

CEGA provides unique neonatal transfer solution

CEGA Air Ambulance, the UK's longest established air ambulance operator, has enhanced its capabilities in the transport of critical neonates with the acquisition of a new state-of-the-art incubator, the Dräger Globetrotter Ti500.

The incubator offers a complete neonatal transport solution. Among its



features is a fully integrated ventilator for intubated neonates. It also offers head access and a slide-out mattress to allow easy access for intubation or CPR.

Installed in the autumn of last year, it has replaced CEGA's Dräger-5400 and is the first and only incubator of its kind up and running in a UK fixed wing air ambulance provider that is available for charter.

The incubator complements CEGA's new Ferno Baby Pod II which can be used for non-intensive care neonates, absorbs vibrations during transport and provides a double patient transfer possibility with the incubator.

www.cega-air-ambulance.com/our-services/neonatal/

Use of high flow therapy on the increase

Vapotherm Inc has been at the forefront in the development of high flow therapy (HFT) since its inception. Over the past several years there has been a marked increase in the use of nasal cannula to deliver high flows of humidified respiratory gas to neonatal patients. During this period, research has been conducted and published examining safety and efficacy as well as exploring means of optimising the therapeutic impact of high flow nasal cannula.

Fundamentally, HFT is not just the delivery of greater nasal gas flows, but rather nasal cannula flows that exceed a patient's inspiratory demand, yet also are adequate to purge the dead space of the upper airway between breaths. In adults, these two criteria are met with the same

flow rate (25-35 L/min); however, in infants the flow rates that meet inspiratory demand (typically 1-2 L/min) may not be sufficient to purge the relatively larger pharyngeal dead space volume in the shorter window of time between breaths.

Cannula flow provided at sufficient flow rates (4-8 L/min) not only serves as O₂ therapy but also supports ventilation in spontaneous breathers by way of impacting CO₂ elimination.

The Precision Flow from Vapotherm represents the most advanced system for the delivery of HFT incorporating highly accurate gas blending, O₂ measurement, 100% relative humidity without rainout and precise temperature control.

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SimPad – simulation resources in the palm of your hand

Developed in collaboration with simulation users from many healthcare disciplines, SimPad from Laerdal Medical has been designed with the consumer's needs in mind. SimPad is easy, effective and affordable.

SimPad is virtually a "pick up and play" experience, featuring an intuitive, interactive handheld touchscreen, enabling simulations to be run easily and effectively. The SimPad System can be operated in automatic mode, using existing pre-designed scenarios, or in manual mode, allowing instructors to customise simulations, facilitating a broad range of educational experiences. In addition, the SimPad System can be used with a wireless patient monitor.

The system provides a comprehensive library of physiological patient parameters, including vital signs, ECG recordings, organ and patient sounds. The log function allows instructors to keep track of simulation outcomes, a useful tool for debriefing and assessment. SimPad's total portability allows users to train for any situation, in any environment, bringing instructors closer to students for a more efficient and effective learning experience.

Compatibility with Laerdal simulators and manikins, both new and existing, allows institutions to integrate new technology, and revitalise their current simulation platforms. SimPad is compatible with Laerdal's VitalSim platform, as well as non-manikin activities such as standardised patients and task trainers. With SimPad, educators spend less time learning how to use the technology, and more time actually using it.

Contact customer.service@laerdal.co.uk or access www.laerdal.com/gb/simpad