TwitchView, the quantitative TOF monitor for neuromuscular block.

- Reliable and simple
- Real-time and trended quantitative data
- Even when the arms are tucked
- Find out more on page 11

TwitchView™ blink DEVICE COMPANY
We just raised the standard, again.

SpO2 accuracy has improved in conditions of motion and no motion, providing clinicians with greater confidence when monitoring oxygenation status.

SpO2 Performance with RD SET™ Sensors

<table>
<thead>
<tr>
<th></th>
<th>Previous ARMS Specification</th>
<th>New ARMS Specification</th>
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<tbody>
<tr>
<td><strong>SpO2 Accuracy</strong></td>
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<td>(70–100%)</td>
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<tr>
<td><strong>ADULT, PEDIATRIC, AND INFANT PATIENTS (&gt;{ 3 KG})</strong></td>
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<tr>
<td>No Motion</td>
<td>2%</td>
<td>1.5%</td>
</tr>
<tr>
<td>Motion</td>
<td>3%</td>
<td>1.5%</td>
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</tbody>
</table>

Visit masimo.com/improved-accuracy to see the difference.
**AIRWAY MANAGEMENT**

1. **ADROIT SURGICAL LLC**
   **Vie Scope® Laryngoscope**
   
   Vie Scope® provides a straight line of sight to the vocal cords for rapid intubation of the bougie, including in awake patients. Patented illumination uses LEDs at the proximal end of the clear tube to minimize loss of light from blood/secretions, giving the user the best view possible in all cases. One size fits all adults. Call for a demonstration.

2. **AIRWAY MANAGEMENT ENTERPRISES, LLC**
   **Rapid Positioning Intubation Stylet/RPIS**
   
   The RPIS is a dynamic hand-controlled intubating stylet with a tip that can be flexed and retroflexed to intubate difficult airways using video and direct laryngoscopy. The RPIS will improve difficult intubations where “you can see it but you can’t get it there” with standard malleable and rigid stylets, reducing multiple attempts at intubation. The RPIS provides the same power of combining video laryngoscopy and a fiber-optic bronchoscope with the hands of only one anesthesiologist. The RPIS is an essential tool for the difficult airway.

3. **AMBUC®**
   **AMBU® aScope™ 4 Broncho**
   
   The aScope 4 Broncho family of single-use bronchoscopes offers clear, sharp images and adaptive light control making airway anatomy identification and navigation easy. The latest aScope allows for high bending angles and precise tip motion with an ergonomic handle. aScope 4 Broncho eliminates the risk for cross-contamination and simplifies procedure setup.

4. **AMBUC® AuraGain™**
   **AMBU® AuraGain™**
   
   The AuraGain is an anatomically curved laryngeal mask with gastric access and intubation capability. The integrated gastric access channel assists with managing gastric content. When a difficult airway situation occurs, the AuraGain is any endotracheal tube can be used in conjunction with visualization device assistance to establish a secure airway.

5. **AMBUC® AuraOnce™**
   **AMBU® AuraOunce™**
   
   The Ambu AuraOunce is an anatomically curved laryngeal mask for everyday use. Molded directly into the tube, the curve shape makes correct insertion easy without abrading the upper airway and without placing fingers inside the patient’s mouth. The AuraOunce’s curve also ensures that the patient’s head remains in a natural supine position when the mask is in use without extra stress on the upper jaw.

6. **AMBUC® AuraStraight™**
   **AMBU® AuraStraight™**
   
   The Ambu AuraStraight is a straight tube laryngeal mask for everyday use. It features a unique one-piece molded design that avoids rough edges on the airway tube and cuff. The AuraStraight provides an extra-soft, thin cuff allowing the seal to more readily conform to the shape of the airway with a minimal amount of pressure.

7. **AMBUC® Fuji Uniblocker™**
   **AMBU® Fuji Uniblocker™**
   
   The Ambu Fuji Uniblocker is the only bronchial blocker that incorporates a steel mesh polyurethane-covered shaft for direct control of the blocker into the targeted bronchus. This control allows for simple and intuitive placement of the blocker.

8. **King LTS-D™ Disposable Laryngeal Tube**
   **King LTS-D™ Disposable Laryngeal Tube**
   
   The King LTS-D is a curved laryngeal tube airway with gastric access. The anatomically shaped distal tip and cuff assist in airway passage behind the larynx and into the normally collapsed esophagus. As an emergency airway, the King LTS-D offers simultaneous inflation of proximal and distal cuffs. Suction channel minimizes gastric insufflation and allows easy passage of the gastric tube.
**Multipac® anesthetic breathing systems**

Multipac® is a safe and effective one-a-day breathing system that may be used on up to six patients.

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**Cost Savings, High Efficiency Filter and HME, Less Set-Up Time and a Reduction in RED BAG WASTE**

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Features: 3.5-inch high-definition (HD) touch screen color display, antifog technology, photo/video and audio recording, and USB/HD/TV-Wi-Fi. Best-in-class technology brings your patient's vocal cords "insight." Call for a free trial!

AIRWAY MANAGEMENT

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BRITEPRO™ OMNI

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inquiries@flexicare.com
flexicare.com

BritePro™ Omni is a single-use, one-piece laryngoscope blade and handle solution ready for use straight from the sterile pack. The super bright, distally located LED light delivers excellent visualization. The ultra-low profile blade design reduces risk for dental trauma. The metal, color-coded blades and labeled secure-grip handles allow for easy size identification. Simply open, use, and then dispose.

AIRWAY MANAGEMENT

FLEXICARE, INC.

BRITEPRO SOLO™, MINI™ AND STUBBY™

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(949) 450-9999
inquiries@flexicare.com
flexicare.com

BritePro Solo™—the completely sterile, disposable laryngoscope system. Featuring a focused LED light with shielded fiber-optic bundle, low-profile, fully metal blade and connection, and a lightweight, secure-grip handle with a five-year shelf life. BritePro Solo™ is the best disposable laryngoscope solution. Specialty blade and handle sizes are available, for every clinical need, supplied together as a kit or individually.

AIRWAY MANAGEMENT

FLEXICARE, INC.

LARYSEAL™ PRO

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(949) 450-9999
inquiries@flexicare.com
flexicare.com

LarySeal® Pro™, the second-generation supraglottic airway device, enables rapid and secure airway management. The anatomic curvature conforms to the patient’s airway, and the bite guard protects from dental damage. The suction channel allows 18 Fr or smaller nasogastric catheter on sizes 4 and 5. The integral epiglottic flap and guide ramp enable fast and accurate endotracheal tube or bronscroscope insertion. Ideal for routine and difficult airway management.

AIRWAY MANAGEMENT

HEINE

HEINE EASYCLEAN LED LARYNGOSCOPE

10 Innovation Way, Dover, NH 03820
(800) 367-4872
service@heine-na.com
heine.com

HEINE’s EasyClean offers an innovative laryngoscope that is 100% waterproof, and has the first and only LED handle compatible with all sterilization processes. No need for disassembly/reassembly of the handle; reprocessing in accordance with all standards is particularly safe and efficient. The EasyClean was created to provide the best performance, easy reprocessing and safety for patients.

AIRWAY MANAGEMENT

INTERSURGICAL

I-GEL®

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(800) 828-9633
support@intersurgicalinc.com
intersurgical.com

I-gel® from Intersurgical® is an innovative second-generation supraglottic airway. It has a soft, gel-like, noninfusing cuff designed to provide an anatomic, impression fit over the laryngeal inlet, accurately mirroring the peri-laryngeal framework. I-gel is known for ease and speed of insertion, reduced trauma, superior seal pressure, gastric access, integral bite block and use as a conduit for intubation under fiber-optic guidance (size 3, 4 and 5). Quality, innovation and choice.

AIRWAY MANAGEMENT

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(800) 828-9633
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intersurgical.com

The new i-view™ from Intersurgical® is a single-use video laryngoscope, providing the option of video laryngoscopy wherever you might need to intubate. By incorporating a Macintosh blade, i-view can also be used for direct laryngoscopy. The ergonomic design ensures it is easy and instinctive to use while the integral LCD screen provides an optimal view in a variety of light conditions. Make your first attempt at laryngoscopy your best attempt. Quality, innovation and choice.
What is Needed For Intubation?

C-MAC® System: A single instrument is not a plan B
**AIRWAY MANAGEMENT**

**KARL STORZ ENDOSCOPY-AMERICA, INC.**

**C-MAC® VIDEO STYLET**

2151 E. Grand Ave., El Segundo, CA 90245
(800) 421-0837
communications@karlstorz.com
karlstorz.com

The C-MAC® Video Stylet represents a completely new type of video endoscope. Its sheath and deflectable tip combine the advantages of both rigid and flexible intubation endoscopes. The design of the C-MAC® Video Stylet is similar to that of our retromolar intubation endoscope, and is especially useful when managing the unexpected difficult airway.

**FLEXIBLE INTUBATION VIDEO ENDOSCOPE**

2151 E. Grand Ave., El Segundo, CA 90245
(800) 421-0837
communications@karlstorz.com
karlstorz.com

The KARL STORZ Flexible Intubation Video Endoscope (FIVE) combines a video chip and LED light source in the scope’s distal tip to help optimize visualization. Now available in 5.5, 4.0 and 3.8 mm sizes. Similar to familiar C-MAC® components, the lightweight FIVE delivers clear, pixel-free images without a møré pattern and plugs into either the C-MAC® Monitor or the C-HUB II module.

**SINGLE-USE FIVE S**

2151 E. Grand Ave., El Segundo, CA 90245
(800) 421-0837
communications@karlstorz.com
karlstorz.com

The new single-use FIVE S (Flexible Intubation Video Endoscope) offers a single-use solution that is impressive in every respect. Its compatibility with the multifunctional C-MAC Monitor and C-HUB II module allows the new FIVE S to be integrated into the existing C-MAC platform, for an ideal hybrid solution when used with reusable blades. New available in three sizes: 3.5 mm x 65 cm, 3.0 mm x 65 cm, and 3.0 mm x 52 cm.

**FLOW-SAFE® II**

11300 49th St. North, Clearwater, FL 33762
(727) 573-0088
dolson@mercurymed.com
mercurymed.com

Flow-Safe II is a completely disposable continuous positive airway pressure (CPAP) system that consumes more than 50% less oxygen while delivering consistent CPAP pressures and high fraction of inspired oxygen (FiO2) delivery. It is ideal for use in patients with congestive heart failure and chronic obstructive pulmonary disease in the emergency department, and for sleep apnea and obese patients in the PACU, for improving work of breathing and gas exchange.

**Naso-flo®**

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mercurymed.com

Naso-flo® nasopharyngeal airway devices are color-coded and made of a soft silicone material. Oxygen ports for direct oxygen connection and optional end-tidal carbon dioxide (EtCO2) adapters are available.

**Richmond Dental and Medical**

**Soft BiteBlock™**

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(704) 465-4812
fran.eskew@richmonddental.net
richmonddentalandmedical.net

Soft BiteBlock™ is placed between a patient’s molars to protect the teeth, tongue and airway device during emergence. Made in the United States of medical-grade, purified cotton, the Soft BiteBlock™ is individually wrapped and available in three sizes for comfort and fit, as well as large size in bulk. To order or for samples, visit RichmondDentalAndMedical.net.

**TTC TOTAL CONTROL INTRODUCER**

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(801) 596-2544
tony@ttcmed.com

Total Control Introducer™ is the only articulating endotracheal tube introducer that combines a flexible shaft, a tip that articulates both up and down, and the intuitive depth control system. Designed specifically for video-assisted intubation in high-risk patients, the Total Control Introducer™ is an immediately available, cost-effective rescue tool in the event of failed intubation or anticipated difficult airway.

**ANESTHESIA MACHINES**

**CARDINAL MEDICAL SPECIALTIES, INC.**

**OBA-1 and OBA-1 MRI**

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(800) 443-5997
cardinalmed1@aol.com
obamed.com

The OBA-1 and OBA-1 MRI units are the first lightweight (30 lb), FDA 510(k)-approved, compact, portable anesthesia machines specifically designed for surgical locations where space or access is limited, such as office-based anesthesia and MRI scan rooms, or any location where size, mobility and portability are important. No electricity needed.
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<th>ANESTHESIA MACHINES</th>
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<td><strong>Draeger</strong></td>
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<td><strong>Apollo®</strong></td>
<td><strong>Fabius® Tiro M</strong></td>
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| 3135 Quarry Rd., Telford, PA 18969  
(800) 437-2437  
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Equipped to meet the clinical demands of today and tomorrow, the Apollo can grow with your practice to protect your investment. Proven to reduce volatile agent costs, the Apollo’s Low Flow Wizard helps clinicians deliver low-flow anesthesia with confidence and ease. Combined with its heated breathing system and precision E-Vent® plus piston ventilator, the Apollo offers exceptional opportunity for uniform delivery of low-flow anesthesia in your health care facility. | 3135 Quarry Rd., Telford, PA 18969  
(800) 437-2437  
info.usa@draeger.com  
draeger.com  
The Fabius Tiro M was designed to provide a full-featured anesthesia machine in a compact, easy-to-assemble package for use in military medical installations in the field. The modular design allows all standard system components to be stored in a single container so that assembly and disassembly of the unit are easily accomplished. |
| **Fabius® GS Premium** | **Perseus® A500** |
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(800) 437-2437  
info.usa@draeger.com  
draeger.com  
The Fabius GS Premium combines time-tested design concepts with the comfort and utility of modern digital technology. It’s an anesthesia workstation built for today and ready for the future. Export gas flows, concentrations and waveforms to our Infinity® patient monitors and Innovian® Anesthesia system to enhance monitoring, charting and networking power. Its intuitive user interface, common to Draeger workstations, enables fast and precise adjustments. | 3135 Quarry Rd., Telford, PA 18969  
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A highly configurable anesthesia workstation, the Perseus® A500 can be easily tailored to meet your needs. Its generous, well-lit workspace can be used to keep supplies organized and within reach. Its compact, heated breathing system is designed to reduce condensation buildup and facilitate fast gas exchange rates. To support continuity of care between the ICU and OR, the Perseus® A500 offers Airway Pressure Release Ventilation. |
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The Fabius MRI features our precision E-Vent® piston ventilator technology, renowned for both performance and safety. It has been tested for use with MRI systems of 1.5 and 3 T, and can be safely operated at field strengths of 40 mT (40 G). From within the MRI suite, it’s capable of exporting the clinical data you need for complete and accurate anesthesia records. Its user interface, common to Draeger workstations, enables seamless transition from the OR. | 3030 Ohmeda Dr., Madison, WI 53718  
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GE Healthcare’s Aisys CS2 is a fully digital (vaporization, gas delivery, ventilation) system designed for seamless connectivity to your other medical devices and your network infrastructure. With hundreds of data points captured during each breath and easy-to-use, cloud-based applications to analyze data, it’s more than an anesthesia delivery system. It’s the central command for your entire OR. Plan for the future while protecting your investment with Aisys CS2. |
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At its core, the Fabius Tiro features our powerful and accurate E-Vent® piston ventilator, which gives you the ability to handle a wide range of acuity levels. Its compact design makes it a natural choice for applications where you need to get the most of the available room without having to compromise on features or flexibility. With a wide array of options to choose from, the Fabius Tiro can be customized to suit your needs and can be upgraded when those needs change. | 3030 Ohmeda Dr., Madison, WI 53718  
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GE Healthcare’s Avance CS2 features a 15-inch touch screen ventilator display. The optional ecoLOW feature provides a graphical display of oxygen flow and anesthetic agent use that shows your preset target and calculates the cost of agent used in real time. Clinicians can use this to adjust oxygen flow to help avoid unnecessarily high fresh gas flow rates for potential environmental and economic benefits. |
**ANESTHESIA MACHINES**

**GE Healthcare**

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Sleek. Simple. Scalable. GE Healthcare’s Carestation 650 is a compact, versatile and easy-to-use anesthesia system designed to help clinicians deliver reliable anesthesia care to solve today’s toughest challenges. Featuring an elegant modern design, its slim, compact frame is well suited to constrained environments like ambulatory surgery centers.

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Amsoir Plus CO₂ absorbent and absorbers from GE Healthcare are tested and verified to function with compatible GE anesthesia machines. The products perform optimally in removal of CO₂ from the breathing system while offering benefits to the patient, environment and clinical operators. GE Healthcare also now offers patient circuits, filters and more.

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getinge.com/flow-i

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**Mindray**

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mindraynorthamerica.com

Flexibility when and where you need it. The A4 Advantage Anesthesia System offers a versatile solution for optimal patient care. Flexible design allows customization of ventilation capabilities with optional integrated gas analysis and low-flow decision support is available with the Optimizer™. Industry standard HL7 data output provides facilities with a cost-effective anesthesia system.

**A5 Advantage Anesthesia System**

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customerservice@mindray.com
mindraynorthamerica.com

Scalable functionality and support: The A5 Advantage Anesthesia System offers modular scalability with advanced functionality. Optional features include integrated gas analysis, spirometry loops, airway pressure release ventilation and lung recruitment, and low-flow decision support is available with the Optimizer™. Industry standard HL7 data output provides facilities with an ideal choice for hospital standardization.

**A7 Advantage Anesthesia Workstation**

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mindraynorthamerica.com


**Anesthetic Vaporizers**

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mindraynorthamerica.com

Mindray offers a full range of anesthetic vaporizers for use with the A-Series anesthesia systems. The V60 vaporizers are available for isoflurane and sevoflurane. The V60’s Automatic Flow/Temperature/Pressure Compensation ensures a constant output and accurate concentration of anesthetic agents. Isoflurane, sevoflurane and desflurane are available in the Vapor 2000 style to satisfy individual customer needs.
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Smart. Innovation.

Delivering innovations in advanced hemodynamic monitoring for hypotension management and individualized fluid management.

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*ClearSight finger cuff is only compatible with EV1000 monitoring platform.

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**WilMarc**

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CLEANMASK™, this revolutionary mask was designed to match patient anatomy with less applied pressure than with traditional masks while providing additional protection to the bridge of the nose. Additional finger grips provide positive grip for secure placement. CLEANMASK is manufactured in the United States with USP Class VI materials, which are free of PVC and all phthalates. Colored sizes are available.

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(800) 685-6706
info@wilmarcmc.com
wilmarcmc.com

**ARMSTRONG MEDICAL INDUSTRIES, INC.**

**ALUMINUM WIRELESS AUTO-LOCKING CART**

575 Knightsbridge Pkwy., Lincolnshire, IL 60069
(800) 333-4232
csr@armstrongmedical.com
armstrongmedical.com

The Aluminum Wireless Auto-Locking Cart features keyless entry, an LCD display (shows date, time of day, current battery life, and programmable menu-driven display system that prompts you to each additional command), a menu-driven display system that prompts you to each additional command, up to 5,000 user codes, a supervisor code for programming, manual or automatic locking. Optional card readers and software are available.

**Dräger**

**INFINITI™ ACUTE CARE**

3135 Quarry Rd., Telford, PA 18969
(800) 437-2437
info.usa@draeger.com
draeger.com

The Infinity Acute Care System monitoring solution is designed to streamline workflow in all care areas. It teams the Infinity M540 patient monitor with the Dräger Medical Cockpit™. The compact Infinity M540 acquires patient data at the bedside and in transport, without having to disconnect the patient. The Medical Cockpit provides a clear, widescreen view of your patient’s real-time vital signs together with comprehensive patient data.

**Dräger**

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(800) 437-2437
info.usa@draeger.com
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Designed for monitoring at the point of care, Infinity Omega-S features an Infinity Kappa patient monitor with a 20-inch-wide Infinity C700 for IT workstation display. The touch screen feature allows you to quickly gain fingertip access to critical patient information. Combined with a Dräger anesthesia workstation, Infinity Omega-S integrates live anesthesia device data with patient data management and clinical applications to support on-the-spot decision making.

**BELL MEDICAL**

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klueters@bellmedical.com
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Introducing the new Stimpod 450X Quantitative train-of-four (TOF) monitor and nerve stimulator. Objective TOF is endorsed by the Anesthesia Patient Safety Foundation and is in the International Anesthesia Research Society’s consensus statement. The Stimpod 450X is simple to operate and quick to set up with no calibration needed. It is economical because it uses a reusable cable accelerometer sensor and inexpensive ECG leads. It offers data connectivity to electronic health record systems. The 450X has proven to reduce residual neuromuscular blocking agents.

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**ACUMEN ANALYTICS SOFTWARE**

One Edwards Way, Irvine, CA 92614
(800) 424-3278
criticalcare_us@edwards.com
edwards.com/hpxsoftware

Acumen Analytics software offers retrospective data analysis and hemodynamic insights into patient perfusion. This software provides statistics on hypotensive calculations such as average number of hypotensive events, duration of each event and time-weighted average of hypotension for each patient.
The Buyer’s Guide is a...
Complete archives. 
Web-only content. 
Multimedia. 
And more ...

ANESTHESIOLOGYNEWS.COM
By providing a more sensitive indicator of oxygen imbalance, Edwards oxygen saturation, an early indicator of hypotensive event (defined as MAP <65 mm Hg for a duration of at least one minute) before the event occurs and provides insights to inform a potential course of action.

The minimally invasive Acumen IQ sensor connects to any existing radial arterial line, and unlocks the Acumen Hypotension Prediction Index software. This first-of-its-kind technology detects whether your patient is trending toward a hypotensive event (defined as MAP <65 mm Hg for a duration of at least one minute).

The noninvasive ClearSight System provides valuable hemodynamic insight into an expanded patient population, enabling you to make more informed decisions about volume administration in moderate- to high-risk surgery. Parameters provided noninvasively include stroke volume, stroke volume variation, cardiac output and continuous blood pressure.

With high-quality graphics and an intuitive touch screen that's easy to use and customize, the HemoSphere advanced monitoring platform opens a whole new dimension in patient information delivery. Compatible with the Swan-Ganz pulmonary artery catheters and the Edwards oximetry central venous catheter, you can see your patient's physiologic status and analyze trends with enhanced clarity.

Swan-Ganz pulmonary artery catheters offer a comprehensive hemodynamic profile delivered in a single device to guide your treatment strategy. Continuously assess flow, pressure and the global indicator of oxygen saturation for a comprehensive view of cardiovascular function in your critically complex patients, including cardiac surgery patients.
**MONITORING SYSTEMS & DEVICES**

**TruWave Pressure Transducer and VAMP Closed Blood Sampling System**

Edwards Lifesciences

One Edwards Way, Irvine, CA 92614

(800) 424-3278
criticalcare_us@edwards.com
edwards.com/truwave

Accurate and safe solutions for pressure monitoring and blood sampling, the TruWave pressure transducer and VAMP closed blood sampling system may be used independently or combined for a precise and reliable system.

**GE Healthcare**

**B125 Patient Monitor**

3030 Ohmeda Dr, Madison, WI 53718

(866) 281-7545
david.heeny@ge.com
gehealthcare.com

GE Healthcare’s B105 and B125 patient monitors deliver clinical performance you can trust. They are simple and intuitive for busy caregivers, flexible for diverse care areas and acuity needs, and reliable for challenging work environments. These advanced B1X5 patient monitors are equipped with parameter technologies and dependable features that empower you to monitor your patients with greater confidence.

**GE Healthcare**

**CARESCAPE Monitors**

3030 Ohmeda Dr, Madison, WI 53718

(866) 281-7545
david.heeny@ge.com
gehealthcare.com

GE Healthcare’s clinically advanced and highly configurable CARESCAPE Monitor helps you stay a step ahead with clinical tools that meet even the highest acuity patient needs. Designed with clinicians, for clinicians, it’s an easy-to-use system that fits how you work and handle patient data, offering flexibility, scalability and exceptional customization. Get the monitoring tools you need today, on a platform that’s designed for the future.

**IDMED - BlueStar Int’l Enterprises, Inc.**

**ToFscan Train-of-Four Monitor**

1777 NE Loop 410, Suite 602, San Antonio, TX 78217

(210) 820-2644
contact@toscan.com

toscan.com

ToFscan is the latest quantitative train-of-four monitor. Its silicon splint integrates a 3D sensor and measurements are optimized, which makes the device free of calibration. ToFscan is intuitive and easy to navigate with one wheel button. ToFscan is user-friendly and provides reliable measurements for neuromuscular transmission.

**Mindray**

**BeneVision N1 Monitor/Module**

800 MacArthur Blvd., Mahwah, NJ 07430

(888) 288-2121
customerservice@mindray.com
mindraynorthamerica.com

The BeneVision N1 is a multiparameter module for N-Series monitors, transport and bedside monitor—all in one. N1’s feature set includes 3/5/12 lead ECG with ST segment and arrhythmia analysis, noninvasive blood pressure (NIBP), dual invasive blood pressure (IBP), oxygen saturation (SpO2), respiration, temperature and optional end-tidal carbon dioxide (EtCO2). N1 is lightweight (2.6 lb), versatile and maintains continuity of patient information, speeding workflow from bedside to transport and beyond.

**Mindray**

**BeneVision N12/N15/N17 Patient Monitors**

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mindraynorthamerica.com

The N-Series is a monitoring platform targeted to mid-to-high acuity clinical environments. Choose from a 12-, 15- or 17-inch multigesture touch screen display, optional multigas module with MAC measurements, neuromuscular transmission and brain regional oxygen saturation (rSO2). The N-Series is optimal in an OR setting. Use the N1 as both the multiparameter module and the transport monitor, providing a smooth, seamless transport with no interruption in patient monitoring.

**Mindray**

**BeneVision N19/N22 Patient Monitors**

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customerservice@mindray.com
mindraynorthamerica.com

The N19 and N22 monitors are designed with an unprecedented level of customization and advanced capabilities, perfectly suited for use across the entire perioperative space. Options such as cardio pulmonary bypass mode, neuromuscular transmission, rSO2 and OR-specific user configurations make these monitors a preferred solution for both anesthesiologist and surgical staff.

**Mindray**

**Passport 8/12 Patient Monitors**

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(888) 288-2121
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mindraynorthamerica.com

The Passport 8 and 12 monitors have touch screen capability, 3/5/12 lead ECG, SpO2, 2 IBP (Passport 12 only), NIBP, respiration and temperature—all standard. Module options offer the ability to add EtCO2, IBP and carbon monoxide, or a combination of all three. In addition, the Passport 12 offers a multigas module that measures oxygen, CO2, nitrous oxide and five anesthetic agents.
INDICATIONS AND USAGE

Clorotekal® 1%
(Cloroprocaine HCl Injection, USP)
50 mg/5 mL (10 mg/mL)

Clorotekal® is a prescription drug indicated for intrathecal injection for the production of subarachnoid block (spinal anesthesia) in adults undergoing surgical procedures. Indicated procedures include those suitable for Clorotekal's short duration of action.

CONTRAINDICATIONS

Clorotekal is contraindicated in patients with a known hypersensitivity to the active substance, medicinal products of the PABA (para-aminobenzoic acid) ester group, other ester-type local anesthetics or to any of the excipients. General and specific contraindications to spinal anesthesia regardless of the local anesthetic used, should be taken into account (e.g., decompensated cardiac insufficiency, hypovolemic shock, coagulopathy). Intravenous regional anesthesia (the anesthetic agent is introduced into the limb and allowed to set in while tourniquets retain the agent within the desired area). Serious problems with cardiac conduction. Local infection at the site of proposed lumbar puncture and Septicemia.

Please see additional Important Safety Information and Full Prescribing Information on the reverse side of this ad. You are encouraged to report negative side effects of prescribed drugs to the FDA. Visit www.fda.gov/medwatch or call 1-800-FDA-1088.

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Clorotekal®
(chlorpheniramine hydrochloride) injection for intrathecal use
INDICATIONS AND USAGE
CLOROTEKAL® (chlorpheniramine hydrochloride) is indicated for intrathecal injection for the production of subarachnoid block (spinal anesthetics) in adults and for the administration of surgical procedures. Indicated procedures include those suitable for CLOROTEKAL® short duration of action.

CONTRAINDICATIONS
- CLOROTEKAL® is contraindicated in patients with a known hypersensitivity to the active substance: medicines of the PABA para-aminobenzoic acid) elder group, other elder-type local anesthetics or to any of the excipients (see Warnings and Precautions).

- Systemic or spinal contamination to the spinal anesthesia of the local anesthetic used, should be taken into account (e.g., decompensated cardiac insufficiency, hypovolemic shock, coagulopathy).

- Intrathecal injection into the third and allowed to sit while turnournants retain the agent within the desired area.

- Serious problems with cardiac conduction
- Local anesthetic at the site of prolonged puncture
- Seephrenia

WARNINGS AND PRECAUTIONS
Risks with Neuraxial Anesthesia
Local anesthetics are administered by clinicians who are well versed in diagnosis and management of dose-related toxicity and other adverse reactions which might arise from the block, and then only after ensuring the immediate availability of oxygen, other resuscitative resources, and oxygen supply and the personnel resources needed for proper management of toxic reactions and related emergencies (see Adverse Reactions and Overdosage). Delay in proper management of dose-related toxicity, utilization from any causes and/or altered sensibility may lead to the development of acidosis, cardiac arrest, and respiratory depression.

The clinician should take the appropriate measures to avoid an intrathecal injection. In addition, it is essential for the clinicians to know how to recognize and treat undesirable effects, systemic toxicity and other complications. If signs of acute systemic toxicity or total spinal block are observed, the patient should be carefully monitored. Muscle spasm must be stopped immediately (see Overdosage).

Cardiovascular System Reactions
Hypertension and bradycardia are well-known side effects of all local anesthetics (see Adverse Reactions and Overdosage). A severe or transitory effect of spinal anesthesia is total spinal block, with concurrent cardiovascular and respiratory depression. Cardiovascular depression is induced by an extended block of the sympathetic nervous system, which may induce severe hypertension and bradycardia to the point of cardiac arrest. Respiratory depression is induced by the block of the respiratory musculature and the diaphragm. Careful and constant monitoring of cardiovascular and respiratory (apnea of ventilatory) vital signs and the patient’s state of consciousness after local anesthetic injection. Respiratory depression, headache, anxiety, incoherent speech problems, light-headedness, vomiting, nausea and tingling of the mouth and lips, hearing problems, tinnitus, dizziness, blurred vision, convulsions, loss of consciousness (miosis, depression, or drowsiness) may be the early warning signs of central nervous system toxicity (see Overdosage and Overdosage).

Risk of Hypersensitivity Reactions

CLOROTEKAL® is contraindicated in patients hypersensitive to drugs of the PABA elder group. Allergic type reactions may occur as a result of sensitivity to the local anesthetic or to other formulation ingredients. These reactions are characterized by signs such as urticaria, pruritis, rhinitis, angioedema (including edema, laryngitis, sneezing, nausea, vomiting, diarrhea, syncope, excessive sweating, elevated temperature, and the type of generalized urticaria (including total urticaria), Cross sensitivity among members of the elder-type local anesthetic group has been reported. The usefulness of pretreatment sensitivity has not been definitively established (see Adverse Reactions).

Risk of Chondrolysis in Patients Receiving Intrathecal Injections
Injection of local anesthetics (such as chlorpromazine and other sympatholytic and other surgical procedures is an unproved use and are being post-marketing reports of chondrolysis in patients receiving such injections. The risk increases in patients treated with bilateral or sequential injections of corticosteroids and chlorpromazine. Patients treated with bilateral or sequential injections of corticosteroids and chlorpromazine have also been reported to undergo the second stage of labor by removing the parutine relics urge to bear down by interfering with motor function. The use of electrical obstetric equipment may increase the risk for toxicity, chondrolysis. The use of some local anesthetic drug products during labor and delivery may be followed by diminished muscle strength and tone for the first day or two of life.

Maternal hypotension has resulted from regional anesthesia. Local anesthetics produce vasodilation by blocking sympathetic nerves. The total heart rate also should be monitored continuously, and electronic fetal monitoring is highly advisable.

Lactation

There are data on the presence of chlorpheniramine in human milk, the effects on the breastfed infant, or the effects on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother’s clinical need for CLOROTEKAL® and any potential adverse effects on the breastfed infant from CLOROTEKAL® or from the underlying maternal condition.

Pediatric Use

Safety and effectiveness in pediatric patient have not been established.

Geriatric Use

Patients over 65 years, particularly those with hypertension, may be at increased risk of developing hypotension while undergoing spinal anesthesia with CLOROTEKAL®.

Clinical studies of CLOROTEKAL® did not include sufficient numbers of subjects age 65 and older to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between elderly and younger patients. In general, an elderly patient will have greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy (see Warnings and Precautions).

Hepatic and Renal Impairment

Since elder-type local anesthetics are hydrolyzed by plasma cholinesterase produced by the liver, use CLOROTEKAL® cautiously in patients with advanced hepatic disease (see Warnings and Precautions).

This drug and its metabolites are known to be substantially excreted by the kidney, and the risk of toxic reactions might be greater in patients with impaired renal function.

OVERTOXIS

Acute emergencies from local anesthetics are generally related to hyperpyrexia levels exceeding the therapeutic range. In addition, systemic inflammatory reactions are known to potentiate the cardiovascular effects and the development of profound hypotension. The clinician should be familiar with the use of oxygen, with appropriate arteriovenous drugs. Supportive treatment of circulatory depression may require administration of dopamine fluids and, when appropriate, a vasopressor dictated by the clinical situation (such as ephedrine or to improve myocardial contractility), If not treated immediately, both convulsions and cardiovascular depression can result in hypoxia, acidosis, bradycardia, arrhythmias and cardiac arrests. Recovery has been reasserted after pneumothorax rescue or in a pneumothorax masson, employing drugs and techniques familiar to the clinician, may be indicated, after intravenous administration of oxygen by mask; difficulty in encountering in the maintenance of a patient’s airway if proned ventilatory support (assisted or controlled) is indicated.

DESCRIPTION

CLOROTEKAL® is a sterile non-pyrogenic local anesthetic.

1 mL of solution contains: 2 mg of chlorpheniramine hydrochloride, equivalent to 44.05 mg/mL (0.1 mg/mL) chlorpheniramine. It contains as the following inactive ingredients: hydrochloric acid (for pH adjustment), sodium chloride, water for injection.

Rx only

May be a registered trademark of Sintapi S.A.

BiBRAUN

Manufactured by B. Braun Medical Inc.
Braintree, MA 02184-3524 USA
1-800-227-2982
Made in Switzerland
**PAIN MANAGEMENT**

**AMBUCO INC.**

**AMBUC ACTION™ BLOCK PAIN PUMP**

6230 Old Dobbin Ln., Suite 250, Columbia, MD 21045  (803) 362-9482 inquiries@ambusa.com  ambusa.com

The ACTION™ Block Pain Pump provides a continuous, stable delivery of local anesthetic solution to the nerve block catheter and enables the anesthesiologist to tailor the infusion strategy to best match each individual patient’s unique pain needs throughout the course of treatment.

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**B. BRAUN MEDICAL INC.**

**XPERIUS® ULTRASOUND SYSTEM AND ULTRA 360° NEEDLES**

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B. Braun and Philips are reimagining regional anesthesia with the Xperius Ultrasound System. Xperius’ touch screen is designed to provide intuitive touch and gesture control for depth gain, and it offers an optimal viewing position with the articulating arm. B. Braun’s Ultra 360 needles are designed for ultrasound visualization and tip identification with a new X-pattern. The needles have visibility from all sides with 360-degree markings for ultrasound.

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**ULTRASOUND NEEDLES FOR NERVE BLOCKS & PAIN INJECTIONS**

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See the needle, see the target and improve your success rate. Our focus on the tip reduces manufacturing costs and allows you to see the exact location of the needle’s tip. No other needle is as accurate and affordable.

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**MERCURY MEDICAL®**

**FACE-CRADLE®**

11300 49th St. North, Clearwater, FL 33762  (727) 573-0088  dolsten@mercurymed.com  mercurymed.com

The only fully adjustable prone support system. The Face-Cradle is for use in prone-position surgeries, offering clinicians greater visibility of the patient’s face. The Face-Cradle system consists of a mirror, a base and a soft contoured foam set. Advantages include simple setup, “no waiting.” Fully adjustable cushion set accommodates most adult head sizes and provides greater visibility of the patient’s eyes and endotracheal tube. “When Vision Matters, You Have Control.”

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**PAIN MANAGEMENT**

**VM POSITIONING, INC.**

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The Voss Prone Positioner™ provides clearance for the eyes, nose and mouth while evenly distributing the weight over the rest of the positioner. Features also include a v-channel for the endotracheal tube and easy access to confirm clearance and massage contact points to maintain blood flow. VM Positioning, Inc. is a woman-owned small business, certified by the Women’s Business Enterprise National Council.

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**BELL MEDICAL**

**EyePro and NoPress**

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EyePro and NoPress are designed to reduce costly eye injuries and improve patient satisfaction scores. EyePro is a sterile dressing that uses dual zone adhesive to seal the eye area but not harm eyelids and eyelashes upon removal. NoPress shields the eyes from external forces that might harm the eyes. Call for free samples of both the EyePro and NoPress eye shield!

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**SAFE LABEL SYSTEM SLS 550i**

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The standard of care for safe and compliant drug labeling, Codonics Safe Label System integrates with anesthesia dispensing carts and uses barcode technology and visual/audible confirmations to help eliminate the OR’s top medication errors. Full-color, Joint Commission-compliant labels are presented and ready to apply to syringes, bags and more. Every label includes a unique barcode for hands-free electronic documentation and additional safety check at administration with Epic, Cerner, and other AIMS and electronic health record systems.

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**VIGILANT LABELS**

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950 East State Highway 114, Suite 180, Southlake, TX 76092  (817) 797-2331  sales@vigilantlabels.com  vigilantlabels.com

Developed by an anesthesiologist, Vigilant Labels was founded on a mission of “every label, every time.” The Click-to-Comply system is optimized for ease of use and proven to increase compliance. It includes everything you need to build and print personalized, compliant syringe labels on demand. Just two clicks and 2 seconds to compliance. Drop us a line today to schedule your demonstration!
Havel’s ultrasound needles for nerve blocks and pain injections.

Developed by Hakko Medical, Japan, exclusively for Havel’s Inc. Our echogenic needles outperform the competition where needed most, on deep blocks with steep insertion angles*. Our Corner Cube Reflectors (CCR) and Micro Laser Etching (MLE) reflect sound waves back to the transducer, illuminating the needle and improving your success rate, while our focus on the tip reduces cost and confirms the exact location of the needle’s tip. No other needle is as accurate and affordable.

Get a free sample today:
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CCR®
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*Refers to needle echogenicity in ultrasound-guided lumbar spine injections; a cadaveric study Gofeld, M, Krashin, DL, Ahn, S. Havel's.com
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Ambu® ACTION™ Block Pain Pump

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The ACTION™ Block Pain Pump provides a continuous, stable delivery of local anesthetic solution to the nerve block catheter and enables the anesthesiologist to tailor the infusion strategy to best match each individual patient’s unique pain needs throughout the course of treatment.

B. Braun Medical Inc.

Stimuplex® Ultra 360® Needles

824 12th Ave., Bethlehem, PA 18018
(800) 227-2962
inquiry.us@bbraunusa.com
bbraunusa.com/SU360

Stimuplex® Ultra 360® needles feature B. Braun’s new echogenic 360-degree X-pattern. The unique X shape, combined with a clear coating, reflects more ultrasound waves back to the probe than previous designs. These needles are designed to provide visibility without compromising puncture characteristics.

PAJUNK Medical Systems

EpiSpin Lock

6611 Bay Circle, Suite 140, Norcross, GA 30071
(888) 972-5885
info@pajunk-usa.com
pajunkusa.com

EpiSpin Lock combines two techniques into one product: atrumatic spinal anesthesia using the SPROTTE® needle and continuous epidural catheter placement using the Tuohy needle. EpiSpin Lock offers smooth spinal puncture while minimizing needle tip damage through the back-eye opening on the distal end of the Tuohy. With the integrated locking mechanism, the SPROTTE needle is stabilized during injection.

PAJUNK Medical Systems

Regional Anesthesia Trays

6611 Bay Circle, Suite 140, Norcross, GA 30071
(888) 972-5885
info@pajunk-usa.com
pajunktrays.com

PAJUNK® anesthesia trays contain high-quality PAJUNK components for single-shot, continuous peripheral nerve block and neuraxial procedures. Neuraxial trays have 4-inch procedural needles to fit a wider range of patients, saving facilities money by avoiding unnecessary drop-ons. Color-coded labels make it easier to find the tray you need, and a smaller tray size frees up facility storage space. Available in Luer, NRSF, and with or without drugs.

PAJUNK Medical Systems

EpiLong Soft

6611 Bay Circle, Suite 140, Norcross, GA 30071
(888) 972-5885
info@pajunk-usa.com
pajunkusa.com

PAJUNK® offers high-quality epidural options like the EpiLong Soft, a spring-wound catheter with a soft material and tip for increased patient safety and comfort. The integrated helical coil allows the soft material to have maximum kink resistance and flexibility. The soft rounded tip helps to reduce accidental vessel injury and dura puncture. Available in 19 G and 20 G options, and in PAJUNK epidural trays.

PAJUNK Medical Systems

SonoPlex II

6611 Bay Circle, Suite 140, Norcross, GA 30071
(888) 972-5885
info@pajunk-usa.com
sonoplex2.com

New from PAJUNK® is the SonoPlex II next-generation single-shot needle with an optimized color-coded hub for easy needle size identification, removable stimulation cord, and fixed injection tubing. No changes have been made to the needle shaft and patented Cornerstone Reflector, providing the same great echogenic results you’re used to. These improvements have also been made to SonoBlock II and SonoTAP II.

PAJUNK Medical Systems

Ultrasound Needles for Nerve Blocks & Pain Injections

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See the needle, see the target and improve your success rate. Our focus on the tip reduces manufacturing costs and allows you to see the exact location of the needle’s tip. No other needle is as accurate and affordable.

PAJUNK Medical Systems

Regional Anesthesia

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See the needle, see the target and improve your success rate. Our focus on the tip reduces manufacturing costs and allows you to see the exact location of the needle’s tip. No other needle is as accurate and affordable.

MINDRAY

TE7 ULTRASOUND SYSTEM

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The TE7 Ultrasound System is designed to provide superior image quality for rapid, confident procedures at the bedside. Intuitive touch screen controls and exam presets minimize the learning curve and eliminate the need to navigate a knob-cluttered keyboard. A rich suite of needle visualization technologies and one-touch image optimization help to reduce exam times and improve patient safety.

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