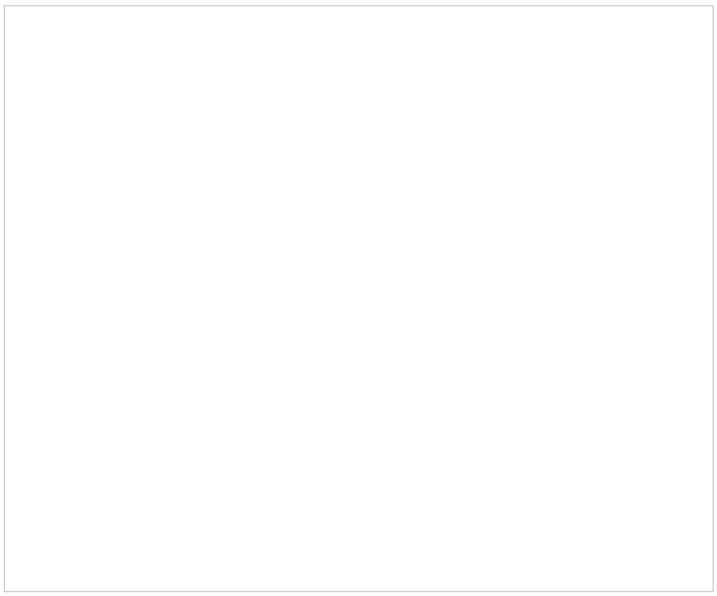
ICU
MANAGEMENT & PRACTICE

COSMED introduces Q-NRG, metabolic monitor for Energy Expenditure measurements

COSMED, world-wide leader in the design of metabolic systems for clinical and human performance applications, announced today the release of a new product line of metabolic monitors for quick, accurate, intuitive and affordable indirect calorimetry. Q-NRG is the ultimate tool to understand how to support a patient according to his/her real energy requirement, to help improving nutrition support, glycemic control, reducing ICU length of stay and, ultimately, decreasing costs of the Intensive Care Unit.

Q-NRG is the result of the collaboration between COSMED and a number of leading University Hospital (Geneva, Brussels Lausanne, Stockholm, Tel Aviv, Tübingen, Wien) led by Prof. Claude Pichard from the University Hospital of Geneva (HUG), Switzerland. A Multi-Centric Clinical Trial has been established (The ICALIC Trial) to drive the initiative, and two major academic organizations in the field of nutrition support in intensive care units, the European Society for Clinical Nutrition and Metabolism (ESPEN) and the European Society for Intensive Care Medicine (ESICM) have partially supported the Clinical Trial. The ICALIC trial aims at evaluating the ease of use of the new calorimeter for the measurement of energy expenditure (EE) in intensive care unit (ICU) patients.



“*Indirect calorimetry (IC) is a tool of paramount importance, necessary to optimize the nutrition therapy of patients with various pathologies and conditions*,” says Prof. Claude Pichard, Director of Clinical Nutrition Unit of HUG. “*Energy Expenditure in ICU patients is highly variable depending on the severity of the disease and treatments. Clinicians need to measure EE by indirect calorimetry (IC) to optimize nutritional support for the better clinical outcome. However, indirect calorimeters available on the market have insufficient accuracy for clinical and research use. Difficulties of handling and interpretation of results often limit IC in ICU patients. An accurate, easy-to-use calorimeter has been developed to meet these needs*.”

“*Q-NRG is the result of more than 30 years of experience of COSMED in the design of Metabolic measurement devices. This ongoing partnership has made possible to develop a practical and affordable solution to overcome limitations and pitfalls of current commercially available calorimeter*,” says Marco Brugnoli CEO of COSMED srl.

Q-NRG measures expired flow/volume, Oxygen Consumption (VO2), Carbon Dioxide production (VCO2) and all related metabolic parameters (REE, RQ, Substrates etc.). Patient Gas exchange is collected via either a disposable flowmeter (mechanically ventilated patients), a canopy hood and oro-nasal face mask (for spontaneously breathing subjects). Q-NRG is available in two different versions to meet different clinical application requirements:

- Q-NRG+ (for mechanically ventilated and spontaneously breathing subjects)
- Q-NRG (for spontaneously breathing subjects)

Read more http://www.q-nrg.com or http://www.indirectcalorimetry.com

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