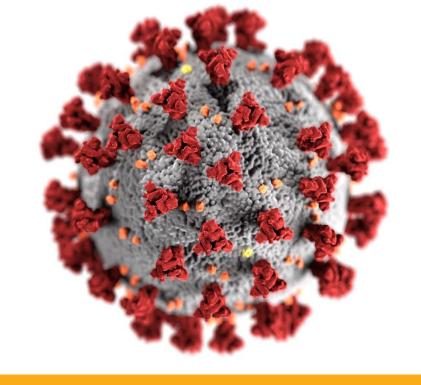
### **CDC COVID-19 Laboratory Response**

Reynolds M. Salerno, PhD
Director, Division of Laboratory Systems

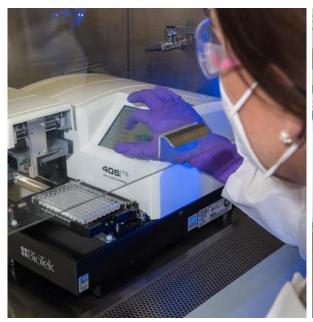
The Joint Commission 2020 Laboratory Roundtable Virtual Event October 30, 2020





cdc.gov/coronavirus

### **CDC COVID-19 Laboratory Response**







### **CDC COVID-19 Laboratory and Testing Task Force**

#### Mission

Increase scientific knowledge and laboratory testing capacity through work in CDC laboratories, support for clinical and public health laboratories, and engagement with federal partners, commercial laboratories, and professional organizations.

#### **Functions**

- Development of new laboratory tests and procedures
- Evaluation of laboratory reagents and instruments
- Development of guidance
- Support and technical assistance



#### **Priority Areas**

# Research and Development

- Assess rapid antigen test performance
- Evaluate different sample types with molecular diagnostic tests
- Validate new reagents and platforms
- Evaluate additional automated nucleic acid extraction platforms

## Laboratory Testing and Support

- Support laboratories with use of CDC-developed tests and reporting
- Manage and prioritize shipments of reagents from International Reagent Resources (IRR)
- Contribute to and assess performance of reference materials

## Guidance and Technical Support

- Provide technical assistance
- Develop guidance and answers to frequently asked questions (FAQs) to support PHLs and clinical laboratories
- Support outbreak investigations and transmission studies



#### **Updates and Ongoing Activities**

- Evaluation of alternative procedures, instruments, platforms and reagents for diagnostic tests
- Collaborations and partnerships to learn about rapid antigen test performance in asymptomatic people
- Development or updating of guidance and resources related to:
  - Laboratory testing
  - Biosafety
  - Point-of-care testing
- Ongoing testing, technical support, and deployments to the field





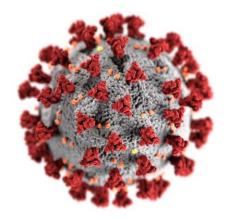
#### **DLS Role in COVID-19 Response**

Laboratory test data collection and reporting

Public-private partnerships

Clinical laboratory community and outreach

Clinical laboratory technical support



Policy support

Tri-Agency Task Force for Emergency Diagnostics (TTFED)

Repository services

Training and education development support



## **Testing and Reporting**

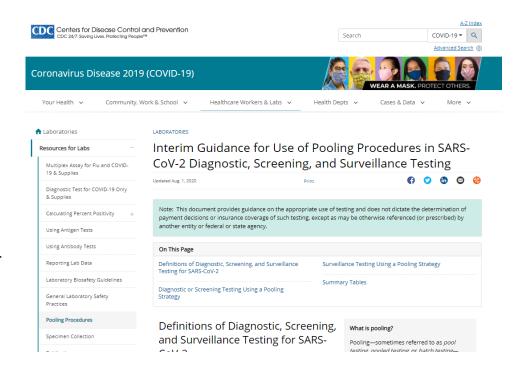


# Interim Guidance for Use of Pooling Procedures in SARS-CoV-2 Diagnostic, Screening, and Surveillance Testing

#### **Purpose**

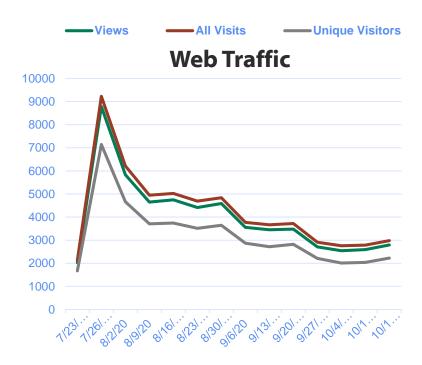
To provide guidance on the appropriate use of pooling procedures.

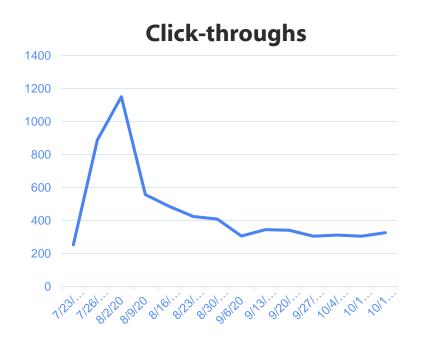
https://www.cdc.gov/coronavirus/2019-ncov/lab/pooling-procedures.html





# Interim Guidance for Use of Pooling Procedures in SARS-CoV-2 Diagnostic, Screening, and Surveillance Testing





**Total Views**: 56K **Total Unique Visitors**: 44K

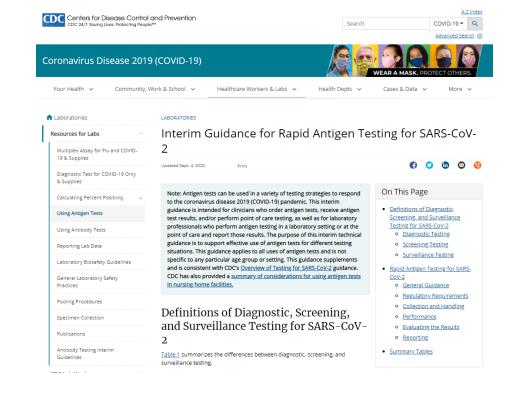
Total Click-throughs: 6,000+

## Interim Guidelines for Rapid Antigen Testing for SARS-CoV-2

#### **Purpose**

To support effective use of antigen tests for different testing situations.

https://www.cdc.gov/coronavirus/2019ncov/lab/resources/antigentests-guidelines.html





#### **Guidance for SARS-CoV-2 Point-of-Care Testing**

#### **Purpose**

To provide guidance on the regulatory requirements for SARS-CoV-2 point-of-care (POC) testing, using POC tests safely, and information on reporting POC test results.



Centers for Disease Control and Prevention

Coronavirus Disease 2019 (COVID-19)

LABORATORIES

♠ Laboratories

Search

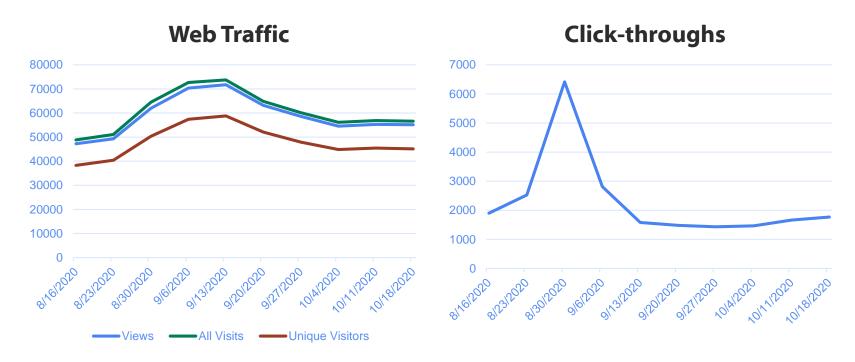
Healthcare Workers & Labs >

COVID-19 ▼

Cases & Data V



## Interim Guidelines for Rapid Antigen Testing for SARS-CoV-2



**Total Views**: 587K **Total Unique Visitors**: 480K

**Total Click-throughs**: 23K

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

Provided by a Core Team of Systemic
 Harmonization and Interoperability Enhancement
 for Laboratory Data (SHIELD) members



 First posted to DLS website on 4/28/20, and updated weekly



- Tool has over 13,000 downloads as of 10/5/20
- https://www.cdc.gov/csels/dls/sars-cov-2-livdcodes.html









#### **Laboratory Reporting**

- Provide continuous support and clarification to clinical laboratories on CARES Act, HHS, and CMS requirements for reporting laboratory data
  - LOCS messages
  - Clinical Laboratory COVID-19 calls
  - CDC laboratory reporting webpage
  - FAQs
  - Response to numerous email inquiries



## **Biosafety**

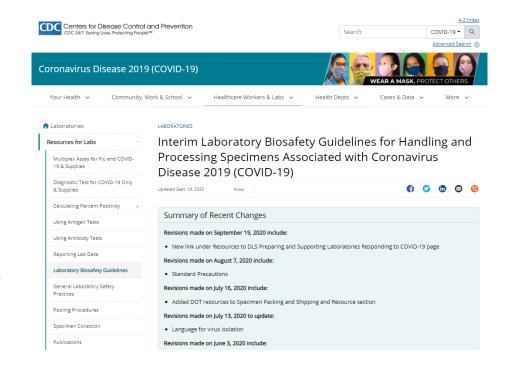


# Interim Laboratory Biosafety Guidelines for Handling and Processing Specimens Associated with COVID-19

#### **Purpose**

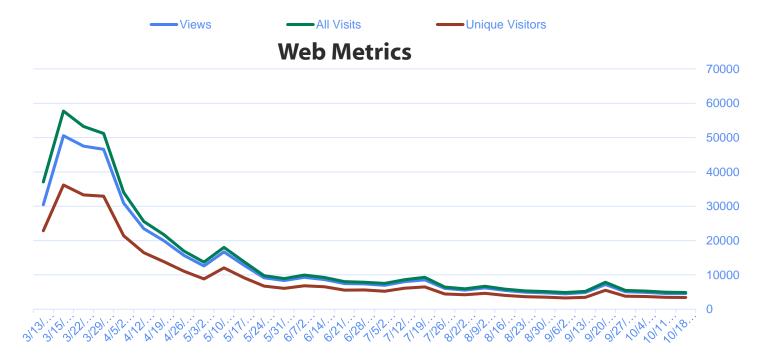
Provide support to public health and clinical laboratories through development of laboratory biosafety guidance.

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





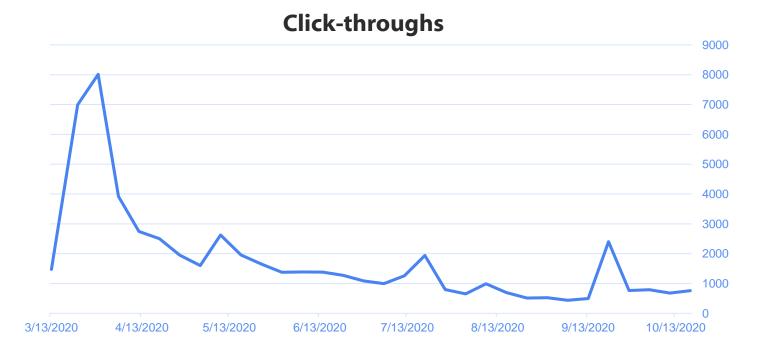
# Interim Laboratory Biosafety Guidelines for Handling and Processing Specimens Associated with COVID-19





**Total Views**: 449K **Total Unique Visitors:** 324K

# Interim Laboratory Biosafety Guidelines for Handling and Processing Specimens Associated with COVID-19





**Total Click-throughs**: 64K

### **Laboratory Biosafety FAQs**

#### **Purpose**

Provide support to public health and clinical laboratories through development of laboratory biosafety frequently asked questions (FAQs).

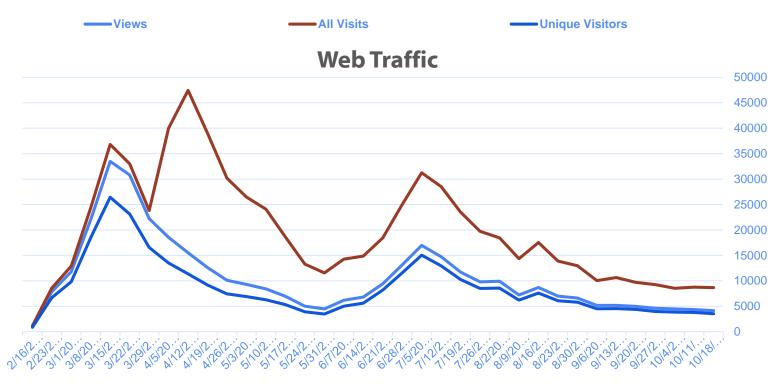
https://www.cdc.gov/coronavirus/2 019-ncov/lab/faqs.html#Laboratory-Biosafety

#### Laboratory Biosafety

How should the laboratory perform a risk assessment to identify and mitigate risks?	+
Are certified Class II biological safety cabinets (BSCs) required to process suspected or confirmed SARS-CoV-2 specimens? Should laboratory staff put procedures in place to minimize personnel exposure if there is no certified Class II BSC?	+
How should point-of-care testing (POCT) be conducted outside a traditional laboratory?	+
If laboratory personnel collect blood or respiratory specimens directly from suspected or confirmed COVID-19 patients, what PPE should they wear?	+
What is the recommended biosafety level for handling suspected or confirmed SARS-CoV-2 patient specimens?	+
What disinfectant should personnel use to decontaminate work surfaces?	+
How should specimens be stored?	+
How should laboratory personnel remove biohazardous waste from the laboratory or testing area for decontamination and disposal?	+
What are Standard Precautions?	+
What are infectious aerosols and droplets?	+



#### **Laboratory Biosafety FAQs**





**Total Views**: 381K **Total Unique Visitors**: 309K

## Partnership, Communication, and Outreach



#### **Partnerships**

- Chairing weekly calls with Tri-Agency Task Force for Emergency Diagnostics
- Conducting calls with the American Clinical Laboratory Association (ACLA) and large commercial laboratories
- Participating in calls with the Association of Public Health Laboratories (APHL) and CDC Laboratory and Testing Task Force, and public health laboratories











### **Clinical Laboratory Partners Forum**











American Clinical Laboratory Association



















Accreditation Education. Innovation.











#### **Laboratory Outreach Communication System (LOCS)**





https://www.cdc.gov/csels/dls/locs

To opt in, email LOCS@cdc.gov.



#### **Clinical Laboratory COVID-19 Response Calls**

#### **Purpose**

Biweekly call with partners, public health, and clinical laboratories to discuss the nation's laboratory response to COVID-19



21 total calls



~1,300 participants/week

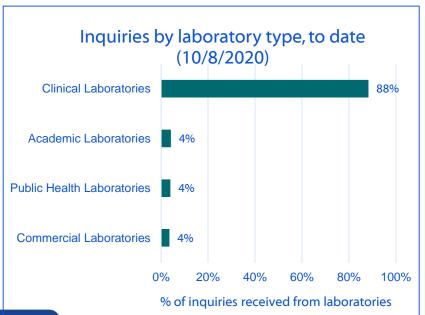


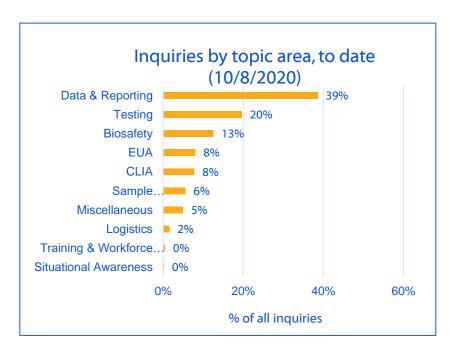
**+1,000** total questions



#### **COVID-19 Inquiries Received by DLS**

+800 inquiries since February

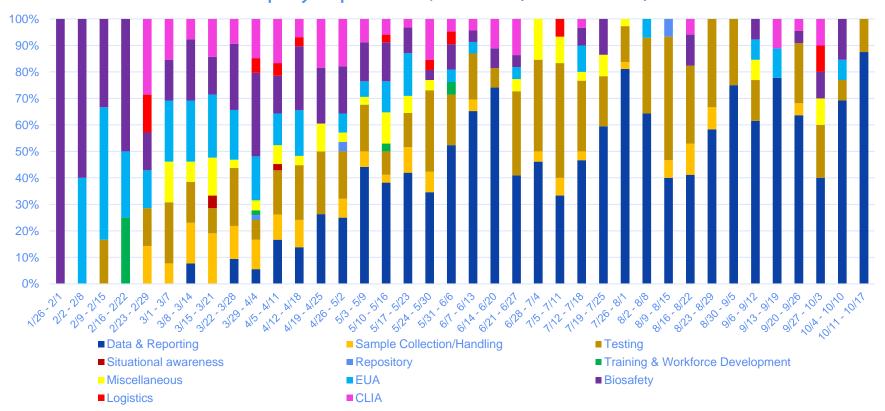






#### **COVID-19 Inquiries Received by DLS**

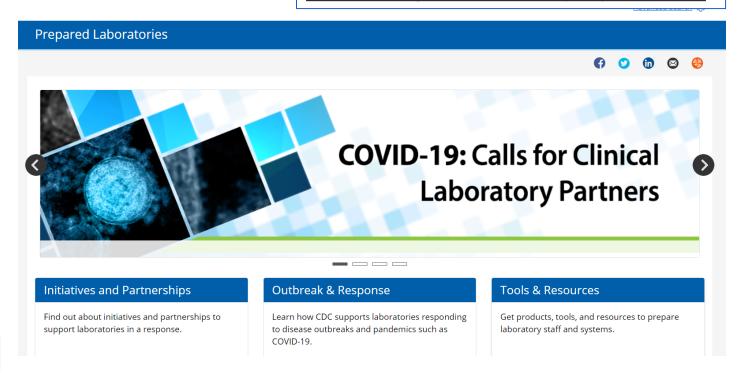
Inquiry topic areas, to date (10/17/2020)



#### **DLS COVID-19 Web Page**



www.cdc.gov/csels/dls/preparedlabs





## Policy



#### **Legislative Engagement**

- Testimony preparation
- Responses to Congressional inquiries
- Legislative technical assistance







#### **Information Sharing and Accountability**









## **CDC Laboratory Training Update**

Senia Wilkins, MPH
Branch Chief, Training Workforce and Development Branch, DLS



CDC just made it easier to find the right lab training course for you!





### **Now Live: Packing and Shipping Dangerous Goods**





Fundamentals of Personal Protective Equipment



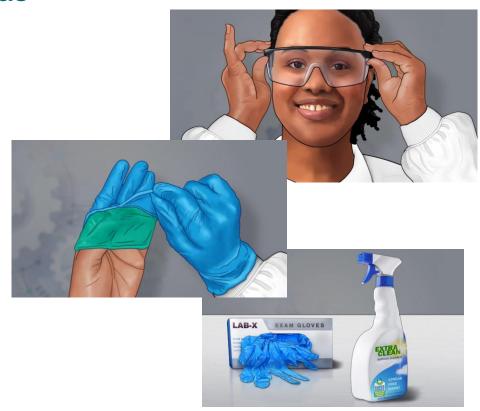


Fundamentals of Working Safely in a Biological Safety Cabinet



#### **COVID-19 Relevant Job Aids**

- Job aids posted on DLS Laboratory Training website
  - Brief videos
    - PPE
    - Flu SC2 Multiplex Assay
  - PDF and Word versions that laboratories can tailor





### **Available Now: Virtual Reality Laboratory Training**



### **CDC VR Laboratory Training Website**





#### **CDC Laboratory Training**



www.cdc.gov/labtraining/VR.html

VR@cdc.gov

#### **COMING SOON**





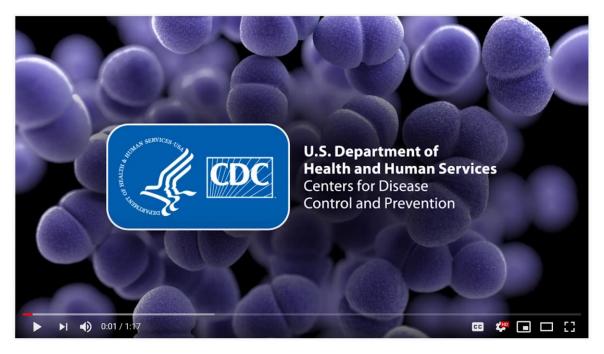
#### **NEW SCENARIOS & OBJECTIVES**



#### **EMERGENCY PROCEDURES**



#### **VIDEO DEMO (01:06)**





https://www.youtube.com/watch?v=Kmq\_cBn\_7Yk

#### **COMING SOON**





### **OneLab: A Unified Response to Training Needs**

- A new laboratory training network to strengthen the US laboratory systems' ability to rapidly and effectively respond to public health emergencies through:
  - Education
  - Training
  - Outreach
- Coming soon!





#### **SHARE YOUR TRAINING NEEDS**



E-mail LabTrainingNeeds@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.

