



Medication. Ventilation. Nutrition.

Your partner in neonatology



Improving neonatal
care for over 30 years.





CareFusion.

Your partner in neonatology.

Newborns can be affected by a wide range of conditions that require specialist treatment from a multidisciplinary team.

Whether you need to administer medication to neonates with complete confidence, or provide their nutritional needs with enteral feeding, or provide them with respiratory support such as continuous positive airway pressure (CPAP) or mechanical ventilation, – CareFusion is with you every step of the way.

Whatever neonatal challenge arises, CareFusion medication, nutrition and respiratory systems have the technology and safety features to help you overcome it.

Discover how CareFusion products and services can help manage even the most demanding of neonatal needs.



Medication error can easily happen in neonatal intensive care units (NICUs), where drug preparations are complex, dosages low and preterm babies may weigh as little as 400 grams. Using the Guardrails® Suite of safety software, Alaris® Infusion Systems help clinicians to deliver the right drug, at the right dosage, to the right patient.

- **Standardising Best Practice.** Drug protocols are customised using the Guardrails software for up to 30 different care areas to ensure that each infusion is in accordance with the latest Hospital guidelines.
- **Protecting patient and clinician from medication errors.** The clinician simply selects from the neonatal drug list and enters the patient-specific settings.
- **Preventing unauthorised changes to dosing parameters.** Pre-defined Hard and Soft Limits alert clinicians if the dosing regime falls outside the recommended range.
- **Ensuring continuity of care.** Valuable infusion data for each newborn is recorded, updated and transferred to your Patient Data Management System or Hospital Information System.
- **Optimising clinical practice.** The Guardrails Continuous Quality Improvement Event Reporter software offers a complete audit of drug utilisation and compliance with Best Practice. Analysis of reports can be used to improve clinical practice.

Medication.
Setting new
standards in
safety.

Specialised care for our most vulnerable patients.

- Reducing risk of medication errors
- Facilitates best practice
- Tailored neonatal solutions
- Provides communication to patient data management systems



Medication.

Working together to reduce IV complications.

The advanced pressure management technology of Alaris infusion systems is unmatched – offering you strategies to identify IV complications in newborns sooner. The in-line pressure monitoring system detects even the smallest increases in pressure and indicates the trends on a display. Pressure alarm limits are set to suit the individual newborn. And with a reduced time to alarm, detecting potential occlusions helps to prevent sub-therapeutic medication, reduces post-occlusion boluses and helps in detecting IV complications.

CareFusion Infusion devices offer continuity of flow for preterm babies which is achieved by using smaller syringes and the ability to provide highly accurate infusions at low flow rates.



- Real time In-Line Pressure Monitoring
- Early indication of IV complications
- Improved drug delivery at very low infusion rates
- Reduced drug wastage



- Protection from free flow
- Tailored neonatal solutions
- Reduced infection rates
- Reduced needle stick injury



Addressing the needs of newborns.

At CareFusion, we understand that the immune systems of neonates are not yet fully developed which makes neonates more susceptible to infection.

The innovative design of our administration sets and accessories helps to reduce the risk of infections associated with repeated cannulation attempts that can lengthen a NICU stay.

- Positively charged in-line filters trap bacterial, as well as particulate contaminants, lowering the risk of exposure to potential causes of infection.
- Anti-syphoning technology helps to prevent inadvertent free flow to the newborn during removal of the set from the pump.



- Slimline SmartSite® needle-free valve provides a proven microbial barrier, may prevent air entrainment and protects healthcare professionals from needle-stick injuries.
- Flat, easy to swab design helps with infection management.

Ventilation.

Improving ventilation for fragile lungs.



- Tailored neonatal solutions
- Reduced infection rates
- Reduced ventilation days

Working closely with NICUs, CareFusion have developed innovative and more effective approaches to treating neonatal respiratory diseases which are safer and gentler on the newborn.

Based on clinically proven technologies, CareFusion ventilation devices deliver positive pressure to immature lungs lacking in surfactant using gentle, low stretch ventilation strategies. Active exhalation valve encourages patient ventilator synchronicity and helps reduce the work of breathing.

Reducing ventilator days.

From CPAP, conventional and high-frequency mechanical ventilation, Heliox administration, to volumetric and combined modes of therapy – CareFusion empowers clinicians with the ability to customise respiratory therapies to suit the individual infant.



AVEA®

AVEA® delivers the most advanced capabilities in the critical care ventilation and monitoring of neonatal patients.



SensorMedics® 3100A

SensorMedics® 3100A high frequency ventilator improves oxygenation and significantly reduces the chronic lung disease associated with preterm infants and mechanical ventilation.



Infant Flow® SiPAP

Infant Flow® SiPAP provides a gentle and non-invasive method of breathing support for the respiratory compromised infant. Includes Apnea detection, and CPAP, BiPhasic and BiPhasic triggered modes.

Nutrition.

Optimising patient safety during enteral feeding

- Dedicated neonatal enteral feeding solution
- Aimed at reducing wrong route errors

Establishing appropriate nutrition in preterm babies is essential during this critical period of growth and development. The Alaris Enteral Syringe Pump offers an altogether safer approach to feeding breast milk and formula to neonates.

Designed to prevent inadvertent misconnection to intravenous lines¹, the Alaris Enteral Syringe Pump positively identifies a wide range of standard enteral syringes – from 5 to 60 ml. The enteral syringes and extension lines are designed to only connect to gastric feeding tubes hence eliminating wrong-route administration. In addition, the complete feeding system is colour coded purple for rapid identification of its enteral use.

The easy-to-use keyboard allows you to set up your neonatal feeding protocols quickly and simply. And with a 24 hour log of the volume delivered, the Alaris Enteral Syringe Pump provides you with a feeding history of your patient.

¹ National Patient Safety Agency (UK), NPSA Patient Alert 19, March 28, 2007: "Promoting Safer Measurement and Administration of Liquid Medicines via Oral and other Enteral Routes".





Getting the most from your investment.

With extensive neonatology expertise and Best Practice knowledge, our worldwide network of highly-trained clinicians and technicians is on hand to assist you.

Support

The CareFusion support team works closely with your implementation group to integrate your new systems with minimal disruption to patient care. In addition, we can show you how to use the Alaris Editor to standardise clinical practice for improving the safety and efficiency of your department

Training

With CareFusion's extensive range of training packages, you can ensure that all staff working within the neonatal team are fully trained and competent

Service

Manufactured to the highest standards, all CareFusion devices are delivered with a two-year* warranty. We also offer a range of service packages to guarantee the continued quality and long life of your instruments.

* Applies to Infusion systems

To find out more about specific CareFusion products, please contact your local CareFusion sales advisor.

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