

| | | | |
|---|--|--|---|
| HOSPITALIZATION DURING TREATMENT FOR LEGIONELLOSIS | Hospitalized? Y=yes N=no U=unknown <input type="checkbox"/> | Hospital Admit Date _____ (mm/dd/yyyy) | |
| | Hospital Stay Duration 0-998 999=unknown <input type="text"/> <input type="text"/> (days) | Hospital Discharge Date _____ month day year | |
| | Hospital Name _____ | Hospital Treatment State _____ | Hospital Treatment City _____ |
| ILLNESS INFORMATION | Illness Onset Date _____ month day year | Illness Duration _____ | Illness Duration Units* _____ |
| | Illness End Date _____ month day year | Legionella Diagnosis: <input type="checkbox"/> Legionnaires disease <input type="checkbox"/> Other <input type="checkbox"/> Extrapulmonary legionellosis | |
| | Illness Onset Age _____ | Illness Onset Units* _____ | Date of Diagnosis _____ month day year |
| Did the subject die from this illness or complications of this illness? Y=yes N=no U=unknown <input type="checkbox"/> | | Date of Death _____ month day year | |

TRAVEL INFORMATION

NIGHTS AWAY FROM HOME: in the 14 days before onset, did the patient spend any nights away from home (excluding healthcare settings)? Y=yes N=no U=unknown *If yes, please complete the following table:*

| ACCOMMODATION NAME | ADDRESS | CITY | STATE | ZIP | COUNTRY | ROOM NUMBER | DATES OF STAY | |
|--------------------|---------|------|-------|-----|---------|-------------|---------------|----------|
| | | | | | | | Start Date | End Date |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

ACCOMMODATION COMMENTS:

HEALTHCARE SETTING INFORMATION

Was this case associated with a healthcare exposure?

1 **Presumptive:** Patient had 10 or more days of continuous stay at a healthcare facility during the 14 days before onset of symptoms

2 **No:** No exposure to the setting in the 14 days prior to date of symptom onset

3 **Possibly:** Patient had exposure to the setting for a portion of the 14 days prior to date of symptom onset

8 **Other** (specify) _____ **9 Unknown**

HEALTH CARE SETTING: in the 14 days before onset, did the patient visit or stay in a healthcare setting (e.g., hospital, long term care/rehab/skilled nursing facility, clinic)? Y=yes N=no U=unknown *If yes, please complete the following table:*

| TYPE OF HEALTHCARE SETTING/FACILITY (check one) | TYPE OF EXPOSURE (check one) | FACILITY NAME | IS THIS FACILITY ALSO A TRANSPLANT CENTER | FACILITY ADDRESS | CITY | STATE | ZIP | DATE OF VISIT/ADMISSION | |
|--|--|---------------|---|------------------|------|-------|-----|-------------------------|----------|
| | | | | | | | | Start Date | End Date |
| 1 <input type="checkbox"/> Hospital 2 <input type="checkbox"/> Long term care 3 <input type="checkbox"/> Clinic 4 <input type="checkbox"/> Nursing home 8 <input type="checkbox"/> Other 9 <input type="checkbox"/> Unknown | 1 <input type="checkbox"/> Inpatient 2 <input type="checkbox"/> Outpatient 3 <input type="checkbox"/> Visitor/volunteer 4 <input type="checkbox"/> Employee 8 <input type="checkbox"/> Other 9 <input type="checkbox"/> Unknown | | 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 9 <input type="checkbox"/> Unknown | | | | | | |
| 1 <input type="checkbox"/> Hospital 2 <input type="checkbox"/> Long term care 3 <input type="checkbox"/> Clinic 4 <input type="checkbox"/> Nursing home 8 <input type="checkbox"/> Other 9 <input type="checkbox"/> Unknown | 1 <input type="checkbox"/> Inpatient 2 <input type="checkbox"/> Outpatient 3 <input type="checkbox"/> Visitor/volunteer 4 <input type="checkbox"/> Employee 8 <input type="checkbox"/> Other 9 <input type="checkbox"/> Unknown | | 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 9 <input type="checkbox"/> Unknown | | | | | | |

HEALTHCARE SETTING EXPOSURE COMMENTS:

| | | | |
|---|---|---|---|
| Did the healthcare facility have a water management program to reduce the risk of <i>Legionella</i> growth and spread in place? | Y | N | U |
| In the 14 days before onset, did the patient visit or stay in an assisted living facility or senior living facility? | | | |

ASSISTED/SENIOR LIVING FACILITY EXPOSURE: was this case associated with an assisted/senior living facility exposure?

- 1 **Presumptive:** Patient was exposed to the setting for 10 or more continuous days during the 14 days before onset of symptoms
- 2 **No:** No exposure to the setting in the 14 days prior to date of symptom onset
- 3 **Possibly:** Patient had exposure to the setting for a portion of the 14 days prior to date of symptom onset
- 8 **Other (specify)** _____
- 9 **Unknown**

| FACILITY TYPE | FACILITY EXPOSURE TYPE | FACILITY NAME | FACILITY ADDRESS | CITY | STATE | ZIP | DATE OF VISIT/RESIDENCE | |
|--|--|---------------|------------------|------|-------|-----|-------------------------|----------|
| | | | | | | | Start Date | End Date |
| 1 <input type="checkbox"/> Assisted 2 <input type="checkbox"/> Senior 3 <input type="checkbox"/> Unknown | 1 <input type="checkbox"/> Employee 2 <input type="checkbox"/> Resident 3 <input type="checkbox"/> Visitor/volunteer 8 <input type="checkbox"/> Other 9 <input type="checkbox"/> Unknown | | | | | | | |
| 1 <input type="checkbox"/> Assisted 2 <input type="checkbox"/> Senior 3 <input type="checkbox"/> Unknown | 1 <input type="checkbox"/> Employee 2 <input type="checkbox"/> Resident 3 <input type="checkbox"/> Visitor/volunteer 8 <input type="checkbox"/> Other 9 <input type="checkbox"/> Unknown | | | | | | | |

ASSISTED/SENIOR LIVING FACILITY COMMENTS:

| | | | |
|---|---|---|---|
| Did the assisted/senior living facility have a water management program to reduce the risk of <i>Legionella</i> growth and spread in place? | Y | N | U |
| | | | |

EXPOSURES PRIOR TO ONSET: was the patient exposed to any of the following during the 14 days prior to onset?

| EXPOSURE | LOCATION (facility name, city, state) | DATE(S) | Y | N | U |
|---|---------------------------------------|---------|---|---|---|
| Attend a convention, reception, conference, or other public gathering | | | | | |
| Construction/remodeling occur at or near the patient's home or a place visited by the patient | | | | | |
| Work in construction (esp. with spraying water, demolition, or refurbishing) | | | | | |
| Get in or spend time near a whirlpool spa/hot tub/Jacuzzi | | | | | |
| Near a decorative water fountain or water feature | | | | | |
| Near a mister (e.g., grocery store, outdoor cooling) | | | | | |
| Near a sprinkler (e.g., lawn, golf course, fire, etc.) | | | | | |
| Near some other water | | | | | |
| Work in another occupation involving water exposures | | | | | |
| Visit a water park | | | | | |
| Shower away from home | | | | | |
| Commercial or long-haul truck driver | | | | | |
| Use respiratory therapy equipment | | | | | |
| Visit an area with large buildings (e.g., shopping centers, high-rise complexes, etc.) that may have a cooling tower(s) | | | | | |
| Visit or live in a congregate living facility (e.g., correctional facilities, shelters, dormitories, etc.) | | | | | |
| Work in a commercial kitchen | | | | | |
| Work in a waste water treatment plant | | | | | |
| Work in an industrial/manufacturing plant with a water spray cooling system or processes involving spraying water | | | | | |
| Work in custodial services (e.g., housekeeping, janitor) | | | | | |
| Work in water-related leisure (e.g., hotels, cruise ships, water parks) | | | | | |
| Work with water device/system maintenance (e.g., cooling towers, plumbing, whirlpool spas) | | | | | |

In the 14 days before onset, if the patient used a nebulizer, CPAP, BiPAP, or any other respiratory therapy equipment for the treatment of sleep apnea, COPD, asthma, or for any other reason, does this device use a humidifier? Y=yes N=no U=unknown

| | | | |
|---|-----------|---------|-----------------------|
| If the respiratory therapy equipment used a humidifier, what type of water is used in the device? | Bottled | Sterile | Other (specify) _____ |
| | Distilled | Tap | Unknown |

CRUISE PORT OF CALL INFORMATION

RECENT CRUISE TRAVEL: in the 14 days before onset, did the patient take a cruise? Y=yes N=no U=unknown

| | | | | | |
|---------------------|----------------------|--------------------|-------------------|-------------------------------|-------------------|
| Name of Cruise Line | Name of Ship | Cabin # | Departure City | Departure State | Departure Country |
| | | | | | |
| Date of Departure | Return City | Return State | Return Country | Return Date | |
| | | | | | |
| Port of Call City | Port of Call Country | Port of Call State | Port of Call Date | ____ month ____ day ____ year | |
| | | | | | |

LABORATORY TESTING

CDC SPECIMEN

Was a specimen sent to CDC for testing? Y=yes N=no U=unknown

| Test Type | Test Result | Test Result Quantitative | Result Units | Serogroup | Legionella Species Isolated | Specimen Source (Type) | Date Specimen Collected <small>mm/dd/yyyy</small> | Date Specimen Sent to CDC <small>(mm/dd/yyyy)</small> | Reporting Laboratory Name | Performing Laboratory Type | Test Manufacturer | Test Brand Name |
|-----------|--------------------------------|--------------------------|--------------|-----------|-----------------------------|------------------------|--|--|---------------------------|----------------------------|-------------------|-----------------|
| Urine Ag | | | | | | | ----- | ----- | | | | |
| Culture | | | | | | | ----- | ----- | | | | |
| DFA | | | | | | | ----- | ----- | | | | |
| IHC | | | | | | | ----- | ----- | | | | |
| PCR | | | | | | | ----- | ----- | | | | |
| other | | | | | | | | | | | | |
| Ab acute | L. pneumophila serogroup 1 | | | | | | ----- | ----- | | | | |
| Ab conv | L. pneumophila serogroup 1 | | | | | | ----- | ----- | | | | |
| Ab acute | Non-L. pneumophila serogroup 1 | | | | | | ----- | ----- | | | | |
| Ab conv | Non-L. pneumophila serogroup 1 | | | | | | ----- | ----- | | | | |
| unknown | | | | | | | ----- | ----- | | | | |

Test Results Codes

Specimen Source (Type) Codes

P=positive N=negative
X=not done
I=Indeterminate
PS>=4 rise in titer
U=unknown

| | | | | | |
|------------------|----------------------|-------------------------|--------------------------|----------------------|--------------------|
| 1=amniotic fluid | 7=heart | 13=lymph node | 19=pericardial fluid | 25=serum | 31=vascular tissue |
| 2=BAL | 8=internal body site | 14=muscle/fascia/tendon | 20=peritoneal fluid | 26=spleen | 32=vitreous |
| 3=blood | 9=joint | 15=NP swab | 21=placenta | 27=sputum | 33=wound |
| 4=bone | 10=kidney | 16=oropharyngeal swab | 22=pleural fluid | 28=stool | 34=other |
| 5=brain | 11=liver | 17=ovary | 23=purpuric lesion | 29=tracheal aspirate | 35=unknown |
| 6=CSF | 12=lung | 18=pancreas | 24=respiratory secretion | 30=urine | |

Legionella Serogroup

| | | | | | |
|-----|-----|-------|-------|------------------|---------------|
| 1=1 | 5=5 | 9=9 | 13=13 | 17=17 | 21=unknown |
| 2=2 | 6=6 | 10=10 | 14=14 | 18=non-1 | 22=not tested |
| 3=3 | 7=7 | 11=11 | 15=15 | 19=not groupable | |
| 4=4 | 8=8 | 12=12 | 16=16 | 20=other | |

Performing Laboratory Type

| | | |
|----------------------|---------------------|----------------|
| 1=CDC lab | 2=commercial lab | 3=hospital lab |
| 4=other clinical lab | 5=public health lab | |
| 6=VPD testing lab | 8=other | 9=unknown |

CASE NOTIFICATION

CONDITION CODE

10490

Immediate National Notifiable Condition Y=yes N=no U=unknown

Legacy Case ID _____

State Case ID _____

Local Record ID _____

Jurisdiction Code ____

Binational Reporting Criteria _____

Date First Verbal Notification to CDC ____/____/____
month day year

Date Report First Electronically Submitted ____/____/____
month day year

Date of Electronic Case Notification to CDC ---- (mm/dd/yyyy)

MMWR Week _____

MMWR Year _____

Notification Result Status Final results Record coming as correction Results cannot be obtained

Current Occupation (type of work case-patient does) _____

Current Occupation Standardized (NIOCCS code) _____

Current Industry (type of business or industry in which the case-patient works) _____

Current Industry Standardized (NIOCCS code) _____

IMPORTATION AND EXPOSURE INFORMATION

| | | | | | | |
|--|----------|----------------------------------|----------|---|----------|--------------------------------------|
| IMPORTED CODE | 1 | Indigenous | 3 | In state, out of jurisdiction | 5 | Imported, unable to determine source |
| | 2 | International | 4 | Out of state | 9 | Unknown |
| Imported Country _____ | | Imported State ____ | | Imported County _____ | | Imported City _____ |
| Country of Exposure _____ | | State/Province of Exposure _____ | | County of Exposure _____ | | City of Exposure _____ |
| OUTBREAK ASSOCIATED Y=yes N=no U=unknown <input type="checkbox"/> | | | | OUTBREAK NAME _____ | | |
| Transmission Mode _____ | | | | CDC NORS OUTBREAK ID _____ | | |
| Person Reporting to CDC NAME _____ (first) _____ (last) | | | | Person Reporting to CDC Email _____ @ _____ Person Reporting to CDC Phone No. (____) _____ | | |

COMMENTS

CLINICAL CASE DEFINITION †

Legionellosis is associated with three clinically and epidemiologically distinct illnesses: Legionnaires’ disease, Pontiac fever, or extrapulmonary legionellosis.

Legionnaires’ disease (LD): LD presents as pneumonia, diagnosed clinically and/or radiographically.

Pontiac fever (PF): PF is a milder illness. While symptoms of PF could appear similar to those described for LD, there are distinguishing clinical features. PF does not present as pneumonia. It is less severe than LD, rarely requiring hospitalization. PF is self-limited, meaning it resolves without antibiotic treatment.

Extrapulmonary legionellosis (XPL): *Legionella* can cause disease at sites outside the lungs (for example, associated with endocarditis, wound infection, joint infection, graft infection). A diagnosis of extrapulmonary legionellosis is made when there is clinical evidence of disease at an extrapulmonary site and diagnostic testing indicates evidence of *Legionella* at that site.

SUSPECTED

A clinically compatible case of LD with supportive laboratory evidence for *Legionella*.

PROBABLE

A clinically compatible case with an epidemiologic link[‡] during the 14 days before onset of symptoms.

CONFIRMED

A clinically compatible case of LD with confirmatory laboratory evidence for *Legionella*.

† <https://www.cdc.gov/nndss/conditions/legionellosis/case-definition/2019/>

‡ Epidemiologic link to a setting with a confirmed source of *Legionella* (e.g., positive environmental sampling result associated with a cruise ship, public accommodation, cooling tower, etc.).

OR

Epidemiologic link to a setting with a suspected source of *Legionella* that is associated with at least one confirmed case.