



UVENT TRAINING SIMULATOR — experience of making right decisions without any risks for patient safety

- ◆ Interactive patient model configuration
- ◆ Compliance and resistance parameters customization
- ◆ Setting up the intensity of spontaneous breathing efforts
- ◆ Working out the real clinical situations
- ◆ UVENT-S ventilator-identical graphical user interface
- ◆ Displaying the SpO_2 , CO_2 and breathing mechanics data
- ◆ Blood gases feedback simulation

Powerful Teaching Tool for Anesthesiologist

Critical care medicine (CCM) specialists face emergencies every day and are required to make decisions in a short span of time. Physicians may require years of experience in order to be competent in handling such situations. This process poses a real challenge for CCM physicians undergoing training¹. But if we were patients, would we want a physician's first ever procedure to be on us? So that is where simulation comes into play.

The reviews have shown that medical simulation is effective for the acquisition of skills and to encourage better care of patients². And exactly such an opportunity — to learn without any risks for patients safety — provides UVENT Training Simulator.



Confident Decisions, Even in Critical Situations

To restore the most spread clinical situations in the UVENT Training Simulator you can specify parameters of a virtual patient: biometrics, demographics, compliance, airways resistance and the patient's effort model. In the application clinicians can configure the patient profile, specify the connection type and mode, as well as the basic ventilation parameters right as in a UVENT-S ICU ventilator.

And the most important — the ability to see the impact of your decisions and adjusted parameters on the patient's interactive model and vital signs changes in the real time.

Features of the UVENT Training Simulator



- ◆ The practice of using different ventilation modes on an active patient
- ◆ Indication of the patient's condition: Normal, COPD, ARDS, Astma, or custom
- ◆ Choosing optimal parameters for better synchronization
- ◆ Working with the newest intelligent ventilation modes
- ◆ Patient parameters setting up: category, weight, height, age, gender
- ◆ Working with IBW parameter (Ideal Body Weight), which affects the volume and frequency
- ◆ Using the full range of UVENT-S ventilation modes, maneuvers, tools
- ◆ Blood gases feedback simulation
- ◆ Working with alarm limits for different ventilation and monitoring parameters
- ◆ The ability to use skills learned with the simulator on a real UVENT-S ICU ventilator
- ◆ Trying different connection interfaces: NIV (mask, cannula or helmet) and invasive (endotracheal or tracheostomy tubes)

U can save the life®

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1. Maneesha Bangar; Carla Venegas-Borsellino; Lewis A. Eisen. Access Medicine. Critical Care. Chapter 75: Simulation and Education in the ICU. ©2021 McGraw Hill.
2. A Critical Review of Mechanical Ventilation Virtual Simulators: Is It Time to Use Them? Juliana Arcanjo Lino, PT, MSc., Gabriela Carvalho Gomes, PT, MSc, Nancy Delma Silva Vega Canjura Sousa, PT, BSc, Andrea K Carvalho, PT, PhD, Marcelo Emanuel Bezerra Diniz, BSc, Antonio Brazil Viana Junior, PStat, BSc, and Marcelo Alcantara Holanda, MD, PhD. JMIR Med Educ. 2016 Jan-Jun; 2(1): e8. Published online 2016 Jun 14. DOI: 10.2196/mededu.5350