**Frontline Healthcare Personnel**

“Having access to appropriate PPE consistently is a huge relief,” Bhullar says. “I have a six-year-old and a nine-month old at home. Knowing that I have access to the tools I need to stay safe for myself, for my patients, and for my family—I’m certainly very grateful for all of that.”

**Dr. Simi Bhullar | Riverside Methodist Hospital, Ohio**

“It’s actually better for me than taking a brand new one out of the box because I’ve already molded it to my face. It’s like it was custom-made for me. I feel confident using it,” said Mattola-Kiatos. “I wear glasses, and for me this is my biggest test. If my glasses fog up, that means I’m not wearing the mask correctly. I put it right on my face, and I knew it fit.”

**Melissa Mattola-Kiatos | Nurse at Massachusetts General Hospital**

“For our employees to come to work knowing that they have the PPE they need, that they’ll continue to have the PPE that they need, they know that we’re looking out for their best interests and protecting them so they can take the best care of patients, it allows them to be solely focused on our mission.”

**Jeff Fishel | Delaware County EMS Director**
Format for today’s webinar

• Overview
• Enrollment
• Labeling
• Packing
• Shipping
• Return
Battelle CCDS™ Process

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

1. Sign up with Battelle
   - Visit [battelle.org/decon](http://battelle.org/decon) to fill out the enrollment form
   - Battelle emails enrollee link to the enrollment contract, instructions, and the Battelle POC.

2. Contact Us to Get Your Code
   - Enrollee signs contract and contacts Battelle POC to receive their 3-digit codes for each facility.

3. Property Label Respirators
   - Once the 3-digit codes are received from Battelle, enrollee collects N95 respirators.
   - N95 respirators must be unsold (free of blood, mucus, make-up, lip balm, etc.) and labeled with a permanent marker.

4. Collect & Bag All N95 Respirators
   - Enrollee collects all N95 respirators into a single 3 mil plastic bag with a biohazard label.
   - Once the plastic bag is filled, tie off the bag and put it into another 3 mil plastic bag with a biohazard label.

5. Property Package
   - Clean the outside bag with disinfectant.
   - Place a copy of the Chain of Custody Form inside the box and a separate copy outside of the box.
   - Shipping box must be labeled with the 3-digit code and a UN3373 label.

6. Ship to CCDS Site
   - Enrollee contacts their chosen logistics provider to coordinate pick-up and delivery of their N95 respirators.
   - Enrollee can either use a logistics provider of their choice or Battelle’s preferred logistics provider.

7. Decontaminated & Returned
   - Your shipments are barcoded to ensure chain of custody.
   - Your N95 respirators are processed and then verified to ensure they are free of decontaminant.
   - Your decontaminated N95 respirators are returned to your facility.
STEP 1: Sign up with Battelle

Most of today’s participants likely have a site code.

For questions about enrollment contact ccdscustomerservice@battelle.org.
STEP 2: Get Site Code

Example: Large Contract with several Site POCs

```
Contract (Point of Contact)
  Site (POC 1) ABC
  Site (POC 2) DEF
  Site (POC 3) GHI
```

Example: One office/one site POC

```
Contract (Point of Contact)
  Site POC GHI
```

- Receive an email with 3-digit site codes for each facility
STEP 3: Properly Label Respirators

• Label each mask with 3-digit site code

What is my Site Location ID? Site location ID is optional!
Labeling

Each healthcare system receives their own decontaminated masks back.

3-Digit Site Code
- Your 3-digit site code is site specific and assigned by your Battelle POC.

2-Digit Site Location ID: (Optional)
- Site location ID determined by HCP to get masks to a floor, unit, or wing

Employee Name/Badge (Optional)
- Some facilities return masks to the same people each time—names, initials, badge numbers all okay!
STEP 4: Collect and Bag

- Bag N95s in a large plastic bag labeled with a biohazard label.
- Double bag it into another plastic bag labeled with a biohazard label.
- Wipe the outside with disinfectant.
Collection Tips!

• Create a collection station at the point of generation (i.e. hospital floor/unit)
• Each station should have a large plastic bag with a biohazard label 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
STEP 5: Package

• Sturdy Cardboard Box
• Chain of Custody forms (one inside, one outside)
• Place in a shipping box labeled with a UN3373 label for shipping.
• 3-digit site code
STEP 6: Ship

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*Required Fields

**Turnaround Time:** Plan on ~72 hours from the time we receive your masks, plus an additional day for return shipping.
FAQs
What kind of masks are accepted?

• Refer to Battelle’s N95 Guidance Document for a list of approved FFRs for decontamination. This list is not exhaustive. If you have questions about your respirator type, please call the manufacturer directly.

• Compatible FFRs include NIOSH-approved N95 and non-NIOSH-approved respirators that:
  • Do not have exhalation valves,
  • Do not contain cellulose-based materials, and
  • Do not contain activated carbon
Important! All N95s must be labeled correctly and be free of blood, mucus, makeup/cosmetics.
Soiled Masks will be discarded!

Makeup is the No.1 reason for masks to be discarded.
Why are masks are discarded?

- Soiled
- Incompatible/Not-approved
- Damaged
CCDS: Process FAQs

Q: What is the turnaround time for healthcare providers to get their N95s back?

A: Plan on ~72 hours from the time we receive your masks, plus an additional day for return shipping.

Q: Why are masks discarded and how would a provider know if their masks were discarded?

A: N95s are discarded when they are damaged or soiled from blood, bodily fluids, or makeup. Return shipping document provides additional detail on discards/number of masks processed.
CCDS: Safety and Efficacy FAQs

Q: Is there FDA oversight on how the Battelle process is used?

A: Yes. Oversight from the FDA is an integral part of retaining the emergency use authorization. Health care workers can and do submit questions and concerns through a portal at FDA and Battelle must formally respond to these. There are also contractual requirements governing how the Battelle process is used, with a large oversight aspect.

Q: Is there real-world data being collected for this process?

A: Yes. To date, Battelle has decontaminated thousands of N95s, with multiple N95s coming back after multiple uses. Some health care providers have asked Battelle to test samples after repeated usage, with results shared with the providers.
Battelle CCDS™ - The Mission to Help

• 2016 FDA study proved that 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](#)

• Battelle built the first CCDS system, tested validity, proved capacity effectiveness on thousands of N95 per cycle
  • [Critical Care Decontamination System Tech Summary](#)

• [FDA EUA](#) was awarded to decontaminate N95 respirators up to 20 times

• R&D and testing were conducted using the SARs-COV-2 virus in our Bio Safety Level 3 (BSL 3) laboratories, and testing continues on various types of PPE
CCDScustomerservice@battelle.org
614-424-4373 Customer Service

614-753-3325 CCDS HI Site Phone

Background
Background

Thank you for your interest in the Battelle CCDS Critical Care Decontamination System.™

• The Battelle CCDS™ is grounded on a study Battelle completed for the FDA in 2016 in the event of a pandemic. In 2020, the Battelle CCDS VPHP process was validated to effectively decontaminate FFRs of SARS-CoV-2 and other pathogens.

• Battelle has received Emergency Use Authorization (EUA) from the FDA to decontaminate masks during the COVID-19 pandemic.
CCDS: Technical 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 indicators.

• 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 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