# Immune, Infectious, and Dermal Disease Prevention Program PPOP

### What are our priorities?

The National Institute for Occupational Safety and Health (NIOSH) Immune, Infectious, and Dermal Disease Prevention Program works with partners in industry, labor, trade associations, professional organizations, and academia. The program focuses on these areas:

- Reducing immune abnormalities (including immune aspects of asthma) associated with workplace exposures.
- Reducing occupational skin disorders and exposures that result in disease.
- Reducing exposure and transmission of infectious diseases in the workplace.

## What do we do?

- Conduct research to better understand the impact and basic mechanisms of occupational exposures on the immune system, including exposures to chemical, biological, or infectious agents.
- Identify occupational allergens that cause disease
   in workers in high burden industries.
- Develop strategies for prevention and raise awareness of skin injury materials.
- Maximize resources by using statistical modeling to prioritize chemicals to research, rather than investigating all potentially hazardous chemicals.
- Improve surveillance for hazard identification, exposure assessment, and risk characterization of chemicals absorbed through the skin that lead to immune or systemic toxicity (e.g., damage to internal organs).

- Increase awareness of occupational immune and dermal health issues through collaborations with NIOSH sector programs; contributions to field investigations; and publications and presentations of research findings.
- Conduct investigations of infectious disease occurring in workplaces.
- Provide evidence-based recommendations and guidance on prevention measures for managers and workers to reduce transmission of infectious disease in the workplace.
- Publish Skin Notation (SK) Profiles, hazard warnings used worldwide, to alert workers and employers to the health risks of skin exposures to workplace chemicals.

## What have we accomplished?

- Published research on the efficacy of face masks, neck gaiters and face shields for reducing the expulsion of simulated cough-generated aerosols.
- Published review paper Occupational Respiratory Infections in Clinics in Chest Medicine.
- Published 30 worker-related COVID-19 guidance documents, 29 fact sheets, and 39 MMWRs and manuscripts.
- Published research on animal studies that characterize mouse pulmonary and neurological responses to repeated inhalation exposure to the indoor fungi Aspergillus versicolor.
- Published skin notations for: diacetyl, dioxane, beta-chloroprene, toluene diisocyanate, and chlorodiphenyl.

### What's next?

- Investigate the toxicity of dermal exposure to perfluoroalkyl substances.
- Publish research on how exposure to disinfectants affect the immune system.
- Conduct research on bioaerosol sampling for SARS-CoV-2.
- Conduct investigations and publish guidance on infections with B. cereus containing homologue of anthrax pXO1 plasmid among welders.
- Investigate the effectiveness of indoor ventilation and 3-6 feet social distancing when attempting to prevent infectious disease transmission.
- Publish updated guidance on protecting workers from histoplasmosis.

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

Provided The Season Sea

Mention of any company or product does not constitute endorsement by the National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention

### At-A-Glance

The Immune, Infectious, and Dermal Disease Program primarily focuses on hazard identification to prevent and minimize the effects of work-related dermal and immune diseases. This snapshot shows recent accomplishments and upcoming projects and activities.

Publication Spotlight: Efficacy of face masks, neck gaiters and face shields for reducing expulsion of simulated coughgenerated aerosols



Publication Spotlight: Safe and Proper Sharps Disposal



Sharps are objects that can pierce the skin flor example, contaminated opinges and needles increds, subjects, inharism needle sets, connection needles, sate injectors), so defined in the Occapational Selects and Health Administration (DOMA) (Boothom's Perhapson standard. This fact these revoluces how you can posted typus and floren needlesski injuries while administration (TOMA). You contains a real his helpion at sure instantion site or described the control of the contains and while helpion at sure instantion.

#### Protect Yourself From a Needlestick Injury

- Receivers disposal containers as close as possible to you or within arm's reach. When a wall moust is not possible, set the container on a table or a cart in an upright position (preferably secured). Do not place sharps disposal containers on the floor or the ground.
- Immediately after you use a sharp, engage any safety feature, and place it in a sharps disposal container that is docable, punctureresistant, leakproof on the sides and bottom, and biohacard-labele
- Do not remove, recap, break, or bend contaminated needles or separate contaminated needles from syringes before discarding them tints a shape disposal container as the increases the risk of a needlestick injury and a bisoditioner pathogen exposure. Best gractio, is to immediately place the connected needle and syringe into
- Use sharps containers to dispose of needles and other sharps contained with blood or other contains infortious materials.
- Close the container when it is filled to the clearly marked fill line.
- Do not overfill sharps disposal containers—even during supply shortages—as this increases the risk of a needlestick injury and

#### Sharps Disposal Containers are for Needles and Sharps Only

- Do not put anything in sharps disposal containers that can be placed in secular waste containers buch as any containing truth cause.
- In regular waste containers (such as uncontaminated trash, gause, alcohol pads, needle caps, and gloves).
- reack non-inerp, coreamined material, such as gaster commission with blood or other potentially infectious material, in a red biohacrard vestre disposal bas.



If you experience a needlestick from a used or contaminated needle, seek immediate evaluation and treatment. Call the PEP (not-exposure prophylanic) hotins at 1–389–4491 immediately for guidance on training exposure.

Quadance on treating exposures.

Learn More about Sharps Disp SafeNeedleOisposal.org

https://afenendledsposal.org Food and Drug Administration (FDA) How to get rid of a sharps container

Container-Printable Version.pdf OSHA: Bloodborne pathogens and needlestick prevention

OS4A: Bloodborne Pathagens standard Milos Promosoha por Sees moninquistions standardnumber 1908/1910.1080

OSHA: Protecting yourself when handling contaminated sharps

91A: Poster for COVID-19 vaccination sites tox://www.coha.gov/sites/default-files/ deltrations/CSHACOS.pdf

CDC: Emergency sharps information (what to do in case of a needlestick) https://www.cdc.gov/nioth/topics/bbp/ emergened/literal

National Institute for Occupational Safety and Health (NBOSH): Preventing needlestick injuries at CDVID-19 vaccination sites transitions on anymosh science

cdc.gov/coronavirus

