)	

Within each NORA sector and cross-sector program, NIOSH scientists strive to protect workers by following best practices in scientific research and r2p through communication and research products, including many prestigious, peer-reviewed journals. In 2018, 177 journals recognized by experts in occupational safety and health published NIOSH research papers. Tables 2 and 3 list these journals and the number of NIOSH papers published.

Figure 3. Information products by NORA Sector



NORA sectors were addressed 564 times by NIOSH products in 2018.

Table 2: Journals Publishing NIOSH Articles in 2018

Rank	Top Journals Ranked by Number of NIOSH Articles Published	No.
1	Journal of Occupational and Environmental Hygiene	27
2	Mining Engineering	20
3	American Journal of Industrial Medicine	18
4	Morbidity and Mortality Weekly Report	15
5	Transactions of the Society for Mining, Metallurgy, and Exploration	14
	Transactions of the Society for Mining, Metallurgy, and Exploration, 2017, Vol	
7	Journal of Occupational and Environmental Medicine	12
8	Coal Age	9
	International Journal of Mining Science and Technology	9
10	Annals of Work Exposures and Health	8
	Public Library of Science One	8
12	American Journal of Preventive Medicine	4
	Environmental International	
	Occupational and Environmental Medicine	
	Safety and Health at Work	
	Toxicologic Pathology	
17	American Journal of Public Health	3
	Ergonomics	
	International Journal of Industrial Ergonomics	
	Journal of Exposure Science and Environmental Epidemiology	
	Journal of the International Society for Respiratory Protection	
	NanoImpact	
	Risk Analysis	
	Safety Science	
	Scientific Reports	
	The Synergist	
	Toxicological Sciences	

Journal of Infection Control • American Journal of Medical Quality • American Journal of Respiratory and Critical Care Medicine • Analytica Chimica Acta • Analytical and Bioanalytical Chemistry • Analytical Chemistry • Annals of Allergy, Asthma, and Immunology • Annals of Epidemiology • Annals of the American Thoracic Society • Anthropology of Work Review • Antioxidants & Redox Signaling • Applied Acoustics • Applied Biosafety • Applied Ergonomics • Applied Physiology, Nutrition, and Metabolism • Archives of Environmental Health • Archives of Toxicology • Bio-Medical Materials and Engineering • Biomarkers • Biometrics • Birth Defects Research • BMC Public Health • Brain Sciences • Brain, Behavior, and Immunity • Brazilian Journal of Otorhinolaryngology • Clinical Infectious Diseases • Contact Dermatitis • Current Allergy & Asthma Reports • Current Opinion in Allergy and Clinical Immunology • Current Pharmaceutical Design • Dermatitis • EBioMedicine • Environmental Toxicology • Epidemiology • Experimental Biology and Medicine • Experimental Gerontology • Food Control • Footwear Science • Frontiers in Cellular Neuroscience • Fuel • Human Factors • IEEE Journal on Multiscale and Multiphysics Computational Techniques • IEEE Transactions on Industry Applications • Influenza and Other Respiratory Viruses • Inhalation Toxicology • International Archives of Occupational and Environmental Health • International Journal of Coal Science & Technology • International Journal of Environmental Research and Public Health • International Journal of Nanomedicine • International Journal of Rock Mechanics and Mining Sciences • International Journal of Social Psychiatry • Journal of Agricultural Safety and Health • Journal of Analytical Atomic Spectrometry • Journal of Applied Toxicology • Journal of Asthma • Journal of Biomechanics • Journal of Burn Care & Research • Journal of Emergency Management • Journal of Epidemiology and Community Health • Journal of Exercise and Nutrition • Journal of Fire Sciences • Journal of Functional Morphology and Kinesiology • Journal of Geochemical Exploration • Journal of Hazardous Materials • Journal of Immunotoxicology • Journal of Loss Prevention in the Process Industries • Journal of Neuroinflammation • Journal of Occupational Medicine and Toxicology • Journal of Oncology Pharmacy Practice • Journal of Pharmaceutical Sciences • Journal of Police and Criminal Psychology • Journal of Rural Mental Health • Journal of Safety, Health & Environmental Research • Journal of Sound and Vibration • Journal of the Acoustical Society of America • Journal of the American College of Surgeons • Journal of the American Veterinary Medical Association • Journal of Toxicology and Environmental Health, Part B: Critical Reviews • Journal of Virological Methods • Journal of Visualized Experiments • Journal of Youth and Adolescence • Lancet • Lighting Research & Technology • Medical Engineering & Physics • Metrologia • n p j Computational Materials • Nano Letters • Nanoscale Research Letters • Neurology • Neurotoxicology • New Solutions: A Journal of Environmental and Occupational Health Policy • Noise Control Engineering Journal • Occupational Health Science • Pharmacology & Therapeutics • Physiological Genomics • Police Chief • Powder Technology • Prehospital and Disaster Medicine • Primary Health Care Research and Development • Proceedings of the National Academy of Sciences of the United States of America • Process Safety and Environmental Protection • Progress in Electromagnetics Research M • Psychoneuroendocrinology • Public Health Reports • Rapid Prototyping Journal • Regulatory Toxicology and Pharmacology • Rock Products • Scandinavian Journal of Work, Environment and Health • Scientific Data • Seismological Research Letters • Sleep Health • Spectrochimica Acta • Stress and Health • The American Journal of Tropical Medicine and Hygiene • The Journal of Infectious Diseases • The Journals of Gerontology Series A: Biological Sciences and Medical Sciences • The Laryngoscope • Thorax • Toxicology • Toxicology and Applied Pharmacology • Toxicology Letters • Toxicology Research • Transportation Research Part F: Traffic Psychology and Behaviour • Vaccine • Work • Xenobiotica

SOURCE: NIOSHTIC-2 BIBLIOGRAPHIC DATABASE

Journals Publishing Two Articles

Aerosol Science and Technology • Engineering and Mining Journal • Environment International • Frontiers in Immunology • Indoor Air • International Journal of Audiology • International Journal of Hygiene and Environmental Health • Journal of Agromedicine • Journal of Allergy and Clinical Immunology: In Practice • Journal of Chemical Health and Safety • Journal of Safety Research • Journal of Toxicology and Environmental Health, Part A: Current Issues • Nanotoxicology • Particle and Fibre Toxicology • Pit & Quarry • Policing: An International Journal of Police Strategies and Management • Professional Safety • Science of the Total Environment • Workplace Health & Safety

Journals Publishing One Article

ACS Nano • Aerospace Medicine and Human Performance • American Journal of Epidemiology • American Journal of Evaluation • American Journal of Health Promotion • American

Table 3: Top 200 Keywords Used in 2018 NIOSH Products, By Rank

1. Exposure levels	170	Toxic effects	35	Emergency response	23
2. Humans	140	71. Animals	34	Equipment reliability	23
Mining	140	Motor vehicles	34	Exposure limits	23
Risk factors	140	Performance tests	34	Respiratory protection	23
5. Mining industry	128	Work practices	34	Sociological factors	23
6. Work environment	119	75. Measurement equipment	33	144. Coal miners	22
7. Workers	118	Risk management	33	Computer software	22
8. Training	115	Work operations	33	Hazard identification	22
9. Underground mines	110	78. Dose response	32	Horizontal stress	22
10. Exposure assessment	108	Employee exposure	32	Racial factors	22
11. Injury prevention	99	MSD	32	Temperature effects	22
Surveillance	99	Underground miners	32	Toxic materials	22
13. Underground mining	86	82. Environmental stress	31	151. Computer applications	21
14. Hazards	84	Longwall mining	31	Environmental control	21
15. Injuries	83	Nanoparticles	31	Environmental technology	21
16. Coal mines	76	Occupational exposure	31	Equipment operators	21
17. Education	75	Protective measures	31	Ergonomics	21
18. Statistical analysis	72	87. Carbon nanotubes	30	Mine Safety and Health	
19. Accident prevention	71	Chemicals	30	Administration	21
20. Miners	69	Engineering controls	30	Mortality rates	21
Models	69	Musculoskeletal system disorders	30	MSHA	21
Safety	69	Pillar mechanics	30	Particle size	21
Safety education	69	Public health	30	Simulation methods	21
24. Nanotechnology	66	93. Aerosols	29	161. Biological effects	20
25. Sampling	64	Inhalation	29	Coal dust	20
26. Laboratory testing	63	Sensors	29	Geology	20
27. Respiratory system disorders	61	96. Accidents	28	Health protection	20
28. Health hazards	60	Fire fighters	28	Manufacturing	20
Occupational hazards	60	Health surveys	28	Materials testing	20
30. Health effects	59	Lung cells	28	Metals	20
31. Laboratory animals	55	Lung disease	28	Noise exposure	20
32. Men	54	Nanotoxicology	28	Pulmonary effects	20
Occupational safety programs	54	102. Air sampling	27	Respiratory protective equipment	20
Occupations	54	Analytical processes	27	Roof falls	20
Personal protective equipment	54	Communication systems	27	172. 3D	19
Women	54	Stress	27	Agriculture	19
Worker safety	54	106. Behavior	26	Carbon monoxide	19
38. Mine safety	52	Dust exposure	26	Data processing	19
39. Monitoring systems	50	Lung	26	Drivers	19
40. Disease prevention	49	Mathematical models	26	Dust control	19
41. Pulmonary system disorders	48	Questionnaires	26	Geotechnical engineering	19
Toxicology	48	VOCs	26	Hazard controls	19
Ventilation	48	Volatile organic compounds	26	Hazard recognition	19
44. Dusts	47	113. Demographic characteristics	25	Infectious diseases	19
Intervention	47	Epidemiology	25	Noise	19
46. Rock mechanics	46	Health care	25	Roof supports	19
Worker health	46	Lung disorders	25	Three dimensional	19
48. Equipment testing	44	Mine workers	25	185. Accident analysis	18
49. Fatalities	43	Monitors	25	Cancer	18
Occupational health programs	43	Partnership	25	Cellular reactions	18
Safety practices	43	Recommendations	25	Emergency equipment	18
52. Equipment design	42	Ventilation systems	25	Failure analysis	18
PPE	42	122. Age groups	24	Health care personnel	18
Traumatic injuries	42	Air flow	24	Heat stress	18
55. Adolescents	41	Cytokines	24	Multi-walled carbon nanotubes	18
Ground control	41	Environmental exposure	24	MWCNT	18
Mining equipment	41	Ground monitoring	24	Regulations	18
Teaching	41	Guidelines	24	Respiratory diseases	18
59. Safety measures	39	Hazard communication	24	Samplers	18
60. Chemical properties	38	Performance capability	24	197. Airborne particles	17
Ground stability	38	Police officers	24	Asthma	17
Nanomaterials	38	Proteins	24	Biomarkers	17
63. Immune reaction	37	Respirable dust	24	Carbon dioxide	17
Particulates	37	Respirators	24	Gene expression	17
Safety research	37	Structural analysis	24	Industrial hygiene	17
66. Analytical models	36	Surveillance programs	24	Physical properties	17
Coal mining	36	136. Analytical instruments	23	Pillar design	17
68. Information dissemination	35	Bronchial asthma	23	Protective equipment	17
Risk assessment	35	Emergency responders	23		

Table 4. NIOSH products by Altmetric score, 2018

Top 10 NIOSH products by Altmetric attention score	
	Multiple myeloma and its precursor disease among firefighters exposed to the World Trade Center disaster <i>JAMA Oncology</i> , May 2018
	Progressive massive fibrosis in coal miners from 3 clinics in Virginia <i>JAMA: Journal of the American Medical Association</i> , February 2018
	Persistence of Ebola virus after the end of widespread transmission in Liberia: an outbreak report <i>Lancet Infectious Diseases</i> , August 2018
	Suicide rates by major occupational group — 17 States, 2012 and 2015 estimation of future cancer burden among rescue and recovery workers exposed to the World Trade Center disaster <i>MMWR: Morbidity & Mortality Weekly Report</i> , November 2018
	Continued increase in prevalence of Coal Workers' Pneumoconiosis in the United States, 1970–2017 <i>American Journal of Public Health</i> , August 2018
	Prospective study of chronotype and incident depression among middle- and older-aged women in the Nurses' Health Study II <i>Journal of Psychiatric Research</i> , July 2018
	Estimation of Future Cancer Burden Among Rescue and Recovery Workers Exposed to the World Trade Center Disaster <i>JAMA Oncology</i> , June 2018
	Metabolomics of World Trade Center-lung injury: a machine learning approach <i>BMJ Open Respiratory Research</i> , September 2018
	Cardiovascular conditions, hearing difficulty, and occupational noise exposure within US industries and occupations <i>American Journal of Industrial Medicine</i> , March 2018
	Continued increase in lung transplantation for coal workers' pneumoconiosis in the United States <i>American Journal of Industrial Medicine</i> , October 2018

Highlights of 2018

In the scientific world, peer-reviewed journal articles are a hallmark of a robust research program. At NIOSH, journal articles are one part of a diverse collection of communication and research products that bring the science out of labs and into the workplace. While many of these products are geared toward scientists, others are designed to be easily understood by the lay public, especially workers. Looking back to 2018, several products for both audiences, alike, stand out for their unique contributions to occupational safety and health. The following sections present a few of the year's highlights.

Black Lung Disease

Black lung disease continues to have devastating effects on the nation's coal workers.

Black lung is a scarring lung disease caused by breathing in dust that can occur with exposure to respirable coal mine dust, such as silica dust.

The institute remains committed to addressing this epidemic and our research helped advance

understanding about the resurgence of severe black lung disease, primarily among coal miners in Appalachia. Through the NIOSH Coal Workers Health Surveillance Program (CWHSP), NIOSH has tracked black lung disease among underground coal miners since 1970. Since then, NIOSH expanded the program into the Enhanced Coal Workers Surveillance program, which provides coal miners with easy access to periodic chest X-rays to detect early signs of disease. Last year, the institute also published a factsheet to raise awareness of the CWHSP program among coal miners.

Additionally, NIOSH presented its research findings on black lung disease in the form of journal articles, the CDC Morbidity and Mortality Weekly Report (MMWR), and NIOSH reports, among other publications. In a paper published in the *American Journal of Public Health*, the NIOSH CWHSP reported that 1 in 10 underground coal miners who have worked in mines for at least 25 years have black lung disease. The report also found that coal miners in central Appalachia are disproportionately affected with as many as 1 in 5 having evidence of black lung—the highest level recorded in 25 years.



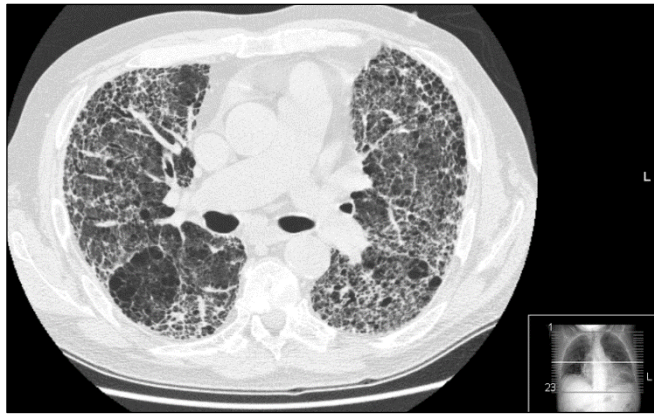
NIOSH photo

NIOSH's state-of-the-art mobile testing unit offers confidential health screenings to coal workers.

Another study published in the CDC *MMWR* found that black lung disease is associated with more years of potential life lost. During 1999-2016, the average number of years of potential life lost per worker who died of the disease climbed from 8.1 to 12.6 years. According to the investigators, this increase could be due to more cases of the most severe form of the disease, progressive massive fibrosis.

Idiopathic Pulmonary Fibrosis among Dental Personnel

NIOSH research identified a potential new occupational health hazard, finding a unique cluster of cases of idiopathic pulmonary fibrosis among dental personnel. An ongoing, worsening lung disease with no known cause, idiopathic pulmonary fibrosis results in severe lung damage and death within several years.



Wikimedia Commons

Imaging scans show presence of pulmonary fibrosis.

After receiving reports of multiple cases at the same Virginia specialty clinic, NIOSH identified nine diagnoses of the disease among dental personnel. Although no clear cause emerged, work-related exposures could have played a role, according to the paper, “Idiopathic Pulmonary Fibrosis at a Tertiary Care Center—Virginia, 2000–2015,” published in the CDC *MMWR*. These findings highlight the need for further research to understand work-related exposures among dental personnel and the risk for developing this severe lung disease and, ultimately, to identify ways to prevent exposure.

Opioid Overdose Epidemic

As the opioid overdose epidemic continues to evolve, NIOSH is leading proactive efforts to protect workers by expanding our understanding of how work may contribute to opioid use and misuse, as well as identifying occupations at greater risk of exposure. Using the National Occupational Mortality Surveillance (NOMS) system, investigators compared opioid overdose deaths within 26 occupation groups. During 2007–2012, the proportion of heroin and methadone-related overdose deaths was highest in construction, while the proportion of natural and semi-synthetic opioid-related deaths was highest in extraction and healthcare. These results appeared in the CDC *MMWR*



Wikimedia Commons

article “Occupational Patterns in Unintentional and Undetermined Drug-Involved and Opioid-Involved Overdose Deaths—United States, 2007–2012.”

NIOSH research also led to a number of products designed to protect law enforcement officers and other first responders who may face exposure to opioids at work. The paper, “Fentanyl and the Safety of First Responders: Science and Recommendations,” appeared in the *American Journal of Industrial Medicine*, and guidelines entitled “Using Naloxone to Reverse Opioid Overdose in the Workplace: Information for Employers and Workers” were released as a NIOSH numbered publication.

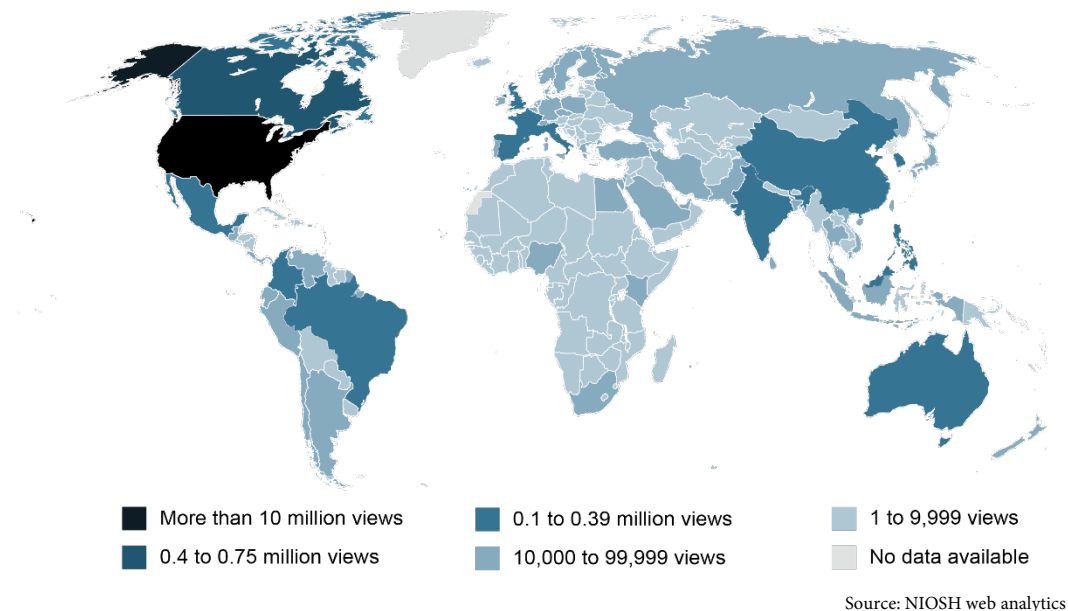


In addition, through the NIOSH Health Hazard Evaluation program, we expanded our understanding of how to protect law enforcement officers and first responders from potential exposures to opioids while on the job, leading to the publication of several health hazard evaluation final and interim reports in 2018. These reports provide comprehensive records of NIOSH evaluations of potential work-related exposures among law enforcement officers, emergency medical services workers, and fire fighters.

NIOSH Web Global Reach

NIOSH research and guidance is sought after by users in nations spread across the globe. Figure 4 shows NIOSH Web views for 2018, obtained through NIOSH web analytics

Figure 4. NIOSH Web Views, 2018



Journal Articles

NOTE: The electronic form of the *NIOSH Bibliography of Communication and Research Products*, available at <https://www.cdc.gov/niosh/awards/>, offers links to NIOSHTIC-2 pages and online access to many NIOSH products featured in this publication.

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