

Neonatal cardiac imaging moves on at Walsall

Walsall Hospital recently celebrated the installation of a Philips high definition imaging HD11 ultrasound system in its SCBU. The hospital selected the Philips system for its excellent image quality and performance as well as its compact size and good manoeuvrability.

Standard features of the Philips HD11 include real-time SonoCT compound imaging with XRES technology, broadband beamforming, 3D, 4D and Spatio-Temporal Imaging Correlation (STIC), as well as Stress Echo and panoramic and contrast imaging.

Walsall Hospital's SCBU is using the system particularly for neonatal cardiac and cranial imaging. The system is ideally suited for these applications and is the first system in its price range to provide a more detailed view of the fetal heart valves and wall motion, helping to detect anomalies during routine obstetrical exams. With the



Consultant paediatrician Dr A Skinner and nurse practitioner Mrs S Wordsley with their Philips HD11 system at Walsall Hospital.

3D colour mode, fetal circulation can be assessed using 3D and multiplanar views, while spatio-temporal imaging correlation (STIC) imaging presents the

fetal heart beating in a multiplanar display, preserving spatial relationships in the A and B planes.

www.philips.com

Mepilex makes Lite work of infant wounds

Mölnlycke Health Care's Mepilex Border Lite is a thinner and more conformable version of the successful Mepilex range of dressings. Self-adherent for non-to-low exuding wounds, Mepilex Border Lite has been designed for wounds that are harder to reach and consequently harder to treat. More comfortable than before, it is ideal for a range of wounds from leg ulcers to awkward sites like fingers and toes and for

wound bed from adhering to the pad, but still absorbs exudate, preventing maceration and increasing the time between dressing changes.

Mepilex Border Lite comes in a wide range of sizes, including two small ones (4 x 5cm and 5 x 12.5cm).

Mölnlycke Health Care Limited, tel: +44 (0)800 731 1876, email: info.uk@molnlycke.com www.tendra.com

Curved mattress emulates a mother's support

The SleepCurve mattress designed by Philip Owen is said to be an effective solution for children aged between newborn and two years suffering from plagiocephaly, or flat head syndrome.

Owen says: "Instead of a flat mattress, a baby should be supported in the way a mum would – in the crook of her arm. The mattress is curved, with the baby's head and body in two separate gently bowled areas, while baby's neck is supported on the raised area between."

There are four mattresses in the range, designed to suit each growing stage. Each comes with fitted mattress covers and sheet which are vapour permeable and have anti-allergenic and anti-bacterial properties.

Available from selected Babies R Us outlets. www.sleepcurve.com



Tiny clothing for tiny babies

Tiny Baby & Co is a UK manufacturer specialising in premature babywear. A neonatal care range, a designer fashion range and a quietroom set are available with fast delivery to hospitals and parents.

Parents may find it distressing that high street stores do not stock tiny clothing and so these ranges are designed to fit tiny premature babies straight away. All products are available in four colourways and in sizes 1.5kg to 3.5kg.

The quietroom set in sizes 1kg to 3.5kg is suitable for babies who have died to be laid to rest in and is supplied with a matching bag for keepsake photos and memories.

Tiny Baby & Co Ltd: tel 01773 715577 www.tinybabyandco.com.



wounds on children and infants.

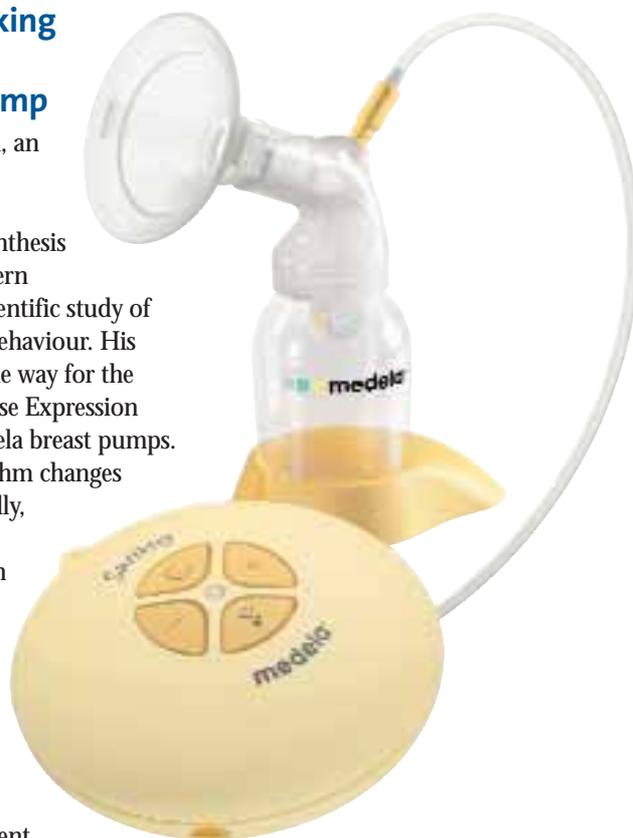
Based on Safetac soft silicone technology, Mepilex Border Lite adheres gently and securely to the skin yet is clinically proven to minimise trauma and pain on removal, reducing the risk to the surrounding tissue. The Safetac soft silicone layer prevents the

Baby's natural sucking rhythm leads to 2-phase breast pump

Professor Peter Hartmann, an internationally renowned specialist in the fields of breastfeeding and milk synthesis of The University of Western Australia, undertook a scientific study of a baby's natural sucking behaviour. His research findings paved the way for the development of the 2-Phase Expression technology found in Medela breast pumps.

The baby's sucking rhythm changes during a breastfeed. Initially, babies suck rapidly to stimulate the milk ejection reflex and release the milk. They then settle into a more relaxed sucking motion. The Medela 2-Phase Expression breast pumps simulate this rhythm and provide a gentle and efficient method of milk expression with faster let down, increased milk production and reduced pumping time.

The Swing is a small and light breast pump for daily use where it suits mother



best. With its research-based 2-Phase action, it is a comfortable and efficient electric breast pump.

Call 0870 950 5994 for stockists and further information

Washable keyboards can help reduce risk of infection

A computer keyboard that can be fully sterilised by washing in antibacterial solution is intended to help in the battle against the spread of deadly infections in hospitals. The Unotron SpillSeal keyboard and Smartcard reader uses patented technology that has been developed in the UK. Washing the keyboard in sterilising solution has been clinically proven to kill in every recess of the keyboard.

Recent studies show that a PC keyboard typically holds over 3,000 microbes per square inch – compared with 49 on a toilet seat – and that bacteria can survive on surfaces for at least 24 weeks. In a hospital, one keyboard can be used by an entire medical team during the course of a day.

Malcolm Gillies of Unotron said: "Experts recommend cleaning and sterilising hospital keyboards, however a standard keyboard is almost impossible to clean and often cleaning staff are afraid of damaging them.

"Recent clinical tests have shown that *Staphylococcus aureus* can be killed by immersing the keyboard in sterilising fluid for 30 seconds."

www.unotron.com

Computer-assisted anaesthesia for children and newborns

Dräger Medical AG & Co KGaA have launched a customised solution for paediatric and newborn anaesthesia.

With new software ver. 3.05, the Zeus anaesthesia system provides greater automatic control of all anaesthetic gases. The Zeus rebreathing system has one of the world's smallest system volumes which makes the system particularly adapted for ventilating children and newborns. An automatic control delivers the exact quantity of anaesthetic gas specific to the patient and not only makes fast introduction and recovery of the anaesthetic possible, but also a stable depth of anaesthesia. This reduces costs and prevents children from dehydrating through the delivery of large quantities of dry gas.

The automatic computer-assisted anaesthesia control (TCA) has been available for adult anaesthesia for more than a year. Dräger Medical worked with staff at Cologne's Children's Hospital to



ready the TCA paediatric application for series production.

Dr Josef Holzki, chief physician in the Department for Anaesthesia and Intensive Care Medicine at Children's Hospital, Cologne, was director of the clinical test phase of the new software solution. Dr Holzki said: "I see a

quantum leap in medical technology that for the first time makes it possible to anaesthetise children weighing less than 3kg like never before.

"Earlier, the anaesthetist required a great deal of experience in paediatric care to calculate the amount of anaesthetic gas for these small patients. Finally, that has changed. After inputting the essential target parameters for the child, such as required anaesthesia gas and oxygen concentration, the Zeus anaesthesia system continually calculates the required quantity and composition of the anaesthetic gas to be delivered with the help of the current readings and patient data. Any differences between 'target' and 'actual' are immediately recognised and automatically corrected.

"Carbon dioxide is sufficiently washed in the closed system by continuous gas flow, thus eliminating the dead space problem with very small lung capacities."

www.draeger-medical.com