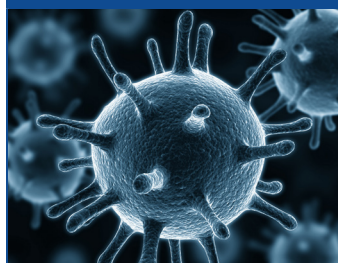


Highly Pathogenic Avian Influenza A (HPAI): H5N1

Overview












H5N1 is one of several influenza viruses that causes a highly infectious respiratory disease in birds. Since 2022, there have been increasing reports of deadly outbreaks among land and sea mammals (wild and domestic).¹ This panzootic ("animal pandemic") of Highly Pathogenic Avian Influenza A (HPAI) (H5N1) viruses in wild birds has resulted in outbreaks among commercial poultry, backyard bird flocks, and spread to infect wild and domestic mammals.² Sporadic H5N1 human infections have occurred since 1997 with a mortality rate of >50%.² Most human infections with H5N1 virus have been the result of unprotected exposures to sick or dead infected animals.² To-date, there has been no evidence of sustained human-to-human H5N1 transmission. Human H5N1 infections range from mild (e.g., upper respiratory symptoms) to severe illness (e.g., pneumonia, multi-organ failure) that may result in death.² Clinicians should consider the possibility of H5N1 infection in persons showing signs or symptoms of conjunctivitis (eye redness) and/or acute respiratory illness who have relevant exposure history.² Keep current on the risk to public health [here](#).

About the Pathogen & Infection Control Measures

Infectious Agent (Pathogen) ^{2,3}	Agent Type: Virus Synonym(s): Avian Influenza, Bird Flu, HPAI Characteristics: Enveloped RNA virus	Taxonomy: Family: Orthomyxoviridae Genus: Influenza A Subtype: H5N1
Infectious Characteristics Definitions: <ul style="list-style-type: none"> ▶ Incubation period—the time from exposure to infection with symptoms. ▶ Period of communicability—time when a pathogen can be transmitted from one person to another. ▶ Mortality rate—the number of deaths due to a disease divided by the total population. 	Risk factors for infection: ⁴	People who work with or have recreational exposure to affected animals
	Incubation period: ⁵	3–5 days but can be as long as 7–10 days
	Period of communicability:	N/A (no sustained human-to-human transmission to-date)
	Signs & symptoms: ²	<ul style="list-style-type: none"> ▶ Eye redness (conjunctivitis) ▶ Mild flu-like upper respiratory symptoms, including sore throat, cough, runny or stuffy nose, shortness of breath or difficulty breathing ▶ Pneumonia requiring hospitalization ▶ Fever or feeling feverish ▶ Muscle or body aches ▶ Headache ▶ Fatigue
	Duration of illness: ⁶	About 2 weeks
Reservoir ² —where a pathogen normally lives and grows (e.g., humans, water, etc.)	Wild birds and other affected animals	
Mode(s) of Transmission ² How the Infection Spreads	Air and Contact: When virus from infected animals gets in a person's eyes, nose, or mouth or is inhaled	
Survival on Surfaces ⁹	The virus can survive for hours to days on surfaces in warm dry conditions, however under cold and wet conditions it can survive much longer (weeks to months).	
Immunization/Treatment ²	Currently, there is no vaccine in the US to prevent H5N1 infection in humans. CDC provides guidance for antiviral treatment of human infection with novel influenza A viruses.	
Infection Prevention & Control (IPC) Measures	General Measures for All Spaces (commercial buildings, K–12 schools, healthcare): ² <ul style="list-style-type: none"> ▶ Get the flu vaccine each year. ▶ Perform frequent hand hygiene by using alcohol-based hand sanitizer or washing hands with soap and water. ▶ Avoid contact with sick or dead wild birds, poultry, and wild animals. ▶ Do not consume raw or undercooked poultry or poultry products, including raw eggs or raw/unpasteurized milk products. ▶ Persons who work with or have contact with poultry or potentially infected animals should wear appropriate PPE. 	Healthcare-Specific Measures: ^{2,8} <ul style="list-style-type: none"> ▶ Isolation Precautions: Airborne and Contact Precautions in a single-patient airborne infection isolation (AII) room (negative pressure room) with door closed. Patients presumed to have the same infection can be cohorted. Only essential personnel should enter the room. ▶ PPE: Respirator (N95 or higher), eye protection (goggles or face shield), gown, gloves. ▶ Patient Transport: Limit to essential purposes; placement of a facemask on the patient. ▶ Linens: Handle per routine. ▶ Waste Management: Follow local medical waste regulations per state or local authorities. H5N1 is not considered a category A infectious substance, except in cultures from the lab. ▶ Other: Use caution with aerosol-generating procedures (AGP)—limit to medically necessary situations.
Cleaning & Disinfection ^{2,9,10}	Standard cleaning and disinfecting procedures are adequate as enveloped viruses are among the easiest pathogens to kill through disinfection. Use a disinfectant that has label claims against Avian Influenza A (H5N1), or a disinfectant from EPA List M . Healthcare personnel should not enter the room for cleaning until sufficient time has elapsed for enough air changes to remove potentially infectious particles.	

Clorox Product Recommendations

The following CloroxPro cleaner disinfectants either have an EPA registered H5N1 claim, or appear on EPA [List M](#) and can be used to effectively manage the Avian Influenza A (H5N1) virus on environmental surfaces and equipment.

Products for use against Avian Influenza A (H5N1) Virus				EPA Reg. No.	H5N1 Contact Time	H5N1 Contact Time (EPA List M)	
<u>Clorox Healthcare Bleach Germicidal Wipes</u>					67619-12	–	1 minute
Item No. 30577	6" x 5" 150 ct. Canister	6/case					
Item No. 35309	6.75" x 9" 70 ct. Canister	6/case					
Item No. 32621	6.75" x 9" 100 ct. Softpack	9/case					
Item No. 31424	6.75" x 9" 50 ct. Individual	6/case					
Item No. 30358	12" x 12" 110 ct. Bucket	2/case					
Item No. 30359	12" x 12" 110 ct. Bucket Refill	2/case					
<u>Clorox Healthcare Bleach Germicidal Cleaner</u>					56392-7	–	1 minute
Item No. 68970	32 fl. oz. Spray	6/case					
Item No. 68978	128 fl. oz. Refill	4/case					
<u>Clorox Healthcare Fuzion Cleaner Disinfectant</u>					67619-30	1 minute	–
Item No. 31478	32 fl. oz. Spray	9/case					
<u>Clorox Healthcare Hydrogen Peroxide Cleaner Disinfectant Wipes</u>					67619-25	1 minute	–
Item No. 30824	6.75" x 9" 95 ct. Canister	6/case					
Item No. 30825	6.75" x 5.75" 155 ct. Canister	6/case					
Item No. 30826	12" x 11" 185 ct. Bucket	2/case					
Item No. 30827	12" x 11" 185 ct. Bucket Refill	2/case					
<u>Clorox Healthcare Hydrogen Peroxide Cleaner Disinfectant Cleaner</u>					67619-24	30 seconds	–
Item No. 30828	32 fl. oz. Spray	9/case					
Item No. 30829	128 fl. oz. Refill	4/case					
<u>Clorox Healthcare VersaSure Cleaner Disinfectant Wipes</u>					56392-7	30 seconds	–
Item No. 31757	6.75" x 8" 85 ct. Canister	6/case					
Item No. 31758	6" x 5" 150 ct. Canister	6/case					
Item No. 31759	12" x 12" 110 ct. Bucket	2/case					
Item No. 31761	12" x 12" 110 ct. Bucket Refill	2/case					
<u>CloroxPro Clorox Disinfecting Wipes</u>					67619-31	15 seconds	–
Item No. 15949	75 ct. Canister	6/case	Fresh Scent				
Item No. 15948	75 ct. Canister	6/case	Lemon Scent				
Item No. 31547	700 ct. Bucket	1/case	Fresh Scent				
Item No. 31428	700 ct. Bucket Refill	2/case	Fresh Scent				
<u>Clorox Healthcare Spore¹⁰ Defense Cleaner Disinfectant</u>					67619-40	1 minute	–
Item No. 32122	128 fl. oz. for Sprayer Devices	4/case					
Item No. 32409	128 fl. oz.	4/case					
<u>CloroxPro Clorox Disinfecting Bio Stain & Odor Remover</u>					67619-33	30 seconds	–
Item No. 31903	32 fl. oz. Spray	9/case					
Item No. 31910	128 fl. oz. Refill	4/case					

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