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

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](mailto:media@cdc.gov)
- If you are a patient, please direct any questions to your healthcare provider
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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)
Biological Risk Management for Point-of-Care Testing Sites

Point-of-Care Testing Staff Support Health and Reduce Risk

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
1) Introduction to Laboratory Risk Management (LRM)

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)

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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
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.

www.cdc.gov/labtraining/VR.html
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Thank You For Your Time!

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

This box being opened by an American Hero
# love the Lab
# lab professionals rock