

Hospimedia

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

Multiparametric MRI Technique Could Replace Tumor Biopsies

A novel magnetic resonance imaging (MRI) technology can provide information about the nature and aggressiveness of a tumor without having to perform a biopsy.

Under development by researchers at the University of Texas (UT) Southwestern Medical Centre (Dallas, TX, USA; www.utswmed.com), the renal multiparametric MRI (mpMRI) algorithm is designed to recognize clear cell carcinoma (ccRCC), the most common and aggressive form of kidney cancer, from MRI scans. The standardized diagnostic

Cont'd on page 3

Gastric Bypass and Sleeve Gastrectomy Equally Effective

A new study concludes that in the morbidly obese, there is no significant difference in excess body mass index (BMI) loss between sleeve gastrectomy and Roux-en-Y gastric bypass (RYGBP).

Researchers at University Hospital Basel (Switzerland; www.unispital-basel.ch), St. Claraspital (Basel, Switzerland; www.claraspital.ch), and other institutions conducted a randomized, two-group trial between January 2007 and November 2011 involving 217 patients (average age 45.5 years, 72% women) who randomly assigned to sleeve gastrectomy

Cont'd on page 16

Advanced Monitor Tracks Brain Function During Anesthesia and Sedation

Based on the bilateral acquisition and processing of four leads of electroencephalography (EEG) signals, the Next Generation SedLine brain function monitoring system helps clinicians control the effects of anesthesia on the brain during sedation procedures.

See article on page 4



Autologous Fat Harvester Facilitates Plastic Surgery

A large-volume fat grafting solution offers plastic surgeons a convenient, closed system for harvesting and depositing autologous fat.

The MTF Biologics (Edison, NJ, USA; www.mtfbiologics.org) LipoGrafer is an efficient, self-contained system for the atraumatic and low pressure, harvesting, processing, and grafting of human lipoaspirate. The system includes the K-VAC Syringe, which delivers constant, spring-activated 300 mmHg harvesting

Cont'd on page 5

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Mobile Fluoroscopic System Continuously Images Extremities

A next-generation mini C-arm offers orthopedists, podiatrists and clinicians diversified imaging options, as well as upgraded storage and transport.

The Hologic (Marlborough, MA, USA; www.hologic.com) Fluoriscan InSight FD Mini C-Arm

Cont'd on page 13



Point-of-Care Alert System Integrates With Electronic Medical Records

A novel point-of-care (POC) alert system links multiple data sources in order to assess care gaps, risk scores, disease registries, clinical documentation gaps, and other patient information.

The Innovaccer (San Francisco, CA, USA; www.innovaccer.com) InAssist POC alerts solution streams and integrates disparate data sources into a patient's electronic medical record (EMR), recognizes when that patient needs attention, and offers actionable insights to healthcare providers; the data is presented on-screen via simple, real-time alerts

Cont'd on page 5

INSIDE

Industry News 25
International Calendar .. 26

Critical Care

News Update 6
Product News 6-10

Medical Imaging

News Update 12
Product News 12-14

Surgical Techniques

News Update 16
Product News 16-20

Health IT

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SURGICAL SYSTEM Qmimed



The Autoforce generator features more advanced computer algorithms, friendly UI, durable hand piece with detachable metal connector and without restriction of times of use. Other benefits include an ergonomic shear for easier operation.

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PATIENT WARMING SYSTEM Cincinnati Sub-Zero



The SurfaceTemp is designed to maximize pressure redistribution, minimize skin shear and continuously deliver consistent heat to promote normothermia. It allows caregivers to provide warmth, comfort and pressure relief to patients in the OR.

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MAGNIFYING LAMP ACEM



The Circled LED features scratch-resistant optical glass with a diameter of 120 mm and a magnification of three diopters. It features seven LEDs with an average life cycle of about 50,000 hours that produces a white IR-free light without heat.

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Bariatric Surgery Lowers Psoriasis Risk in Obese Patients

A new study suggests that bariatric surgery (vertical gastropasty, gastric banding, or gastric bypass) is associated with a lower risk of developing psoriasis, compared to usual care.

Researchers at Sahlgrenska Academy (SA; Göteborg, Sweden; www.sahlgrenska.gu.se) and the National Institute for Health and Welfare (Helsinki, Finland; www.thl.fi) conducted a study to assess the effect of bariatric surgery on the incidence of psoriasis and psoriatic arthritis (PsA) in participants of the Swedish Obese Subjects (SOS) study, of whom 1,991 underwent bariatric surgery, and 2,018 served as controls; none had psoriasis or PsA at baseline. Psoriasis and PsA diagnoses were retrieved from the Swedish National Patient Register and personal questionnaires.

The results showed that during follow-up of up to 26 years, a total of 174 patients developed psoriasis, including 46 who developed PsA. Bariatric surgery was associated with a lower incidence of psoriasis compared with usual care; no significant difference was detected among the three surgical procedures. In addition, both smoking and a longer duration of obesity were independently associated with a higher risk for psoriasis. No significant difference in the risk of developing PsA was detected when comparing the surgery and the control groups. The study was published on November 27, 2017, in *Obesity*.

Psoriasis is a chronic skin condition with intermittent relapses characterized patches, papules, and plaques, which usually itch. Plaque psoriasis is the most common form, and typically manifests as red and white scaly



patches on the top layer of the skin. Psoriasis is linked to many other health problems such as inflammatory bowel disease (IBD), depression, obesity, hypertension, ischemic heart disease, and stroke. Up to one-third of subjects with psoriasis are affected by psoriatic arthritis (PsA), which is characterized by chronic joint and soft tissue inflammation.

Image: A new study asserts bariatric surgery reduces psoriasis incidence (Photo courtesy of Shutterstock).

Gastric Bypass and Sleeve Gastrectomy Equally Effective

cont'd from cover

(107 patients) or RYGBP (110 patients) in order to compare the two procedures in terms of weight loss, changes in comorbidities, increase in quality of life, and adverse events.

The results revealed that in terms of weight loss, both laparoscopic procedures led to similar results at five-year follow-up. Patients lost 68% of their excess weight after a gastric bypass, and 61% after a sleeve gastrectomy, with BMI falling from 44 to 32 for both. Patients with existing gastric acid reflux benefited more from RYGBP, with symptoms eliminated in 60%, compared to just 25% following sleeve gastrectomy. Associated diseases such as hypertension, diabetes, back/joint pain and depression were also improved, as well as general quality of life. The study was published on January 16, 2018, in *JAMA*.

"We have always paid attention to gastroesophageal reflux (GERD)

when advising patients as to which operation they should get, but 31.8% of the people who received the sleeve procedure saw their acid reflux symptoms increase, compared to just 6.3% of those getting the older bypass procedure," said lead author Ralph Peterli, MD, of St. Claraspital. "As a result of the study, we tell them that every third patient not suffering from GERD before surgery may end up experiencing some degree of it in the long run."

Bariatric surgery is achieved by reducing the size of the stomach with an implanted medical device such as a gastric band (GB), through removal of a portion of the stomach via a vertical sleeve gastrectomy or through a biliopancreatic diversion with duodenal switch (BPD-DS), or by resecting and re-routing the small intestines to a small stomach pouch (RYGBP). In the United States there is a much greater increase in GB than RYGBP, probably due to the preconception that GB is a "simple and safer" procedure.