

COVID-19 Chicago Long Term Care Roundtable

04-27-2023



- COVID-19 Epidemiology & Updates
- TB Data
- Project Firstline
- Legionella 101
- Questions & Answers

Chicago COVID-19 Dashboard



SNF COVID-19 Cases

(Mar. 1, 2022 – Apr. 26, 2023)



🗾 Not Fully Vaccinated Resident 🗾 Not Fully Vaccinated Staff 🗖 Fully Vaccinated Resident 🗖 Fully Vaccinated Staff

Data Sources: INEDSS (Illinois state) and REDCap (facility self report)

A fully vaccinated case occurs when the positive test specimen was collected at least 14 days after the individual completed their COVID vaccination

Fully vaccinated cases may be underestimated due to delayed reporting

19 (24%) SNFs have active outbreaks

COVID-19 Variant Proportions



HHS Region: Data for Week Ending in:

4/22/2023 (Nowcast)

Region 5 - Illinois, Indiana, Michig... 🔻

ng in: View:

Nowcast and Weighted Estimates
Weighted Estimates Only

This shows weighted and Nowcast estimates for the United States. The table and map show estimates for the week ending in 4/22/2023 (Nowcast)

Weighted and Nowcast Estimates in HHS Region 5 for Weeks of 1/15/2023 - 4/22/2023

Nowcast Estimates in HHS Region 5 for 4/16/2023 – 4/22/2023

A Hover over (or tap in mobile) any lineage of interest to see the amount of uncertainty in that lineage's estimate



* Enumerated lineages are US VOC and lineages circulating above 1% nationally in at least one week period. "Other" represents the aggregation of lineages which are circulating <1% nationally during all weeks displayed.

BA.1, BA.3 and their sublineages (except BA.1.1 and its sublineages) are aggregated with B.1.1.529. Except BA.2.12.1, BA.2.75, XBB and their sublineages, BA.2 sublineages are aggregated with BA.2. Except BA.2.75, XBB and their sublineages, BA.2 sublineages are aggregated with BA.2. Except BA.2.75, XBB and their sublineages, BA.2.75 sublineages are aggregated with BA.2.75, xbest BA.4.6, sublineages of BA.4 are aggregated to BA.4. Except BF.7, BF.11, BA.5.2.6, BO.1 and BQ.1.1, sublineages of SA.5 are aggregated to BA.5. Except BE.7, BF.11, BA.5.2.6, BO.1 and BQ.1.1, sublineages of XBB are aggregated to XBB. Except XBB.1.5.1 and FD.2, sublineages of XBB are aggregated to XBB. Sublineages of XBB.1.5 are aggregated to XBB.1.5. For all the other lineages listed, their sublineages are aggregated to the listed parental lineages respectively. Previously, XBB.1.9.2 and XBB.1.16 were aggregated to XBB, FD.2 was aggregated to XBB.1.5. Lineages BA.2.75.2, XBB, XBB.1.5.1, FD.2, XBB.1.9.1, XBB.1.9.2, XBB.1.9.1, BA.4.6, BF.7, BF.11, BA.5.2.6 and BQ.1.1 contain the sylice sublice sublineages are aggregated to XBB.1.5.1, BF.10, BA.4.6, BF.7, BF.11, BA.5.2.6 and BQ.1.1 contain the sylice sublice sublineages and sublineages are aggregated to XBB.1.5.1, BR.1.5.1, FD.2, XBB.1.9.1, XBB.1.9.2, XBB.1.9.1, BA.4.6, BF.7, BF.11, BA.5.2.6 and BQ.1.1 contain the sylice sublice sublineages aggregated to XBB.1.5.1, BF.10, BA.4.6, BF.7, BF.11, BA.5.2.6 and BQ.1.1 contain the sylice sublice sublineages aggregated to XBB.2.5.1, BF.10, BA.4.6, BF.7, BF.11, BA.5.2.6 and BQ.1.1 contain the sylice substitution R346T.

Reminder: CDC COVID Data Tracker

Indicator - If the two indicators suggest different transmission levels, the higher level is selected	Low Transmission Blue	Moderate Transmission Yellow	Substantial Transmission Orange	High Transmission Red
Total new cases per 100,000 persons in the past 7 days	0-9.99	10-49.99	50-99.99	≥100
Percentage of NAATs ¹ that are positive during the past 7 days	0-4.99%	5-7.99%	8-9.99%	≥10.0%

Note: Community transmission levels will now be updated weekly

CDC COVID Data Tracker: Cook County

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Data Type:

Community Transmission



Source: https://covid.cdc.gov/covid-data-tracker/#county-view?list_select_state=Illinois&data-type=Risk&list_select_county=17031

Chicago Respiratory Virus Surveillance Report – Current Week & Cumulative

Respiratory Virus Laboratory Surveillance - Current Week and Cumulative The table below includes respiratory viral PCR tests performed by several hospital laboratories in Chicago as well as two commercial laboratories serving Chicago facilities. Reporting facilities represent nearly half of all acute care hospitals in the city. Data reported include Chicago and non-Chicago residents.

	Week Ending April 15, 2023		Since October 2, 2022	
Respiratory Pathogen	# Tested	% Positive	# Tested	% Positive
Influenza*	3,429	1.1	144,328	8.6
RSV*	2,178	0.4	106,935	6.1
SARS-CoV-2*	3,175	5.3	176,170	7.2
Parainfluenza	1,648	5.2	47,290	2.9
Rhinovirus/Enterovirus	972	16.7	32,638	15.9
Adenovirus	977	5.1	32,523	3.7
Human Metapneumovirus	977	8.1	32,910	3.8
Seasonal Coronaviruses [†]	1,644	2.4	47,689	3.1

*Represents both dualplex and multiplex PCR data. All other data represents only multiplex panels that include the specified pathogens;† Four seasonal coronavirus strains include 229E, NL63, OC43, and HKU1.

Chicago Respiratory Virus Surveillance Report – Seasonal Trends



Reminder: Minimum Routine <u>Staff</u> Testing Frequency

Vaccination Status	Community Transmission Level	Testing Frequency
Not up to date	A11	No required routine testing*
Up to date**	A11	No required routine testing*

* Unless symptomatic, had a high-risk exposure, or your facility is in outbreak and performing unit/broad-based testing.

** An individual has received all COVID-19 vaccinations for which they are eligible

Reminder: Minimum Routine <u>Resident</u> Testing Frequency

Vaccination Status	Community Transmission Level	Routine Testing Frequency
Not up to date*	A11	No required routine testing**
Up to date*	A11	No required routine testing**
New and readmissions, regardless of vaccination status	Low, Moderate, Substantial	No required routine testing**
New and readmissions, regardless of vaccination status***	High	Upon admission, 48 hours after 1st negative test, 48 hours after 2nd negative test (i.e., days 0, 2, 4)

*Excluding new/readmissions when community transmission is high

**Unless symptomatic, following a high-risk exposure, or your facility is in outbreak and performing broad-based testing.

***Unless COVID+ within the prior 30 days



- The bivalent vaccine can now be used for all doses for individuals 6 months and older
- Monovalent vaccines are no longer authorized for use in the United States
- Adults 65+ who received a single dose of the bivalent vaccine may receive an additional dose at least four months following their initial bivalent dose

FDA NEWS RELEASE

Coronavirus (COVID-19) Update: FDA Authorizes Changes to Simplify Use of Bivalent mRNA COVID-19 Vaccines

f Share 🍯 Tweet 🛛 in Linkedin 🛛 🕿 Email 🔒 Print

For Immediate Release: April 18, 2023

Source: <u>https://www.fda.gov/news-events/press-announcements/coronavirus-covid-19-update-fda-authorizes-changes-simplify-use-bivalent-mrna-covid-19-vaccines</u>





Source: https://www.cdc.gov/vaccines/acip/meetings/downloads/slides-2023-04-19/07-COVID-Twentyman-508.pdf

★ Bivalent Spacing for Immunocompromised

New flexibility for people at higher risk of severe COVID-19: People aged ≥6 years with immunocompromise* who have already received a bivalent mRNA dose



*Including those with imminent immunocompromise (e.g., prior to organ transplant; other causes.)

COVID-19 vaccination algorithm for people who are NOT moderately or severely immunocompromised, age 6 years and older



*To see product-specific doses and intervals of administration, see reference Table 1 in Interim Clinical Considerations, forthcoming.

**People ages 65+ have the option to receive 1 additional bivalent mRNA dose at least 4 months after the first dose of a bivalent mRNA vaccine.

V Upcoming NHSN Reporting Changes

- CMS-certified LTCFs must still report to NHSN via the LTCF COVID-19 module surveillance pathways and the COVID-19 vaccination module even after the public health emergency ends
- Several modifications will be made to the COVID-19 module surveillance pathways, including:
 - Reducing vaccination elements
 - Removal of influenza and staffing/supply shortages data fields
 - Removal of deaths in the staff and personnel impact pathway
 - Removal of the therapeutics pathway
 - Addition of hospitalizations in the resident impact and facility capacity pathway
- Webinars outlining the changes will be held on June 1st & June 7th

FAQ: Since community transmission is <u>not</u> <u>high</u>, how often should we check residents' vital signs?

- If the facility is not experiencing an outbreak, residents' vital signs should be checked at least weekly, including temperature, pulse, and respirations (TPR), blood pressure (BP), and pulse ox.
- If the facility is experiencing an outbreak, all residents should be evaluated at least daily for signs and symptoms of COVID-19, temperature, and respiratory status with pulse ox.
- **Regardless of facility outbreak status**, if a resident has a fever or symptoms consistent with COVID-19, monitoring should be completed every four hours. Include symptom assessment, TPR, pulse ox, and assess respiratory status.

TB Case Numbers and Rates per 100k Population (2022)

- US: 8,300 (2.5/100k)
- Illinois: 298 (2.3/100k)
- Chicago: 111 (4.05/100k)



Illinois case counts as of 24 March, 2023; are still subject to change/review.

X 2022 City of Chicago TB Rates, by Region

- Central: 0.0
 - Near North Side
 - Loop
 - Near South Side

North Side: 2.2

- North Center
- Lakeview
- Lincoln Park
- Avondale
- Logan Square

- Far North Side: 4.9
 - Rogers Park
 - West Ridge
 - Uptown
 - Lincoln Square
 - Edison Park
 - Norwood Park
 - Jefferson Park
 - Forest Glen
 - North Park
 - Albany Park
 - O'Hare
 - Edgewater

- Far Southeast Side: 2.9
 - Chatham
 - Avalon Park
 - South Chicago
 - Burnside
 - Calumet Heights
 - Roseland
 - Pullman
 - South Deering
 - East Side
 - West Pullman
 - Riverdale
 - Hegewisch

***** 2022 City of Chicago TB Rates, by Region

- Southwest Side: 3.7
 - Garfield Ridge
 - Archer Heights
 - Brighton Park
 - McKinley Park
 - New City
 - West Elsdon
 - Gage Park
 - Clearing
 - West Lawn
 - Chicago Lawn
 - West Englewood
 - Englewood

- Far Southwest Side: 2.3
 - Ashburn
 - Auburn Gresham
 - Beverly
 - Washington Heights
 - Mount Greenwood
 - Morgan Park

- South Side: 4.8
 - Armour Square
 - Douglas
 - Oakland
 - Fuller Park
 - Grand Boulevard
 - Kenwood
 - Washington Park
 - Hyde Park
 - Woodlawn
 - South Shore
 - Bridgeport
 - Greater Grand Crossing

***** 2022 City of Chicago TB Rates, by Region

Northwest Side: 5.1

- Portage Park
- Irving Park
- Dunning
- Montclare
- Belmont Cragin
- Hermosa

• West Side: 6.0

- Humboldt Park
- West Town
- Austin
- West Garfield Park
- East Garfield Park
- Near West Side
- North Lawndale
- South Lawndale
- Lower West Side



Project Firstline

Alison VanDine, MPH, CIC

Infection Prevention Specialist I Project Firstline Lead

Healthcare Program

CDPH's Project Firstline: Learning Needs Assessment

- As a CDC <u>Project Firstline Partner</u>, the <u>Chicago</u> <u>Department of Public Health</u> working to identify priority IPC training needs among frontline healthcare personnel in 2023.
- Have an idea for a new IPC training topic to train frontline staff or an area you would like to learn more about? Please complete <u>this brief survey</u>.
- This survey can also be distributed among your frontline staff (e.g., Nurse educators, EVS staff, technicians, etc.).
- Please contact the PFL-Chicago team at projectfirstline@cityofchicago.org:
 - For support in distributing the survey to your frontline staff
 - To schedule an onsite training tailored to your facility
 - Learn more about CDC's Project Firstline!







Legionellosis Trends and Prevention

Karrie-Ann Toews and Janice Turner Long term care roundtable April 27th, 2023

Legionella

- Intracellular parasite of freeliving protozoa primarily found in freshwater
- Can live and grow in biofilms
- L. pneumophila: ~90% of reported U.S. cases
- Transmitted to susceptible host via aerosolized water droplets





From *legionella* in fresh water to clinical disease: a multi-step cascade

Legionella lives in fresh water Certain conditions in large, complex water systems can lead to legionella amplification Certain devices can aerosolize water containing *legionella* Legionella can be transmitted to susceptible hosts and cause disease



- Natural reservoir for legionella
- Insufficient quantities to cause disease



- Temperature (77-
- 108°F)
- Stagnation
- Scale and sediment
- Biofilm
- Protozoa
- Absence of disinfectant





- Showerheads and sink faucets
- and sink faucetsCooling towers
- Hot tubs
- Decorative fountains

- Age > 50 years
- Smoking
- Weakened
 immune system
- Chronic disease

Slide courtesy of Darrah Dunlap, IDPH

CSTE All-State Epi Call; CDC; February 26, 2018

Two manifestations of illness



- Pontiac fever (1-3 days)
 - Flu-like (fever, chills, fatigue)
 - No pneumonia
 - Does not typically result in hospitalization or antibiotics
 - Typically self-resolving
 - Legionnaires' disease (2-10 days)
 - Severe pneumonia
 - Fever, myalgia, cough, shortness of breath
 - Treated with antibiotics
 - Hospitalization is common



Legionellosis rates have been increasing steadily in IL and Chicago



Legionellosis cases peak from June to October in Chicago



Possible reasons for increasing number of reported cases

- Increased susceptibility of the population
 - Aging US population
 - More people with immune suppressing medications
- More Legionella in the environment
 - Warmer temperatures
 - Aging infrastructure
 - Water-saving building modification
- Improved diagnostic capabilities
 - Urine antigen test
- Improved diagnosis and reporting
 - Increased awareness and testing
 - Increased surveillance capacity



CSTE All-State Epi Call; CDC; February 26, 2018

From *legionella* in fresh water to clinical disease: a multi-step cascade

Certain conditions in

large, complex water

systems can lead to

legionella amplification



Legionella lives in fresh water



- Natural reservoir for legionella
- Insufficient quantities to cause disease



- Temperature (77-108°F)
- Stagnation
- Scale and sediment
- Biofilm •
- Protozoa
- Absence of disinfectant

CSTE All-State Epi Call; CDC; February 26, 2018

Certain devices

can aerosolize

water containing

legionella



- Showerheads
- and sink faucets
- Cooling towers
- Hot tubs

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Decorative ٠ fountains

- Age > 50 years
- Smoking
- Weakened immune system
- Chronic disease

Slide courtesy of Darrah Dunlap, IDPH



Legionella can

be transmitted

to susceptible

hosts and

cause disease



Developing a Water Management Plan (WMP)



Form a team
Assemble all diagrams & relevant history
Identify Hazards
Develop Controls

Monitor & CorrectAre we doing it right?Is it working?Ongoing documentation, review & revision

Step 1 - Water Management Program Team



Step 1 - Water Management Program Team



Consider who among your employees, partners, and outside experts can provide these skills so that you can develop the most effective program possible. Those who might be part of your water management program team include:

- Building owner
- Building manager/administrator
- Maintenance or engineering employees
- Safety officers
- Equipment or chemical suppliers
- Contractors/consultants (e.g., water treatment professionals)
- Certified industrial hygienists
- Microbiologists
- Environmental health specialists
- Public health officials



- Flow diagram
- Characterize building water system
 - ID potable and non-potable systems
 - Where water enters and how distributed throughout system




Step 3 - Identify Areas of Amplification and Potential Exposure

Amplification

- Where Legionella can proliferate
 - Water temperatures between 80-120°F
 - Water recirculated or stagnant
 - "dead ends" and "dead legs"
 - Occupancy
 - Low flow fixtures
 - Nutrient sources
 - Iron (Fe)
 - Events that may disrupt water systems

Potential Exposure

- Where patients, staff, or visitors may be exposed to water droplets
- Healthcare facilities should consider how water is used at point of care and assess risks
- Aerosolization
 - Showers
 - Hydrotherapy
 - Decorative fountains
 - Spas/hot tubs
 - Spray irrigation
 - Respiratory equipment
- Aspiration (less common)
 - Ice machines
 - Drinking water

Step 3 – Potential Exposure



Sinks should be uncluttered and functional



Step 4 - Monitoring Control Measures



Figure 4.1: Implementing and monitoring the control measures process (CDC, 2021).



Step 4 - Legionella Control Measures for Potable Water Systems



Water Parameter	Control Measure	Recommendations			
Sediment and Biofilm	Flushing, cleaning, and maintenance	 Flush after an intrusion event (e.g., water main break). Clean and maintain water system components such as water heaters, mixing valves, aerators, showerheads, hoses, and filters regularly as indicated by water quality measurements. 			
Temperature	Control limits	 Store hot water above 140°F (60°C) and maintain circulating hot water above 120°F (49°C). Store and maintain circulating cold water below the growth range most favorable to <i>Legionella</i> (77–113°F, 25–45°C). Note that <i>Legionella</i> may grow at temperatures as low as 68°F (20°C). 			
Water Age	Flushing	 Flush low-flow pipe runs and dead legs at least weekly. Flush infrequently used fixtures regularly. 			
Disinfectant Residual*	Control limits	Chlorine: Detectable residual as directed by WMP. Monochloramine: Detectable residual as directed by WMP.			

https://www.cdc.gov/legionella/wmp/control-toolkit/index.html







Step 5 - Establish Intervention Responses

- Options when control measures not met
 - Close room, restrict showers, point of use filters
 - Restrict use of tap water
 - Remove unused piping/fixtures
 - Communications to residents/patients/staff



Step 6 - Establish Verification and Validation Procedures

- Verification
 - WMP is being implemented as designed
 - People should not verify program activities they are responsible for
- Validation
 - WMP is controlling Legionella as designed
 - Clinical surveillance for Legionnaires' disease
 - Environmental sampling for Legionella
 - Culture-based is the gold standard
 - CDC ELITE member laboratories
 - Environmental Legionella Isolation Techniques Evaluation
 - Sampling plans are unique to each facility

Step 7 -Establish Documentation Practices and a Communication Plan

- All records associated with the WMP should be dated and signed or initialed by the person performing the action
- Maintain a current copy of the WMP and all records of activities conducted under the WMP including:
 - Monitoring logs
 - Flushing logs
 - Filter replacement logs
 - Intervention response records
 - Environmental sampling results
- Develop a communications plan to patients/residents/staff in the event of a case



Cooling Towers



At least the size of a car

Visible fan blades



Best Practices to Control Spread of *Legionella* in Cooling Towers

- Operation
- Clean and disinfect
- Monitor water parameters
- Flush weekly
- Inspections/Maintenance
- Frequent visual inspection of all components
- Tower and basin free from biofilm and debris
- Look for signs of excessive drift
- Design
- Equip water collection areas with drains
- Install drift eliminators
- Cleaning
- Clean and disinfect at least twice per year

Legionella Control Measures for Cooling Towers



Water Parameter	Control Measure	Recommendations				
Sediment and Biofilm	Cleaning frequency, scale and corrosion inhibitors	 Cleaning frequency varies based on operational factors. Remove from service, clean, and disinfect at least annually. Monitor scale and corrosion inhibitor levels frequently as indicated by water quality measurements. 				
Temperature	Control limits	 Operate at the lowest possible water temperature outside the favorable growth range for <i>Legionella</i> (77–113°F, 25–45°C). 				
Water Age	Make-up water quality and turnover frequency	 Flush low-flow pipe runs and dead legs at least weekly. During wet system standby (water remains in system and shutdown for less than 5 days), maintain water treatment program and circulate water 3 times a week through the open loop of a closed-circuit cooling tower and entire open-circuit cooling system. Ensure system water quality is managed through automated system blow down. Use potable water for system make-up water or ensure reclaimed or condensate sources are appropriately managed. 				
Disinfectant Residual	Control limits	 pH: Maintain based on type of disinfectant used and manufacturer recommendations to prevent corrosion. Oxidizing disinfectants (e.g., chlorine & bromine): Maintain measurable residuals throughout each day. Consult manufacturer recommendations. Non-oxidizing disinfectants: Maintain based on product label concentration and contact time. 				

https://www.cdc.gov/legionella/wmp/control-toolkit/index.html

The Centers for D	isease Control a	nd Prevention (CD	C) have establ	lished	this figur	re as a general	
			and the second				
-	-	-		es gui	idance wi	nen concentration,	
change in concent	tration, and exter	nt indicates Legior	nella growth.				
The following tab	le guidelines are	intended to help	clients better u	Inder	stand sam	npling results and	
summarize comm	on responses ba	sed on sampling f	rom the domes	stic po	table wa	ter system.	
Concentration indicates							
Uncontrolled	Poorly Controlled	Well Controlled					
≥10 CFU/mL [†] in potable water	1.0–9.9 CFU/mL in potable water	Detectable to 0.9 CFU/ mL in potable water	No Legionella detected in a single	No Legionella le detected in multiple rounds of testing		No Legionella detected in multi rounds of testing with methods	
OR ≥100 CFU/mL in	OR 10-99 CFU/mL in	OR Detectable to 9 CFU/	round of testing			that detect viable and non-viab	
non-potable water	non-potable water	mL in non-potable water				bacteria of any Legionella specie	
Change in concentration	over time indicates the	at Legionella growth appr	aare'				
Uncontrolled	Poorly Controlled	Well Controlled	cura.				
100-fold or greater	10-fold increase in	Legionella concentration	No Legionella	No Leg	gionella	No Legionella detected in multi	
increase in concentration	concentration (e.g.,	steady (e.g., 0.5 CFU/	detected in a single			rounds of testing with methods that detect viable and non-viable bacteria of any Legionella specie	
(e.g., 0.05 to 5 CFU/mL)	0.05 to 0.5 CFU/mL)	mL for two consecutive sampling rounds)	round of testing				
		sampling rounds)				bacteria of any cegioneria spec	
Extent indicates that Leg							
Uncontrolled	Poorly Controlled	Well Controlled	No. Logiconello	Mada	-i	No. I antice the detected in section	
Detection in multiple locations AND a common	Detection in a common source location that	 Detection in a few of many tested locations 	No Legionella detected in a single		pionella ed in multiple	No Legionella detected in multi rounds of testing with methods	
source location [‡]	serves multiple areas	within a water system	round of testing	rounds of testing		that detect viable and non-viab	
OR Detection across	OR Detection in more					bacteria of any Legionella spec	
many locations within a	than one location within	n					
water system	a water system						
Type [*] of Legionella (speci		*This figure is intended for				ng units per milliliter (CFU/mL), B.	
associated with Legionnaires' disease:		only. Test results are performance indicators and are not a measure of risk of human illness. This figure			non-Lp1 Legionella pneumophila, C. observed steady concentrations, but D. detected at mult		
Highly Associated	Less Associated	is not intended for use if a building or device is		5	distal locations including a central water heater		
L. pneumophila serogroup 1; Non-Lp1 L.	Any non-pneumophila Legionella species	associated with Legionnaires' disease (LD) cases or an outbreak. "See "Routine testing for <i>Legionella</i> " for guidance regarding suggested response activities. Comparable results may lead to different suggested response activities when other factors are considered (e.g., if there is evidence of poorly			*Concentrations expressed as CFU/mL are for t		
pneumophila; Presence	including "blue-white"				results generated by traditional spread plate cu methods. If other test methods are used, consu		
of multiple different	fluorescent Legionella				testing lab or manufacturer instructions for appropriate interpretation. ³ Common source location examples include w heaters, hot water returns, storage tanks, and		
Legionella species or serogroups							
Jerogroupa							
		controlled growth at a h			cooling towe		
James .	U.S. Department of Health and Human	^A Considering the type of Legionella identified along with other Legionella testing performance indicators			'If a facility has a history of associated LD cases		
CDC		provides a clearer pictu	re of water system	then sequencing isolates obtained during routi testing may provide performance indicators regarding outbreak strain persistence (if that			
	Services	control than the results	of any single indicator.				
			man and accenter		Logeronid on	the state of the state state of the state	
Ste ma	Centers for Disease Control and Prevention	For example, facility ow consider implementing			strain is dete		



Legionella Resources

- <u>https://www.cdc.gov/legionella/downloads/legionella-environmental-assessment-p.pdf</u>
- https://www.cdc.gov/legionella/wmp/toolkit/index.html
- https://www.cdc.gov/legionella/index.html
- <u>https://www.cdc.gov/legionella/downloads/legionella-environmental-assessment-marking-guide-508.pdf</u>
- https://www.cdc.gov/legionella/videos.html
- <u>https://www.chicagohan.org/diseases-and-conditions/legionellosis</u>

Take-aways



- Reduce *Legionella* growth in water systems to prevent disease
- In order to control Legionella growth in water systems it is vital to have an active and dynamic Water Management Program
- Water Management Programs require a team effort
- Monitor water parameters frequently
- Keep records of all testing and monitoring of the water system
- Cooling towers require regular monitoring and scheduled maintenance

LTCR Invite Request Form

 If you do not receive calendar invitations to the roundtable webinars and/or have a new staff member that you would like to attend, please complete this brief <u>survey</u>



LTCR Invite Request

Please provide the following information to be added to the CDPH Long-Term Care Roundtable Invite List.

Thank you!

Your name

* must provide value

Your job title

* must provide value

Your facility

* must provide value

Your email address

* must provide value

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Questions & Answers

For additional resources and upcoming events, please visit the CDPH LTCF HAN page at: https://www.chicagohan.org/covid-19/LTCF