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

Infusion Catheter Disperses Medicine Locally

A new infusion catheter isolates a specific vascular treatment region from blood flow to deliver a physician specified fluid.

The ND Infusion Catheter is a multilumen balloon catheter with microchannels designed for better mixing and dispersion of therapeutic agents, as well as delivering them to

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NanoSeptic Surface Effective Against Variety of Pathogens

An innovative technology provides a new tool in the fight against infection and illness of even the most dangerous pathogens.

The NanoSeptic surface, developed in the Center for Advanced Engineering and Research (CAER; Forest, VA, USA; www.caer.us) and manufactured by NanoTouch Mate-

rials (Forest, VA, USA; www.nanotouchmaterials.com), is composed of antimicrobial components that are molecularly bonded on a nanoscale, providing a nonleaching, self-cleaning surface that constantly traps and kills bacteria, viruses, and fungi through a catalytic oxidation process using available light. The

Cont'd on page 4

Responsive Gel Promotes Bone Growth on Implants

An innovative gel can be used to coat titanium implant surfaces and bind protein molecules that promote bone formation. Researchers at Uppsala University (Sweden; www.uu.se) and Institut Laue-Langevin (Grenoble, France; www.ill.eu) succeeded in binding bone morphogenetic protein 2 (BMP-2) to

Cont'd on page 6

Da Vinci System Optimized for Multiquadrant Procedures

The new generation of the da Vinci Xi robotic-assisted surgery system can be used across a wide spectrum of minimally invasive surgery (MIS) procedures, and has been optimized for complex, multiquadrant surgical procedures.

See article on page 6

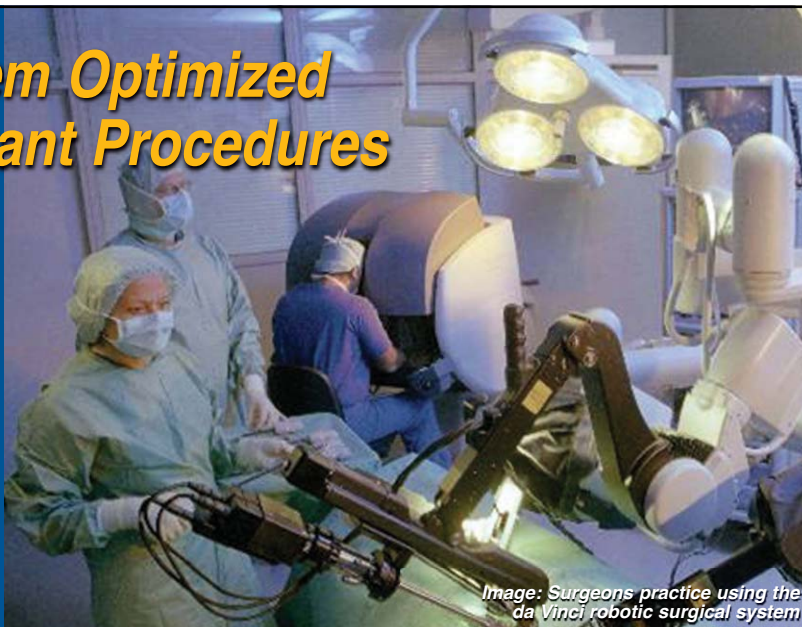


Image: Surgeons practice using the da Vinci robotic surgical system

CT Scans Help Detect Gout When Aspirates Fail

A new study reveals that dual-energy computerized tomography (DECT) scans can detect gout in one-third of patients whose aspirates tested negative for the disease. Researchers at the Mayo Clinic (Rochester, MN, USA; www.mayoclinic.org) conducted a single-center study of 40 patients with active gout and

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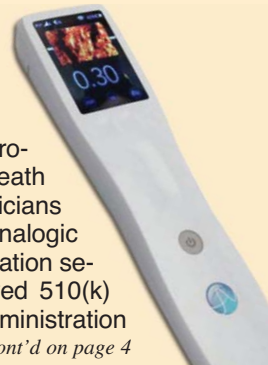
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Pocket-Size Ultrasound Guides Peripheral Intravenous Access

A new, ultra-compact ultrasound device provides direct visualization of structures beneath the skin in real time to effectively guide clinicians placing peripheral intravenous (IV) lines. Analogic Corp., a developer of medical imaging and aviation security technology, reported that it has received 510(k) clearance from the US Food and Drug Administration

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Preoperative PET Reduces Redundant Lung Surgeries

A new study concludes that preoperative positron emission tomography (PET) imaging can reduce by half superfluous lung surgeries.

Researchers at the veterans association (VA) Puget Sound Health Care System (Seattle, WA, USA; www.pugetsound.va.gov) and the University

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Mobile Angiography Eliminates Ceiling Rails

A new rail-free mobile angiography imaging system uses a sophisticated gantry that travels on predefined paths with absolute precision.

The Discovery IGS 740 system uses an un-tethered, laser-guided gantry that carries a wide bore C-arm with dedicated arm-imaging positions to

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SURGICAL LAMP ACEM

The StarLED 5 NX features shadowless, clear, and homogeneous light for visual comfort and enhanced working conditions. The StarLED 5 NX produces a light spot of 21 cm at one meter, with a high illumination level of 135,000 lux for a steady life cycle of 50,000 hours.

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BIO THERAPEUTIC DELIVERY SYSTEM BioCardia

The Helix system enables delivery of biologic therapies to heart muscle from the heart chamber. Features include crossing the aortic valve over a wire to prevent damage, a needle that screws into the myocardium for stable delivery, and use of contrast to confirm tissue engagement.

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MOBILE OR LIGHTS Drager Medical

The Polaris 100/200 can be adjusted in height depending on the situation in the OR, and the size of the surgeon. The lights feature a built-in battery, and are for use in addition to ceiling-mounted OR lights when the surgeon needs an additional light source for more complicated surgeries.

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Plating System Aids Foot and Hand Treatment

A new implant system facilitates surgical stabilization and fixation of small bones in the upper and lower limbs.

The CrossCHECK Plating System is indicated for stabilization and fixation

of fresh fractures, revision procedures, joint fusion, and reconstruction of small bones in the hand, forefoot, mid-foot, wrist, ankles, fingers, and toes. The system may be used in both pediatric and adult pa-



tients. The single use system consists of a variety of bone plates and screws to be used in fixation fractures, osteotomies, and fusions in the extremities of the leg and arm, including the hand and foot.

The various plate designs use either 3 mm or 5 mm screws, and include screws for both locking and non-locking designs; lag screws and cross-hole plates are included for compression. Plate designs include MTP, Lapidus, and 2-7 Hole Utility plates. All plates and screws are manufactured from type II anodization alloy, which enhances the fatigue strength of the device, and thus improves stabilization. The CrossCHECK Plating System is a product of Solana Surgical (Memphis, TN, USA; www.solanasurgical.com), and has been approved by the US Food and Drug Administration (FDA).

"Specially designed ridges are built into the plates to enhance grip, and act as a buttress during the compression process," said mechanical

engineer Rebecca Wahl, vice president of research and development at Solana Surgical. "Studies have shown that similar ridges can also improve host bone health."

Plating is a method of bone fixation in which one or more metal plates are applied across a fracture and anchored, usually by screws, into the fragments; the broken bones must first be surgically reset into their proper position. The method does have some drawbacks; after initially placing the plate on the break or fracture, the bones are compressed together and held under some slight pressure, which helps to speed up the healing process of the bone. Unfortunately, the tension provided by the steel plate is lost after several days and the break or fracture is no longer under compression, slowing the healing process.

Image: The CrossCheck plating system, designed for use in ankle and foot procedures to enhance fatigue strength, and improve stabilization (Photo courtesy of Solana Surgical).



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