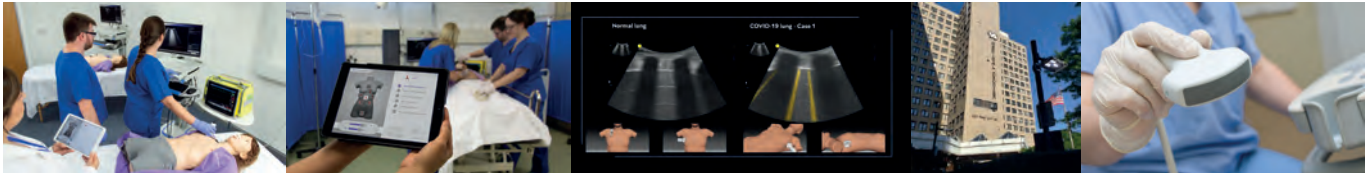


# Case Study



## BodyWorks Eve COVID-19 module used to train front line clinicians in NYC

*Dr. Brian Kaufman, Professor of Anesthesiology, Medicine, Neurology and Neurosurgery at NYU Grossman School of Medicine and Director of the simulation laboratory at VA NY Harbor Healthcare in Manhattan, reflects on his institution's use of simulation-based training to help prepare clinicians to rapidly acquire and practice lung ultrasound skills.*

Facing the global COVID-19 pandemic and a mounting number of patients in need of proper diagnosis, the Veteran's Administration NY Harbor Healthcare Simulation Center recently introduced critical care simulation-based training sessions utilizing their BodyWorks Eve PoCUS simulator with newly installed COVID-19 lung module. Initiated on March 19, these three-hour sessions have prepared non critical care health care providers for roles as bedside ICU providers, under the supervision of an intensivist.

Dr. Kaufman explained the situation, "As all the hospitals in the NYU Langone Health system and major affiliates including the Manhattan campus of the NY Harbor Healthcare Center and Bellevue Hospital were being deluged

with COVID-19 patients requiring ICU admission and care, there was an overwhelming need for rapid expansion of ICU beds, and providers to care for these patients. These needs were exacerbated when some of our usual ICU clinical providers needed to be removed from the workforce due to the need to quarantine."

The simulation sessions have been made available to all providers scheduled to begin working in the rapidly expanding COVID-19 intensive care units, with no more than six participants scheduled for each three-hour session. The hospital has relied on participants from various departments including Medicine, Surgery, Anesthesiology, Pediatrics (who are now responsible for ICU care up to age 32), and Acute Care nurse practitioners and physician assistants. Dr. Kaufman noted, "As of April 16, we have up-trained a total of 149 participants.



*"We discuss how we try to limit conventional radiographic studies and CT scans in these patients and heavily rely on ultrasound. We then go to the BodyWorks Eve ultrasound simulator and go through the COVID-19 pathologies that have been recently released."*

*“Having these COVID-19 specific cases available on the BodyWorks Eve ultrasound simulator in the early days of the pandemic has had a significant effect on our ability to quickly train clinicians on lung ultrasound in order to provide better patient care.”*

The main objectives of the training are to improve the knowledge and comfort level of the participants.”

The training is an entirely new skillset for some of the providers and focuses in part on:

- Use of lung ultrasonography to determine if lung sliding is present or absent using both 2D mode and M mode.
- Use of lung ultrasonography to evaluate for the presence of A-lines and/or B-lines.

Dr. Kaufman mentioned, “We discuss how we try to limit conventional radiographic studies and CT scans in these patients and heavily rely on ultrasound. We then go to the BodyWorks Eve ultrasound simulator and go through the COVID-19 pathologies that have been recently released.

I have found them to be extremely useful, and at this point, the learners can compare normal pleural findings and A-lines seen in the first case, to pleural thickening with patchy areas of A-lines with B-lines, to diffuse B-lines and ending up with confluent B-lines. We discuss that you can monitor the progression of the lung disease with bedside sonography, avoiding the need for radiographic studies in many cases.”

“Having these COVID-19 specific cases available on the BodyWorks Eve ultrasound simulator in the early days of the pandemic has had a significant effect on our ability to quickly train clinicians on lung ultrasound in order to provide better patient care,” says Dr. Kaufman.

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To find out more about how BodyWorks Eve could help your trainees learn faster and learn better get in touch today.

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