

TRENDS & TECHNOLOGY

Disposable Oxygen Level Monitoring Sensor



DOXS Technology Systems, has developed a single-use oxygen level monitoring sensor for measuring the fraction of inspired oxygen (FiO₂), or the percentage of oxygen involved in the gas exchange. DOXS' technology is based on that found in zinc air batteries,

that generate electricity by oxidizing zinc within the battery with oxygen from the environment. It calibrates itself to 21% atmospheric oxygen concentration. It uses two points to do so, the original 0% oxygen while it is vacuum sealed and the atmospheric level upon opening. www.doxsinc.com

Blood Samples from Peripheral IVs

Velano Vascular introduced its 2nd version of disposable PIVO needle-free vascular access device. It has a catheter that is placed into the peripheral IV and helps to gather blood samples from indwelling peripheral IVs into PIVO's reservoir, thus avoiding extra needle sticks and not using central lines to draw blood and making sampling a pain free process velanovascular.com



BodyCap e-Celsius Electronic Pill for Core Body Temperature Monitoring

BodyCap introduced its e-Celsius swallowable wireless thermometer designed to monitor patients' core temperature. It is ingested just like a regular drug capsule. As it moves down the GI tract, every 30 seconds the device wirelessly transmits data to an "e-Viewer" that displays the readings and records the temperature. It is simply expelled through feces.

The e-Viewer can be pre-programmed to issue warnings if the temperature moves outside of a set range which is important in fragile patients and those with a compromised immune system at risk of infection and



during lengthy surgeries. **e-Celsius Medical**, Caen, France <http://www.bodycap-medical.com>

LifeFlow Rapid Infuser for Sepsis and Shock

410 Medical, has released LifeFlow Rapid Infuser for treating patients afflicted by sepsis or shock. The device infuses 500 milliliters of crystalloid fluid within two and a half minutes, in both adults and children, and an entire liter can be delivered within five minutes.



The LifeFlow is hand-powered and can be prepped within two minutes.

410 Medical, Durham, North Carolina 410medical.com

Labs' DripAssist Infusion Rate Monitor

Tackling a different market than IV pumps, DripAssist is designed for accurate, reliable IV infusion. DripAssist allows the clinician to set the rate of a gravity IV drip while the technology automatically monitors drip rate and volume to ensure safe dosing. The device does not require calibration, needs minimal training, and operates using one AA battery.

Drip Assist, Shift labs, Seattle, WA. www.shiftlabs.com

Reliefband Neurowave



Reliefband Technologies's Reliefband Neurowave is a smart-band that offers a drug-free treatment for nausea and vomiting associated with motion sickness, morning sickness, post-surgery, and even with virtual reality gaming.

It delivers electric pulses of a specific waveform, frequency, and intensity to the median nerve on the underside of the user's wrist and through the process of neuromodulation, alters the neural activity of the emetic center in the brain stem and effectively block incoming signals from the stomach that can lead to nausea and vomiting. Users can adjust the intensity of the electric pulses to whatever level most optimally relieves their symptoms, and many users report relief within a matter of minutes. ,

Reliefband Technologies Horsham, PA, www.reliefband.com