

**LEGIONELLOSIS INVESTIGATION REPORT FORM** Local health departments should fax completed investigation form to regional DSHS office. Regional DSHS offices should fax completed investigation form to 512-776-7616.

NBS ID:	Case status: □ Confirmed □ Not a Case
Patient name:	Reported by:
Last First Address:	Agency:
	Phone: ( ) Report date://
City: County: Zip:	
Phone 1: ( ) Phone 2: ( )	Investigated by:            Agency:
Birthdate:// Age: Sex: DMale DFemale DUnknown	Phone: ( )
Race: White Black Asian Pacific Islander Native American/Alaskan	Email:
Unknown Dother:	Investigation start date://
Hispanic:  Yes  No  Unknown	Date investigation completed://
CLINICAL DATA	UNDERLYING HEALTH CONDITIONS
Symptom onset date:// Illness end date://	□ Yes ( <i>check all that apply</i> ) □ No □ Unknown
Outcome? Survived Died on:/ Still ill** Unknown	□ Asthma □ Cancer, when?
**If still ill, follow up on patient's outcome in 2-3 weeks and update in NBS.	Chemotherapy Chronic kidney disease
Hospitalized?  Yes <sup>†</sup> No Unknown Date of admission:	□ Corticosteroid therapy □ Diabetes □ Heart disease
Date of admission:// Date of discharge://	□ HIV/AIDS □ Liver disease □ Organ transplant recipient, when?
Hospital address:	Other chronic lung disease:
†If hospitalized in more than one facility, please add hospital details in comments section.	□ Other:
Physician: Phone: ( )	
Was the patient diagnosed with clinical or radiographic pneumonia?         Yes       No         Unknown         Signs and symptoms (Check all that apply):       Altered mental status/confusion         Abdominal pain       Chest pain       Cough       Diarrhea         Fever (Max temp:)       Headache       Pneumonia       Malaise         Myalgia (muscle pain)       Other:       Shortness of breath       Vomiting	HEALTH BEHAVIORS       Solution Solution       Duration day (packs, drinks)       Duration (years)         Alcohol consumption       □       □       □       □         Current smoker       □       □       □       □         Former smoker       □       □       □       □
LABORATORY DATA (If more than one urinary antigen test performed, record sec	cond test in "other legionellosis test" section)
Urine antigen test: Date collected:// Result: Desitive	-
Ordering facility: Reporting facility:	Date rec'd by public health://
Culture: Date collected://	
Specimen source:  Bronchoalveolar lavage (BAL) or bronchial wash  Sputur	n □ Pleural fluid □ Lung tissue □ Other:
Result:  Positive  Negative  Pending  Unknown If positive, spe	ecies and serogroup:
Ordering facility: Reporting facility:	
Antibody test:	
1st (acute) antibody titer: Species / serogroup:	Date collected:/
2nd (convalescent) antibody titer: Species / serogroup:	Date collected://
Ordering facility: Reporting facility:	Date rec'd by public health://
Other legionellosis test:	
Test name:  Nucleic acid assay (PCR)  Direct fluorescent antibody (DFA)	□ Other:
Date collected:// Specimen source:  □ Lung biopsy □ Sputum	Pleural fluid Blood Other:
Result:  Positive  Negative  Pending  Unknown If positive, spe	eciesserogroup:
Ordering facility: Reporting facility:	Date rec'd by public health://

NBS ID: \_\_\_

#### Who was interviewed to obtain exposure history?

Patient Surrogate; relationship to patient: \_\_\_\_\_

Whenever possible, interview a patient or surrogate to obtain exposure history. If the patient is unable to communicate at the time of investigation, complete the interview with a surrogate but please consider interviewing the patient at a later date. Ask patient/surrogate to refer to a calendar and gather booking info/receipts/itineraries for recent travel and medical stays.

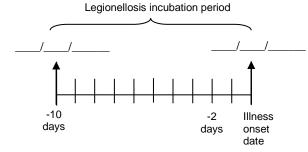
D Neither; reason: \_\_\_\_

#### Contact Attempts: Record date(s) and contact method (phone, text, letter):

Date 1:// Time:	Date 2:// Time:	Date 3:// Time:

# Were medical records obtained and abstracted/reviewed for this investigation? Yes Unknown Unknown

**INFECTION TIMELINE:** Enter onset of illness. Count backward to determine beginning of incubation period for exposure history sections below.



# • Incubation period: Legionnaires' disease is typically 2–10 days; Pontiac fever is 5–72 hours.

• For all legionellosis cases, please ask about exposures in the **entire 10-day period** prior to illness onset.

#### TRAVEL HISTORY (OR RESIDENCE IN A TRAVEL ACCOMMODATION)

In the 10 days before onset, did the patient spend any nights away from home (e.g., hotel, motel, cruise ship, train, RV park, resort, hostel, private residence, campground, etc.), <u>excluding</u> healthcare settings, or was the person living in a travel accommodation?

$\Box$ Yes, please complete the table below	🗆 No	🗆 Unknown
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	#	Accommodation name and type <sup>‡</sup>	Address, city, state, zip code, country	Room number	Arrival date	Departure date
	1					
_	2					
	3					
	4					

‡If patient was on a cruise ship during the incubation period, complete this investigation form and the CDC Legionellosis Cruise Ship Questionnaire

### ADDITIONAL TRAVEL QUESTIONS

#### If patient reported using a recreational vehicle (RV) or camper in the table above, please ask the following:

Name and location of RV park/campgrounds (if not given above): \_

Campsite/row number: \_\_\_\_\_

Used drinking water camper/RV hookups? 
Yes No Unknown

Date(s) when camper/RV water tanks were last flushed: \_\_\_\_

### EVENTS

In the 10 days before onset, did the patient attend any conventions, conferences, public gatherings, meetings, festivals, or other events (e.g., wedding, reunion, exhibit, trade show, fair)? □ Yes, please complete the table below □ No □ Unknown

Type of event	Date(s) attended	Name/location and address of event

# MEDICAL FACILITY EXPOSURE HISTORY

In the 10 days before onset, did the patient visit, stay, or work at a <u>healthcare setting</u> (e.g., hospital, rehab facility, clinic, dental office)?

 $\Box$  Yes, please complete the table below  $\Box$  No  $\Box$  Unknown

Type of healthcare facility	Type of exposure	Facility name and complete address	Reason for visit	Date(s) of visit / admission	Date of discharge
Clinic	Employee				
Dental	Inpatient				
Hospital	Outpatient				
Other:	□ Visitor				
□ Rehab	□ Volunteer				
□ Clinic	Employee				
Dental	Inpatient				
Hospital	Outpatient				
Other:	□ Visitor				
Rehab	□ Volunteer				
Clinic	□ Employee				
Dental	Inpatient				
Hospital	Outpatient				
Other:	□ Visitor				
□ Rehab	□ Volunteer				

If yes, was the patient hospitalized or living at the facility for the entire incubation period? **Tes No No** Not applicable **Unknown** If yes, was the facility a transplant center? **Tes No Unknown** 

# In the 10 days before onset, did the patient visit, stay or work at a <u>nursing home, assisted living facility, senior living facility, or similar</u>? Yes, please complete the table below □ No □ Unknown

Type of facility	Type of exposure	Facility name and complete address	Date(s) of visit / admission	Date of discharge
<ul> <li>Assisted living facility</li> <li>Nursing home (with skilled nursing or personal care)</li> <li>Other:</li> </ul>	Employee     Other:     Resident			
<ul> <li>Senior living facility (without skilled nursing or personal care)</li> <li>Skilled nursing facility</li> </ul>	□ Visitor □ Volunteer			
<ul> <li>Assisted living facility</li> <li>Nursing home (with skilled nursing or personal care)</li> <li>Other:</li> <li>Senior living facility (without</li> </ul>	Employee  Other:  Resident  Visitor			
skilled nursing or personal care)	□ Volunteer			

If yes, was the patient living at the facility for the entire incubation period? 🛛 Yes<sup>§</sup> 🗆 No 🗆 Not applicable 🗇 Unknown

# CORRECTIONAL FACILITY EXPOSURE HISTORY

In the 10 days before onset, did the patient visit, work, or stay at a co	rrectional facility? 🗆 Yes 🗆 No 🗆 Unknown
If yes, name and address of facility:	
Type of exposure: □ Inmate □ Employee □ Visitor □ Other:	
Date(s) of visit or incarceration:	_ Date(s) of release / transfer:
Was the patient living at the facility for the entire 10 days before onset?	□ Yes <sup>§</sup> □ No □ Not applicable □ Unknown
§Definitions:	
Definite facility-associated case: Case spent entire incubation period in the faci	5
Possible facility-associated case: Case spent a portion of the incubation period	in the facility
Outbreak <sup>∥</sup> (one of the following):	
	re-associated cases within 1 year associated with the same healthcare facility
<ul> <li>At least 2 cases associated with the same non-healthcare facility (e.g., how</li> </ul>	el, gym, etc.) or other common location (e.g., amusement park) within 1 year

Note: A thorough investigation is important to exclude other plausible sources of infection (i.e., those not associated with the facility/location).

# OTHER EXPOSURE HISTORY QUESTIONS

In the 10 days before onset, did the patient have exposure (e.g., getting in, sitting/being near, or walking by, even briefly) to any of the following potential sources of misty/aerosolized water, while traveling, hospitalized, or in the case's home city?

### Please complete the table below:

Exposure type Includes getting in, sitting/ being near, or walking by a <u>functioning/working</u> device	Yes	No.	Unknown	Location(s)	Date(s)	Description of exposure and duration (e.g., sat near for 1 hour)
Car Wash						
Centralized cooling tower/ HVAC systems						
Decorative fountain, waterwall, or water display						
Home humidifier or mister						
Hot springs, mineral baths, or geothermal waters						
Hot tub or whirlpool spa						
Jetted bathtub (away from home, filled and drained after each use)						
Other:						
Other:						
Pressure Washer						
Recreational misters						
Shower (away from home)						
Steam room or wet sauna						
Store misters (e.g., grocery store, gardening)						
Swimming or wading pool						
Therapeutic spa venue						
Waterpark, splash pad						

Legionellosis Investigation Report Form

NBS ID: \_\_\_\_\_

Type of device			Date	ə(s):		Locatio	n:		
Does the device use									
Type of water used	l in the de	evice?	□ Distilled	□ Bottled	□ Tap (well)	□ Tap (city)	□ Other:	🗆 None	🗆 Unkno
Describe how the c	levice is o	cleaned:							
the 10 days before	onset, di	d the patient hav	/e any expo	osures to so	oil, potting so	il, or compost	: (e.g., gardening, e	excavation,	etc.)?
□Yes □No □		-				-	ning-potting soil pu		-
Location, soil type, a	ctivities:_						What dates:		
the 10 days before near a location whe	ere the pa	atient lived, was	hospitalize	ed, worked, o	or visited?	□ Yes □ N	o 🗆 Unknown	s, or water	line work
lf yes, provide place,			-	•			,		
Location and details:									
Location and details:							_ What dates:		·····
_ocation and details:							What dates:		
the 10 days before	onset, di	d the patient wo	rk, attend s	school, or vo	olunteer?	∃Yes, please	complete table below	w □No	
		-					Date(s) worked,		iration
Job/activity descr	iption	Employer/faci	lity	Employe	r/facility add	ress	volunteered, etc.	. (e.g., 8	hours/da
as the nationt know	v of anyc		ilar sympte		umonia? □\	Ves nlease co	mplete the table belo		🗆 Unkr
Name	Age	Onset date		nformation		Exposures	Legionella testing done?	Legionella	-
		//					🗆 Yes 🗆 No		
		//					🗆 Yes 🗆 No		
			<u>I</u>						
IBLIC HEALTH ACT idelines for examples,	)	NKEN (please refe	r to the Prev	ention and Co	ontrol Measure.	s section in the	Legionellosis chapter	r of the EAIDE	3 Investig