

TestChest ICU Adult Autonomous Lung Simulators



TestChest[®] from neosim has been designed to simulate the human respiratory system and heart for the purposes of training and teaching. It can be used as an autonomous skill training station or can be incorporated into a full-scale patient simulator.

Video Credit: neosim

Works with all ventilators

It is possible to connect TestChest[®] to any type of ventilator for mask ventilation and intubated patients. Recruitment, pressure-volume maneuvers, PEEP adjustment, expiratory trigger sensitivity, volume control, assist control, pressure control, PAV, SIMV, adjustment, ASV, PRVC, CPAP, PSV, APRV, Intellivent, and all other modalities are possible.



Image Credit: AQAI GmbH

Creates outcome

Whatever the users set as a patient, the treatment result offered by the student will show on arterial oxygen saturation, lung volume, airway pressures, end-tidal CO₂, and more. The result is not made by the operator but by the interaction between TestChest® and student, reproducibly and in real time.

It is possible to ensure new forms of interactive learning: submit the same case to different students and let them compete on outcome in a safe environment.



Image Credit: neosim

Operator control panel

The basic operator panel offers the selection of the pre-configured patients and the degree of breathing activity. Modifications from ARDS to airway obstruction and all concomitant physiological modifications can be performed with just a click of the button. Instantaneous activity can be added if required, for example, putting a patient to sleep or waking them up.

Users can easily extend the choice of patients and program their own patient library by just clicking on "More" (password protected). Additional information

is offered in the Operator's Manual. The BasicSoftware was developed by AQAI GmbH, Mainz, Germany; TestChest® and the Organis logo are registered trademarks of Organis GmbH, Landquart, Switzerland.



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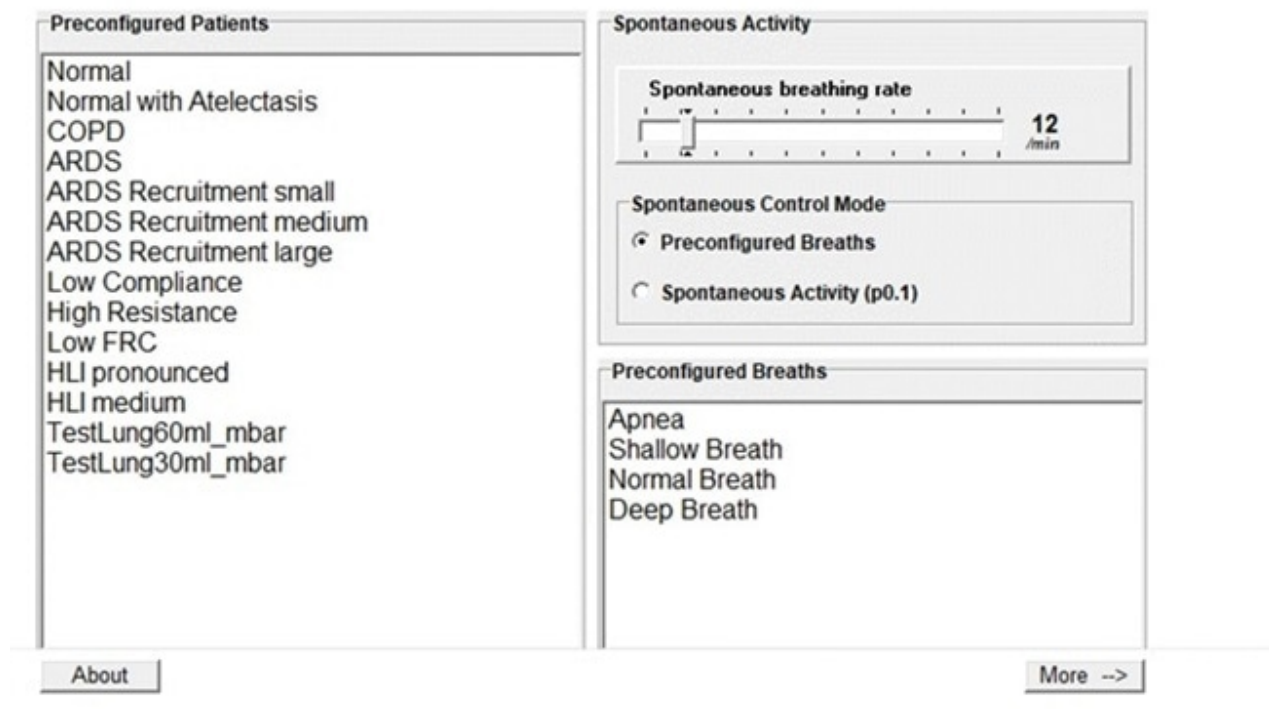
Welcome to TestChest^(R)

Image Credit: neosim

Robust design

Two rubber bellows housed in a metal sheet enclosure are powered by a linear motor that can generate pressures higher than 100 mbar. The lung assembly is guided by two steel rods and driven by two separate power supply modules. Swiss Quality reliability and ultra-low maintenance secure the investment of users.



Image Credit: neosim

Compatible with full-size mannequins

TestChest[®] changes any existing mannequin into a physiological lung simulator, thanks to an airway opening that can be fitted to any single head device or mannequin. Users can utilize the combined features of mannequins and the excellent physiology of TestChest[®].



Image Credit: neosim

Available in Europe, Asia and North America

TestChest® is available from neosim AG based in Chur, Switzerland, Trinity Trading Company Limited based in Hongkong, and Hudson Medical Services based in New York, USA.

About neosim AG



neosim is a Swiss company founded by experts with strong background in lung physiology and mechanical ventilation of intensive care patients. The mission of neosim is to bring high-fidelity physiology and pathophysiology to the patient simulator community.

For training and education of clinicians, especially respiratory therapists and intensive care professionals, neosim simulators create realistic breathing in health and disease. In contrast to other simulators, neosim's simulators can be treated with intensive care therapy methods and responds like a real human patient. The result manifests itself clinically and can be measured quantitatively with state-of-the-art monitoring in real-time.

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