

Medeveryday Monthly Review



MEDEVERYDAY

Think outside the box !

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The only knowledge that can hurt you is the knowledge you don't have. **Anonymous**

Covering events that took place in Medical Device Industry During August 2017

TOP STORIES

Ethicon Launches New laparoscopic suturing device

Ethicon (J&J's subsidiary) has launched a new laparoscopic suturing device by the name of "ProxiSure" in United States. The use of endomechanical curved needle technology allows wrist-like action thereby ensuring improved suturing in closed spaces like those encountered during laparoscopic surgeries. An additional benefit of using this device is enhanced control on the needle, which reduce the chances of needle loss within body cavities. Ethicon is hopeful that this product will bestow increased confidence to surgeons and they will be able to apply sutures with the same convenience as in open surgeries. This will become possible only due to the enhanced control that ProxiSure offers to surgeons during suturing and knot tying.

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Medical Device Manufacturing Zone in India

Work on the development of a 270-acres medical device technology zone near Andhra Pradesh has started in India. India is planning to move forward with its plan to enter the medical device sector. This entire zone will consist of latest facilities dedicated to the development of medical devices. The zone is expected to contain nearly 200 manufacturing units along with the availability of facilities like biomaterial testing, 3D designing of products, gamma irradiation etc. Additional facilities will include warehouses, exhibition halls and convention center. India has already signed contracts with respective service providers and a model factory is likely to be available for display within a few months.

PREVENTING NERVE INJURY DURING SURGERY THROUGH NERVE ILLUMINATING TOOL

During surgery, any injury to a nerve can have far-reaching consequences, not only for the patient but also for the surgeon. Nerve injury can cause functional compromise, sensation loss or in some cases chronic pain; all having negative impact on the lives of patients. Recently however, Kenneth Chin, a medical student in Netherlands has managed to develop a tool that utilizes 'collimated polarized light imaging' (CPLI) to visually detect and identify nerves during surgery. The use of ordinary visual means to detect nerves allow 77% accuracy; whereas, the new tool allows identification of nerves with 100% accuracy. The new device uses polarized light which when passes through nervous tissue makes it stand out from other types of nearby tissues. The developers are hopeful that the new device will allow prevention of nerve injuries during surgery in the coming future.

Biotronik's MRI-safe Pacemaker gets FDA approval

Biotronik gets FDA approval for its newly developed Edora HF-T QP pacemaker, which has the ability to automatically detect MRI environments. Due to its AutoDetect MRI technology and due to its smallest size, the device is expected to capture a significant share of the pacemaker market. The device is enabled to switch to an alternate programming mode, when it detects MRI field; hence patients using this pacemaker are safe when they are subjected to MRI scanning. Biotronik provides a complete range of ProMRI products and for this reason the company is confident that physicians are now in a better position to offer their patients products that are MRI safe.

UK scientists develop world's smallest surgical robot - Versius

Using technology from the space industry and cellular phones, Cambridgeshire scientists have developed the world's smallest surgical robot "Versius", that is meant to perform minimally invasive surgery of nose, ear, throat and the prostate gland. This robot is one-third the size of currently available surgical robots. This minimally-invasive approach to surgery reduces post-surgical complications and bestows additional health benefits to patients. The operating surgeon guides Versius using a console containing a 3D screen while the robot movements performs surgery in a way similar to human arm. The problem with currently available robots is their huge size; hence hospitals have to make special arrangement to allow the robots to function. Additionally, the cost of surgery performed through huge robots is comparatively high. Versius, on the other hand is different from previously available robots since it is easy to manage, thanks to its small size.

WIWE – ECG machine the size of a credit card

The Key Safe Company has launched its new Credit-card sized ECG device that utilizes a new more intelligent algorithm to detect risk of sudden cardiac arrest or atrial fibrillation after recording electrocardiographic input data through two electrode sensors present on the device's body. The device is meant to function as a personal device and the user is expected to place one finger of each hand on one electrode; after which the device records ECG and SpO2. The data is then analyzed through an app and results are displayed in easily understandable traffic light system; the purpose is to inform the user when immediate action is required. The device can be used with iOS and Android systems. A simple USB cable is all that is required to charge it.

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YOUR NAME

TRULY AMAZING NANOCHIP DEVICE REPROGRAM CELLS TO REPLACE TISSUES

A team of researchers at the Ohio State University has developed a nanochip device that exerts its influence on skin cells to transform them into virtually any type of tissue cells of the body. The device is placed in contact with the skin, which then produces intense electric field. The electric field functions to exert influence on specific genes, which then transform the cell into new lines. This phenomenon is termed Tissue Nanotransfection (TNT). During experiments, skin cells of injured mice were stimulated to transform into vascular cells, which therefore grew blood vessels within a period of 7 days; thereby saving the body part. In other experiments on stroke-affected mice, nerve cells were generated from dermatological tissue using the same technique. Such nerve cells were then transplanted in brain-injured mice successfully recovering the mice from stroke. The developers of this technology are confident that they can literally convert skin cells into any type of organ with just one touch; once skin cells are reprogrammed, they begin to function as a different type of organ, which can then be transplanted without any fear of immune rejection.

Robots that kill germs – Nosocomial infections on decline?

Hospital acquired infections are a major concern in modern health care setups. A recently emerging trend to counter this threat is the use of robots that eradicate harmful microorganisms in hospitals. Saint Peter's University Hospital has recently introduced the operation of a robot called "LightStrike" that makes use of ultraviolet light to kill germs that are otherwise difficult to eradicate. The intensity of light is such that it can penetrate microorganisms like fungi, viruses, spores, molds and bacteria, thereby inflicting damage to their DNA and rendering them unable to multiply. It is hoped that this approach will make possible the eradication of germs like MRSA and Ebola etc. Health care facilities ranging from ordinary hospitals to acute-care facilities may possibly benefit from such robots in the coming future

Using Intra-gastric balloons for obesity? FDA issues warning

Liquid-filled intra-gastric balloons are used for the treatment of obesity and this trend has surfaced rapidly during recent years. However, starting from 2016, there have been five reports of unanticipated deaths among individuals who were using the intra-gastric balloon systems. Four reports were related to the use of Orbera Intra-gastric Balloon System, whereas one was about Re-Shape Integrated Dual Balloon System. All patient deaths occurred within one month of intra-gastric balloon placement; three of them within three days of placement. So far, the root cause of deaths remains unidentified. Potential complications may include flaws in insertion procedures, intestinal obstruction and esophageal perforation etc. FDA is working in collaboration with the manufacturers to better understand the issue and to find an appropriate solution for it. Meanwhile, FDA has advised the physicians to monitor closely the users of such devices for any possible complications. The manufacturers have revised their product labeling accordingly.

SPEDs (self-powered, paper-based, electrochemical diagnostic devices) are the new buzz

A newly developed medical diagnostic device made of paper is able to detect biomarkers for diagnosis of various diseases. The test results are color coded for easy reading by non-experts and the device is expected to function as remote laboratory in areas with limited medical facilities. The top layer of device is made of untreated cellulose paper, which is meant to receive specimens on patterned hydrophobic areas located on it. The Bottom layer of device contains a triboelectric generator, which generates current merely by the touch of a finger. When the two layers are combined, the device is ready to perform the required test and display its results in a very short duration of time, depending upon the type of test. Since the device is made of paper, it can be easily disposed by burning. The developers are planning to add more layers for more complex assays and to detect diseases like Hepatitis, HIV, dengue fever etc.

New aging concept and DNA testing of aging

Telomeres are specialized regions of repetitive nucleotide sequences located at the end of Chromosomes and they serve to protect the chromosomes from deterioration or fusion with other chromosomes. According to modern understanding, the length of telomeres decreases with aging cells; hence a measurement of telomere length can be used to get clues about how well a cell is aging – and on the macroscopic scale – how well a person is aging!

Recently, **Telemere Diagnostics** has introduced a new technology by the name of **TeloYears**, which is a simple DNA test, developed to estimate telomere lengths in the cells. Based on this information, the test is able to inform how well or bad a person is aging. Hence, the usual estimation of aging based on macroscopic changes in body structures is about to change. In the future, aging will be defined in terms of cellular aging and the test will be carried out by individuals within their homes. The company is confident about this venture and the developers are hopeful that future doctors will order ATL (average telomere length) tests along with the usual tests like HDL, LDL, Complete Blood Count, ESR etc. This will provide the doctors with a profound understanding of the ongoing aging processes in their patients.

Events Gallery

Important

- Dates and Venues of upcoming events may change from time to time.
- If you plan to attend an event, please re-confirm by contacting the organizers.
- Details of forthcoming events may be sent to us for free of cost publication in Medeveryday's Fortnight review.

Date	Event	Venue	Details
6-8 September 2017	Medical Fair Thailand	Bangkok, Thailand.	<p>With a well-established history since 2003, MEDICAL FAIR THAILAND continues to grow from strength to strength as Thailand's No. 1 medical and health care event. Focused on equipment and supplies for the hospital, diagnostic, pharmaceutical, medical and rehabilitation sectors, MEDICAL FAIR THAILAND provides you with the best business opportunities to navigate the dynamic marketplace of Thailand and Southeast Asia.</p> <p>URL: http://www.medicalfair-thailand.com/registration.html</p>
6-8 September 2017	Thailand Lab International 2017	Bangkok, Thailand	<p>Thailand LAB INTERNATIONAL is organized by VNU Exhibitions Asia Pacific Co., Ltd. a joint venture between Jaarbeurs from the Netherlands and TCC Exhibition and Convention Center from Thailand. VNU Exhibitions Asia Pacific develops, with industry partners and exhibition organizers from around the world, executes and internationalizes trade show and conferences from animal production and processing to technology, from agriculture to innovations and from pets to medical and laboratory sectors. VNU Exhibitions Asia Pacific successfully applies its concepts and know-how across industries and in all Asian countries. Through its international network and global reach, VNU Exhibitions Asia Pacific builds marketplaces in Asia – for the world.</p> <p>URL: http://www.thailandlab.com</p>
11-14 September 2017	Himss AsiaPac 17	Marina Bay Sands, Singapore.	<p>At HIMSS AsiaPac17 in Singapore, expect to learn, share and discuss insights on team-based care that will benefit your patients, care team and organization both clinically and operationally.</p> <p>URL: https://miceapps.com/client/sites/view/HAPAC17</p>
20-22 September 2017	Medtec China		<p>Medical devices are designed and manufactured globally. For medical device manufacturers, the need to find new technology, materials, components, and design and test solutions to aid medical device product development is unceasing. Medtec China is part of a series of UBM Advanced Manufacturing events taking place in North America, Europe and Asia to address this need. As an annual event, it features hundreds of the world's leading suppliers doing business with medical device manufacturers. Medtec China has been successfully held for 12 years in Shanghai targeting the engineering community from manufacturers and R&D centers.</p> <p>URL: http://www.medtechina.com/index.php/en/exhibit/exhapply</p>

30 September-1 Oct 2017	Innovating Care Asia Pacific 2017	Kuala Lumpur, Malaysia.	<p>The need in some Asian countries are particularly acute, especially with the rapid growth of the ageing population. According to reports, Asia's elderly population is projected to soar from 300 million to 922.7 million by 2050, leading to a shortage of manpower in the healthcare industry. In light of this, Innovation must address significant barriers, including the lack of patient awareness, infrastructure and training for healthcare professionals. By forming a community of like-minded healthcare stakeholders, each holding considerable influence and decision-making power in their respective sectors, we aim to transform healthcare and care delivery in order to respond quickly to the needs of the future.</p> <p>URL: http://www.innovatingcare-ap.com/ICAP2017/registration.html</p>
4-7 October 2017	REHACARE 2017	Dusseldorf, Germany.	<p><i>REHACARE is the leading international trade fair for rehabilitation, prevention, inclusion and care. With over 30 years of expertise and wide-ranging experience of the market, this fair is an ideal platform for anyone with disabilities, care requirements or chronic conditions as well as for the elderly. Over 900 national and international exhibitors will be presenting a combination of product demonstrations and complex system solutions as well as a wide range of information in the form of special theme parks, seminars and workshops.</i></p> <p>URL: https://www.rehacare.com</p>
5-7 October 2017	CCR Expo 2017	Kensington Olympia, London, United Kingdom.	<p><i>With 2 days of FREE educational content and more than 200 companies showcasing the latest products and solutions in medical aesthetics, CCR Expo provides a dedicated platform for anyone involved in medical aesthetics to learn, knowledge-share and discover the technologies and best practices required to develop their skills, practice and business.</i></p> <p>URL: https://registration.n200.com/survey/0gb6lmee696r5</p>
9-10 October 2017	International Medical Travel Exhibition and Conference (IMTEC) 2017	Dubai International Convention and Exhibition Centre, UAE.	<p><i>IMTC is a membership based platform where you can take advantage of several exclusive marketing communication programmes to engage with potential clients dealing with international patient referral schemes within the public and private sectors or reach out directly to patients to highlight treatment options in your country.</i></p> <p>URL: https://www.medicaltravel-club.com/en/home.html</p>
16-17 October 2017	Healthcare and Medical Tourism 2017	Dubai, UAE.	<p>Theme: Focusing on Effective Approach Towards Healthcare.</p> <p>URL: http://healthcare.global-summit.com/middleeast/registration.php</p>

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