

Texas Department of State Health Services

Highly Pathogenic Avian Influenza A (H5N1) Case Investigation Form

For use by health departments to investigate human infection with avian influenza virus (H5N1) associated with the Dairy Cattle Emerging Health Event in the U.S in March 2024.

Local health departments should email/fax the completed form to their Public Health Region (PHR).

DSHS PHRs should send completed forms through secure email to DSHS EAIDU at flutexas@dshs.texas.gov.

DEMOGRAPHIC INFORMATION						
Reporting health department:	Investigator (last, first):			Investigator phone:		
Case Name (last, first):	Date of birth:	Age:	Sex:	Case Phone:		
Address (street address, city, zip):	County of residence:	County of residence:				
Race	Ethnicity			Case Status		
□ Asian	🗆 Hispanic			□ Suspect		
American Indian/Alaskan Native	🗆 Not Hispanic			Probable		
□ Black or African American	🗆 Unknown			□ Confirmed		
Native Hawaiian/Pacific Islander				🗆 Not a Case		
□ White						
□ Other:						
Date of report: (mm/dd/yyyy):	□ New report			Unique ID:		
<u> </u>	Update to previous re	eport				

CL	INICAL INFORMATION		
1. 2.	Date of illness onset (mm/dd/yyyy): / / / Was person hospitalized for this illness?	5.	Was the patient vaccinated against influenza in the past year?
	🗆 Yes 🔲 No 🔛 Unknown		🗌 Yes 🔲 No 📋 Unknown
	2a. Date of admission: (mm/dd/yyyy):/_/	6.	Has the patient been isolated since diagnosis?
	2b. Facility name/location:		🗆 Yes 🔲 No 🔛 Unknown
3.	2c. Discharge Date: / / Did patient seek care in an outpatient (e.g., primary care physician, ER, urgent care) setting?		6a. If yes, type of isolation: □ Self-isolation at home (including the use of a face mask at home, when around others)
	□ Yes □ No □ Unknown 3a. Provider Name:		☐ Isolated at hospital (ensure infection control precautions: <u>https://www.cdc.gov/flu/avianflu/novel-flu-infection-control.htm</u>)
4.	Did patient die? □ Yes No □ Unknown 4a. If yes, died on: (mm/dd/yyyy): / 4b. Did patient die from HPAI (H5N1)? □ Yes No □ Unknown		□ Other: 6b. Isolation Start Date: / / / 6c. Isolation End Date: / /

	TEXAS Health and Human Services Health Service										
CL	INICAL INFORMATION (CC	DNTINUE	D)								
7.	Symptoms:										
	7a. Fever (≥100°F)/feverish	🗌 Yes	🗌 No		Unknowr	l		le/body ache	∐ Yes	□ No	
	7b. Highest temp recorded					_	7m. Ras	h	□ Yes	🗆 No	🗆 Unknown
	7c. Date of Onset of fever:	/	/((mm	/dd/yyyy	')	7n. Head	lache	□ Yes	🗆 No	🗆 Unknown
	7d. Time of Onset of fever:					_	7o. Eye i	infection/redness	🗌 Yes	🗌 No	🗌 Unknown
	7e. Duration of fever:					_	7p. Shor	tness of Breath	□ Yes	🗆 No	🗆 Unknown
	7f. Diarrhea	□ Yes	🗆 No		Unknowr	۱	7q. Fatig	ue	□ Yes	🗆 No	🗌 Unknown
	7g. Cough	□ Yes	🗆 No		Unknowr	ו	7r. Seizu	ires	□ Yes	🗆 No	🗌 Unknown
	7h. Nausea	□ Yes	🗆 No		Unknowr	ı	7s. Othe	r	□ Yes	🗆 No	🗆 Unknown
	7i. Sore Throat	🗌 Yes	🗆 No		Unknowr	ו	7t. What symptom	was the first ı?			
	7j. Vomiting	□ Yes	🗆 No		Unknowr	I	7u. Date	of Illness Recovery:			
	7k. Runny Nose	□ Yes	🗆 No		Unknowr	ו	7v. Time	of Illness Recovery:			
ME	DICAL HISTORY										
8.	Does the patient have any	y chronic	medica	l co	nditions	?					
	□ Yes □ No □ Unknow	wn									
	If no, skip to question 10	-									
	8a. Asthma/reactive air disease	rway		Yes	🗆 No	🗆 Uı	nknown				
	8b. Other chronic lung	disease		Yes	🗆 No	🗆 Ui	nknown	If YES, specify:			
	8c. Chronic heart or cir disease	rculatory		Yes	□ No	🗆 Ui	nknown	If YES, specify:			
	8d. Diabetes mellitus		□ `	Yes	🗆 No	🗆 Uı	nknown	If YES, specify:			
	8e. Kidney or renal dis	ease		Yes	🗆 No	🗆 Uı	nknown	If YES, specify:			
	8f. Non-cancer immunosuppressive co	ondition		Yes	🗆 No	🗆 Ui	nknown	If YES, specify:	,,		
	8g. Cancer chemothera past 12 months	apy in	□`	Yes	□ No	🗆 Ui	nknown	If YES, specify:			
	8h. Neurologic/ neurodevelopmental d	isorder		Yes	🗆 No	🗆 Ui	nknown	If YES, specify:			
	8i. Other chronic disea	ses		Yes	🗌 No	🗆 Uı	nknown	If YES, specify:			
9.	Was patient pregnant or ≤ Yes No Unknow 9a. If yes (pregnant), we 9b. If yes (postpartum), o	wn 🛛 N eeks pregr	ot applic	able nseť	?						

TEXAS Health and Human Services	Texas Department of State
Services	Health Services

10. Specimen ID:	
11. Specimen Collection Date (mm/dd/yyyy): / /	
12. Was this patient tested for influenza? 🗆 Yes 📄 No 📄 Unknown	
13. Test type: □ Rapid antigen (not recommended) □ RT-PCR □ Other: □	Unknown
14. Where was test performed? State public health laboratory Other:	Unknown
15. Test result : Positive Negative Equivocal Unsatisfactory/Not tested	
15a. If positive, please indicate virus identified:	
🗆 Influenza A 🛛 Influenza B 🔲 Influenza A/B (type not distinguished) 🛛 Influenza A (unsubtypeable)	
□ Influenza A (H5 Unknown N) □ Influenza A (H5N1) □ Negative □ Other:	Unknown
16. Subtype/Lineage/Clade/Sub-Clade:	
 17. Did this patient take influenza antiviral chemoprophylaxis due prior to onset? ☐ Yes ☐ No ☐ Unknown 	
17a. If yes, date started (mm/dd/yyyy):/_/	
17b. If yes, was chemoprophylaxis completed?	
\Box Yes \Box No, became ill before course was completed	
\square No, nonadherent \square Unknown	
17c. If yes, what chemoprophylaxis was taken?	
18. Has this patient started influenza antiviral treatment (for symptoms)?	
\square Yes \square No \square Unknown	
18a. Oseltamivir (Tamiflu) 🗆 Yes 📄 No 📄 Unknown	
18b. If yes, date started (mm/dd/yyyy): / /	
18c. Zanamivir (Relenza) \Box Yes \Box No \Box Unknown	
18d. If yes, date started (mm/dd/yyyy): / /	
18e. Other influenza antiviral 🗆 Yes 🔅 No 🔅 Unknown	
18f. If yes, name:	
18g. If yes, date started: (mm/dd/yyyy): / /	
EPIDEMIOLOGY INFORMATION	
Travel:	
19. Did the patient travel outside of their county of residence in the 10 days before onset?	
🗆 Yes 🔲 No 📄 Unknown	
19a. If yes, specify:	
20. In the 10 days prior to illness onset, did the patient consume, touch, or handle any raw milk or raw mi	ilk products?
□ Yes □ No □ Unknown	
20a. If yes, where was the raw milk/product obtained:	

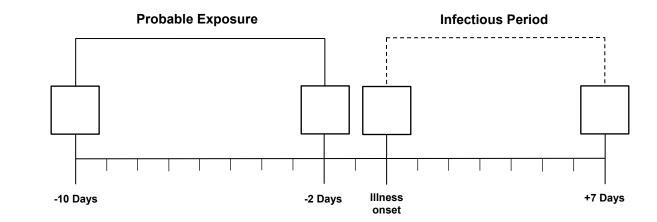
TEXAS Health and Human Services Health Services							
EPIDEMIOLOGY SECTION (CONTINUED)		ECT Co		CLOSE Contact (e.g., within 6 feet of			
Exposure: Contact with livestock animals (DIRECT or CLOSE, as defined), including but not limited to cows, poultry, or pigs.	animals)			animals for a combined total of 15 minutes or more)			
Onset date: / / \longrightarrow 10 Days Prior: / /	Yes	No	Unk	Yes	No	Unk	
21. In the 10 days before becoming ill, did that patient have contact (DIRECT or CLOSE) with any livestock animals? <i>If no, skip to question 26</i>							
If yes, check all that apply for animal(s) in each exposure level:							
Cows							
Poultry							
Sheep Goats							
Pigs							
Other Animals:							
22. In what type of setting did contact (DIRECT or CLOSE) with							
livestock animals occur? (For any area other than patient's			1	1	1	i	
home, write business name and address or city.)	Yes	No	Unk	Yes	No	Unk	
Patient's Home							
Work (Go to 22a):							
Agriculture Fair:							
Live Animal Market:							
Petting Zoo:							
Other:							
22a. If contact occurred at work, describe your job duties in your own words:							
23. Did contact (DIRECT or CLOSE) occur in any of the following areas? (Note: *indicates areas with direct milk contact)	Yes	No	Unk	Yes	No	Unk	
Milking Parlor*							
Milk House*							
Hospital/Sick Pens*							
Calf Milk Handling/Feeding Facilities/Pens*							
Lab Testing/Sampling* Milk Load Outs from the dairy into milk tanker*						-	
On Farm Milk Tank Washing Facilities*							
Reproductive Pens							
Maternity Pens							
Animal Yard/Open Pen				<u> </u>			
· Feed Handling						1	
Other							

	epartment of State Services								
24. Did the patient have	contact (DIRECT	or CLOSE) with	n animals exhibiting signs of illr	iess?					
□ Yes □ No □ Unknown									
24a. If yes, please describe below the type of contact, animals contacted, and exposure date(s):									
25. Did the patient wear l	PPE during the co	ontact?							
🗌 Yes 🗌 No 🔲 U	nknown								
25a. If yes, what PF			Despirator (s.g. NOE) Disr	aaabla C	overelle.				
	□ Gloves □ Boo hair/head cover		Respirator (e.g. N95)	osable C	overails				
			ave close contact with anyone v	vho work	s on a f	arm and/or who			
routinely handles live	-				o on a n				
🗆 Yes 🛛 No 🖾 Ur	ıknown								
If yes, please provid	-								
27. Is the patient a conta □ Yes □ No □ Ur		-	ase of novel influenza virus A in le below:	fection?					
Relationship to Patient	Unique ID	State Lab ID	Case Status	Sex (M/F)	Age	Date of Illness Onset (MM/DD/YYYY)			
			☐ Confirmed ☐ Probable ☐ Unknown			_ / /			
			☐ Probable ☐ Unknown			/			
_		ho was sick wit	th a similar illness within 10 day	s of onse	et?				
If yes, please provid 28b. Contact information:	-								



29. INFECTION TIMELINE:

Enter onset of illness. Count backwards and forwards to enter dates to probable exposure and infectious periods.



While the patient was infectious (see diagram above), who did they encounter?

Initials	Relationship	Sex (M/F)	Age	Symptomatic (Y/N)	Illness Onset	Did They Have Animal Exposure (Y/N)	PEP Recommended (Y/N)	PEP Started (Y/N)

Notes/Comments: Add additional information or contact information -

For use by health departments to investigate human infection with avian influenza virus (H5N1) associated with the Dairy Cattle Emerging Health Event in the U.S.

Local health departments should email/fax the completed form to their Public Health Region (PHR).

DSHS PHRs should send completed forms through secure email to DSHS EAIDU at flutexas@dshs.texas.gov.

- For PUIs, arrange for nasopharyngeal (NP) swab collection and RT-PCR testing at a Texas public health laboratory.
- Antiviral treatment should be given to all patients with possible infection with novel influenza A viruses. Local health departments should encourage all
 PUIs to discuss antiviral treatment with their healthcare provider.
- Healthcare facilities should use appropriate isolation precautions for PUIs for infection with novel influenza A viruses. Non-hospitalized PUIs should stay
 home from school, work, and social gatherings until cleared by public health.

Instructions to Complete the Highly Pathogenic Avian Influenza A (H5N1) Case Investigation Form

- Submit form electronically via **secure email** to the appropriate DSHS Public Health Region (PHR).
- DSHS PHRs should send completed forms through secure email to DSHS EAIDU at <u>flutexas@dshs.texas.gov</u>.
- Record all information accurately and as completely as possible in the appropriate spaces. Use the Continuation Page if needed.
- Use a separate form for each individual subject and illness.

DEMOGRAPHIC INFORMATION

- **Reporting health department**: write in the jurisdiction responsible for investigating this case. This should be the health department that DSHS should contact if there are questions regarding this investigation.
- **Investigator:** enter the official name (last and first) of the person investigating and reporting the case. This should be the person that DSHS should contact if there are questions regarding this investigation.
- **Investigator phone:** write in the contact number of the person investigating the case. This should be the person that DSHS should contact if there are questions regarding this investigation.
- Case name: write in the case's official name (last and first).
- Date of Birth: write in the case's official date of birth (mm/dd/yyyy).
- Age: enter the case's age at time of illness onset and age unit, (e.g. years, months, weeks, or days). For subjects aged >24 months, it is preferable for age to be calculated in years.
- Sex: enter the case's sex. Write in one choice (Male, Female, or Unknown).
- **Case phone:** enter the contact number for the case.
- **Address:** enter the case's home address (primary residence), state and zip code.

- **County of residence:** write in the case's primary county of residence. Please follow the <u>Council for State and Territorial Epidemiologist</u> <u>guidelines</u> for reporting this data element.
- **Case email:** write in the email address for the case.
- **Race:** select the case's self-identified race. 'Unknown' should be selected for choices including: 'Unknown', 'Asked but unknown', 'No Information', 'Not asked', or 'Refused to answer'. If 'Other' is selected, then please specify in the text box provided.
- **Ethnicity:** select the case's self-identified ethnicity. 'Unknown' should be selected for choices including: 'Unknown', 'Asked but unknown', 'No Information', 'Not asked', or 'Refused to answer'.
- **Case Status:** select the case's classification as defined below:
 - Confirmed: A case meeting the clinical criteria with a CDC laboratory confirmed novel/variant influenza A virus result.
 - Probable: A case meeting the clinical criteria and epidemiologically linked to a confirmed case or animal presumed to be infected with novel/variant influenza with LRN testing that has resulted in 'unsubtypable' or influenza A H5 AND is pending CDC confirmatory testing and/or CDC results that are inconclusive or negative for a novel/variant influenza A virus infection.
 - Suspect: A case meeting the clinical criteria and epidemiologically linked to a confirmed case or animal presumed to be infected with novel/variant influenza, but is pending initial laboratory testing for influenza.
- **Date of report:** write in the date the case was first reported to public health. Select the box that appropriately reflects whether this report is a new report or an update to a previous report.
- **Unique ID**: enter the state generated identification number that is unique to the person assigned upon entry into the system.

CLINICAL INFORMATION

- Date of illness onset: write in the date of acute symptom onset (mm/dd/yyyy). Reporting partial dates is acceptable (e.g., month and year).
- 2. Hospitalization: select "yes" if the case was admitted as an inpatient and enter the hospitalization details including the subject's admission and discharge dates for this illness, hospital name and location. If the case was hospitalized more than once for this illness (including hospitalizations at the same hospital or transfers/referrals) then include additional details on the notes page.
- **3. Outpatient setting:** select "yes" if the case was seen in an outpatient setting and enter the details including the case's provider name, location and phone number. If there are more than one, then additional information can be added on the notes page.
- 4. Death: check the appropriate box to indicate if the case died (yes, no unknown). If yes, write the date of death (mm/dd/yyyy). For the next question, only select "yes" if the case died because of the highly pathogenic avian influenza infection as documented by a death certificate or hospital discharge summary. Select "no" if avian influenza is not listed as the cause or contributor to the death on the death certificate or hospital discharge summary. Select "unknown" if the death certificate or hospital discharge summary. Select "unknown" if the death certificate or hospital discharge summary is unavailable.
- **5. Influenza Vaccination:** check the appropriate box to indicate if the case was vaccinated against influenza in the past year (yes, no, unknown). If yes, write the date of the last vaccination (mm/dd/yyyy).
- **6. Isolation:** check the appropriate box to indicate whether the case has been in isolation since diagnosis. If yes, check the box to select the appropriate type of isolation and write in the isolation start and end dates (mm/dd/yyyy).

7. Symptoms: check the appropriate boxes to indicate which symptoms were present as part of this illness. If fever is noted, write in the highest temperature recorded, date and time of the fever onset (mm/dd/yyyy) and the duration of fever (in days). Write in the first symptom associated with the illness and date of first symptom occurred (mm/dd/yyyy). In the date of illness recovery, indicate the date and time that symptoms resolved.

MEDICAL HISTORY

- 8. Chronic medical questions: select "yes" if the case has one or more chronic medical conditions. Check the appropriate box(es) to indicate the case's chronic medical conditions. If there are no chronic medical conditions, skip to the following question about pregnancy status. If a case is a male, skip to the lab section.
- **9. Pregnancy:** indicate whether the subject is pregnant or within 6 weeks post-partum at the time of the event. If "yes", indicate week pregnant at onset OR if post-partum, enter the delivery date. Note: avian influenza infection in a pregnant woman may be more severe than in a non-pregnant woman. In addition, treatment recommendations are different.

LAB INFORMATION

If influenza testing was done, enter the type of test, result, laboratory name and contact phone number for each test reported on the case. Include specimen ID, specimen collection date and the reporting laboratory name and phone number **(questions 10-16).**

- **Test type:** test(s) performed for this case. If more than two tests were done, then additional results may be included on the notes page.
- **Result**: indicate the result of the test performed and any subtype/lineage/clade and sub-clade information reported.

TREATMENT INFORMATION

17. Chemoprophylaxis: select "yes" if chemoprophylaxis medication was taken due to an exposure to influenza. Enter medication(s) and the date (mm/dd/yyyy) it was started.

18. Antiviral treatment: select "yes" if an antiviral drug was taken after the influenza diagnosis to mitigate symptoms. Choose (Y/N/U) for all antiviral choice(s) and date started (mm/dd/yyyy).

EPIDEMIOLOGY INFORMATION

19. Travel: select "yes" if the case traveled outside of their county of residence in the 10 days prior to onset. List travel dates (mm/dd/yyyy) and locations.

20. Raw Milk: select "yes" if the case consumed, touched or handled raw milk or raw milk products in the 10 days prior to illness. If yes, write down information about the raw milk/product and where it was obtained.

21. Exposure to animals: select "yes" if the case had direct (touch or handle an animal) and/or close contact (come within 6 feet for 15 minutes or more with animals confirmed to be infected for avian influenza A(H5N1)). Indicate date of onset and 10 days prior to that date. Select all animals the case was exposed to and indicate the type of contact that occurred. If there was no direct or close contact, select "no" and proceed to question 26 (close contact with farm or livestock workers).

22. Exposure setting: select the setting(s) where the direct and/or close contact with the animals occurred. For any setting other than the case's home address, write the business name, address, city and contact information. If contact occurred at work, ask the patient to describe their work duties in their own words and write down the response.

23. Exposure contact areas: select the area of the setting and indicate where the direct and/or close contact occurred.

24. Exposure to sick animals: if the case indicates they had contact (direct or close) with a sick animal, describe the type of contact, animals contacted, and exposure dates. Additional information can be added on the notes page.

25. Personal Protective Equipment (PPE): select "yes" if the case wore PPE during the direct or close contact. If yes, select all PPE worn during the contact.

26. Close contact with someone who works at a farm or handles livestock: select "yes" if the case had close contact with anyone who works on and/or who handles livestock in the 10 days prior to illness onset. If yes, write in the information (including name, address, number) for the farm contact(s) and the close contact(s).

27. Contact of novel influenza A case: select "yes" if the case was a contact of confirmed or probable case of novel influenza A. Write in the relationship to the case, unique identifiers (including case ID in NEDSS and or the Lab ID), status of the case (confirmed/probable/suspect/NAC), sex (M/F/U), age (in years) and date of illness onset (mm/dd/yyyy).

28. Contact of person with similar illness: select "yes" if the case was a contact of someone who was sick with a similar illness within 10 days of illness onset. Write in the name, address, and phone number for the contact.

29. Infection Timeline/Exposures: use the infection timeline to identify the case's exposure and infectious periods. Enter onset of illness, count backwards enter dates into the exposure period and forwards to enter dates into the infectious period. Use the timeline to identify when the case may have exposed others to the virus (infectious period). Enter information about the persons who may be exposed in the table, including contact information (name, phone number), sex (M/F), symptomatic (Y/N), date of illness onset (if symptomatic), any direct or close contact with animals, PEP recommended (Y/N) and PEP started (Y/N).