Case ID:	

## Legionnaires' Disease Hypothesis-generating Questionnaire Template

<Instructions to the interviewer appear in italics. Please read the entire questionnaire before beginning the interview.>

<After confirming a case of Legionnaires' disease or Pontiac fever and completing the CDC Legionellosis Case Report Form, you can use this form to collect additional epidemiologic data. These data may be useful in detecting outbreaks or in a future cluster/outbreak investigation. You may add this form to your state's electronic notifiable disease surveillance system in whole or in part for routine data collection. A more detailed questionnaire that you can customize to the outbreak location should be developed and used for cases associated with a known outbreak.>

What was the patient's outcome?	☐ Recovered	☐ Still III	$\square$ Died	□ Unknown
Interviewer identification				
Interviewer's name:		Health	n departr	ment:
Phone:	Email:			
Patient contact information				
Name:				Age: Sex: ☐ M ☐ F
Address:				
City:	State:	Zip:		County:
Phone:	<i>F</i>	Alt. phone:		
<b>Proxy contact information</b> < <i>List p died.</i> >	roxy contact inf	ormation ij	f patient i	is unable to be interviewed or has
Name:		Relatio	nship to	patient:
Phone:		Alt. phone:		
Template call script				
I understand you have already spot Pontiac fever> illness. Legionnaire healthcare providers must report health concern. I'd like to ask you before you got sick. The answers the Legionella germ and is making people.	oken with some s' disease <or additions="" cases="" i="" ill.="" ople="" place="" public="" questions="" several="" td="" the="" to="" unders<=""><td>one about ontiac feve health so the nal question might help tand you m</td><td>your rece r&gt; is a re hat we ca ns about o us find a nay have</td><td>portable disease, which means that in determine if there is a public your activity during the 14 days a source of water that contains the</td></or>	one about ontiac feve health so the nal question might help tand you m	your rece r> is a re hat we ca ns about o us find a nay have	portable disease, which means that in determine if there is a public your activity during the 14 days a source of water that contains the

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cooperation and it could help prevent others from getting sick. Do you have a few minutes to talk? If not now, when would be a good time for me to call back?

Typical symptoms of Legionnaires' disease include:

- Cough
- Shortness of breath
- Fever
- Muscle aches

☐ Yes ☐ No ☐ Not sure

ontide jever,	replace sympte	ins above with	i jever, muser	le aches, and head	duciies.>	
ve that your f Yes □ No □		tarted on <inse< th=""><th>ert onset date</th><th>?&gt;</th><th> Is this cor</th><th>rect?</th></inse<>	ert onset date	?>	Is this cor	rect?
o, what was t	he first date you	u started feelir	ng sick?			
osure inform	ation					
•			•	l. Start at the date xample below.>	e of earliest syn	nptom onse
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3 1st day of exposure period	4	ţ
6	7	8	9	10	11	1:
13	14	15	16	17 Date of onset	18	19
			to	<u> </u>		
ocument expo	sure period her	e:	<i>10</i>		•	

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<lf< th=""><th>yes,</th><th>check</th><th>all</th><th>that</th><th>ар</th><th>pΙ</th><th>y:&gt;</th></lf<>	yes,	check	all	that	ар	pΙ	y:>
--	------	-------	-----	------	----	----	-----

Exposure	Hospital name and	location	Reason for v	isit	Date	e(s)
	·					nission:
□ Inpatient					Disc	harge:
☐ Outpatient						
□ Visitor						
☐ Employee						
□ Volunteer						
Comments:						
During the 14 day or dental office? □ Yes □ No □		k, did you v	vork at, get tre	eatment in, or visit a c	docto	r's office, clinic,
f yes, check all t</td <td>hat apply:&gt;</td> <td></td> <td></td> <td></td> <td></td> <td></td>	hat apply:>					
Type of clinic	Exposure	Name of o	doctor and	Reason for visit		Date(s)
☐ Doctor's office or clinic	☐ Outpatient ☐ Visitor ☐ Employee ☐ Volunteer					
□ Dentist	☐ Outpatient☐ Visitor☐ Employee☐ Volunteer					
Comments:						

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During the 14 days befo	ore you got sick, di	d you work at, reside in, or visit a long-term car	e facility?
☐ Yes ☐ No ☐ Not so	-	, , , ,	,
<if all="" ap<="" check="" th="" that="" yes,=""><th>1</th><th></th><th></th></if>	1		
Type of facility	Exposure	Name of facility and location	Date(s)
☐ Long-term care	☐ Resident		
facility (nursing	□ Inpatient		
home, rehab facility,	☐ Visitor		
or skilled nursing	☐ Employee		
facility)	□ Volunteer		
Commonto			
Comments:			
During the 14 days before	ore you got sick, di	d you work at, reside in, or visit a senior living o	r assisted living
facility?			
☐ Yes ☐ No ☐ Not so	ure		
<if all="" ap<="" check="" td="" that="" yes,=""><td></td><td>Name of facilities and leasting</td><td>D-+-(-)</td></if>		Name of facilities and leasting	D-+-(-)
Type of facility	exposure	Name of facility and location	Date(s)
Type of facility  ☐ Senior Living		Name of facility and location	Date(s)
Type of facility  ☐ Senior Living (retirement homes	Exposure	Name of facility and location	Date(s)
Type of facility  ☐ Senior Living (retirement homes without skilled	Exposure   Resident	Name of facility and location	Date(s)
Type of facility  ☐ Senior Living (retirement homes without skilled nursing or personal	Exposure  Resident Visitor	Name of facility and location	Date(s)
Type of facility  ☐ Senior Living (retirement homes without skilled nursing or personal care)	Exposure  Resident Visitor Employee	Name of facility and location	Date(s)
Type of facility  ☐ Senior Living (retirement homes without skilled nursing or personal care)  ☐ Assisted Living	Exposure  Resident Visitor Employee	Name of facility and location	Date(s)
Type of facility  ☐ Senior Living (retirement homes without skilled nursing or personal care)	Exposure  Resident Visitor Employee Volunteer	Name of facility and location	Date(s)
Type of facility  ☐ Senior Living (retirement homes without skilled nursing or personal care)  ☐ Assisted Living (facilities providing	Exposure  Resident Visitor Employee Volunteer  Resident Visitor	Name of facility and location	Date(s)
Type of facility  Senior Living (retirement homes without skilled nursing or personal care)  Assisted Living (facilities providing support with	Exposure  Resident Visitor Employee Volunteer	Name of facility and location	Date(s)
Type of facility  ☐ Senior Living (retirement homes without skilled nursing or personal care)  ☐ Assisted Living (facilities providing support with activities of daily	Exposure  Resident Visitor Employee Volunteer  Resident Visitor Employee	Name of facility and location	Date(s)
Type of facility  ☐ Senior Living (retirement homes without skilled nursing or personal care)  ☐ Assisted Living (facilities providing support with activities of daily living, i.e., bathing and dressing)	Exposure  Resident Visitor Employee Volunteer  Resident Visitor Employee	Name of facility and location	Date(s)
Type of facility  ☐ Senior Living (retirement homes without skilled nursing or personal care)  ☐ Assisted Living (facilities providing support with activities of daily living, i.e., bathing and dressing)	Exposure  Resident Visitor Employee Volunteer  Resident Visitor Employee	Name of facility and location	Date(s)
Type of facility  Senior Living (retirement homes without skilled nursing or personal care)  Assisted Living (facilities providing support with activities of daily living, i.e., bathing	Exposure  Resident Visitor Employee Volunteer  Resident Visitor Employee	Name of facility and location	Date(s)
Type of facility  ☐ Senior Living (retirement homes without skilled nursing or personal care)  ☐ Assisted Living (facilities providing support with activities of daily living, i.e., bathing and dressing)	Exposure  Resident Visitor Employee Volunteer  Resident Visitor Employee	Name of facility and location	Date(s)
Type of facility  ☐ Senior Living (retirement homes without skilled nursing or personal care)  ☐ Assisted Living (facilities providing support with activities of daily living, i.e., bathing and dressing)  Comments:	Exposure  Resident Strict Employee Volunteer  Resident Visitor Employee Volunteer  Volunteer	Name of facility and location  d you spend any nights away from home (excluing on a cruise? < Note: If the patient has been on	ding healthcare

the exposure period, complete the CDC's <u>Legionnaires' Disease Cruise Ship Questionnaire Template</u>.>

☐ Yes ☐ No ☐ Not sure

Case ID:

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Accommodation	Address	City, state/	Room #	Dates of stay	
name	Address	country	Koom #	Arrival	Departure
		<u> </u>		<u> </u>	<u> </u>

Comments:	
During the 14 days before you got sick, did you visit a hotel <b>without</b> staying overnight wedding, employee)?  ☐ Yes ☐ No ☐ Not sure	t? (e.g., dinner,

<If yes, complete the following table:>

Accommodation name	Address	City, state/ country	Date(s)	Reason for visit

Comments: _	 	 	 

During the 14 days before you got sick, did you attend any conventions or public gatherings?  $\square$  Yes  $\square$  No  $\square$  Not sure

<!f yes, complete the following table:>

Type of event	Name of venue	Location	Date(s)

			Case ID:
Comments:			
	living facility (e.g., correcure		got sick, did you work at, reside r, dormitory)?
Type of event		Location	Date(s)
Comments:			
During the 14 days before traveling or at home?  ☐ Yes ☐ No ☐ Not so		nave exposure to any	of the following, either while

<If yes, complete the following table:>

tij yes, complete the johownig tusi	<check one:=""></check>		>		
Exposures	Yes	No	Not sure	Location	Date(s)
Hot tub, Jacuzzi®, or whirlpool spa					
Sat NEAR a working hot tub but did not get in					
Pool					
Recreational misters					
Outdoor cooling mister					
Lawn or golf course sprinkler					

Case ID:
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	<check one:=""></check>						
Exposures	Yes	No	Not sure	Location		Date(s)	
Steam room or wet sauna							
Decorative fountain or waterfall							
Humidifier							
Shower (away from home only)							
Comments:							
Did you use a nebulizer, CPAP, BiPA apnea, COPD, asthma, or for any of			iratory tl	nerapy equip	oment for the	treatment of sleep	
☐ Yes ☐ No ☐ Not sure	e:>						
☐ Yes ☐ No ☐ Not sure <if complete="" device<="" following="" of="" table="" th="" the="" type="" yes,=""><th>e:&gt; Locati</th><th>on</th><th></th><th></th><th>Date(s)</th><th></th></if>	e:> Locati	on			Date(s)		
☐ Yes ☐ No ☐ Not sure		on			Date(s)		
☐ Yes ☐ No ☐ Not sure <if complete="" device<="" following="" of="" table="" td="" the="" type="" yes,=""><td>Locati</td><td></td><td>□ No [</td><td>□ Not sure</td><td>Date(s)</td><td></td></if>	Locati		□ No [	□ Not sure	Date(s)		
Yes No Not sure <if a="" complete="" describe="" device="" does="" following="" humid="" if="" it.<="" of="" table="" td="" the="" this="" type="" use="" water="" what="" yes,=""><td>ifier?</td><td>□ Yes e in this</td><td>device (</td><td>e.g., sterile,</td><td>tap, distilled)</td><td>·</td></if>	ifier?	□ Yes e in this	device (	e.g., sterile,	tap, distilled)	·	
☐ Yes ☐ No ☐ Not sure	ifier?	□ Yes e in this	device (	e.g., sterile,	tap, distilled)	·	

		Case ID:	
	her locations during the 6 montl	, water main breaks, or water line work ei ns before you got sick?	ther
⊔ Yes ⊔ No ⊔ Not sure	3		
f yes, complete the follo</th <th>wing table:&gt;</th> <th></th> <th></th>	wing table:>		
Type of work	Location	Date(s)	
Comments:			
During the 14 days before	you got sick, did you shop at a g	grocery store where there were mister	
machines spraying the fru		, ,	
☐ Yes ☐ No ☐ Not sure	9		
<if complete="" follo<="" p="" the="" yes,=""> Name of store</if>	Location	Date(s)	
Name of Store	Location	Date(s)	
Comments:			
		<del></del>	
garden center?		garden, have contact with potting soil, or v	 visit a
	e you got sick, did you work in a g	garden, have contact with potting soil, or v	 visit a
☐ Yes ☐ No ☐ Not sure	e you got sick, did you work in a g	garden, have contact with potting soil, or v	 visit a
	e you got sick, did you work in a g	garden, have contact with potting soil, or v	 visit a
☐ Yes ☐ No ☐ Not sure <if activity<="" complete="" follo="" td="" the="" yes,=""><td>e you got sick, did you work in a g</td><td>garden, have contact with potting soil, or v</td><td>visit a</td></if>	e you got sick, did you work in a g	garden, have contact with potting soil, or v	visit a
f yes, complete the follo</td <td>e you got sick, did you work in a g e wing table:&gt;</td> <td></td> <td></td>	e you got sick, did you work in a g e wing table:>		
f yes, complete the follo</td <td>e you got sick, did you work in a g e wing table:&gt;</td> <td></td> <td>visit a</td>	e you got sick, did you work in a g e wing table:>		visit a

						Case ID	):
Comments:							
Comments.							
During the 14 days before centers, high-rise officential No □ Not see the Not	es or hotels,		-		_	e buildings, suc	ch as shopping
<if complete="" f<="" td="" the="" yes,=""><td>ollowing tabl</td><td>e:&gt;</td><td></td><td></td><td></td><td></td><td></td></if>	ollowing tabl	e:>					
Name		Locati	on			Date(s)	
Comments:							
Do you work or volunt ☐ Yes ☐ No			e?				
<pre></pre> <pre></pre> <pre>Job description</pre>	Name o		oyer		Location		Any exposure to misty water?
Comments:	I						
Specifically, do you wo	ork in any of t	the follo	owing s	ettings?			
		<chec< td=""><td>k one:&gt;</td><td>•</td><td></td><td></td><td></td></chec<>	k one:>	•			
Exposures		Yes	No	Not sure	Location		Date(s)
Construction							

Case ID:	
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	<check one:=""></check>				
Exposures	Yes	No	Not sure	Location	Date(s)
Industrial/manufacturing plant with water spray cooling or processes					
Building water system/device operation or maintenance (e.g., cooling towers, plumbing, hot tubs)					
Water-related leisure activities (e.g., hotels, cruise ships, water parks)					
Waste water treatment plant					
Truck driving (long haul)					
Dishwashing (e.g., in a commercial or industrial kitchen)					
Custodial services (e.g., housekeeping, janitorial work)					
Other job with water exposures					
Comments:					
Associates with symptoms Do you know anyone with symptor	ns simi	lar to y	ours?		
<ul> <li>Typical symptoms of Legionnaires'</li> <li>Cough</li> <li>Shortness of breath</li> <li>Fever</li> <li>Muscle aches</li> <li>Headaches</li> </ul>	disease	e includ	e:		

<If Pontiac fever, replace with fever, muscle aches, and headache.>

If yes, may we contact them to ask a few additional details about their illness?

☐ Yes ☐ No ☐ Not sure

☐ Yes ☐ No

Case	ID:		

<If yes, complete the following table:>

Name	Phone	State of residence	Details shared

## Medical history and health behaviors

Now I'm going to ask a few questions about your medical history and health behaviors. Have you ever been told by a healthcare provider that you had:

		k one:>		
Underlying medical condition	Yes	No	Not Sure	Comments
Chronic lung disease (COPD, emphysema)				
Asthma				
Diabetes				
Heart disease or heart failure				
Chronic kidney disease				
Liver disease				
Stroke				
Dementia				
Risk for aspiration				
Weakened immune system due to medications or treatment (e.g., chemotherapy, radiation therapy, immunosuppressive medications)				
Weakened immune system due to underlying illness (e.g., HIV, immunoglobulin deficiency, splenectomy, sickle cell anemia)				
Hematologic cancer (e.g., lymphoma, leukemia, multiple myeloma)				
Solid organ cancer				
Bone marrow transplant				
Solid organ transplant				
Other conditions < list>				

Case	ID:		

Behaviors	<check one:=""></check>		Quantity per day	Duration (voors)
	Yes	No	(packs or drinks)	Duration (years)
Are you currently a smoker?				
Are you a former smoker?				
Do you drink alcohol?				

That is the end of the questionnaire! Thank yo	ou for your time. Do you have any questions about
Legionnaires' disease <or fever="" pontiac=""> that</or>	I can help answer? If you have any questions or remember
any further details, you may reach me at	. Thank you.