



Swisstom inside

Landquart, May 26, 2014

Heinen + Löwenstein shows internationally the world's first fully integrated EIT system at the ESA in Stockholm

The elisa 800^{VT} ventilator opens up previously unattainable lung monitoring options and allows for setting optimized ventilation strategies for each patient's individual ventilation needs.

With the combination of the latest EIT technology of our young Swiss company and the modern SALVIA intensive care ventilator, electrical impedance tomography is leaving its research stages far behind. While poor signal quality, ill-defined image creation, restrictive electrode belts, or failing electrodes during patient positioning prevented the clinical use of this promising monitoring modality to the present date, the advent of modern EIT chips wrapped in a textile garment allows for simple and reliable assessment of pulmonary function and immediate therapeutic actions.

Linking the measuring values of an intensive care ventilator with those of electrical impedance tomography provides new insights for implementing lung-protective ventilation strategies. Accordingly, this reduces complications as well as ICU length of stay to benefit the patient. Integrated, non-invasive lung monitoring offers versatile options for monitoring ventilated patients and for choosing differentiated ventilation strategies. This in turn reduces costly intra-hospital transports of ventilated patients to radiology depart-

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ments and makes real time lung monitoring available at the bedside without radiation exposure.

We are pleased to demonstrate to you in person the elisa 800^{VIT} at the Heinen + Löwenstein exhibition stand B10:10.

Heinen + Löwenstein is a leading global provider of medical technology. The group specializes in patient care for sleep-related respiratory disorders and the associated sleep diagnostics as well as the development and distribution of medical devices for the areas of anesthesia, neonatology, and intensive care ventilation.

SALVIA medical has developed and produced practical solutions for respiratory therapy and intensive care ventilation for virtually all major manufacturers for more than 50 years. SALVIA is one of the world's leading technology providers in this field. The technology portfolio includes all current ventilation methods and devices for all application types.



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Swisstom AG

Swisstom AG, located in Landquart, Switzerland, develops and manufactures innovative medical devices. Our new lung function monitor enables life-saving treatments for patients in intensive care and during general anesthesia.

Unlike traditional tomography, Swisstom's bedside imaging is based on non-radiating principles: Electrical Impedance Tomography (EIT). To date, no comparable devices can show such regional organ function continuously and in real-time at the patient's bedside.

Swisstom creates its competitive edge by passionate leadership in non-invasive tomography with the goal to improve individual lives and therapies.