

Clinical Laboratory COVID-19 Response Call

Monday, November 15, 2021, at 3:00 PM EDT

- **Welcome**
 - Jasmine Chaitram, CDC Division of Laboratory Systems (DLS)
- **Introduction to Laboratory Risk Management (LRM) and Biological Risk Management for Point-of-Care Testing Sites**
 - Sabrina Debose, CDC Division of Laboratory Systems (DLS)
- **Laboratory Training: Virtual Reality (VR) and Syndication**
 - Joe Rothschild, CDC Division of Laboratory Systems (DLS)



Division of Laboratory Systems (DLS)

Vision

Exemplary laboratory science and practice advance clinical care, public health, and health equity.

Mission

Improve public health, patient outcomes, and health equity by advancing clinical and public health laboratory quality and safety, data and biorepository science, and workforce competency.



Four Goal Areas



Quality Laboratory Science

- Improve the quality and value of laboratory medicine and biorepository science for better health outcomes and public health surveillance



Highly Competent Laboratory Workforce

- Strengthen the laboratory workforce to support clinical and public health laboratory practice



Safe and Prepared Laboratories

- Enhance the safety and response capabilities of clinical and public health laboratories



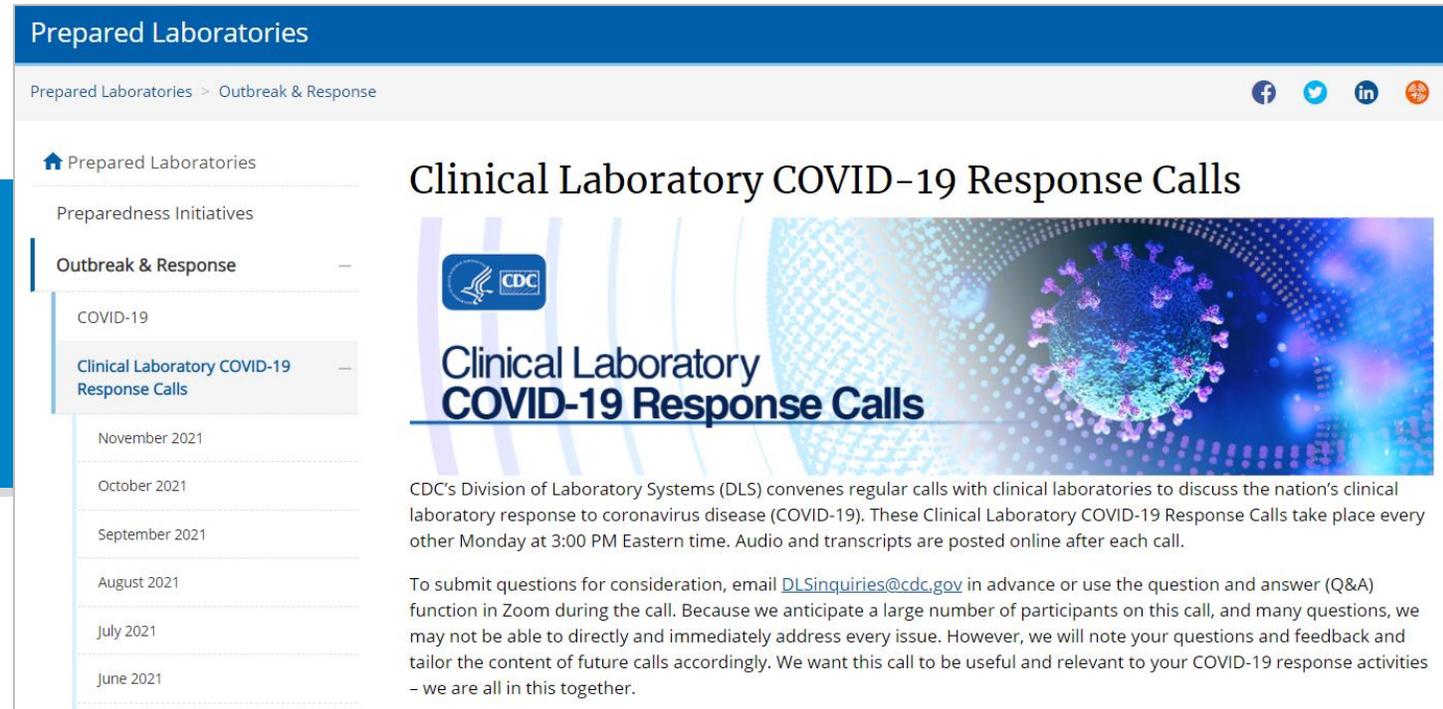
Accessible and Usable Laboratory Data

- Increase access and use of laboratory data to support response, surveillance, and patient care

CDC Preparedness Portal

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

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



The screenshot shows the 'Prepared Laboratories' section of the CDC website. The main heading is 'Clinical Laboratory COVID-19 Response Calls'. Below the heading is a CDC logo and a large image of a coronavirus particle. The text describes the purpose of the calls and provides contact information for submitting questions.

Prepared Laboratories

Prepared Laboratories > Outbreak & Response

Preparedness Initiatives

Outbreak & Response

COVID-19

Clinical Laboratory COVID-19 Response Calls

November 2021

October 2021

September 2021

August 2021

July 2021

June 2021

Clinical Laboratory COVID-19 Response Calls

 **Clinical Laboratory COVID-19 Response Calls**

CDC's Division of Laboratory Systems (DLS) convenes regular calls with clinical laboratories to discuss the nation's clinical laboratory response to coronavirus disease (COVID-19). These Clinical Laboratory COVID-19 Response Calls take place every other Monday at 3:00 PM Eastern time. Audio and transcripts are posted online after each call.

To submit questions for consideration, email DLInquiries@cdc.gov in advance or use the question and answer (Q&A) function in Zoom during the call. Because we anticipate a large number of participants on this call, and many questions, we may not be able to directly and immediately address every issue. However, we will note your questions and feedback and tailor the content of future calls accordingly. We want this call to be useful and relevant to your COVID-19 response activities – we are all in this together.

Next CLCR Call

The next call will be on **Monday, December 13**
from **3:00 PM to 4:00 PM ET**



We Want to Hear from You!

Training and Workforce Development

Questions about education and training?

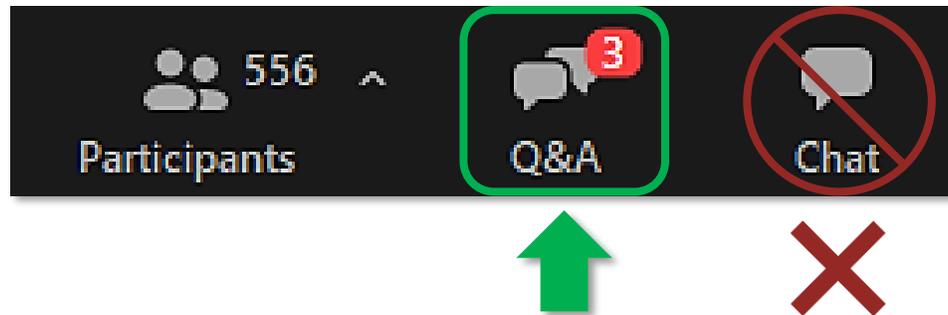
Contact LabTrainingNeeds@cdc.gov



How to Ask a Question

- **Using the Zoom 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



Slide decks may contain presentation material from panelists who are not affiliated with CDC. Presentation content from external panelists may not necessarily reflect CDC's official position on the topic(s) covered.

Introduction to Laboratory Risk Management (LRM) and Biological Risk Management for Point-of-Care Testing Sites

CDR Sabrina DeBose, DHSc, MS, RBP
CDC Division of Laboratory Systems (DLS)



Introduction to Laboratory Risk Management (LRM)

The screenshot displays the CDC Laboratory Training website interface. At the top, the header reads "CDC Laboratory Training" with social media icons for Facebook, Twitter, LinkedIn, and YouTube. A search bar is prominently featured with the text "Search CDC Laboratory Trainings" and a placeholder "Type a Keyword or Phrase". On the left side, a navigation menu includes links for "CDC Laboratory Training", "Virtual Reality Laboratory Training", "Create a Laboratory Training Account", "Get Laboratory Job Aids", "Syndicate eLearning Courses on Your LMS", "CDC OneLab", "External Training Links", and "FAQs". The main content area features a large banner for the "Introduction to Laboratory Risk Management (LRM)" course, which is labeled as "On-demand". The banner image shows a scientist in a lab coat and mask using a microscope, with a circular diagram on the right illustrating the LRM process: Performance Evaluation, Assessment, and Mitigation.

www.cdc.gov/labtraining/training-courses/Introduction-to-Laboratory-Risk-Management.html

Biological Risk Management for Point-of-Care Testing Sites

The screenshot shows the CDC Division of Laboratory Systems (DLS) website. The header is blue with the text "Division of Laboratory Systems (DLS)". Below the header, there are social media icons for Facebook, Twitter, LinkedIn, and YouTube. The main content area has a white background. On the left, there is a navigation menu with the following items: "DLS Home", "About Us", "LIVD Mapping Tool for SARS-CoV-2 Tests", "Strengthening Clinical Laboratories", "CDC's Laboratory Outreach Communication System (LOCS)", and "Laboratory Communicators' Network". The main content area features a large heading "Biological Risk Management for Point-of-Care Testing Sites" and a sub-heading "Point-of-Care Testing Staff Support Health and Reduce Risk". The text below the sub-heading reads: "As someone who delivers point-of-care (POC) testing, you help people understand their health status. You collect specimens that contain biological material, such as blood or saliva, from people to test and determine what is making them sick. The results from these tests can help the people you serve make informed decisions about what to do next. From the time you start each testing process until you finish, there are risks involved. Use this guidance to help make sure you reduce those risks as much as possible to keep you and your coworkers, patients, customers, family, and community safe and healthy while you perform POC tests. Learn how to evaluate and reduce risks using the information below; learn why risk assessment is important in your role [here](#)."

www.cdc.gov/csels/dls/point-of-care-testing.html

DLS New Laboratory Risk Assessment Resources

1) Introduction to Laboratory Risk Management (LRM)

www.cdc.gov/labtraining/training-courses/Introduction-to-Laboratory-Risk-Management.html

2) Biological Risk Management for Point-of-Care Testing Sites

<https://www.cdc.gov/csels/dls/point-of-care-testing.html>



Questions?



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

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Use of trade names is for identification only and does not imply endorsement by U.S. Centers for Disease Control and Prevention.

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

Laboratory Training: Virtual Reality (VR) and Syndication

Joe Rothschild, Health Communication Specialist
Training and Workforce Development Branch
Division of Laboratory Systems



Timeline of DLS VR Training Development

2019

- Began developing VR training
- Pilot-tested VR training with internal staff

2020

- Released CDC's first VR laboratory training course, LabTrainingVR: Biosafety Cabinet Edition

2021

- Released new VR training course focused on PPE
- Developed multiplayer VR programming
- Created proof-of-concept for LabTrainingVR: OneLab Edition – a virtual, multiplayer environment

2022

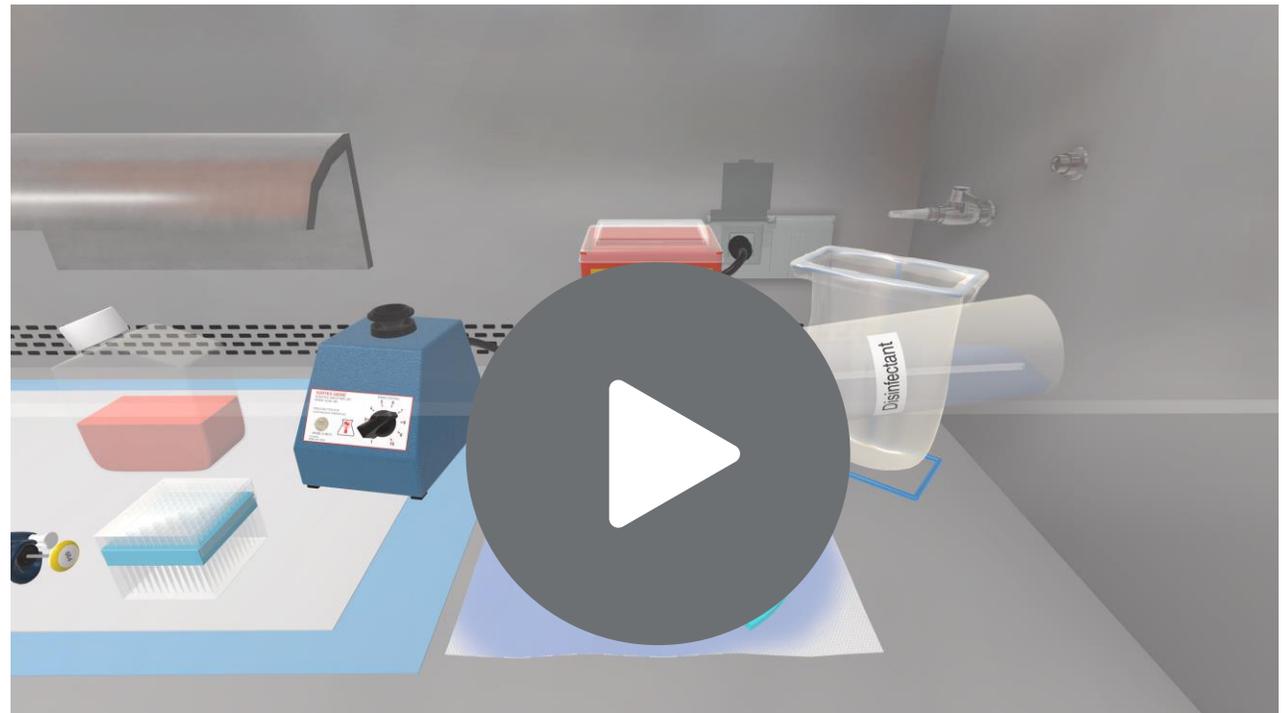
- VR-ready laboratories (“pushpack” program)
- Topic-specific, multiplayer laboratory training



LabTrainingVR: Biosafety Cabinet Edition



https://www.cdc.gov/labtraining/training-courses/vr/labtrainingVR_BSC.html

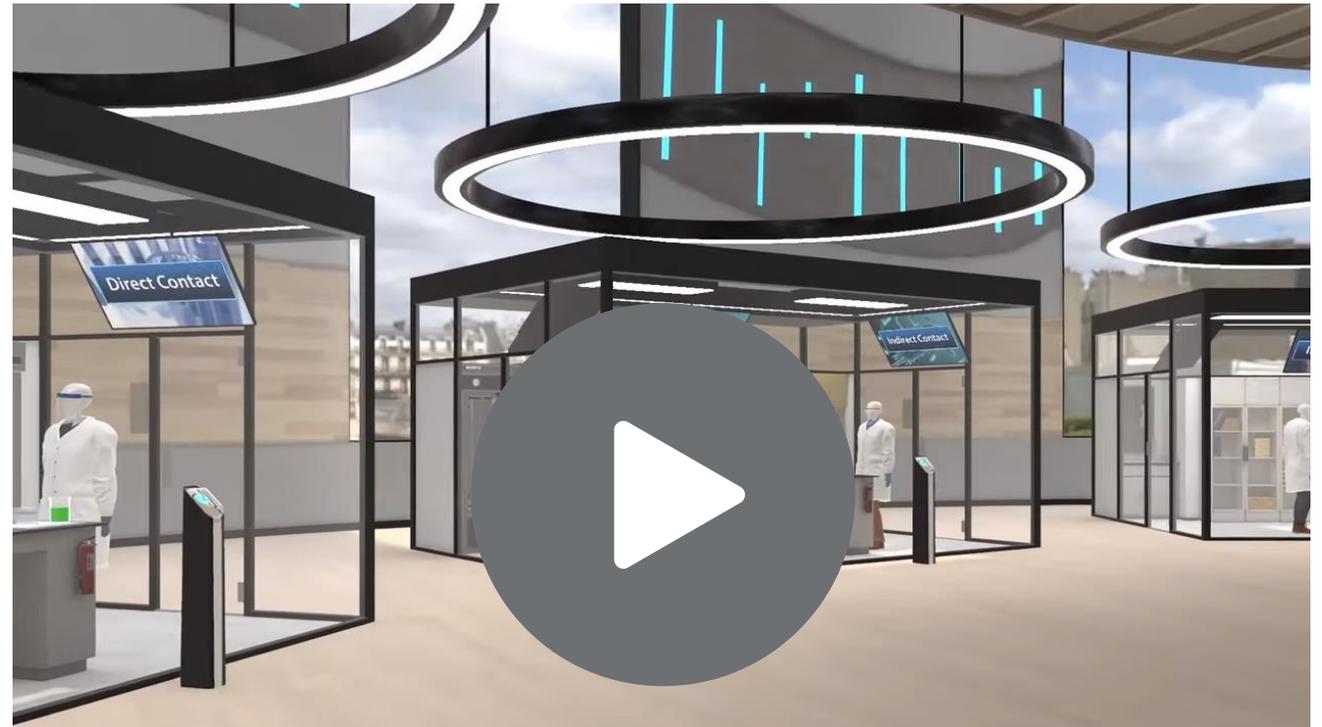


<https://www.youtube.com/watch?v=m92OQCAvQcs>

LabTrainingVR: PPE Edition



https://www.cdc.gov/labtraining/training-courses/vr/labtrainingVR_PPE.html



https://www.youtube.com/watch?v=FuX9_cNrZ0w

LabTraining VR: OneLab Edition

- 50,000+ square feet of laboratory space
- 100+ custom-built pieces of laboratory equipment including:
 - Rotary microtome, tissue processor
 - Dark field microscope
 - Incubators, refrigerators, freezers
 - Hematology analyzers, chloridometers
 - Centrifuges, microfuges
 - Biosafety cabinets / fume hoods
 - Chemistry analyzers
 - Microbial identification systems



VR-ready Laboratories

- **2022 goal:** 40 VR-ready laboratories (~20 clinical, ~20 public health)
- Sites will receive an all-in-one case with:
 - VR-ready laptop
 - HTC Vive Cosmos Elite VR hardware
 - Headset, controllers, sensors, cables, stands, and cords
 - Training and cleaning supplies
 - Job aids (handouts and video) to assist with setup



Laboratory Training eLearning Syndication

- CDC's Laboratory eLearning Course Syndication Program
- Any updates that CDC makes to the laboratory eLearning course will automatically be reflected in the version syndicated on your learning management system
- www.cdc.gov/labtraining/syndication.html

Laboratory Training eLearning Syndication

CDC DIVISION OF LABORATORY SYSTEMS

Laboratory eLearning Syndication
Get CDC courses on your own Learning Management System



Do you want to add CDC's eLearning courses for laboratory professionals and students to your own Learning Management System (LMS)?

Participate in CDC's Laboratory eLearning Course Syndication Program

Expand your training resources by adding CDC's laboratory eLearning courses to your organization's LMS. Your LMS can track learners' progress and generate certificates of completion just like they do for your existing courses. Learn more about syndication below and contact us at labtraining@cdc.gov for more information about the pilot program.

How Syndication Works

When you request syndication, you will receive instructions for your LMS developer that include small digital files or a link to load onto your LMS, as well as a course listing document. The course you select will be uploaded onto your LMS, just like any other eLearning course. You will add the name and description provided in the course listing document, and any other details you typically include. Once uploaded, this small file will pull and display the latest version of the respective CDC laboratory eLearning course whenever a user on your LMS launches it. Your learners will always have

eLearning Syndication Information Request

Contact us for more information.



Interested in sharing our training courses with your learners?
Email labtraining@cdc.gov for more information.

CDC VR Laboratory Training Website

CDC Laboratory Training

CDC > CDC Laboratory Training



 CDC Laboratory Training

Virtual Reality Laboratory Training

Virtual Reality Laboratory Training Partner Toolkit

External Training Links

FAQs

Continuing Education Units (CEU)

About Us

Contact Us

Virtual Reality Laboratory Training

Public health emergencies demand the availability of diverse and effective distance-based education and training options for public health and clinical laboratory professionals. To keep pace with the evolving training needs, DLS has blended innovative technology and instructional design principles by adding Virtual Reality, or VR, to its laboratory training and workforce development toolbox.

VR offers laboratory professionals the opportunity to apply, assess, and improve their skills in a safe and controlled learning environment. In other words, VR simulations allow learners to make costly mistakes while learning new skills with no real-world consequences.



 [View Transcript](#)  [Low Resolution Video](#)

www.cdc.gov/labtraining/VR.html



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CDC Social Media

<https://www.facebook.com/CDC>



<https://twitter.com/cdcgov>

<https://www.instagram.com/cdcgov>



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

Thank You For Your Time!

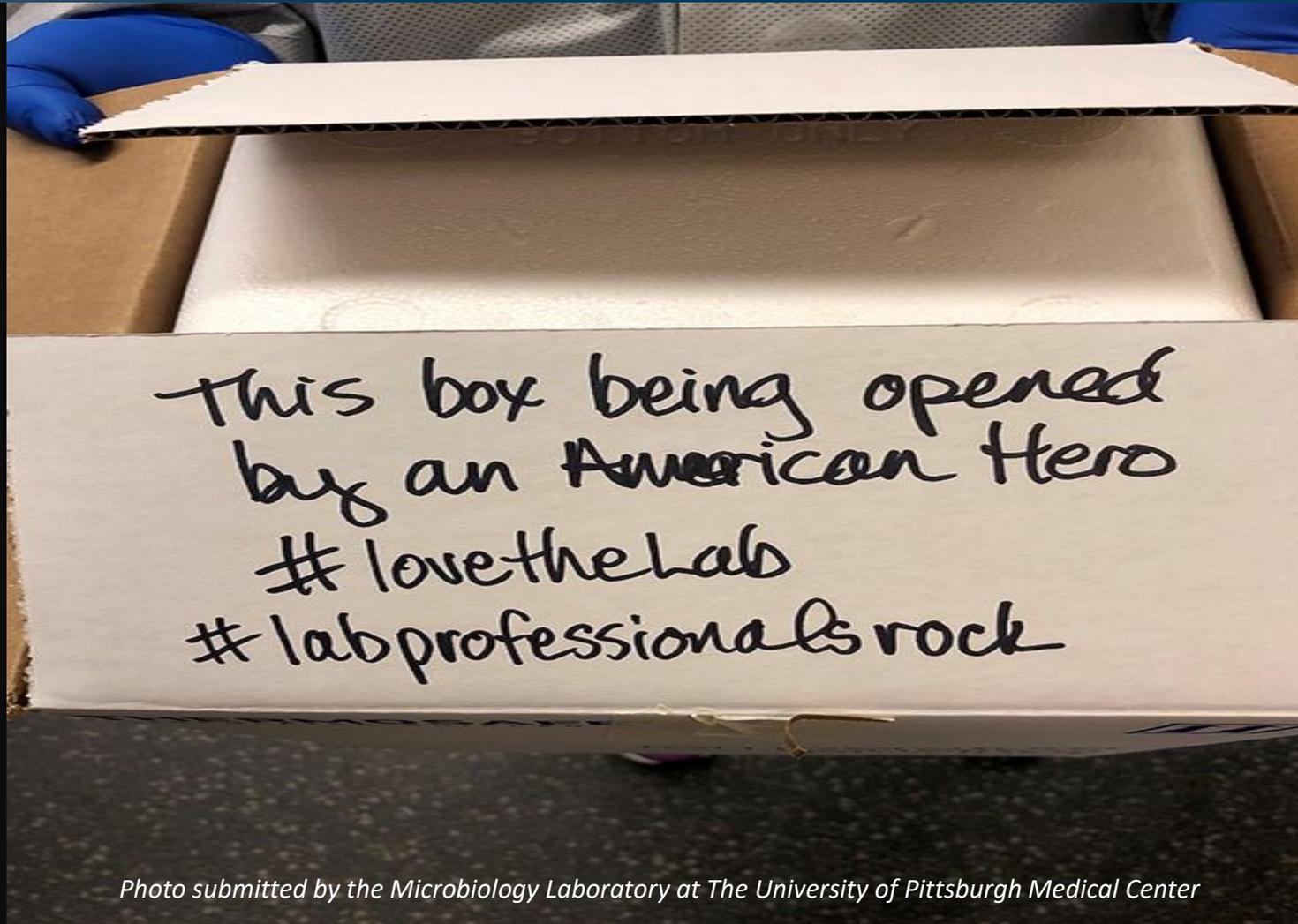


Photo submitted by the Microbiology Laboratory at The University of Pittsburgh Medical Center