



MHA Clinical and Operational Update

April 21, 2020





Battelle CCDS Critical Care Decontamination System™

Enrollment, Process, Information

Thank you for your interest in the [Battelle CCDS Critical Care Decontamination System](#).^{TM1}

The Battelle CCDSTM is grounded on a study Battelle completed for the FDA in 2016 in the event of a pandemic.

Battelle received an [FDA Emergency Use Authorization](#) (EUA) for the Battelle CCDSTM and we are now standing up decontamination sites across the United States.

This guide is designed to help you understand the process from CCDS enrollment to receiving your decontaminated N95.

Questions? Please visit our website: www.battelle.org/N95 or reach out to your Battelle point-of-contact (POC).

About Battelle CCDS™

Battelle CCDS™ - The Mission to Help

- **2016 FDA study:** Proves Vapor Phase Hydrogen Peroxide (VPHP) process to decontaminate N95 respirators is effective in the event of a pandemic
 - [FDA Report on Decontamination and Reuse of N95 Respirators](#)
- **January 2020:** Battelle scientists begin research on the novel coronavirus (SARS-CoV-2)
- **March 6-22:** Battelle builds the first CCDS system, tests validity, proves capacity effectiveness on thousands of N95 per cycle
 - [Critical Care Decontamination System Tech Summary](#)



Testing Run Cycles

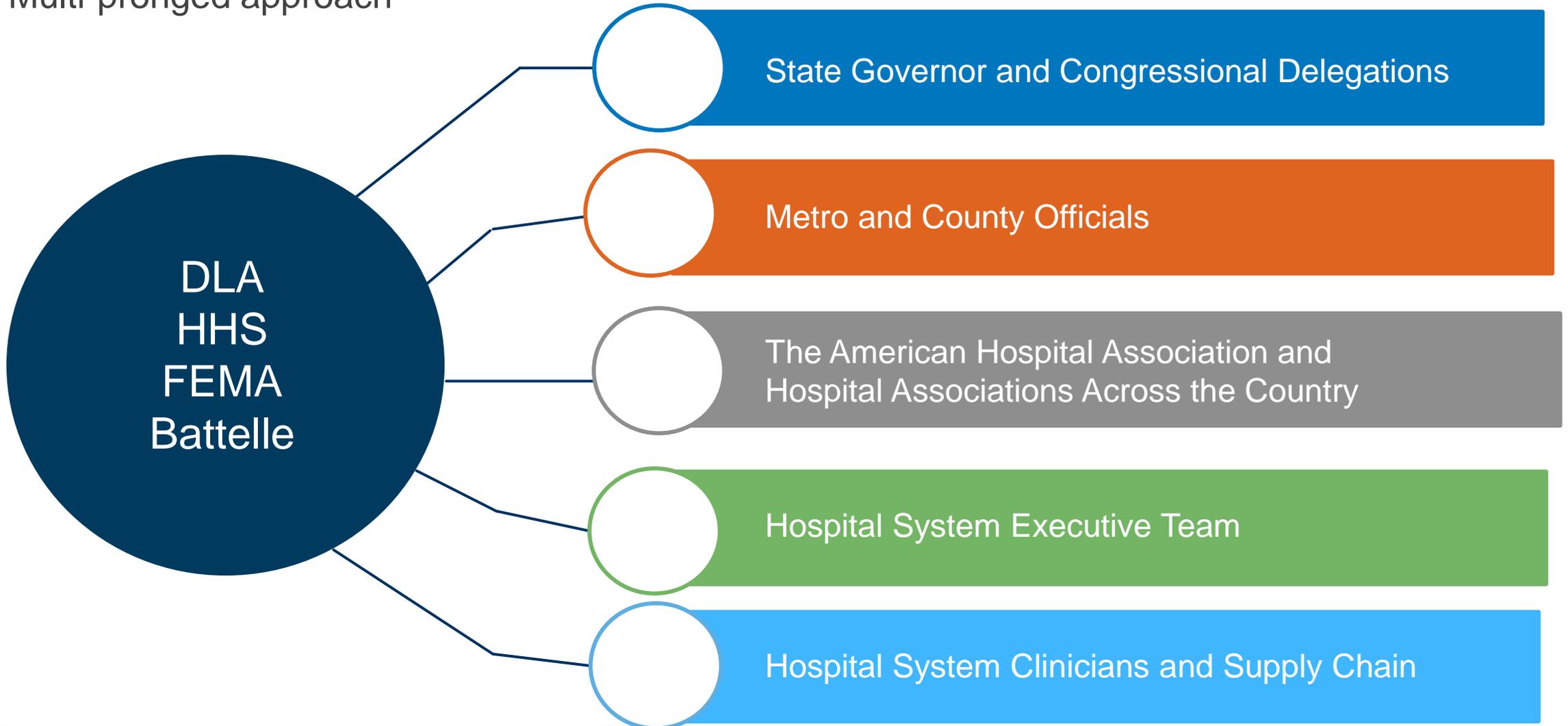
Zero Cost and Scaling Up Across the U.S.

- **March 29:** Awarded [FDA EUA](#) to decontaminate N95 respirators up to 20 times for each mask and deployment across the U.S.
- **April 9:** Federal Government contract awarded
 - Zero cost to healthcare providers
 - Rapid scale and deployment of 60 CCDS systems to regions across the U.S.



CCDS: Communication

Multi-pronged approach



Enrollment and CCDS Process

Battelle CCDS™¹ Process

HEALTH CARE PROVIDER SIGN-UP PROCESS Battelle CCDS Critical Care Decontamination System™

BATTELLE



CCDS: Fast Facts

- The Battelle Critical Care Decontamination System™ is a self-contained, mobile decontamination system that uses vapor phase hydrogen peroxide (VPHP) to decontaminate N95 respirator masks
- The Battelle CCDS™ decontamination cycle successfully generates a micro-condensation through the dwell phase and provide > 6-log reduction as indicated by collocated chemical indicator.
- Battelle CCDS™ renders SARS-CoV-2 non-infectious on N95 respirators and enables up to 20 reuses without degrading filter performance to help address the current U.S. PPE shortage
- Battelle CCDS™ is effective against both viral and bacterial agents. Battelle tested VPHP decontamination efficacy against SARS-CoV-2 in our Bio Safety Level 3 (BSL 3) laboratories.
- Battelle is the largest, private, non-profit research and development organization in the world.

CCDS: PPE Collection

Detailed information on the N95 collection process and how to prep your N95s are included in instructions when you enroll.

- Your organization should create a collection station at the point of generation (i.e. hospital floor/unit)
- Each station should have a large plastic bag placed in a rigid container provided by the healthcare facility to collect compatible N95 respirators
- Bags are for compatible N95 respirators only. Do not throw other personal protective equipment (such as gloves), paper towels, or waste in the collection bag

Important bagging tip: Bag N95s in large plastic bags. Double bag. Wipe the outside with disinfectant. Place in a shipping box labeled with a bio-hazard label.

Visit our FAQ page for more information: www.battelle.org/N95 or contact your Battelle point-of-contact (POC) directly.

CCDS: PPE Labelling

3-Digit Site Code

- Your 3-digit site code is hospital site specific and assigned by your Battelle POC
- Each N95 respirator and the outside of each shipping box must be labeled with the 3-digit site code
- Healthcare Systems adds 2-digits with additional identifying information (i.e. floor, department)
- Each healthcare system receives their own decontaminated N95 back.

Important tip: All N95s must be labeled correctly and be free of **blood, mucus, makeup** etc.



CCDS: FAQs

Q: Does each system get its own N-95 respirators back?

A: Yes. Each N95 respirator and external shipping box is labeled with a 3-digit site specific hospital code that is assigned by Battelle

- Healthcare systems may add 2-digits with additional identifying information (i.e. floor, department) – this is at the discretion of healthcare systems
- The number of decontamination cycles is marked by Battelle on each N95 to track the decon cycles of each respirator

Q: Can we get our own personal N95 back

A: That is at the discretion of your hospital system. Some hospital systems are asking staff to initial their N95 masks after the 2-digit numbers they are using (e.g. unit/floor), and are coordinating the return of personal N95s to their staff.

Q: Is Battelle planning to decontaminate other types of PPE?

A: We are currently researching several other PPE items in our research chamber in Ohio (ventilator parts, face shields and others).



Questions?
Visit our FAQ page for more information:
www.battelle.org/N95



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It can be done

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