Angelie EIS System

Pioneering innovation in monitoring of impedance in four quadrants of the lung.

UNIQUE FEATURE OF ANGELIE EIS IS TO ASSESS REGIONAL AS WELL AS GENERAL AIR DISTRIBUTION AND VENTILATION IN ALL PATIENTS WITH SOME INVOLVEMENT OF RESPIRATORY SYSTEM.

DISTRIBUTION OF AIR IS DISPLAYED IN % OR IN ML VALUES IN REAL-TIME. ESPECIALLY DESIGNED COLOR CODED ELECTRODE PATCHES ALLOW EASY AND QUICK APPLICATIONS TO ANY PATIENT.

ANGELIE EIS IS A GREAT SUPPORT IN YOUR RESPIRATORY MANAGEMENT.

Hardware
- 8 channel amplifier system
- ventilator interface RS232
- 2 isolated analog inputs
- 1 TTL output for ventilator triggering
- touch screen control
- trolley based system

Software
- display of real-time breathing waveforms
- PEEP trend display
- Volume trend
- Real-time ventilator data
- Graphical display of air distribution in four lung segments
- Data export to MS Excel (optional)

Expertise in Medical Solutions

With more than 30 years experience in research, design and development of medical diagnostic and monitoring devices EMS continues to provide innovative technologies for clinical and research needs.
Our products are designed and developed to satisfy the most demanding customer needs and guarantee reliability, quality and flexibility in performance.
In addition to our neurodiagnostic units for EMG/EP/IOM, EEG, ERP and Poly EMG we offer Electrical Impedance Segmentography units as well as a full range of accessories and supplies.
Choose EMS products and use our professional worldwide sales, service and support network. Our international team of trained application specialists will provide you with individual user training and post-sales support.

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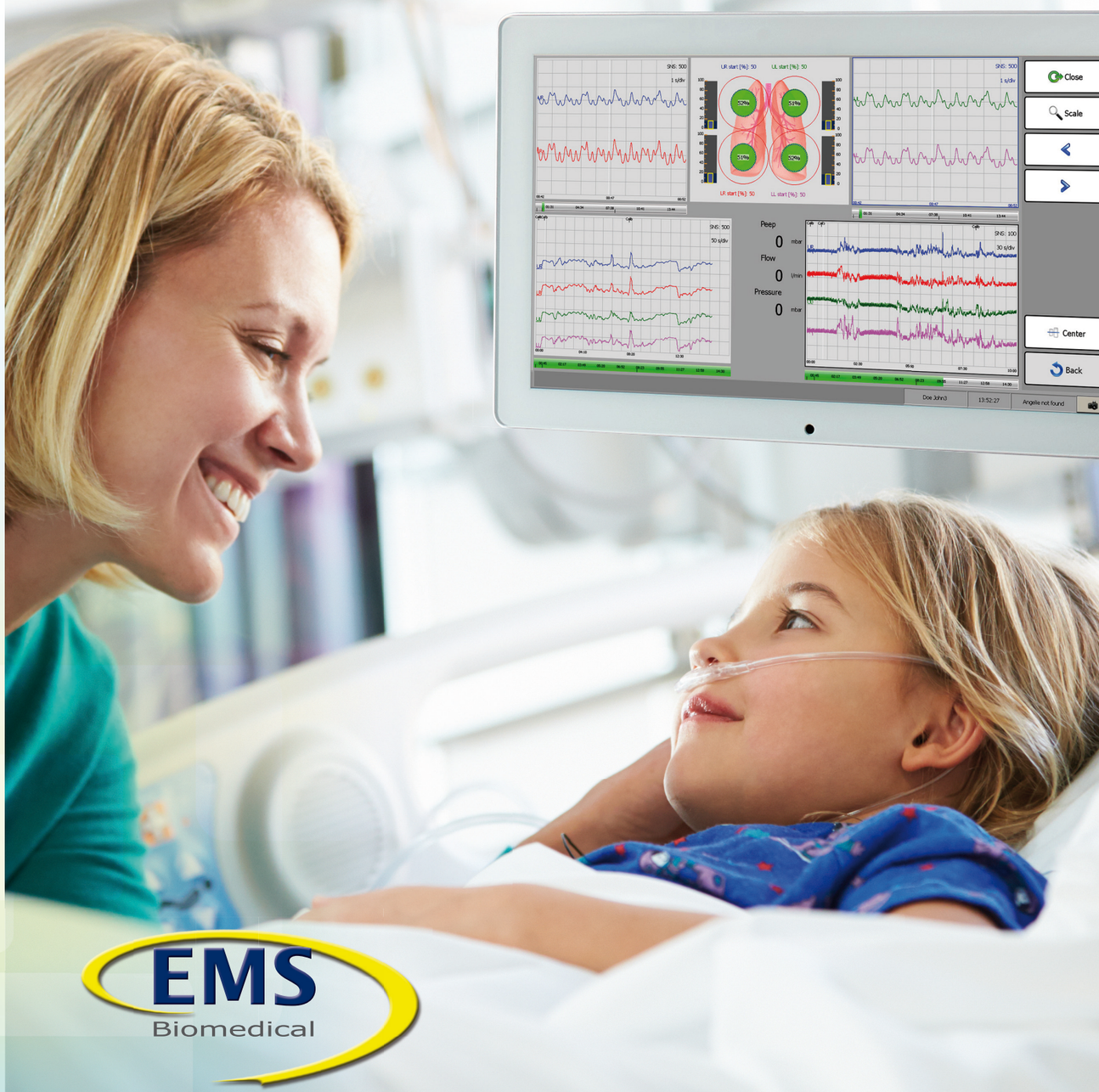
Electrical Impedance Segmentography

See changes in real-time

Angelie EIS



Angelie EIS System
Electrical Impedance Segmentography

THE ANGELIE EIS SYSTEM IS A GREAT SUPPORTING TOOL FOR RESPIRATORY MANAGEMENT, SPECIALLY DESIGNED FOR CLINICAL USE. IT MONITORS IMPEDANCE ACROSS ALL FOUR QUADRANTS OF THE LUNG AND SHOWS THE CHANGES IN FORM OF WAVEFORMS, TRENDS, GRAPHS AND PARAMETERS.

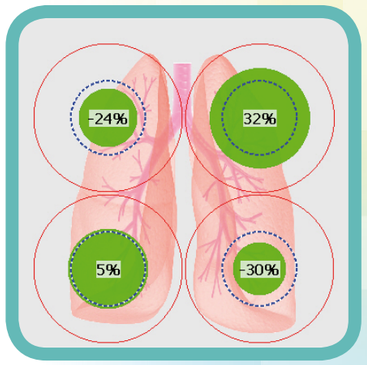
THE ANGELIE EIS CAN BE USED TO DETECT INHOMOGENEITIES BETWEEN LUNGS AND THEIR SEGMENTS AND TO MONITOR REGIONAL DISTRIBUTION OF AIR AND AMOUNTS OF REGIONAL TIDAL VOLUMES. IT CAN BE APPLIED ON ALL PATIENTS FROM NEWBORNS TO ADULTS, IN ALL PATIENTS, WHERE RESPIRATORY SYSTEM IS INVOLVED; EITHER IN SPONTANEOUS BREATHING OR VENTILATED PATIENTS.

Features and advantages:

- Real-time monitoring of distribution of air to all four lung quadrants
- Efficient, quick and easy application
- Only a few electrodes are needed
- Touch screen control
- Radiation free and noninvasive measurement
- Satisfies routine and advanced clinical needs
- Provides flexibility for research environments

Noninvasive continuous monitoring

To measure impedance in different segments of the lung (EIS), only a few electrodes are needed. Appropriate information regarding air distribution in four quadrants of the lung is provided. The signal contains information regarding distribution of tidal volume in each quadrant *(segmental and total Tidal Impedance)* and also regarding the overall air content in the lung *(segmental and total Residual Impedance)*.



Angelie EIS

Quality of care in modern neonatology, pediatric and adult intensive care.

Measurement of Residual Impedance allows a good monitoring of the effect of changing mean airway pressure on lung recruitment.

Electrical impedance segmentography is an excellent tool to monitor recruitment of different lung areas. That is of great importance in non-homogenously damaged lungs.