Clinical Laboratory COVID-19 Response Call

Monday, October 19th, 2020 at 3:00 PM EDT

- Welcome
 - Jasmine Chaitram, CDC Division of Laboratory Systems (DLS)
- National Healthcare Safety Network (NHSN) Point-of-Care Test Reporting Tool for COVID-19 in Long-Term Care Facilities
 - Kathy Bridson, CDC Division of Healthcare Quality Promotion (DHQP)
- 2020-2021 Influenza Testing Issues
 - Tim Uyeki, CDC Influenza Division (ID)
- Effects of Increased SARS-CoV-2 Testing on Laboratory Services: An Emerging Infections Network (EIN) Survey
 - Dan Diekema, University of Iowa
- FDA Update
 - Tim Stenzel, U.S. Food and Drug Administration (FDA)
- How Does CDC Use COVID-19 Laboratory Testing Data?
 - Jason Hall, CDC Division of Preparedness and Emerging Infections (DPEI)
 - Ed Lockhart, CDC Division of Laboratory Systems (DLS)

Schedule for Clinical Laboratory COVID-19 Response Calls

The next call will be on **Monday, November 2**nd from **3:00 PM to 4:00 PM EDT**.



We Want to Hear From You!

Training and Workforce Development

Questions about education and training? Contact LabTrainingNeeds@cdc.gov



COVID-19 Resources for Laboratories

 LOINC In-Vitro Diagnostic (LIVD) Test Code Mapping for SARS-CoV-2 Tests

https://www.cdc.gov/csels/dls/sars-cov-2-livd-codes.html

- IVD Industry Connectivity Consortium https://ivdconnectivity.org/livd/
- Antigen Testing Guidance
 https://www.cdc.gov/coronavirus/2019-ncov/lab/resources/antigen-tests-guidelines.html
- Frequently Asked Questions about COVID-19 for Laboratories https://www.cdc.gov/coronavirus/2019-ncov/lab/faqs.html

Interim Guidance for Collecting, Handling, and Testing Clinical Specimens

https://www.cdc.gov/coronavirus/2019nCoV/lab/guidelines-clinical-specimens.html

- Diagnostic Tools and Virus
 https://www.cdc.gov/coronavirus/2019-ncov/lab/tool-virus-requests.html
- Emergency Preparedness for Laboratory Personnel https://emergency.cdc.gov/labissues/index.asp
- CDC Laboratory Outreach Communication System (LOCS) https://www.cdc.gov/csels/dls/locs/

CDC Preparedness Portal

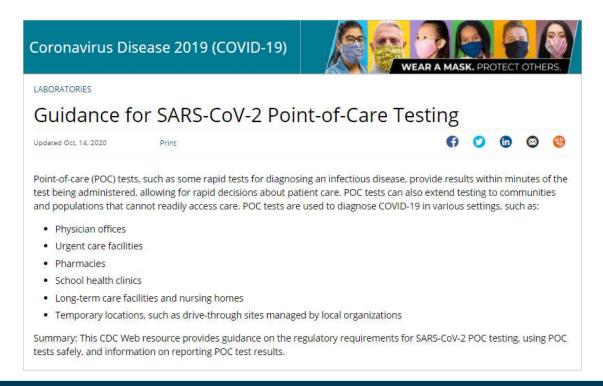
https://www.cdc.gov/csels/dls/preparedlabs/covid-19-clinical-calls.html



Find CLCR call information, transcripts, & audio recordings on the Preparedness Portal

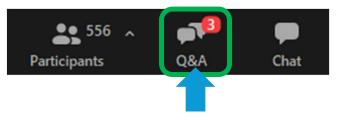
New Guidance for SARS-CoV-2 Point-of-Care Testing

https://www.cdc.gov/coronavirus/2019-ncov/lab/point-of-care-testing.html



How to Ask a Question

- Using the Webinar System
 - Click the Q&A button in the Zoom webinar system
 - Type your question in the Q&A box and submit it
 - Please do not submit a question using the chat button



- For media questions, please contact CDC Media Relations at media@cdc.gov
- If you are a patient, please direct any questions to your healthcare provider

?

Center for Surveillance, Epidemiology, and Laboratory Services

National Healthcare Safety Network (NHSN) Point-of-Care Test Reporting Tool for COVID-19 in Long-Term Care Facilities

Kathy Bridson

CDC Division of Healthcare Quality Promotion (DHQP)





2020-2021 Influenza Testing Issues

Tim Uyeki MD, MPH, MPP, CAPT U.S. Public Health Service Influenza Division, CDC October 19, 2020

Influenza Activity in the U.S. During 2020-2021

- Unpredictable, may vary by extent of COVID-19 control measures
 - Influenza activity can vary geographically over time
- Monitoring of viral co-circulation is essential
 - Public health surveillance (local, state, national)
 - SARS-CoV-2
 - Influenza A and B viruses
 - Local clinical laboratories, hospital testing results
- Prepare for viral co-circulation
 - Prevention and control strategies are needed for both SARS-CoV-2 and influenza viruses

Co-circulation of Influenza Viruses and SARS-CoV-2

- Co-infection with influenza A or B viruses and SARS-CoV-2 can occur
 - Documented in case reports, case series
 - Frequency, severity, and risk factors are unknown
- Overlapping signs, symptoms, some differences with either infection
 - Incubation period is shorter with influenza (1-3 days) than COVID-19 (2-14 days)
 - Viral shedding, period of viral RNA detection is generally shorter for influenza
 - Ageusia/dysgeusia, anosmia are more common with COVID-19 than influenza
 - Diarrhea can occur in young children with influenza; at any age with COVID-19
 - Timing of onset of complications/severe disease is earlier with influenza
- High-risk groups for influenza and COVID-19 are similar
 - Young children, pregnant women are at high-risk for influenza complications

Co-circulation of Influenza Viruses and SARS-CoV-2

Implications

- > Testing is needed to distinguish influenza from COVID-19
 - Consider influenza virus infection, SARS-CoV-2 infection, co-infection
- Testing strategies (respiratory specimens) during co-circulation
 - Hospitalized patients with acute respiratory illness (nucleic acid detection assays are preferred):
 - Test for SARS-CoV-2 and for influenza viruses by single-plex assays
 - Test for SARS-CoV-2 and influenza viruses by multiplex assay
 - Outpatients with acute respiratory illness:
 - Test for both SARS-CoV-2 and influenza viruses, OR
 - Test for SARS-CoV-2 and use judgement to clinically diagnose influenza and prescribe antiviral treatment of influenza

Influenza Tests in Clinical Settings

- Variety of diagnostic tests available to clinicians to detect influenza viruses in respiratory specimens
 - ➤ Differ by time to produce results, information provided, approved respiratory specimens, approved clinical settings, and <u>accuracy</u>
 - Antigen detection (FDA-cleared single-plex, multiplex)
 - One multiplex assay (detects SARS-CoV-2 & influenza viruses) received FDA EUA
 - Nucleic acid detection (FDA-cleared single-plex, multiplex)
 - 9 multiplex assays (detect SARS-CoV-2 & influenza viruses) received FDA EUA
 - Point-of-care assays (CLIA-waived)
 - Moderately complex (requires clinical laboratory)
 - Highly complex (large clinical laboratories, public health labs)

CDC. Information for Clinicians on Influenza Virus Testing: https://www.cdc.gov/flu/professionals/diagnosis/index.htm

CDC. Rapid Influenza Diagnostic Tests (RIDTs): https://www.cdc.gov/flu/professionals/diagnosis/table-ridt.html

CDC. Nucleic Acid Detection Based Tests for Influenza Viruses: https://www.cdc.gov/flu/professionals/diagnosis/table-nucleic-acid-detection.html

Multiplex Assays (nucleic acid detection) to Detect Influenza Viruses and SARS-CoV-2 in Respiratory Specimens (FDA EUA)

Manufacturer	Assay	Viruses Detected	Result Time	Complexity
Biofire	Respiratory Panel 2.1	Influenza A(H1), A(H1)pdm09, A(H3), B; SARS-CoV-2*	1 hour	High, Moderate
Biofire	Respiratory Panel 2.1 -EZ	Influenza A(H1), A(H1)pdm09, A(H3), B; SARS-CoV-2*	45 minutes	High, Moderate Waived
Genmark	ePlex Respiratory Pathogen Panel 2	Influenza A(H1), A(H1)pdm09, A(H3), B; SARS-CoV-2*	<2 hours	High, Moderate
QIAGEN	QIAstat-Dx Respiratory SARS- CoV-2 Panel	Influenza A(H1), A(H1)pdm09, A(H3), B; SARS-CoV-2*	1 hour	High, Moderate
Roche	cobas SARS-CoV-2 & Influenza A/B	Influenza A, B; SARS-CoV-2	3-8 hours	High, Moderate
Roche	cobas SARS-CoV-2 & Influenza A/B Nucleic Acid Test	Influenza A, B; SARS-CoV-2	20 minutes	High, Moderate Waived
Cepheid	Xpert Xpress SARS-CoV-2/ Flu/RSV	Influenza A, B; SARS-CoV-2	<40 minutes	High, Moderate
Cepheid	Xpert Xpress SARS-CoV-2/ Flu/RSV	Influenza A, B; SARS-CoV-2	<40 minutes	Waived
CDC	Influenza SARS-CoV-2 (Flu SC2) Multiplex Assay	Influenza A, B; SARS-CoV-2	4 hours	High

https://www.fda.gov/medical-devices/coronavirus-disease-2019-covid-19-emergency-use-authorizations-medical-devices/vitro-diagnostics-euas#individual-molecular;

https://www.cdc.gov/flu/professionals/diagnosis/table-flu-covid19-detection.html

*Also detect other respiratory viruses

Influenza Testing and Specimen Source

Upper respiratory tract

- Influenza viruses are generally detectable for 3-4 days by antigen detection; and 5-6 days by nucleic acid detection in uncomplicated disease, longer in infants and immunosuppressed
 - Highest yield: Nasopharyngeal (NP) swabs (ideally collected within 3-4 days of illness onset)
 - Other acceptable specimens: nasal swabs, NP aspirates, nasal aspirates, combined nasal and throat swabs
- Slower clearance of influenza viruses in severe disease
- Influenza viral replication and viral RNA detection may be prolonged with corticosteroids, immunosuppression

> Lower respiratory tract

- > Higher, prolonged viral replication in severe lower respiratory tract disease
 - Influenza viruses may be detectable when cleared from the upper respiratory tract
 - > RT-PCR was negative in 10-19% of patients in upper respiratory tract specimens versus lower respiratory tract (BAL specimens) for influenza A(H1N1)pdm09 viral RNA

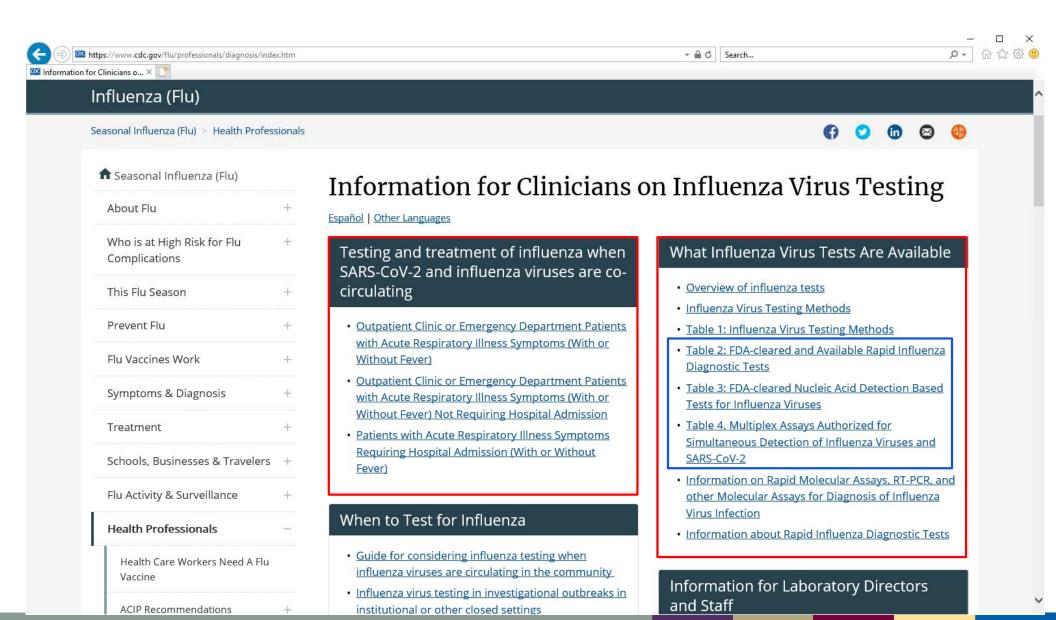
What Influenza Tests Are Recommended?

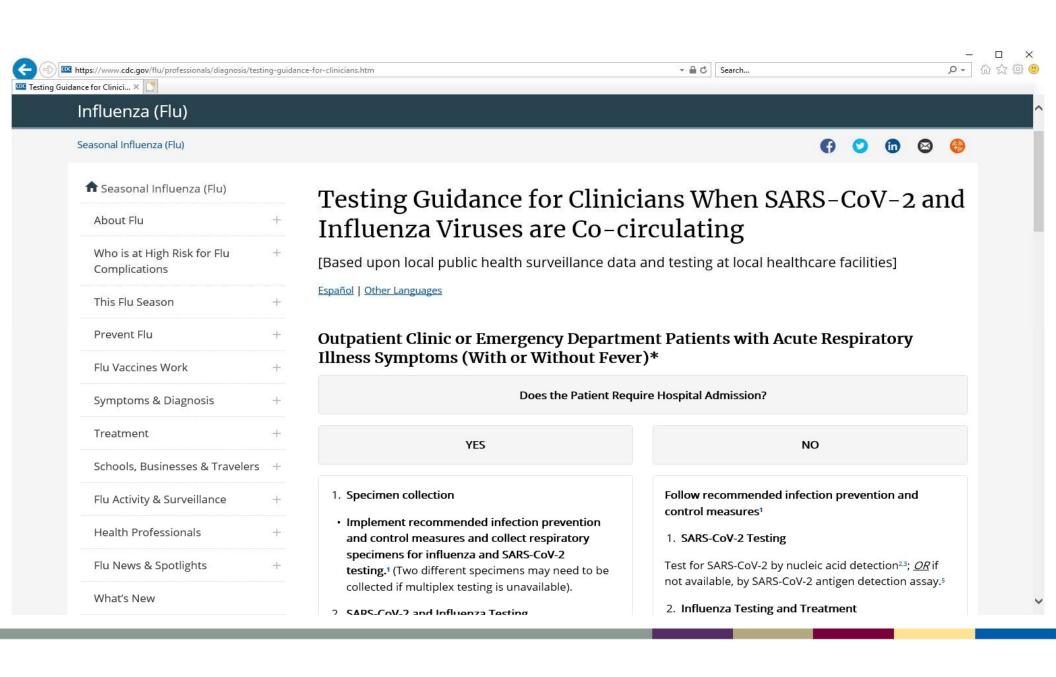
Outpatients:

> Rapid influenza molecular assays are recommended over rapid influenza antigen detection tests

Hospitalized patients:

- > RT-PCR or other influenza molecular assays recommended (2020-2021: Influenza A/B, SARS-CoV-2)
 - Rapid antigen detection tests and immunofluorescence assays are not recommended should not be used unless molecular assays are not available
- ➤ Immunocompromised patients: Multiplex RT-PCR assays targeting a panel of respiratory pathogens, including influenza viruses are recommended
- Do not order viral culture for initial or primary diagnosis of influenza
- Do not order serology for influenza
 - ➤ Results from a single serum specimen cannot be reliably interpreted, and collection of paired acute and convalescent sera 2-3 weeks apart are needed





Testing Guidance for Clinicians When SARS-CoV-2 and Influenza Viruses are Co-circulating [Based upon local public health surveillance data and testing at local healthcare facilities] Outpatient Clinic or Emergency Department Patients with Acute Respiratory Illness Symptoms (With or Without Fever)*

YES Does the Patient Require Hospital Admission?

1. Specimen collection

*Implement recommended infection prevention and control measures and collect respiratory specimens for influenza and SARS-CoV-2 testing.¹ (Two different specimens may need to be collected if multiplex testing is unavailable).

2. SARS-CoV-2 and Influenza Testing

- a) Order multiplex nucleic acid detection assay for influenza A/B/SARS-CoV-2.2,3 OR
- b) If multiplex nucleic acid detection assay is not available, order SARS-CoV-2 nucleic acid detection assay³ and Influenza nucleic acid detection assay.⁴
- (If SARS-CoV-2 nucleic acid detection assay is not available on-site and SARS-CoV-2 antigen detection assay is used, ⁵ confirm negative SARS-CoV-2 antigen detection results by SARS-CoV-2 nucleic acid detection assay at an outside laboratory). (Note: Rapid influenza antigen detection assays are not recommended for hospitalized patients due to low sensitivities.)

(Note: Because SARS-CoV-2 and influenza virus co-infection can occur, a positive influenza test result without SARS-CoV-2 testing does not exclude COVID-19, and a positive SARS-CoV-2 test result without influenza testing does not exclude influenza.)

3. Treatment

*If bacterial pneumonia or sepsis is suspected, consider testing recommendations and empiric antibiotic treatment per American Thoracic Society-Infectious Diseases Society of America Adult Community-acquired Pneumonia Guidelines⁶, and administer supportive care and treatment for suspected or confirmed COVID-19 patients per NIH COVID-19 Treatment Guidelines.⁷ (Note: community-acquired bacterial co-infections can occur but appear to be uncommon with COVID-19,8,9,10 and may be more common with influenza.¹¹)

*Start empiric oseltamivir treatment for suspected influenza as soon as possible regardless of illness duration, without waiting for influenza testing results, per Infectious Diseases Society of America Influenza Guidelines^{11,12}, and administer supportive care.

Follow recommended infection prevention and control measures1

1. SARS-CoV-2 Testing

Test for SARS-CoV-2 by nucleic acid detection^{2,3}; <u>OR</u> if not available, by SARS-CoV-2 antigen detection assay.⁵

2. Influenza Testing and Treatment

- a) Test for influenza if results will change clinical management or for infection control decisions (e.g. long-term care facility resident returning to a facility, or a person of any age returning to a congregate setting): order rapid influenza nucleic acid detection assay^{3,3,4,11}; if rapid influenza nucleic acid detection assay is not available on-site, order rapid influenza antigen assay¹³; prescribe antiviral treatment if positive.^{11,12} *OR*
- b) Prescribe empiric antiviral treatment as soon as possible without influenza testing based on a clinical diagnosis of influenza for patients of any age with progressive disease of any duration, and for children and adults at high risk for influenza complications. ^{11,12,14}
- *For adult patients with suspected community-acquired pneumonia who do not require admission, see American Thoracic Society-Infectious Diseases Society of America Adult Community-acquired Pneumonia Guidelines⁶
- *For otherwise healthy non-high-risk persons with influenza-like illness (fever and either cough or sore throat) with illness ≤2 days, empiric antiviral treatment can be prescribed based upon clinical judgement.^{11,12}
- *For otherwise healthy non-high-risk persons without influenza-like illness or with illness duration >2 days, antiviral treatment of influenza is unlikely to provide significant clinical benefit.¹¹
- 3. Follow isolation and quarantine recommendations for SARS-CoV-215



Testing Guidance for Clinicians When SARS-CoV-2 and Influenza Viruses are Co-circulating [Based upon local public health surveillance data and testing at local healthcare facilities]

Outpatient Clinic or Emergency Department Patients with Acute Respiratory Illness Symptoms (With or Without Fever) Not Requiring Hospital Admission

Follow recommended infection prevention and control measures1

1. Specimen Collection

*Implement recommended infection prevention and control measures and collect respiratory specimens for influenza and SARS-CoV-2 testing.¹
(Two different specimens may need to be collected if multiplex testing for influenza viruses and SARS-CoV-2 is unavailable on-site.²-³)

2. SARS-CoV-2 and Influenza Testing

A) Test for SARS-CoV-2 by nucleic acid detection^{2,3}; <u>OR</u> if not available, by SARS-CoV-2 antigen detection assay.⁴ (Note: Because antigen detection assays have lower sensitivity than nucleic acid detection assays, a negative SARS-CoV-2 antigen detection assay result does not necessarily exclude SARS-CoV-2 infection and should be confirmed by SARS-CoV-2 nucleic acid detection assay, especially if suspicion for COVID-19 is high – such as high SARS-CoV-2 community prevalence or recent close exposure to a person with COVID-19.)

B) Test for influenza if results will change clinical management or for infection control decisions (e.g. long-term care facility resident returning to a facility, or a person of any age returning to a congregate setting): order rapid influenza nucleic acid detection assay^{5,6}; if rapid influenza nucleic acid detection assay is not available on-site, order rapid influenza antigen detection assay.⁷ (If available, multiplex nucleic acid detection assay for SARS-CoV-2, influenza A and B viruses can be performed on-site, or at an offsite clinical laboratory.^{2,3})

(Note: Because SARS-CoV-2 and influenza virus co-infection can occur, a positive influenza test result without SARS-CoV-2 testing does not exclude SARS-CoV-2 infection, and a positive SARS-CoV-2 test result without influenza testing does not exclude influenza virus infection.

3. Treatment

*Prescribe antiviral treatment if on-site influenza testing is positive <u>OR</u> prescribe empiric antiviral treatment without influenza testing based upon a clinical diagnosis of influenza for patients of any age with progressive disease of any duration, and for children and adults at high risk for influenza complications with illness. 6,8,9 (encourage patients to start antiviral treatment as soon as possible)

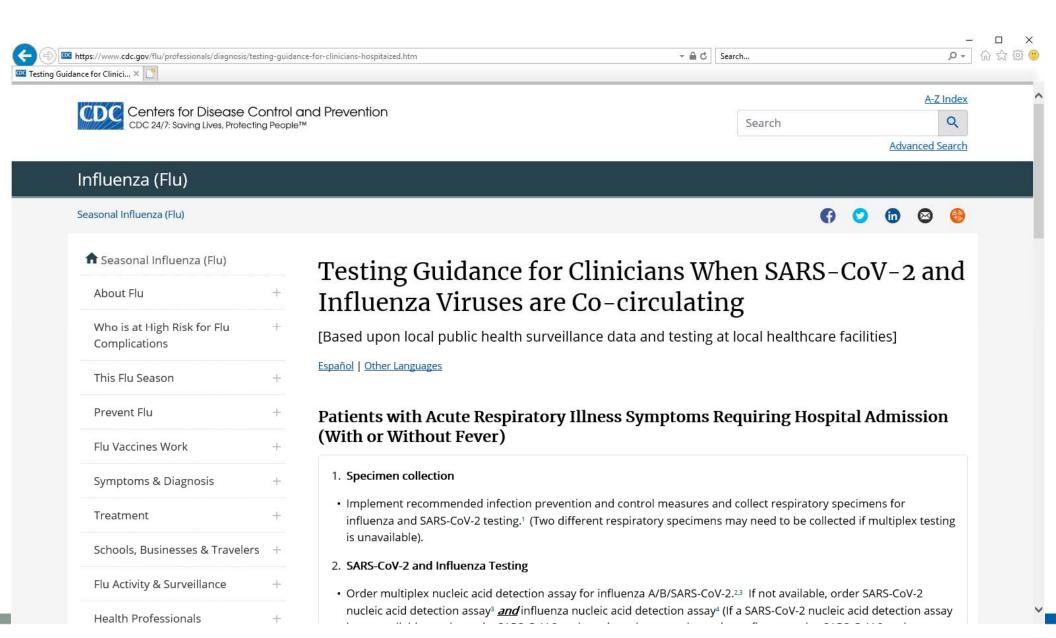
*For adult patients with suspected community-acquired pneumonia who do not require hospitalization, see antibiotic treatment recommendations from the American Thoracic Society-Infectious Diseases Society of America Adult Community-acquired Pneumonia Guidelines.¹⁰

*For otherwise healthy non-high-risk persons with influenza-like illness (fever and either cough or sore throat) with illness ≤2 days, empiric antiviral treatment of suspected influenza can be prescribed based upon clinical judgement.^{6,8}

*For otherwise healthy non-high-risk persons without influenza-like illness or with illness duration >2 days, antiviral treatment of influenza is unlikely to provide significant clinical benefit.⁶

4. Follow isolation and quarantine recommendations for SARS-CoV-2,11 and arrange follow-up for any pending testing results.

https://www.cdc.gov/flu/professionals/diagnosis/index.htm



Testing Guidance for Clinicians When SARS-CoV-2 and Influenza Viruses are Co-circulating [Based upon local public health surveillance data and testing at local healthcare facilities]

Patients with Acute Respiratory Illness Symptoms Requiring Hospital Admission (With or Without Fever)

1. Specimen collection

*Implement recommended infection prevention and control measures and collect respiratory specimens for influenza and SARS-CoV-2 testing.¹ (Two different respiratory specimens may need to be collected if multiplex testing is unavailable).

2. SARS-CoV-2 and Influenza Testing

*Order multiplex nucleic acid detection assay for influenza A/B/SARS-CoV-2.^{2,3} If not available, order SARS-CoV-2 nucleic acid detection assay³ and influenza nucleic acid detection assay⁴ (If a SARS-CoV-2 nucleic acid detection assay is not available on-site and a SARS-CoV-2 antigen detection assay is used,⁵ confirm negative SARS-CoV-2 antigen detection assay results by SARS-CoV-2 nucleic acid detection assay at an outside laboratory). (Note: Rapid influenza antigen detection assays are not recommended due to lower sensitivities compared with rapid influenza nucleic acid detection assays.)

(Note: Because SARS-CoV-2 and influenza virus co-infection can occur, a positive influenza test result without SARS-CoV-2 testing does not exclude COVID-19, and a positive SARS-CoV-2 test result without influenza testing does not exclude influenza.)

*In critically ill intubated and mechanically ventilated patients who are suspected to have COVID-19 or influenza without a confirmed diagnosis, including when upper respiratory tract specimens are negative, lower respiratory tract (e.g. endotracheal aspirate) specimens should be collected for SARS-CoV-2 and influenza virus testing by nucleic acid detection assay per NIH COVID-19 Treatment Guidelines, and Infectious Diseases Society of America Influenza Clinical Practice Guidelines.

3. Treatment

*If bacterial pneumonia or sepsis is suspected, consider testing recommendations and empiric antibiotic treatment per American Thoracic Society-Infectious Diseases Society of America Adult Community-acquired Pneumonia Guidelines, and administer supportive care and treatment for suspected or confirmed COVID-19 patients per NIH COVID-19 Treatment Guidelines. (Note: community-acquired bacterial co-infections can occur with COVID-19 but appear to be uncommon, 9,10,11 and may be more common with influenza. 7)

*Start empiric oseltamivir treatment for suspected influenza as soon as possible regardless of illness duration, without waiting for influenza testing results, per Infectious Diseases Society of America Influenza Clinical Practice Guidelines, 7,12 and administer supportive care.

https://www.cdc.gov/flu/professionals/diagnosis/index.htm



Effects of Increased SARS-CoV-2 Testing on Laboratory Services: An Emerging Infections Network (EIN) Survey

Dan Diekema
University of Iowa

Background

- COVID-19 emergence has resulted in massive demand for diagnostic testing for SARS-CoV-2
- Major stress on clinical laboratories
- Has led to laboratory supply shortages
- Both COVID-19 and non-COVID-19 tests affected
- Need to better understand scope of the problem to bring to policy makers and other stakeholders

Emerging Infections Network

- Clinician-based sentinel network funded by CDC and Infectious Disease Society of America
- Over 2,800 participants, most in the U.S.
- Designed to detect new or unusual clinical events, clusters, outbreaks, clinical aspects of emerging infections, & connect members to public health

Survey on SARS-CoV-2 test impact

- Sent 8/25, 9/3 & 9/10 to EIN members
- Also sent separately to clinical microbiology laboratory directors via ClinMicroNet and the ASM Division C listserv
- EIN response rate 34% (613/1795)
- CMN/Div C: 85 lab directors responded

Where is SARS-CoV-2 PCR performed?

	426 ID physicians	85 Lab Directors
Onsite only	253 (60%)	55 (65%)
Offsite only	34 (8%)	0
Both onsite+offsite	133 (31%)	29 (34%)

Are you aware of any delays in results or unavailable tests (non-SARS-CoV-2) due to the demand for SARS-CoV-2 testing?

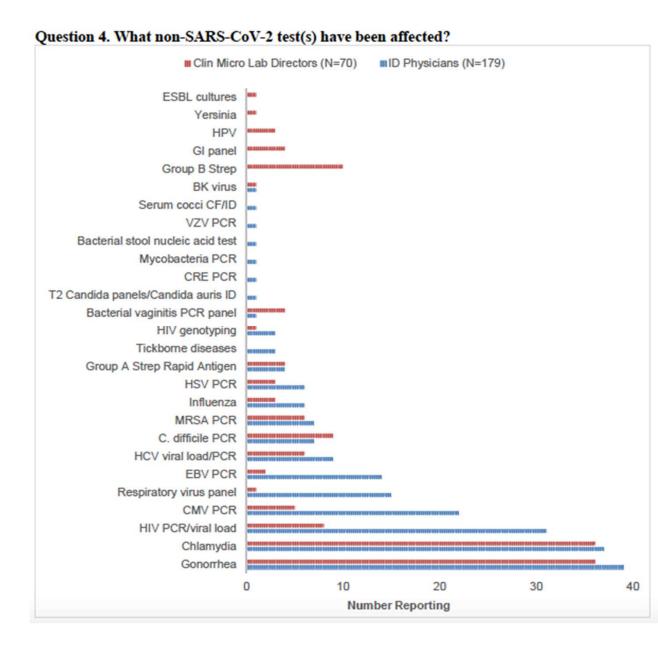
	ID physicians	Lab directors
YES	196 (32%)	73 (86%)
NO	417 (68%)	12 (14%)

Was the testing:

	ID physicians	Lab Directors
Delayed	133 (68%)	36 (49%)
Not available	34 (17%)	12 (17%)
Both delayed & not available	24 (12%)	24 (33%)

Most often affected:

MRSA PCR C difficile PCR **HCV** viral load PCR EBV PCR Resp virus panel **CMV PCR** HIV viral load PCR Chlamydia Gonorrhea



Specific shortage comments:

- Media (MH, SBA, CNA, Mycocel, T-M, etc)
- Reagents, many for extraction steps
- Swabs
- Cartridges for major molecular platforms
- Personnel

How did SARS-CoV-2 testing cause delays or unavailability?

	ID physicians	Lab Directors
Reagent shortage	107 (55%)	62 (85%)
Personnel shortage	68 (35%)	28 (38%)
Device shortage	49 (25%)	31 (42%)
Supply shortage	41 (21%)	48 (66%)

Percent reporting that the following "deteriorated" as a result of SARS-CoV-2 testing demand:

	ID physicians	Lab Directors
Communication	44 (22%)	24 (33%)
Turnaround times	122 (62%)	51 (70%)
Special req testing	34 (17%)	16 (22%)
Overall availability	77 (39%)	44 (60%)

"We've had to re-design our lab to adjust to the new workflow from the high SARS-CoV-2 test volumes, new instrumentation and new personnel. We've had to send some molecular tests to a reference lab to free up thermocyclers for testing. We've also had to send other molecular tests to our reference lab due to reagent shortage. Currently, we've run low on several different agar plates in micro and having to source them from other vendors."

"It's been non-stop juggling and trouble-shooting"

"SARS-CoV-2 has left us scrambling in ways that were previously unimaginable for a clinical lab in the US"

"question wisdom of pre-OP testing"

"very dissatisfied lab staff who do not see ourselves as needing to do public health testing"

"the situation is unacceptable for the most wealthy country in the world"

Summary

- SARS-CoV-2 testing has been a major stressor for US clinical laboratories
- Supply chain and personnel issues have led to delays and unavailability of tests, greatest impact on STI (chlamydia/GC) testing
- Concern remains for ongoing adverse impact on patient care and public health



Centers for Disease Control and Prevention

September 8, 2020

Dear Colleagues,

There is a current shortage of STI test kits and laboratory supplies, most notably for chlamydia and gonorrhea nucleic acid amplification tests (CT/GC NAAT). The shortages affect multiple diagnostic companies, public health and commercial laboratories, and impact several components of the specimen collection and testing process. CDC is working with state, local and territorial STD programs, the Association of Public Health Laboratories (APHL) and other laboratories, manufacturers of STI diagnostic supplies, and the U.S. Food and Drug Administration (FDA) to understand the scope of the shortages and determine possible solutions.

Acknowledgements

- Susan Beekmann
- Phil Polgreen
- Tom File
- Cliff McDonald
- John T. Brooks

Center for Surveillance, Epidemiology, and Laboratory Services

FDA Update

U.S. Food and Drug Administration (FDA)



Food and Drug Administration (FDA)

- COVID-19 Emergency Use Authorization (EUA) Information for Medical Devices
 - https://www.fda.gov/medical-devices/emergencysituations-medical-devices/emergency-useauthorizations
- COVID-19 In Vitro Diagnostic EUAs

https://www.fda.gov/medical-devices/coronavirus-disease-2019-covid-19-emergency-use-authorizations-medical-devices/vitro-diagnostics-euas

COVID-19 Frequently Asked Questions

https://www.fda.gov/emergency-preparedness-and-response/coronavirus-disease-2019-covid-19/coronavirus-disease-2019-covid-19-frequently-asked-questions

COVID-19 Updates

https://www.fda.gov/emergency-preparedness-and-response/mcm-legal-regulatory-and-policy-framework/emergency-use-authorization#2019-ncov

FDA Townhall Meetings

https://www.fda.gov/medical-devices/workshops-conferences-medical-devices/virtual-town-hall-series-immediately-effect-guidance-coronavirus-covid-19-diagnostic-tests-06032020

 Independent Evaluations of COVID-19 Serological Tests

https://open.fda.gov/apis/device/covid19serology/



41

Division of Laboratory Systems Excellent Laboratories, Outstanding Health

Food and Drug Administration (FDA)

COVID-19 Diagnostic Development: COVID-19 Diagnostic Development: CDRH-EUA-Templates@fda.hhs.gov

Spot Shortages of Testing Supplies: 24-Hour Support Available

- 1. Call 1-888-INFO-FDA (1-888-463-6332)
- 2. Then press star (*)



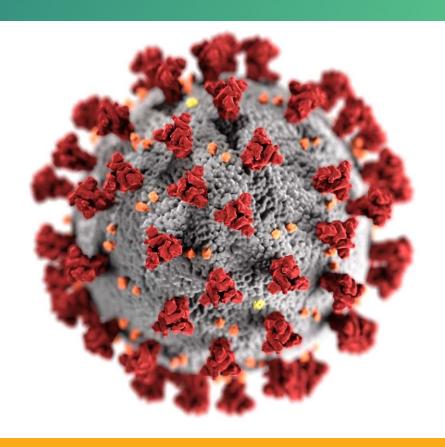
42

Division of Laboratory Systems Excellent Laboratories, Outstanding Health

How Does CDC Use COVID-19 Laboratory Testing Data?

Edward Lockhart, Lead, Laboratory Testing Data Jason Hall, Lead, Laboratory Reporting

DLS COVID-19 Response Call October 19, 2020





cdc.gov/coronavirus

Agenda

- COVID-19 Electronic Laboratory Reporting (CELR)
- How do laboratory test data transition through CDC?
- How does CDC use laboratory test data to inform the public?
- Answering follow-up questions from previous clicker calls

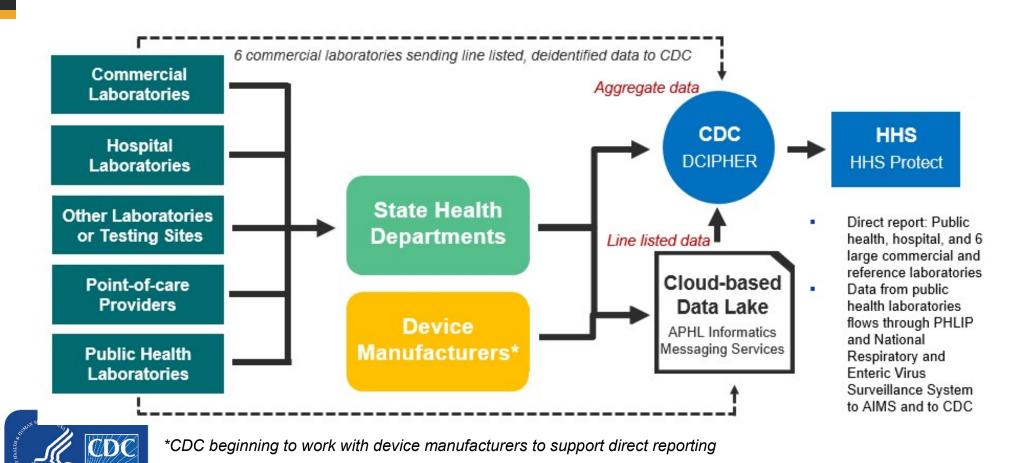


COVID-19 Electronic Laboratory Reporting (CELR)

- Data are reported in accordance with the CARES Act (CARES Act Section 18115). Data for each state or jurisdiction are either:
 - Submitted directly by the state health department via COVID-19 electronic laboratory reporting (CELR)
 - From a combination of commercial, public health, and in-house hospital laboratories.



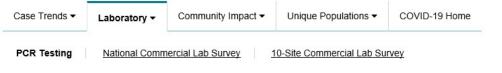
How do laboratory test data transition through CDC?



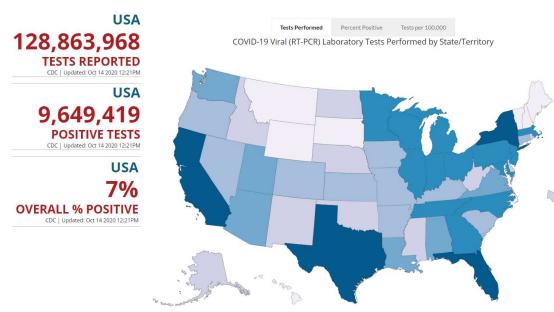
How does CDC use laboratory data to inform the public?

CDC COVID Data Tracker

Maps, charts, and data provided by the CDC



- Lab test data CDC receives are used to populate CDC COVID-19 Data Tracker
- COVID-19 Data Tracker reports out viral RT-PCR test results
 - Percent positivity
 - Test per 100k
- Seroprevalence survey data
- Monitoring trends and magnitude of disease
- Over 77 Million views and counting



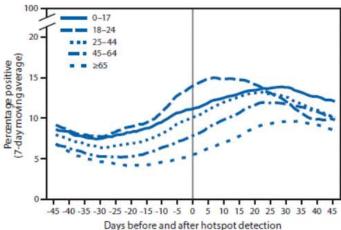


https://covid.cdc.gov/covid-data-tracker/

Secondary use of laboratory testing data

- Provide information to policy makers
- Creation of guidance documents and recommendations
 - Percent positivity from lab testing data is being used to inform CMS nursing home testing
 - School reopening's
- Incident Manager (IM) presentations
- HHS and WH briefings
- Publications to inform healthcare and the public (MMWR, journals)
- Address media inquiries





Source: Oster AM, Caruso E, DeVies J, Hartnett KP, Boehmer TK. Transmission Dynamics by Age Group in COVID-19 Hotspot Counties — United States, April—September 2020. MMWR Morb Mortal Wkly Rep. ePub: 9 October 2020. DOI: http://dx.doi.org/10.15585/mmwr.mm6941e1.



Recent follow-up questions on reporting

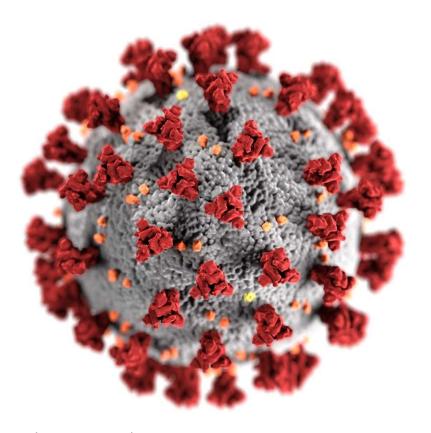
- Should test results be reported to the local or state health department where the lab is located, or where the patient lives?
- If the reference lab sending samples to another state, are they required to send results?
- SAMSHA 42CFR Part 2 indicates that patients seeking alcohol/drug treatment are exempt from public health reporting unless the patient provides written approval to do so. Are labs now required to report these patients seeking alcohol/drug treatment without written permission? Does COVID-19 test reporting now constitute a Medical Emergency and thus override the public health notification exemption?
- If a patient is a student on a college campus, will they need to report locally or to their home address?
- What if your lab serves patients from all 50 states. Is it required to setup interfaces with all 50 states?



Thank You!!

For any questions please contact: chall@cdc.gov or elockhart@cdc.gov

For more information, contact CDC 1-800-CDC-INFO (232-4636) TTY: 1-888-232-6348 www.cdc.gov



The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.



CDC Social Media



https://www.facebook.com/CDC



https://twitter.com/cdcgov

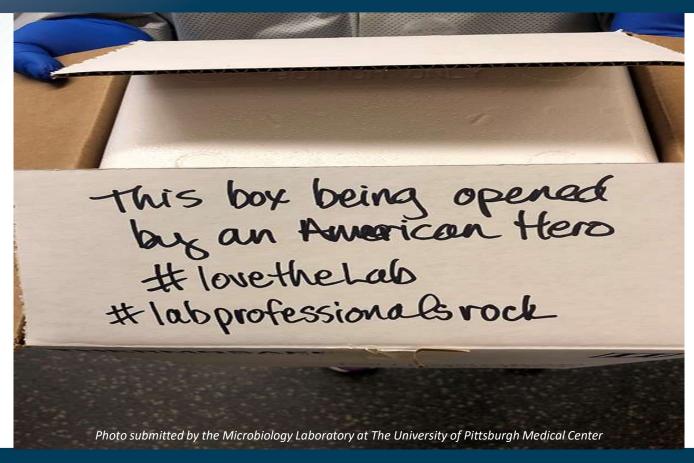


https://www.linkedin.com/company/cdc

Division of Laboratory Systems Excellent Laboratories, Outstanding Health

51

Thank You For Your Time!



Division of Laboratory Systems

Excellent Laboratories, Outstanding Health