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Thank you for joining today's webinar. We will begin promptly at 2:00 p.m. Central.

The Rural Clinician's Role in Influenza A(H5N1) Surveillance This Summer: Practical Strategies for Assessing Patient Risk and Implementing Influenza Testing and Treatment

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Housekeeping

- Slides are available at https://www.ruralhealthinfo.org/webinars/influe nza-testing-and-treatment
- Technical difficulties please visit the Zoom Help Center at <u>support.zoom.us</u>

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If you have questions...





Featured Speakers



Sarah Heppner, MS, Associate Director, Federal Office of Rural Health Policy (FORHP)



Tim Uyeki, MD, MPH, MPP, Chief Medical Officer, Influenza Division, National Centers for Immunization and Respiratory Diseases (NCIRD), Centers for Disease Control and Prevention (CDC)



Laszlo Madaras, MD, MPH, Chief Medical Officer, Migrant Clinicians Network (MCN)

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Opening Remarks



Associate Director
Federal Office of Rural Health Policy

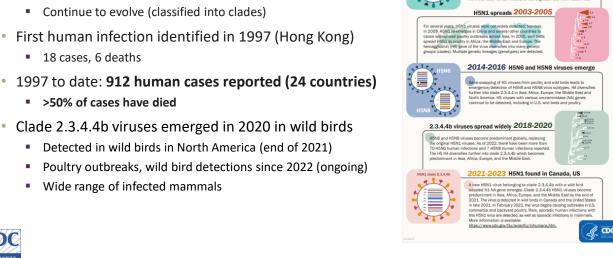






Overview of Human HPAI A(H5N1) Cases

- Highly Pathogenic Avian Influenza (HPAI) A(H5N1) virus first detected in a poultry outbreak in Scotland (1959)



Emergence and Evolution of

1996-1997 H5N1 bird flu virus first dete

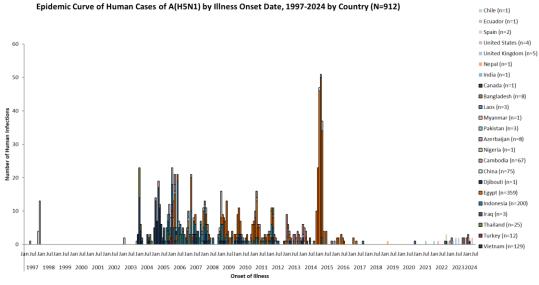
H5N1 BIRD FLU



H5N1 Cases Since 1997

2022-2024: 29 cases

(Australia 1, Cambodia 11, Chile 1, China 2, Ecuador 1, Spain 2, UK 5, US 4, Vietnam 2)



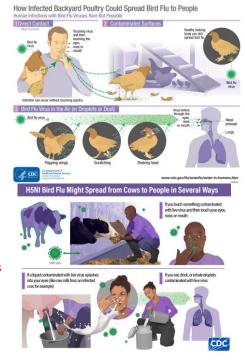
Influenza

Technical Report: Highly Pathogenic Avian Influenza A(H5N1) Viruses | Avian Influenza (Flu) (cdc.gov)

)

Human Infections with HPAI A(H5N1) Viruses

- HPAI A(H5N1) viruses bind preferentially to receptors most prevalent in the human lower respiratory tract
 - Virus receptors are also found on conjunctivae
- Wide symptomatic clinical spectrum
 - Mild (conjunctivitis, upper respiratory illness)
 - Severe/critical (pneumonia, respiratory failure, sepsis)
- Unprotected exposures resulting in human infection
 - Direct contact with sick/dead poultry
 - Visiting a live poultry market
 - Preparing poultry for consumption that were sick/died
 - Direct contact or close exposure to other infected animals (swans, dairy cows)
 - Limited, non-sustained transmission from prolonged exposure to a symptomatic H5N1 patient (last reported 2007)





Signs and Symptoms of HPAI A(H5N1) Virus Infection

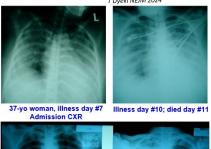
Clinical Findings in Mild Disease:

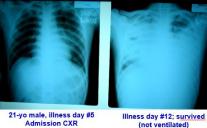
- Fever or feverishness, nonproductive cough, muscle aches, malaise, headache, sore throat, myalgia
 - Abdominal pain; vomiting and diarrhea can occur
 - Eye discomfort/redness/eye discharge (conjunctivitis)
 alone is uncommon but can occur

Progression to lower respiratory tract disease (days 5-7 after symptom onset): difficulty breathing, shortness of breath, chest pain, tachypnea

- Hospital admission findings:
 - Clinical: hypoxia, signs of pneumonia
 - Laboratory: leukopenia, lymphopenia, mild-to-moderate thrombocytopenia
 - Radiographic findings: patchy, interstitial, lobar, and/or diffuse infiltrates and opacities, consolidation







Tibuli CDC Contember 200

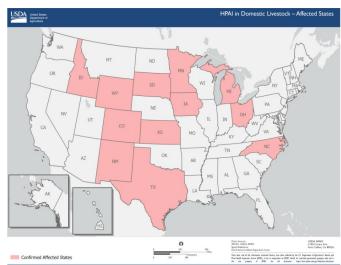
T Uyeki, CDC September 2005



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H5N1 in Dairy Herds, Poultry, and Other Animals

- USDA confirmed H5N1 virus infections of dairy herds in >100 farms across 12 states
 - Clade 2.3.4.4b virus
 - High levels of virus in raw milk
- Other animal species reported:
 - Wild birds, cats, racoons, opossums, alpacas, baby goats in the U.S.
 - 97 million commercial poultry or backyard birds died or depopulated in 48 states since February 2022.
- Wide range of infected wild birds, terrestrial and marine mammal species worldwide





Highly Pathogenic Avian Influenza (HPAI) Detections in Livestock; WAHIS (woah.org); USDA Support for Producers with Affected Dairy Premises

H5N1 Human Cases in 2024, U.S.

- Three human cases with cattle exposure detected:
 - April 1 Texas, farmworker, conjunctivitis
 - May 22 Michigan, farmworker, conjunctivitis
 - May 30 Michigan, farmworker, upper respiratory symptoms, watery eyes
- Not hospitalized, isolation recommended
- Oseltamivir recommended for antiviral treatment and post-exposure prophylaxis of household contacts
- No human-to-human transmission
- Virus isolated from 2 cases



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Health Alert: First Case of Novel Influenza A (H5N1) in Texas, March 2024 | Texas DSHS



Potential Exposures to H5N1 Virus

- People with close, prolonged, or unprotected exposures to infected animals (including livestock), or to environments contaminated by infected animals, are at greater risk of infection.
- **Potential occupational exposures**
 - Dairy farm workers
 - Slaughterhouse workers
 - Milk processing facility employees
 - Poultry farm workers
 - Veterinarians, veterinary assistants

Reminders at all clinical encounters:

- Monitor for signs or symptoms of ILI and/or conjunctivitis and seek clinical care if signs/symptoms occur
- · Do not drink raw milk
- Frequent handwashing recommended



Influenza Testing and Antiviral Treatment

- If A(H5N1) virus infection is suspected (use recommended PPE*):
 - Patients with acute respiratory symptoms:
 - > Collect a nasopharyngeal swab, and a combined nasal and throat swab
 - » Testing for influenza A virus, and A(H5) virus must be done at a public health laboratory**
 - Patients with conjunctivitis:
 - > Collect a conjunctival swab, and a nasopharyngeal swab
 - » Testing for influenza A virus, and A(H5) virus must be done at a public health laboratory**
 - Recommend home isolation, prescribe empiric oseltamivir treatment, notify local and state public health for monitoring and follow-up
 - If A(H5N1) virus infection is confirmed, household and close contacts are recommended to receive oseltamivir for post-exposure prophylaxis at treatment dosing as soon as possible

*PPE: NIOSH approved N95 filtering facepiece respirator, eye protection, gown, gloves

**Influenza tests available in clinical settings cannot specifically identify A(H5N1) virus



Summer Influenza Surveillance Priorities

- Continued monitoring for symptomatic workers with recent exposure on confirmed dairy farms
- Enhance national surveillance for A(H5N1) virus infections of people
 - Subtyping of influenza A positive specimens, expanded specimen sources
 - Continued surveillance of lab-confirmed influenza associated hospitalizations
- Provider outreach to continue influenza testing throughout summer, particularly for patients with recent history of relevant exposures
- Continued follow-up in areas with signals in syndromic or wastewater data



CDC Strategy for Enhanced Summer 2024 Influenza Surveillance | Avian Influenza (Flu)









A force for health justice

Somos una fuerza dedicada a la justicia en salud **Our mission** is to create practical solutions at the intersection of vulnerability, migration and health.

We envision a world based on health justice and equity, where migration is never an impediment to well-being.

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Who is at risk

- Dairy producers and workers
 - 51% of dairy workforce are immigrants
 - 79% of our milk supply comes from immigrant workers
- Workers on poultry farms
- Slaughterhouse workers
- Veterinarians
- Workers caring for sick animals
- **oCommunity Health Workers**
- oConsumers of raw milk



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Role of Clinician

- Know your area
 - Are there dairies in your community?
 - Are herds positive where you are?
- Know your patient population
 - Immigrant
 - Language
 - Literacy Level
- Prevention
 - Educating your patients
- Confirmatory Lab Test and Public Health Responsibility



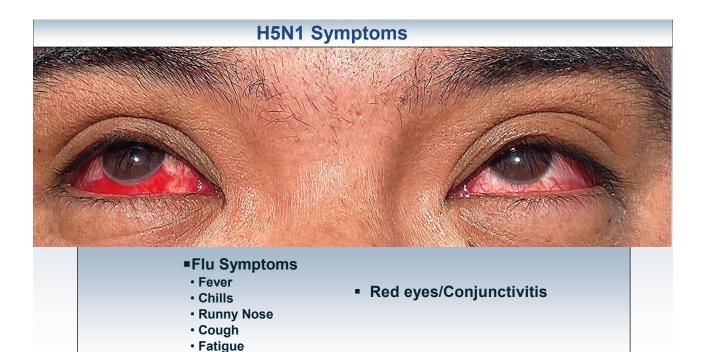


- Know the community
- Know workers

Muscle Aches

 Encourage workers to seek care and remind workers to tell clinician where they work

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Recognizing H5N1

- Patient History
 - Work
 - Environment
- At risk populations
- Confirmatory Lab Testing
 State Department of Health



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EOH Screening Questions for the Primary Care Setting

Preguntas para sondear en los lugares de atención a la salud

1 OCCUPATION OCUPACIÓN

Describe what you do for work.
Describa lo que hace en su trabajo.



2 ACTIVITIES AND CAUSES ACTIVITIDADES Y CAUSA

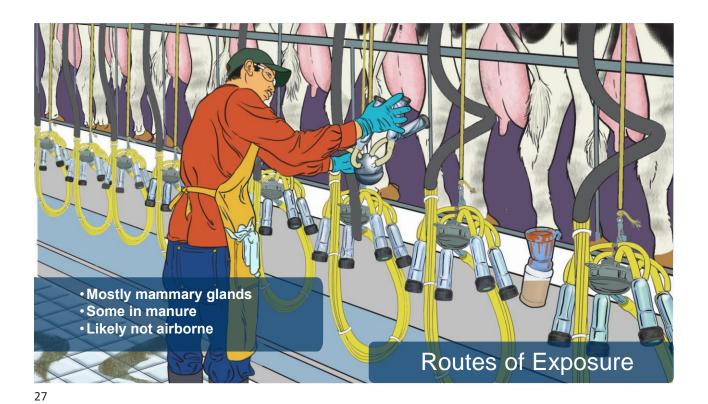
Are there any physical activities that you do — at work or away from work — that you feel are harmful to you? ¿Hay alguna actividad física-en el trabajo o en otro lugar-que crea usted es dañina para usted?

3 SUBSTANCES/PHYSICAL HAZARDS AND CAUSES SUBSTANCIAS/PELIGROS FÍSICOS Y CAUSA

Are you exposed to chemicals, fumes, dusts, noise, and/or high heat at your work or away from work? Do you think these are harming you?

¿Está usted expuesto a químicos, gases, polvo, ruido y/o altas temperaturas en su trabajo o en otro lugar? ¿Piensa usted que estas cosas lo pueden dañar?





Prevention

- Personal Protective Equipment
 - Hands
 - Face

Hand hygiene

∘ Do NOT drink raw milk



Personal protective equipment (PPE)

- Face shields or masks
- Disposable gloves
- Safety glasses or goggles
- o Overalls/gown

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Summary

- We are going to have emerging and re-emerging viruses
- Know your community
- •Know who is most at risk
- Ask your patient what they do for work
- Prevention still important
- Get updates and partner with your local and state health departments
- Keep up to date with CDC guidelines





Avian Flu

- Avian Flu and Your Safety: Guidance for Dairy Workers a onepage downloadable resource in English and Spanish.
- Avian Flu on Dairy Farms: What Clinicians and Dairy Worker Patients Need to Know Q&A with Jeff Bender, DVM, MS, DACVPM on the latest outbreak.
- Avian Flu and Dairy Workers: Video Playlist on Youtube features video clips from the Q&A, in English with Spanish.



Championing **Health Equity**

In this article, MCN examines underserved populations in the United States and the efforts built to meet their basic health needs.

https://jnhma.scholasticahq.com/article/116893-migrantclinicians-network-championing-health-equity

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Questions?



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Thank you!

- Contact us at <u>ruralhealthinfo.org</u> with any questions
- Please complete webinar survey
- Recording and transcript will be available on RHIhub website