

Hospimedia[®]

I N T E R N A T I O N A L

System for Surgical Fluid Waste Disposal

An innovative surgical fluid management and disposal system improves safety and efficiency in the operating room (OR) by employing a direct-to-drain technology.

The Streamway System suctions operative fluid directly from the surgical field, automatically measuring and recording fluid volume before

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New Program Aids Physicians Identify Gene-Drug Interactions

A data management and analysis platform gives doctors real-time therapeutic and diagnostic guidance, based on the patient's genetic profile.

Developed by researchers at Mount Sinai Medical Center (MSMC; New York, NY, USA; www.msmc.com), the revolution-

ary platform communicates with the MSMC electronic health record (EHR). MSMC is pilot testing the platform through the Clinical Implementation of Personalized Medicine through Electronic health Records and Genomics (CLIPMERGE) research program. Once a patient has consented to take part in

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Soft Tissue Anchor Secures Tendons to Bone

An innovative shape memory-fixation device attaches a tendon, ligament, or soft tissue to bone in the shoulder, knee, hand or wrist, and foot or ankle.

The Eclipse Soft Tissue Anchor is a two-part sheath-and-bullet device that offers strong fixation, easy insertion, and versatility thanks to

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Minimally Invasive Device Offers Solution to Diabetes, Obesity

A gastric liner, endoscopically-implanted inside the small intestine via the mouth, offers a breakthrough treatment to type 2 diabetes and obesity. By obstructing the mixing of digestive enzymes with the flowing food, while stimulating the release of certain key beneficial hormones in the intestine, the EndoBarrier's effects mimic those of a gastric bypass procedure without resort to surgery.

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Wireless Monitor Checks Vital Signs

An ultrathin adhesive strip continuously monitors the patient's heart rate, respiratory rate, and temperature, significantly increasing hospital surveillance capabilities.

The SensiumVitals vital signs monitoring solution is a disposable ultra-light weight, wireless device that enables the rapid detection of

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Respiratory Dialysis System Could Replace Mechanical Ventilation

A respiratory dialysis device removes carbon dioxide (CO₂) and delivers oxygen directly to the blood, allowing a patient's lungs to rest and heal. The Hemolung Respiratory Assist System (RAS) offers an alternative to invasive

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Revolutionary Autoinjector Transforms Drug Delivery

A novel autoinjector can deliver drugs with a viscosity equivalent to that of motor oil. The Oval Medical automatic injection device is based on the use cyclic olefin plastic, and can be used to deliver viscous (over 2,000 cPs [or mPa·s]) and non-viscous drugs.

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Wound Dressing Signals Presence of Toxic Bacteria

An innovative medical dressing detects the first signs of the lethal Toxic Shock Syndrome (TSS) along with other burn wound infections, potentially saving the lives of children with serious burns. Researchers at the University of Bath (United Kingdom; www.bath.ac.uk) and Frenchay Hospital

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SURGICAL LAMP ACEM

The StarLED 5 features a light beam without infrared rays, eliminating heat under the lamp and on the surgeon's heads. StarLED 5 are circularly positioned, and generate a light spot of 21 cm at one meter with an illumination level of 135,000 lux for a steady life cycle of 50,000 hours.

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CORONARY STENT SYSTEM Abbott

The XIENCE Xpedition 48 stent system is designed for the treatment of long lesions in the vessels that supply blood to the heart. The stent has the potential to lower procedural costs by enabling physicians to use fewer devices, and reduce time during interventional heart procedures.

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SHUNT VALVE Aesculap

The Miethke proSA is an adjustable, gravitational shunt valve designed to offer surgeons treating patients with Hydrocephalus a flexible shunt system. Key features include an integrated Active-Lock MR brake that helps prevent the valve from inadvertent pressure adjustments.

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NERVE PROTECTOR AxoGen

The AxoGuard Nerve Protector is designed to wrap and protect injured peripheral nerves, and reinforce coaptation sites while preventing soft tissue attachments. The product is derived from a porcine submucosa extracellular matrix, along with the AxoGuard Nerve Connector.

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Next-Generation Occluder Reduces Stroke Risk

A novel occluder closes the left Atrial appendage (LAA) in patients diagnosed with nonvalvular atrial fibrillation (AF), potentially reducing the risk of stroke.

The Amplatzer Amulet LAA occluder is a self-expanding, braided Nitinol mesh that blocks the LAA at its aperture, minimizing the opportunity for blood clots to form or migrate into the bloodstream. The next-generation device is built with a longer lobe and waist than previous versions to allow for easier placement, and an end screw that is set flush with the occluding disc, creating a smooth surface within the left atrium. The large disc diameter offers increased orifice coverage. The device is preloaded into the delivery catheter, which simplifies device preparation and ultimately streamlines the entire procedure for the physician.

The Amplatzer Amulet LAA device is a product of St. Jude Medical (SJM; St. Paul, MN, USA; www.sjm.com) and is offered in eight sizes to accommodate varying anatomies.

"Feedback from implanting physicians who have used our first-generation product has been instrumental to improving an already successful device," said Frank J. Callaghan, president of the cardiovascular and ablation technologies division at SJM. "We are pleased to offer a next-generation LAA occluder that addresses a wider range of patient anatomies, is easier to implant, and has the potential to further reduce the incidence of stroke in AF patients."

The LAA is a tube-shaped appendage connected to the left atrium that can potentially hold static blood during an episode of AF,



increasing the likelihood of clot formation; research shows that in AF patients, approximately 90% of all cardiac blood clots form in the LAA. If a clot forms in the LAA and is then released into the heart, it may

enter blood circulation, travel to the brain, block a vessel, and cause an ischemic stroke.

Image: The Amplatzer Amulet left atrial appendage (LAA) occluder (Photo courtesy of St. Jude Medical).

System for Surgical Fluid Waste Disposal

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disposing it directly into the healthcare facility's existing plumbing system. As a result, the system virtually eliminates OR workers' exposure to blood, irrigation fluid, and other potentially infectious fluids found in the surgical environment. The system is installed either in or on the OR wall, keeping it out of the way of staff, yet available when needed. Since the system is connected directly into the facility's existing plumbing, it can automatically collect and dispose of suctioned fluids throughout a procedure without interruption.

Preprocedure set-up simply involves connecting the suction tubing and procedure filters to the

devices suction inlet ports. Postprocedure, cleaning the system entails detaching the suction tubing, removing the procedure filter, connecting the system to a proprietary cleaning solution container, and activating the clean cycle on the touch screen control panel. The Streamway System is a product of BioDrain Medical (Eagan, MN, USA; www.biodrainmedical.com), and has been approved by the US Food and Drug Administration (FDA).

"We believe our FDA-approved product provides a technologically advanced fluid management solution that is superior to the current manual solution, which relies on manual disposal systems and canis-

ters," said Josh Kornberg, CEO of BioDrain Medical. "We are extremely pleased with these initial installations and look forward to expanding our presence globally in an effort to increase our market share worldwide."

Manual surgical fluid handling methods involve carrying filled surgical fluid canisters and disposing of them in approved landfills, a process that carries an inherent exposure risk for the workers involved. Approximately 50 million of these potentially disease-infected canisters are disposed of annually in the United States alone, remaining there for years to come as an environmental and healthcare hazard.