In March, a team of product reviewers scoured the EMS Today 2010 conference exhibit hall, evaluating the hottest new products on display by nearly 300 exhibitors. The team was impressed by the technological innovations, clinical tools and educational products on display.

After careful review, they selected the hottest new products, shown here in random order for your review. Look for additional coverage of many other products reviewed in upcoming JEMS Hands On columns.

By Fran Hildwine, BS, NREMT-P, CCEMT-P

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Online and eLearning Training Tools

1-4 The online course Learn: Rapid STEMI ID prepares you to evaluate and assess patients presenting with symptoms of myocardial infarction (MI), interpret ECGs for signs of ST-elevation myocardial infarction (STEMI) and activate a system of care for rapid reperfusion of an occluded coronary artery.

Learn: Rhythm Pediatric focuses on normal pediatric cardiac rhythms and prepares your personnel to recognize pediatric cardiac arrhythmias.

The online, self-directed course Learn: Rhythm Adult introduces providers to normal cardiac rhythms and prepares them to recognize basic cardiac arrhythmias in clinical practice.

The HeartCode PALS Part 1 (CD) course combines the interactive, cognitive education of eSimulation with skills training. Part 1 is a CD-based option for completing Part 1 of Pediatric Advanced Life Support training. During the hands-on portion of the course (Parts 2 and 3), users have the opportunity to practice their skills and then complete a skills test with an AHA PALS Instructor.

American Heart Association | 800/242-8721 | lameace.salman@heart.org | www.americanheart.org/cpr
The S3 Oropharyngeal Evacuation Tool is a soft, flexible, multi-function airway management tool. Although it can be used like a standard suction tip, featuring a large-bore suction lumen, it also has a concave scooping surface to remove larger material from a patient’s airway, making the finger sweep obsolete. Additionally, the S3 can be bent out of the way while connected to the suction unit, suctioning and working as a “sump” to continuously evacuate fluids that pool during the intubation procedure.

ENGEL EMS is a compressor-powered, constant-temperature, 14-quart fridge-freezer designed specifically for saline storage for therapeutic hypothermic induction. Sized to accommodate up to six saline bags and a small drug bag, this fridge-freezer is also perfectly suited for medication and vaccine storage. ENGEL EMS provides cooling or heating, adjusting to external fluctuations as needed. Featuring a built-in digital thermometer with LED display, this unit runs on 12v DC with an optional 110v AC converter.

The core function of the HALO Seal is to provide total occlusion for penetrating chest trauma. Two Halos are included in each pack to manage entrance and exit wounds commonly associated with penetrating chest trauma. The Halo Seal is specifically designed for casualties with excessive bleeding, heavy perspiration or wet and extreme environments. It performs under extreme conditions and temperature ranges, from below 32° F to more than 140° F. Its unique design offers a large pull tab that allows the provider to burp the wound and apply the tab quickly. Halo Seals can also be used to help secure dressings and hemostatic agents in difficult-to-bandage areas of the body.

The Stryker Power-LOAD cot fastener system improves operator and patient safety by supporting the cot throughout the loading and unloading process. The reduction in spinal load helps prevent cumulative trauma injuries. Power-LOAD wirelessly communicates with Power-PRO cots for ease of operation and maximum operator confidence.

Constant Fluid Temperature

ENGEL USA | 888/272-9838 | info@engel-usa.com | www.engel-usa.com

5

Seal that Wound

ENGEL USA | 888/272-9838 | info@engel-usa.com | www.engel-usa.com

6

Adjustable Attendant Seat Track System

The E.V.S. Mobility 1 Attendant Seat Track System allows EMS crews to have access to equipment and their patient while remaining belted in their seat in the patient compartment of an ambulance. Featuring up to a 48” track and attendant positioning in a safer, forward-facing position, the Mobility 1 system meets or exceeds all applicable FMVSS or Triple K standards and is available with advanced belting systems, such as a High Mobility Restraint belt.

E.V.S. Ltd. | 800/364-3218 | bbay@evsltd.com | www.evsltd.com

7

Reduce Injuries When Loading & Unloading

Stryker EMS | 800/784-4336 | www.EMSstryker.com

8

Three-Way Oropharyngeal Evacuation Tool

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S3COR | 888/504-4054 | sscomdsay@sscor.com | www.sscor.com

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The 5.11 Responder Parka, available in sizes for men and women, offers high performance, seam-sealed, waterproof-breathable construction and excellent reflectivity. The solid color Responder Parka features a solid nylon shell. Both parkas include strategically located reflective tape and piping at hem, collar and sleeves. The imprintable shell is lined with DuPont dot-laminated taffeta to resist bloodborne pathogens and has Armortex PU abrasion-resistant shoulder panels to provide grip for backpacks and bags. For extra durability and weather protection, Taslan abrasion and water-resistant panels are located at the collar, shoulder yoke and backs of the forearms.

Simulaid's Traction Splint Trainer system goes beyond standard application routines by integrating traction force measurement so students learn the feel of appropriate tension. The trainer has multiple patient weight settings and an audible alarm that indicates to the student when they're within 5% of the target (10% of body weight, maximum 15 lbs.) traction force. (The alarm can be turned off for testing purposes.)

The Flow-Safe CPAP System is a disposable CPAP system with built-in safety features, incorporating a manometer and pressure relief valve on each unit. Each unit is completely disposable and highly portable, making them easy to store in kits or oxygen bags.

Custom blended, non-latex gel foam elastomer from Trauma Technologies makes it possible to alleviate pain and pressure in a multi-use disposable pad. Disposable Spineboard Pads are attached to any backboard with a non-residue adhesive that sticks firmly on the board but comes off without cleaning. After the transparent slipcover has worn out (approximately 15 uses), the pad inside can be rinsed of body fluids and used a few more times, depending on severity of case. At around $2 per patient, these pads are the most cost-effective way to reduce the pain of spinal immobilization.

EMS Under Cover

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The GemStar infusion pump provides single-channel administration of up to seven different therapies. The units are built on lightweight aluminum frames protected with color-coded bumpers, making them durable and easily recognized. Each unit can be set up to conform to specific drug administration protocols and features keypad lockouts, free flow protection and mandatory confirmation screens.

The Intersurgical i-gel supraglottic airway with a noninflating gel cuff, integrated bite block and gastric channel can be inserted in less than five seconds while providing high seal pressures and reduced trauma.

BRAVO! is a powerful new game show software suite that will enhance any instructional experience. Designed to help you use games to teach, BRAVO! features four customizable game board templates. It provides you with an interactive game board template platform to effectively deliver educational content, such as PING (Virtual Response System). This software is designed to engage EMS learners and make education fun and exciting. It’s incorporated into ring-in devices, which add a kinesthetic element to training and amps up trainee engagement.

PING is a virtual response educational system that combines the engaging qualities of a customized EMS training game (using BRAVO!) with the power of “virtual” response pads. PING is designed to ensure that participants are engaged and learning the entire time they’re involved with the product. The instructor simply launches a game during a webinar, and remote attendees “ring in” using a virtual response pad to answer each question. The game automatically collects the results, so instructors and students can track tangible progress during and after the event.

The Multi-function IV Pump is designed to provide efficient and effective IV administration. It features advanced pumps that deliver precise and accurate dosing of medications, fluids, and blood products. The pump is equipped with a user-friendly interface and intuitive control buttons, allowing for easy setup and operation. It also includes a built-in barcode scanner for rapid patient identification and infusion setup.

The Connected Care Data Management package includes Periodic Clinical Data Transmission (PCDT), which sends a cadre of patient vital signs and parameters. The 12-lead ECGs and waveform data can be sent from the Philips HeartStart MRx to receiving hospitals and other selected locations ahead of patient arrival. In addition, batch LAN data download is now offered on the HeartStart MRx, which moves data over an Ethernet cable, enabling rapid downloads and faster device return-to-service times.

Educational Software Suite

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Supraglottic Airway

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Multi-function IV Pump

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Philips Healthcare | 800/453-6860 | margie.rothschild@philips.com | www.philips.com/datamanagement

Intersurgical | 800/828-9633 | support@intersurgicalinc.com | www.intersurgical.com

C3 SoftWorks | 888/333-1969 | corriea@c3softworks.com | www.c3softworks.com

Hospira | 877/946-7747 | shawn.folkes@hospira.com | www.hospira.com
The Eject Helmet Removal System allows EMS crews to quickly remove closed-faced helmets while maintaining manual C-spine. Trained responders inflate the small air bladder inside the helmet, lifting it away from the head and helping reduce the risk of further spinal injury.

The AmbuRamp from First Line Technology is an easily deployable system for moving patients into and out of transport vehicles. Perfect for use with mass casualty transport vehicles, like those fitted with the AmbuBus Bus-Stretcher Conversion Kit, the AmbuRamp features an adjustable length, enabling a gradual incline to ease the effort required to load and unload wheelchairs and stretchers. The AmbuRamp, available in regular and bariatric sizes, supports up to 2,000 lbs. of distributed weight and rolls up for quick storage and rapid deployment.

Critical Care Transport, from Jones & Bartlett Learning, offers cutting-edge content necessary for medical professionals to function as competent members of a critical care team. Published in conjunction with the American Academy of Orthopaedic Surgeons (AAOS) and the American College of Emergency Physicians (ACEP), and covering both ground and flight transport, Critical Care Transport meets the curricula of major critical care training programs, including University of Maryland, Baltimore County (UMBC), and the objectives of critical care transport certification exams, such as the Certified Flight Paramedic (CP-F) exam administered by the Board for Critical Care Transport Paramedic Certification.

Advanced Assessment and Treatment of Trauma (ATT), is a highly interactive continuing education course that covers the critical knowledge and skills necessary to rapidly evaluate, stabilize and transport the trauma patient. The textbook is the core of the Advanced ATT Course and is designed to give ALS-level prehospital providers the tools to effectively assess and treat trauma patients. Advanced ATT is a motivating and engaging educational text that encourages solution-driven thinking through pictorial case studies, controversy essays and detailed procedures.

The new disposable S.A.L.T. (Supraglottic Airway Laryngopharyngeal Tube) allows prompt, safe endotracheal intubation, particularly for difficult, special and blind airway management. What once took minutes now may take just seconds. Simply lubricate S.A.L.T. and insert like an oropharyngeal airway, then introduce an endotracheal (ET) tube through the center of the device. Next, secure the patented clamp to the ET tube, verify tube placement and secure strap to ET tube. ET intubation is now more simple, fast and efficient.

The Eject Helmet Removal System allows EMS crews to quickly remove closed-faced helmets while maintaining manual C-spine. Trained responders inflate the small air bladder inside the helmet, lifting it away from the head and helping reduce the risk of further spinal injury.
The TomCat ICID (Integral Cervical Immobilization Device) offers a revolutionary concept in spinal immobilization. Its design enables personnel to rapidly deploy it to immobilize a patient without having to retrieve and use separate head pads or devices, and, after use, the head immobilizers fold tight to the board’s surface to save valuable storage space. The rigid head “paddles” feature foam contact areas that are built into the contoured board. The ICID also features the Glasgow Coma Scale and Rule of Nines charts imprinted on the board for quick reference. And an integrated O₂ clip provides an easy place for crews to attach and secure supplemental oxygen devices. Shown here with an optional flotation collar attached.

Fusion ePCR is an electronic patient care reporting program that features touch screen navigation and easy-to-locate fields that ensure crews are capturing essential information. A tool for protocol validation, this program saves key strokes, helps ensure proper care is considered and rendered, and reduces paper use by offering signature capture capability and electronic signature forms. Fusion ePCR also features encryption that exceeds industry standards and provides the ability to recall past patients’ information.

Knox’s Remote Administration software allows agencies to perform managerial functions on their Knox MedVault units remotely via existing WiFi networks and on-board vehicle computers. Administrators can remotely update firmware, download an unit’s audit trail or update PIN codes.

TriTech Emergency Medical Systems | 800/533-3927 x6278 | sales@TriTechEMS.com | www.TriTechEMS.com

Knox Company | 623/687-2300 | info@knoxbox.com | www.knoxbox.com

Electronic PCR System

Remote Monitoring of Medication Access

All-in-One Spinal Immobilization Device

Keep Your Defibrillator Secure
Ambu’s Airway SmartMan is designed to measure multiple important parameters: intubation effectiveness, ventilation optimization and two-person advanced airway CPR. Unique to this system is the feedback received on the timing of ventilations with release of chest compressions. The system’s specialized manikin and software, linked to a PC of your choice, also records the rescuer’s time to complete intubation of the patient, effectiveness of the ventilations administered and the accuracy of chest compressions. In addition, the Airway SmartMan system also includes the ability to train and measure BLS CPR skills via easy-to-understand, real-time visual feedback.

The Laerdal ALS Simulator is a realistic, interactive training manikin that simulates a wide range of life-saving skills in medical emergencies, including CPR, ACLS, NBC, trauma, bleeding control and first aid, and optimizes the key skills of emergency care providers. It features spontaneous breathing, airway control, voice, pre-programmed sounds, ECG and many other clinical features. The ALS Simulator’s highly mobile capabilities, and the fact that there are no cumbersome air tanks, hoses or cables required, make it ideal for field use, transport, and in-hospital training.

In addition to the ALS Simulator, Laerdal has released ALS Simulator Advanced PC software, which now allows users to control all clinical parameters from a laptop PC, enable video recording and review an event log with synchronized recording of the patient monitor and in-room video.

Laerdal’s Emergency Preparedness Scenarios cover five essential terrorism threats: IEDs, RDDs, nerve agent attacks, cyanide exposure and blister agents. Each threat group covers five different casualty cases that can be used individually or combined to simulate multiple casualty events. These scenarios now operate on the complete line of adult VitalSim-capable manikins, which include ALS Simulator, MegaCode Kelly, Nursing Anne, Nursing Kelly, and the Resusci Anne Simulator.

The GlideScope Cobalt AVL offers airway views in DVD clarity and real-time recording to capture the details of difficult airway cases. The device also features new digital technology, a unique on-board video tutorial and advanced features designed to help users get the view they need to get a tube placed quickly.

Vermed Multi-function Defib Pads are truly designed with EMS in mind. They feature a strong adhesive gel, with the smallest pad size and the largest conductor plate on the market. The Vermed line of defib pads are compatible with all major monitor/defibrillators, have a 36-month shelf life and come with 60” long lead wires—the longest on the market.

Ambu, Inc. | 800/262-8462 or 410/768-6464 | efruitman@AmbuSmartMan.com | www.AmbuSmartMan.com

Laerdal Medical | 877/523-7325 | Renee.valles@laerdal.com | www.laerdal.com

Vermed | 800/245-4025 | akeating@vermed.com | www.vermed.com
The battery-powered LUCAS 2 Chest Compression System provides effective, consistent and uninterrupted chest compressions in accordance with AHA and ERC guidelines on adult patients, frees up responders to focus on other life-saving therapies, and enables them to remain buckled in during transport with ongoing compressions. The LUCAS 2 is also radio translucent, except for the device’s hood and piston, so that intervention may be continued in the cath lab with little interference.

DeconFx is a non-toxic, aqueous solution that kills HIV, hepatitis and other viruses found in wide scale clean-ups. It also kills bacteria and bacterial spores on the skin, including Anthrax, and decontaminates a wide variety of biohazards while preserving the ability to identify the offending toxin. It meets OSHA and NFPA requirements and is a high-level, broad spectrum decontamination solution for biohazard incidents.

The DeconFx Personal Decontamination Kit (PDK) allows first responders to safely self-decontaminate following exposure to potentially hazardous body fluids or other biohazards. The PDK includes DeconFx, a pair of non-latex disposable gloves, three disposable towels and one biohazard bag for disposal of used articles.

Optima predict is an interactive strategic planning solution that provides a platform for effective planning and simulation of resource requirements and system operational approaches. It uses the simulation of emergency calls, the response to those calls and sophisticated analytical tools to provide the critical feedback needed to make complex system cost/benefit decisions. Optima predict takes into account such key performance indicators as response times, vehicle types and coverage, shift rostering, post locations and hospital times.

Optima live offers communications center personnel and system managers real-time dynamic deployment solutions in an easy-to-use graphical interface. The software incorporates predictive analytics to assist dispatchers in making optimized recommendations for unit deployment to address emerging coverage challenges through Optima live’s unique “look ahead” capability.