



# Reducing Risk for People Working with or Exposed to Animals

## WHAT TO KNOW

- This updated guidance identifies select occupational groups that may be at increased risk of exposure to novel influenza A viruses. Specific recommendations for these groups may be updated as CDC learns more during this evolving situation.
- Persons in these occupational groups should consult with their supervisor or their employer's worker safety team to determine how best to apply these recommendations.

## Information for workers

Take steps to reduce your risk of infection with avian influenza A viruses associated with severe disease when **working with animals or materials, including raw milk, confirmed infected or potentially infected** with these novel influenza A viruses. Examples of people working with or exposed to animals include:

- Poultry and livestock farmers and workers
- Backyard bird flock owners
- Veterinarians and veterinary staff
- Animal health responders
- Public health responders
- Slaughterhouse workers performing certain tasks on lactating dairy cattle including:
  - Unloading or handling live lactating dairy cattle for slaughter, including workers in holding pens and involved with antemortem inspection
  - Postmortem processes including the post-mortem inspection and handling and transporting viscera
  - Removing and transporting udders from dairy cattle for further processing or rendering



Avoid unprotected direct or close physical contact with:

- Sick birds, livestock, or other animals
- Carcasses of birds, livestock, or other animals that have died from unknown causes
- Raw milk
- Viscera and udders from lactating dairy cattle
- Feces or litter
- Surfaces and water (e.g., ponds, waterers, buckets, pans, troughs) on farms with potentially infected animals that might be contaminated with animal waste

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## Protect Yourself From H5N1 When Working With Farm Animals

H5N1 is a bird flu virus that could make you sick. Wear recommended personal protective equipment (PPE) when working directly or closely with sick or dead animals, animal feces, litter, raw milk, and other materials that might have the virus.



**Wash hands with soap and water, then put on PPE in this order:**

1. Fluid-resistant coveralls
2. Waterproof apron, if needed for job task
3. NIOSH Approved® Respirator (e.g., N95® filtering facepiece respirator or elastomeric half mask respirator)
4. Properly-fitted unvented *or* indirectly vented safety goggles or face shield
5. Head cover or hair cover
6. Gloves
7. Boots

Scan to learn how to put on and take off a respirator



### While wearing PPE

- Use separate designated clean areas, one for putting on PPE and one for taking off PPE.
- Avoid touching your eyes, mouth, and nose after touching any contaminated material.
- Do not eat, drink, smoke, vape, chew gum, dip tobacco, or use the bathroom.

### Follow these steps to safely remove PPE

1. Remove the apron, if worn
2. Clean and disinfect boots
3. Remove boots
4. Remove coveralls
5. Remove gloves
6. Wash hands with soap and water or alcohol-based hand rub
7. Remove goggles or faceshield and then remove respirator
8. Remove head cover or hair cover
9. Wash hands again with soap and water or alcohol-based hand rub

### After removing PPE

- Shower at the end of the work shift.
- Leave all contaminated clothing and equipment at work.
- Watch for symptoms of illness while you are working with potentially sick animals or materials. Continue watching for symptoms for 10 days after finishing working. If you get sick, tell your supervisor and talk with a doctor.

### Reusable and disposable PPE

- While removing PPE, dispose of all disposable PPE appropriately and set aside reusable PPE
- Clean and disinfect reusable PPE after every use

Scan to find more PPE and worker safety information





## Protect Yourself From H5N1 When Working With Farm Animals

### [Protect Yourself From H5N1 When Working With Farm Animals](#)

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### [Protect Yourself From H5N1 When Working With Farm Animals \(Spanish\)](#)

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### [Protect Yourself From H5N1 When Working With Farm Animals \(K'iche'\)](#)

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### [Protect Yourself From H5N1 When Working With Farm Animals \(Nahuatl\)](#)

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If you must work in or enter any not yet disinfected buildings where these materials or sick or dead cattle or other animals confirmed infected or potentially infected are or were present, wear appropriate personal protective equipment (PPE) in addition to the PPE you might be using for your normal duties (e.g., waterproof apron, hearing protection, etc.). Appropriate PPE depends on the hazards present and a site-specific risk assessment. If you have questions on the type of PPE to use or how to fit it properly, ask your supervisor.

Recommended PPE to protect against novel influenza A viruses includes:

- Disposable or non-disposable fluid-resistant<sup>1</sup> coveralls, and depending on task(s), add disposable or non-disposable waterproof apron
- Any NIOSH Approved® particulate respirator (e.g., N95® or greater filtering facepiece respirator, elastomeric half mask respirator with a minimum of N95 filters)
- Properly-fitted unvented or indirectly vented safety goggles<sup>2</sup> or a faceshield if there is risk of liquid splashing onto the respirator
- Rubber boots or rubber boot covers with sealed seams that can be sanitized or disposable boot covers for tasks taking a short amount of time
- Disposable or non-disposable head cover or hair cover
- Disposable or non-disposable gloves<sup>3</sup>

## While wearing PPE

- Avoid touching yourself above your chest, especially your eyes, mouth, or nose, after touching any contaminated material
- Do not eat, drink, smoke, vape, chew gum, dip tobacco, or use the bathroom
- Use separate designated clean areas, one for putting on PPE and another for taking it off



## Sa f e l y p u t o n a n d r e m o v e P P E

Put PPE on in this order and in a clean environment avoiding contamination:

1. Wash hands with soap and water
2. Fluid-resistant coveralls
3. Waterproof apron, if needed
4. NIOSH Approved® respirator
5. Properly-fitted, unvented or indirectly vented safety goggles or faceshield
6. Head cover or hair cover
7. Gloves
8. Boots or boot covers

Remove PPE in this order\* making sure to dispose of all disposable PPE appropriately and to set aside all reusable PPE for cleaning after each use:

1. Remove apron, if worn
2. Clean and disinfect boots or boot covers
3. Remove boots or boot covers
4. Remove coveralls
5. Remove gloves
6. Wash your hands with soap and water or, if soap and water are not available, use an alcohol-based hand rub
7. Remove goggles or faceshield
8. Remove respirator
9. Remove headcover or hair cover
10. Wash your hands again with soap and water or, if soap and water are not available, use an alcohol-based hand rub

Note: Take off PPE by touching the least contaminated part of the PPE.

\*Any change to the order of removing PPE should consider that the aim of the chosen sequence should be to minimize any contaminant transfer from potential contaminated protective clothing and equipment to the person's skin or regular clothing.



- All reusable PPE (e.g., rubber boots, goggles, faceshield, waterproof apron, elastomeric half mask respirators) should be set aside, then cleaned and disinfected after every use. To clean and disinfect reusable PPE:
  1. Select an [EPA-approved disinfectant that has label claims against influenza A viruses](#)
  2. Follow manufacturer/label directions for safe use of disinfectants
  3. Clean reusable PPE until visible dirt is removed
  4. Disinfect reusable PPE according to the disinfectant and PPE manufacturer's instructions

## After removing PPE

- If possible, shower at the end of the work shift and put on clean uncontaminated clothing. If there are no shower facilities on site, clean up as much as possible, put on uncontaminated clothing, leave straight from work to a shower, and put on clean clothing immediately afterward
- Leave all contaminated clothing and equipment at work
- Never take contaminated equipment or wear contaminated clothing outside the work area
- Follow laundering instructions:
  - Wash laundry onsite with standard laundry detergent, and completely machine-dry at the highest temperature suitable for the material.
  - Wear gloves and protective outerwear when handling soiled laundry.
  - Use separate storage and transport bins for clean and dirty laundry.
  - If there is no laundry on site, clothing to be laundered at home should be transported in a plastic bag, kept separate from household items, washed separately, and then thoroughly machine-dried at the highest temperature suitable for the material.
- [Self-monitor](#) for symptoms of illness every day while you are working with sick or potentially infected animals or animals known to be infected with novel influenza A viruses for 10 days after the last day of exposure to infected or potentially infected animals or contaminated materials. If you become sick during those 10 days, isolate yourself, tell your supervisor, and get instructions for seeking medical evaluation and treatment.



## Information for employers

All PPE should be used in accordance with OSHA regulations found at [29 CFR part 1910, Subpart I \(Personal Protective Equipment\)](#), including identifying appropriate PPE based on a [site-specific risk assessment](#). Workers must be trained on and demonstrate an understanding of when to use PPE; what PPE is necessary; what it looks like when PPE is properly fitted; how to properly put on, use, take off, dispose of, and maintain PPE; and understand the limitations of PPE.

Respirator use should be in the context of a comprehensive respiratory protection program in accordance with the Occupational Safety and Health Administration (OSHA) Respiratory Protection standard ([29 CFR 1910.134](#)) and other applicable requirements. Staff who will need to wear respirators must be medically-cleared, trained, and fit-tested for respirator use. Detailed information on respiratory protection programs, including fit testing procedures, can be accessed at [OSHA's Respiratory Protection eTool](#).

PPE training topics should include all the following:

- Proper fit-testing, wearing, and use of respirators
- Safe removal of respirators
- Safe disposal of disposable respirators
- Cleaning and disinfection of, and recommended respirator cartridge change-out schedule for, reusable respirators
- Medical contraindications to respirator use
- Use of only NIOSH Approved® respirators

For information on NIOSH Approved® respirators visit [National Personal Protective Technology Laboratory](#).

## Important considerations

It is important to wear the appropriate PPE for protection against dangerous hazards, including diseases, in the workplace. However, there are certain factors pertaining to the use of PPE of which employers and workers should be aware.





- Respirators: For untrained persons who work with poultry and livestock, including children, it is important to remember that respirators are designed primarily to be used in workplaces by adults who are part of their employer's respiratory protection program. The risks and benefits of using respirators without proper training and fit testing are uncertain. For a respirator to be most effective, it must form a seal to the face to keep particles from leaking around the edges. When not fit tested, a tight seal should be achieved following manufacturer's instructions. Additionally, most respirators will be too big to form a proper seal for younger children's faces, and some will be too big for people with smaller faces
- Heat illness: Employers and workers should be aware that wearing PPE and certain clothing ensembles can often increase your risk for heat-related illnesses. For more on this topic visit [Limiting Heat Burden While Wearing PPE](#)
- Vision: Try to prevent fogging of goggles and face masks. Employers and workers should be aware that under certain conditions, some PPE can alter or decrease your visual acuity and peripheral vision. Under these conditions, workers should pay closer attention to their surroundings for hazards such as animal movement; clothes snagging; cuts or punctures; and slips, trips, and falls

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## Resources

[Protecting Poultry Workers from Avian Influenza \(Bird Flu\)](#)  
[Avian Influenza – Control and Prevention | Occupational Safety and Health Administration \(osha.gov\)](#)  
[Donning Personal Protective Equipment PPE \(Spanish\)](#)  
[Doffing Personal Protective Equipment PPE \(Spanish\)](#)  
[Avian Flu in the Workplace](#)