

# Hospimedia

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

## Restorative Gel Could Help Reverse Paralysis

A biodegradable implant that delivers a therapeutic gel could help restore healthy nerve function in degenerative disorders such as Parkinson's disease.

Researchers at Tel Aviv University (Israel; [www.tau.ac.il](http://www.tau.ac.il)) developed the implant, which is a soft, biodegradable tube that serves as a

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## Anesthetist Survey Highlights Future Technologies

A recent Europe-wide survey of anesthetists has revealed a range of issues affecting the profession in relation to existing and future technologies.

The survey, conducted by Creative Medical Research (Ipswich, United Kingdom; [www.creative-medicalresearch.com](http://www.creative-medicalresearch.com)) included 104

anesthetists from western, northern, and southern Europe who were asked a number of pertinent questions concerning the nature of current technologies, and those expected to come on stream in the near future, with the answers providing a clear snapshot of priorities for medical device manufacturers.

*Cont'd on page 3*

## Innovative Dye Improves Diagnostic Imaging

Current contrast agents and dyes are costly, difficult to work with, and far from ideal. Now, Danish chemists have discovered a new dye that they report is superior to any of the dyes currently available. Drs. Thomas Just Sørensen and Bo Wegge Laursen are chemists at the University of Copenhagen

*Cont'd on page 6*

## MRI-Guided System Offers Surgical Vision in Brain Procedures

Developed by a consortium of industry leaders, the ClearPoint system uses MRI-guidance toward precise placement of devices in the brain for drug delivery, biopsies, or other procedures. The system has been used to treat brain cancer, Parkinson's, dystonia, and epilepsy.

*See article on page 4*

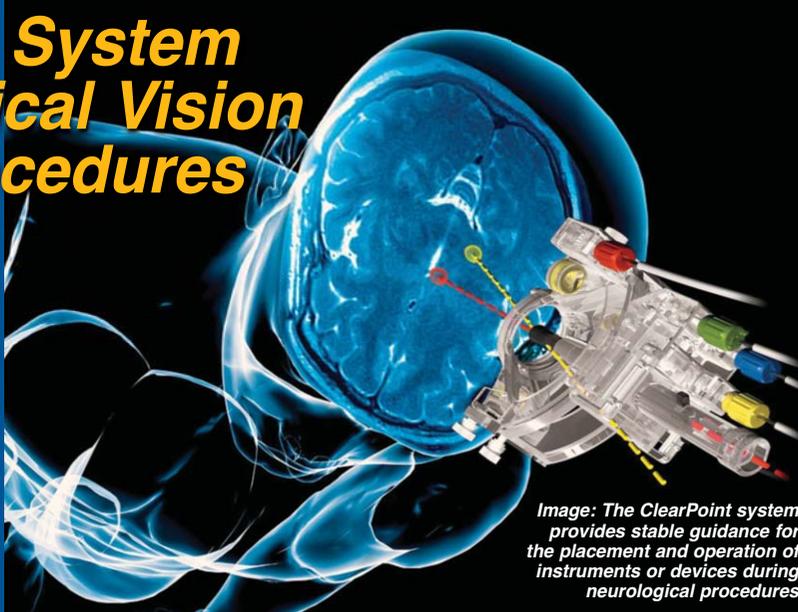


Image: The ClearPoint system provides stable guidance for the placement and operation of instruments or devices during neurological procedures

## Wireless Signals Transform Brain Trauma Diagnostics

A new prototype device analyzes data from low energy electromagnetic waves to provide real time, noninvasive diagnoses of brain swelling or bleeding.

Researchers at the University of California Berkeley (USA; [www.berkeley.edu](http://www.berkeley.edu)) and the Instituto Politécnico Nacional (NPI; Mexico

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## Innovative Laser System Facilitates Soft-Tissue Procedures

An Er,Cr:YSGG (Erbium, Chromium doped: Yttrium Scandium Gallium Garnet) dental laser system can also serve as a surgical instrument for soft-tissue procedures in orthopedic and podiatric surgery.

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## MRI Method Offers New Alternative for Autopsies

Autopsies that are minimally invasive by employing magnetic resonance imaging (MRI) technology and other strategies such as blood tests can determine the cause of death in infants and fetuses just as effectively as conventional autopsies. The new findings, published May 16, 2013, in the British

*Cont'd on page 5*

## Android App Monitors ECG on Smart Phones

User-friendly smart phone application allows consumers to record an electrocardiogram (ECG) in the comfort of their own homes. Developed by researchers at the VTT Technical Research Center of Finland (Espoo; [www.vtt.fi](http://www.vtt.fi)), the Beat2Phone application measures electronic heart

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Image: Courtesy of MRI Interventions

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## LED EXAM LIGHT ACEM

The SOLED 15 features enhanced light intensity, IR-free light beam, color temperature of 4,900 K, and a color rendering index of 95. Other benefits include a long life and low power consumption, and the light is available in ceiling-, wall-, and trolley-mounted versions.

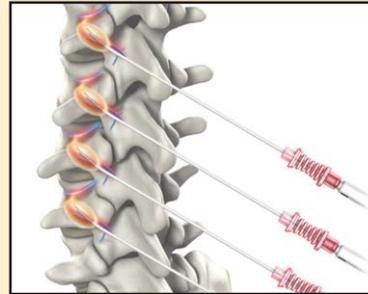
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## SURGICAL FLOOR MAT DeRoyal

The H2NO suctioning and anti-fatigue floor mat is lightweight for addressing heavy fluid procedures. Key features include strong, quiet suction, nonskid design with fluid channels to help keep feet safely out of fluid, and single use to help eliminate cross contamination.

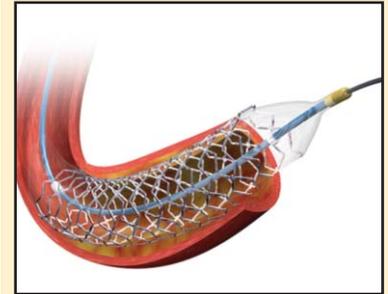
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## SURGICAL COMBINATION Stryker

The Venom cannula/electrode combination offers the potential for greater procedural efficiency and control by creating a 92% larger lesion than a standard gauge needle. This allows for precise anesthesia delivery to the targeted nerve through the side port design.

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## STENT SYSTEM Biosensors International

The BioMatrix NeoFlex is designed as an enhanced stent delivery system for complex lesions and challenging anatomies. The system features biodegradable polymer technology for advanced performance, and increased results in product safety and efficacy.

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## Robotic Guidance Arm Assists Knee Replacement Surgery

A new robotic guidance arm helps surgeons precisely place an implant in unicompartmental knee surgery, also known as partial knee resurfacing.

The Sculptor Robotic Guidance Arm (RGA) assists the surgeon's operation of a cutting burr, limiting the procedure to a safe area so that bone is only removed corresponding to the implant's planned position, as determined both pre- and intraoperatively. A second mechanical tracking arm is attached to the bone that is being sculpted to accurately track the location of the patient, providing real time dynamic referencing relative to both the position of the robotic arm and the surgical plan. The surgeon-controlled system includes an interactive touch screen used throughout the procedure.

The system is based on patent-protected Active Constraint technology, which essentially creates a safety perimeter around the knee, beyond which the cutting tool is not allowed to travel, defining

an actual volume of space within which the burr can be used. The robotic arm can consistently and accurately enable the positioning of a prosthetic implant according to a surgical plan within 2° of the desired orientation, versus 40% for conventionally implanted prosthetics.

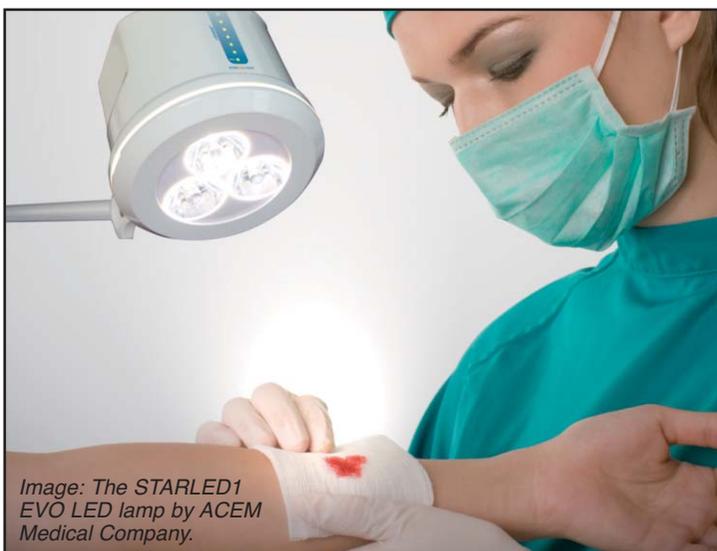
By combining Sculptor RGA technology with patient specific partial knee implants, surgeons can provide a bone conserving solution that is personalized for each case, is affordable, and offers clinical benefits and cost effectiveness when compared current treatment options such as saws and jigs, which are prone to a much higher degree of placement error. The Sculptor (RGA) system is a product of Stanmore Implants (Borehamwood, United Kingdom; [www.stanmoreimplants.com](http://www.stanmoreimplants.com)), and has been approved by the US Food and Drug Administration (FDA).

"Robotic technology represents a major advance in orthopedics, providing accurate placement that is critical to implant longevity and



reproducibility along with tangible cost benefits, making access to robotic surgery more widely available to patients," said Brian Steer, Executive Chairman of Stanmore Implants. "Stanmore is now looking forward to working further with surgeons to continue to develop innovative solutions for the global orthopedic market."

Image: The Sculptor Robotic Guidance Arm (RGA) (Photo courtesy of Stanmore Implants).



## LED Examination Lamp Designed For Universal Applications

A versatile lamp is ideal for diagnostics, cosmetic medicine, first aid, and recovery room applications.

The STARLED1 EVO LED lamp by ACEM Medical Company (Bologna, Italy; [www.acem.it](http://www.acem.it)) is suitable for several medical specialties, among them dermatology, general medicine, gynecology, and dentistry. STARLED1 EVO has a functional design, is easy to move, and its light head remains steady during use once positioned. The lamp has a smooth and easy-to-clean surface to facilitate critical sanitary applications.

The lamp's light beam is homoge-

neous and intense with 60,000 lux at 50 cm and produces an unparalleled quality of light together with a color temperature of 4,900 K and a color-rendering index (CRI) of 95. The innovative I-SENSE touch panel allows adjusting light intensity and selects the desired light level according to the different needs. The lamp assures excellent light intensity at only 12 W.

STARLED1 EVO is available with articulated or flexible arm and according to its final use can be provided with wall, rail and table clamp or be configured as ceiling or adjustable height trolley version.

Image: The STARLED1 EVO LED lamp by ACEM Medical Company.