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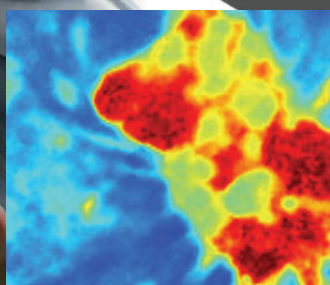
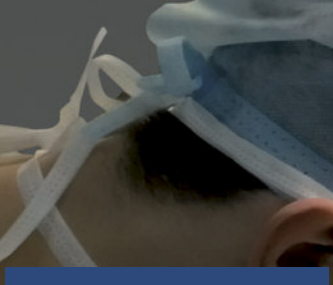
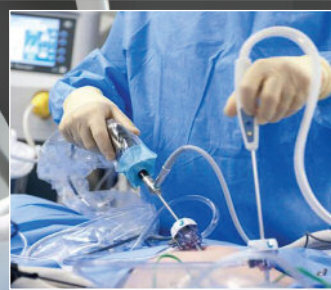
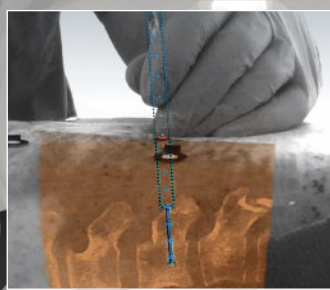
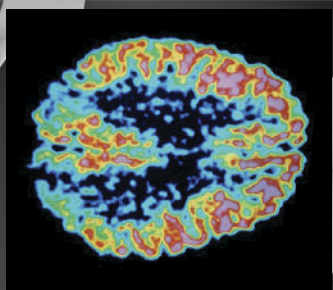
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TABLE OF CONTENTS

Annual Review 2019

Medical Imaging	5
Critical Care	9
Surgical Techniques	13
Health IT	18

BUYER'S GUIDE 2020

Medical Imaging	20
Critical Care	26
Surgical Techniques	36
Patient Care	42

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Companies in Alphabetical Order	19	Companies by Country	44
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Crystalline Testing Rapidly Evaluates Radiation Exposure

Testing crystalline insulators found in most modern electronics could facilitate emergency response dosimetry or nuclear forensics, claims a new study. Developed by researchers at North Carolina State University (NC State; Raleigh, USA; www.ncsu.edu), the new approach relies on testing surface mount resistors, found in everything from thumb drives to smartphones, in order to measure background radiation level. The resistor is first removed from the electronic device and placed in a thermally stimulated luminescence reader. Spectra reading related to the number of electrons found in flaws inherent to the sample's crystalline structure are then measured and fed into a custom single aliquot regenerative (SAR) protocol to calculate radiation exposure.

World's First AI-Based Algorithms for ED Receive CE Certification

Zebra Medical Vision (Kibbutz Shefayim, Israel; www.zebra-med.com) has received two new CE marked registrations for its deep learning algorithms that help radiologists and Emergency Room (ER) staff to prioritize acute conditions for the first time in both CT scans and X-rays and reduce reports turnaround time (RTAT). The artificial intelligence (AI) technology can flag time-critical cases such as pneumothorax in chest X-rays and brain bleeds in CT scans. The technology reduces the time it takes radiologists and ER staff to spot acute conditions by 80%, which in turn, improves the quality and timeliness of treatment.

New Dosimeter Measures Photon and Beta Radiation

A Bluetooth-enabled dosimeter with dual detectors addresses international requirements for independent deep and shallow measurements of both photon and beta radiation. The Mirion Technologies (San Ramon, CA, USA; www.mirion.com) Instadose2 dosimeter provides the ability to wirelessly capture, transmit, measure, analyze, and report radiation dose exposure any time, and is ideally suited for high-energy, beta-sensitive environments, including nuclear medicine and radiotherapy settings, for interventional radiology, in nuclear power plants, and in research facilities that utilize beta emitting energy sources. Instadose2 utilizes Bluetooth Low Energy (BLE) to transmit dose data to a variety of devices, eliminating the time-consuming process of badge collection, processing, and redistribution.

Deep Learning Model Classifies Chest X-Rays

Combining deep learning (DL) models with adjudicated image labels can help classify clinically important findings on chest X-rays, claims a new study. Researchers at Google Health (Mountain View, CA; <https://health.google>), Apollo Radiology International (Hyderabad, India; <https://apolloradiologyintl.com>), California Advanced Imaging (Novato, USA; www.cairad.com), and other institutions have developed DL models that can accurately classify four clinically important

chest X-ray findings - pneumothorax, nodules and masses, fractures, and air-space opacities. The target findings were selected in consultation with radiologists and clinical colleagues, so as to focus on conditions that are both critical for patient care, and for which chest X-ray images alone are an important and accessible first-line imaging study.

New MRI Technique Improves Breast Cancer Screening

A new magnetic resonance imaging (MRI) waistcoat packed with flexible radio frequency (RF) coils could screen women for breast cancer faster and with less disadvantages, claims a new study. Under development at the Medical University of Vienna (MedUni; Austria; www.meduniwien.ac.at), Université de Lorraine (Nancy, France; www.univ-lorraine.fr), and other institutions, the prototype waistcoat device is a mechanically flexible, receive-only array that contains 32 RF coils sewn into the fabric, each consisting of an 18 centimeter long coaxial cable formed into an eight centimeter wide loop. A receiver unit at the end of the cable feeds the signal into the computer. Motion sensors built into the vest monitor the patient so that it can cancel out breathing movements that distort the image.

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Novel Algorithm Shortens MRI Scans to Nearly a Minute

A new multicontrast magnetic resonance imaging (MRI) technique can cut down the time needed to complete a scan to about 70 seconds, claims a new study. Developed by researchers at Karolinska Institutet (KI; Solna, Sweden; www.ki.se), Karolinska University Hospital (Stockholm, Sweden; www.karolinska.se), GE Healthcare (GE, Little Chalfont, UK), and other institutions, the echo planar image mix (EPI Mix) MRI technique combines contrast T1 -FLAIR, T2 -weighted, diffusion-weighted images (DWI), apparent diffusion coefficient (ADC), T2* -weighted, and T2 -FLAIR images into one multicontrast MRI technique. EPI is capable of acquiring an entire MRI in only a fraction of a second; in single-shot EPI, all the spatial-encoding data of an image can be obtained after a single radio-frequency excitation, resulting in high-quality images comparable to conventional MRI, but with major advantages over conventional MRI that include reduced imaging time, decreased motion artifact, and the ability to image rapid physiologic processes of the human body.

Proton Therapy Lowers Risk of Radiation Therapy Side Effects

A new study suggests that cancer patients undergoing proton radiation therapy (RT), instead of conventional photon treatment, are at a significantly lower risk of experiencing side effects. Researchers at the University of Pennsylvania (Penn; Philadelphia, USA; www.upenn.edu), Washington University School of Medicine (WUSTL; St. Louis, MO, USA; <https://medicine.wustl.edu>), and other institutions conducted a study involving 1,483 cancer patients, 391 of whom received proton therapy and 1,092 who underwent photon treatment. The patients suffered from non-metastatic brain cancer, head and neck cancer, lung cancer, gastrointestinal cancer, and gynecologic cancer, and were treated with concurrent chemotherapy and radiation. According to lead author Brian Baumann, MD, of Penn and WUSTL, "our clinical experience is that concurrent chemoradiation therapy patients treated with protons, rather than photons, tend to have fewer side effects."

Novel Magnetic Metamaterial Boosts MRI Performance

A new magnetic metamaterial enables a marked boost in radio frequency (RF) field strength, producing clearer MRI images at double the speed. Developed at Boston University (BU; MA, USA; www.bu.edu), the magnetic metamaterial is composed of an array of unit cells featuring metallic helices known as helical resonators. The three-centimeter-tall structures, created from three-dimensional (3D) printed plastic and coils of thin copper wire, can be grouped into a flexible array that is pliable enough to cover a person's kneecap, abdomen, head, or any part of the body in need of imaging. When the helices array is in position, the resonators interact with the magnetic field of the MRI scanner, boosting the signal-to-noise ratio (SNR).

Ultrasound Monitor Delivers Blood Flow Data on Demand

A novel system combines 3D ultrasound imaging with advanced algorithms to automate visual and quantitative blood flow monitoring after surgery. The Sonavex (Baltimore, MD, USA; www.sonavex.com) EchoSure device is a portable ultrasound system designed for non-expert users to rapidly detect postoperative clot formation by automatically identifying loss of flow through blood vessels. Echosure is designed to work with the EchoMark implant, which serves as a marker for soft tissue sites during surgery. As a result of its ultrasonic reflective properties, doctors can precisely visualize the area during follow-up evaluations. EchoSure uses deep learning algorithms to derive where the ultrasound beam is coming from, and can then compute the volumetric flow rate through the vessels of interest so it can quantify the blood flow rate over time.

Ultrasound-on-Chip Transforms Field Diagnostics

A handheld, single-probe whole body system is making ultrasound technology universally accessible and affordable. The Butterfly Network (New York, NY, USA; www.butterflynetwork.com) Butterfly iQ is a multi-mode (M-mode, B-mode, and Color Doppler) ultrasound device less than 15 centimeters long and weighing just 313 grams, allowing it to easily fit into a pocket. Butterfly IQ is programmed with 18 preset scanning programs, which enable diagnostic ultrasound imaging of peripheral vessels, including for carotid and arterial studies and procedural guidance; and cardiac, abdominal, urology, gynecological; fetal/obstetric, and musculoskeletal use. Jonathan Rothberg, founder and chairman of Butterfly Network, said, "Two thirds of the world's population has no access to medical imaging. Butterfly's Ultrasound-on-a-Chip technology enables a low-cost window into the human body, making high-quality diagnostic imaging accessible to anyone."

Pocket Ultrasound Scanners Revolutionize Patient Care

A second-generation series of wireless ultrasound scanners put the power and image quality of larger, more expensive systems in an affordable device that fits in a pocket. The new Clarius Mobile Health (Clarius; Burnaby, BC, Canada; <https://clarius.com>) line-up includes two multipurpose scanners for whole body imaging, the convex C3 HD, which operates at a frequency of 2-6 MHz, and the phased array PA HD - Cardiac/EMED, which operates at a frequency of 1-4 MHz. Both systems scan a maximal depth of 40 cm and are designed for use in abdominal, lung, cardiac, ob/gyn, superficial, and vascular access applications. The second generation devices are almost half the size of the original devices, but have eight times the processing power of most handheld scanners. In addition, four scanners dedicated to specialties such as sports medicine and anesthesia are now available.

Ghost Tomography May Lead to Safer 3D Imaging

An unconventional approach known as ghost imaging could revolutionize three-dimensional (3D) tomography screening for early warning signs of disease. Developed at Australian National University (ANU; Canberra; www.anu.edu.au), Monash University (Melbourne, Australia; www.monash.edu), and The European Synchrotron (Grenoble, France; www.esrf.eu), ghost tomography (GT) uses random x-ray intensity patterns to illuminate an object from various angles, with each beam split in two. The pattern is recorded in the primary beam, which acts as a reference since it does not penetrate the object; the secondary beam passes through the object, with X-ray transmission recorded by a single-pixel detector. "3D X-ray ghost imaging, or ghost tomography, is a completely new field, so there's an opportunity for the scientific community and industry to work together to explore and develop this exciting innovation," concluded Dr. Kingston. "A variation of our approach doesn't require an X-ray camera at all, just a sensor - this would make a 3D medical imaging setup much cheaper."

AI Accelerates Chest X-Ray Analysis

A novel artificial Intelligence (AI) system can dramatically reduce the time needed to receive an expert radiologist opinion on abnormal chest X-rays with critical findings, claims a new study. Developed by researchers at King's College London (KCL; UK; www.kcl.ac.uk), the University of Warwick (Coventry, UK; <https://warwick.ac.uk>), and other institutions, the AI system was developed using 470,388 fully anonymized institutional adult chest radiographs acquired from 2007 to 2017. The results revealed that normal chest radiographs (used to diagnose and monitor a wide range of conditions affecting the lungs, heart, bones, and soft tissues) were detected by the AI system with a sensitivity of 71%, specificity of 95%, PPV of 73%, and NPV of 94%. The average reporting delay using the algorithms was reduced from 11.2 to just 2.7 days for critical



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imaging findings, and from 7.6 to 4.1 days for urgent imaging findings, when compared with historical data. The study was published on January 19, 2019, in *Radiology*.

Space Exploration Technology Provides Bedside Imaging Capabilities

A new flat-panel source (FPS) makes portable, low-dose, and low-cost three-dimensional (3D) digital tomosynthesis (DT) more accessible. The Adaptix (Begbroke, UK; www.adaptiximaging.com) FPS is composed of an array of cold cathode field emitters fitted into a sealed unit; each field emitter generates a conelet of X-rays, while a proprietary system, designed to avoid the common problem of high-voltage switching, allows for each X-ray emission to be addressed and individually controlled, thus eliminating large numbers of overlapping X-rays. An additional benefit of the flat panel design is that it can cover many different angles, allowing depth information to be derived through DT.

Surgical Tractography Tool Automates White Matter Segmentation

An automated segmentation feature visualizes and highlights brain white matter bundles of interest instantly, allowing brain surgeons to identify safer approaches. Part of the Synaptive Medical (Toronto; Canada; www.synaptivemedical.com) Modus Plan surgical planning software tool, The segmentation feature uses 3D visualization overlaid on an anatomical scan derived from preoperative imaging and volumetric anatomical and diffusion tensor imaging (DTI) renderings. The automated tract segmentation feature provides surgeons with the ability to minimize disruption of white matter, which is organized into bundles that may correspond to different brain functions, and whose particular location differs on a per-patient basis.

Scanner Produces Whole-Body PET Images in Seconds

A modified positron emission tomography (PET) scanner can create three dimensional (3D) renderings of the entire human body in as little as 20 seconds, and with less radioactive exposure. Developed by researchers at the University of California Davis (UCD; USA; www.ucdavis.edu), the University of Pennsylvania (Philadelphia, PA, USA; www.upenn.edu), United Imaging Healthcare (UIH; Shanghai, China; www.united-imaging.com), and other institutions, the two-meter long device is made of eight PET scanner rings, each 25 centimeters thick, that can image the entire body at once. By combining eight scans into one, total body rendering can be accomplished in 1/40 of the time of a conventional PET scanner, as well as using 1/40 of the radiation dose. The modified PET scanner, which is called Explorer, could be especially helpful for imaging children, who tend to move around inside a scanner and ruin the measurements.

Web-Based Radiology App Enables DICOM Image Sharing

A new, web-based radiology application enables doctors to view, edit, and share images through any platform (Windows, Android, Linux, iOS) without the need to install any software. The HNC Virtual Solutions (Wixom, MI, USA; hncvirtuallösungen.com) imaging platform allows doctors to load a digital imaging and communications in medicine (DICOM) image directly from any cloud-based or local source, such as a file folder, CD, laptop, USB flash drive or any other external device, providing access to real-time communication and collaboration, as well as offering numerous functionalities, such as screen sharing, screen recording, messaging, and authentication. Once loaded, the image can be shared to anyone in the world without the need to first upload it to a server or cloud.

Mathematical Model Improves Radiation Therapy

A new mathematical model spatially optimizes external beam radiation therapy (XRT) in order to significantly increase the number of brain tumor cells killed during treatment. Developed at the University of Waterloo (UW; Canada; <https://uwaterloo.ca>) and the Massachusetts Institute of Technology (MIT, Cambridge, MA, USA; www.mit.edu), the new model optimizes one-step and two-step radiation profiles during the first and second XRT fractions, while setting a cap on the total dose a patient could receive throughout treatment. Tumor anatomy was then sectioned into multiple portions, with the area most densely populated with cells being one portion and the remainder of cells the other.

Bimodal Contrast Agent Advances Medical Imaging

A new study details a two-in-one probe made of a contrast agent for magnetic resonance imaging (MRI) and a dye for photoacoustic imaging (PI). Developed at the University of Mons (Belgium; <https://web.umons.ac.be>) and the Center of Microscopy and Molecular Imaging (CMMI; Charleroi, Belgium; www.cmmi.be), the bimodal agent combines the MRI gadolinium agent Gd-PCTA, and an organic fluorophore dye called ZW800-1. The bimodal probe enhances MRI contrast as strongly as a commercial MRI agent, while at the same time providing a photoacoustic signal similar to the original PAI probe. The probe can thus provide hybrid images with a high anatomical resolution provided by MRI, and precise localization of the contrast agent thanks to PAI. Preliminary relaxometric and photoacoustic characterizations indicate that the bimodal agent fulfills its function. The study was published on June 26, 2019, in the European Journal of *Inorganic Chemistry*.

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MR Elastography Visualizes Tumor Stiffness and Density

A new study suggests that magnetic resonance (MR) elastography can noninvasively and quantitatively map the viscoelastic properties of tumors in vivo. Researchers at University College London (UCL, UK; www.ucl.ac.uk), The Royal Marsden NHS Foundation Trust (London, UK; www.royalmarsden.nhs.uk), and the Institute of Cancer Research (ICR; London, UK; www.icr.ac.uk) conducted a study in mice that coupled MR elastography and computational histopathology to interrogate the contribution of collagen to tumor biomechanical phenotype in several different tumor types, including breast cancer, pancreatic cancer, medulloblastoma, glioblastoma, and neuroblastoma xenograft.

Novel Imaging Technique Could Help Characterize Thyroid Disorders

A combination of multispectral optoacoustic tomography (MSOT) and ultrasound can be used for initial evaluation and differential diagnosis of thyroid disorders, according to a new study. Researchers at University Hospital Münster (UKM; Germany; www.ukm.de), Munich Technical University (TUM; Germany; www.tum.de), and other institutions conducted a study to evaluate the viability of using hybrid MSOT/ultrasound to image thyroid disorders, such as Graves' disease and thyroid nodules. The results revealed that hybrid MSOT/ultrasound imaging found significantly higher deoxygenated hemoglobin and total hemoglobin, as well as significantly lower fat content, in Graves' diseases lobes, as compared with healthy controls. When comparing the thyroid nodules imaged with MSOT/ultrasound, malignant thyroid nodules showed significantly lower saturation of hemoglobin and lower fat content than benign nodules. The study was published in the October 2019 issue of *The Journal of Nuclear Medicine*.

AI-Based Diagnosis System Detects Over 30 Medical Conditions

A new cutting-edge all-in-one medical image diagnosis system named AI-HuB can detect and monitor more than 30 medical conditions from 14

regions of the body. Developed by JLK Inspection (Seoul, South Korea; <http://jilkgroup.com>), AIHuB conducts analysis from MRI, CT, X-ray and mammography imagery using AI-enabled technology that encompasses a wide variety of diagnostic techniques to pinpoint illnesses such as stroke, Alzheimer's and cancer. The ability to provide optimal diagnosis support based on deep learning technologies, unique algorithms and imaging procession techniques will be a great benefit to all patients, whether suffering from minor or major ailments.

AI Algorithm Outperforms Human Experts In Identifying Cervical Precancer

Researchers from the National Institutes of Health (Bethesda, MA, USA; www.nih.gov) have developed a computer algorithm that can analyze digital images of a woman's cervix and accurately identify precancerous changes that require medical attention. The artificial intelligence (AI) approach, called automated visual evaluation, could potentially revolutionize cervical cancer screening, especially in low-resource settings. Health workers can easily perform automated visual evaluation by using a cell phone or similar camera device for cervical screening and treatment during a single visit. Additionally, the approach can be performed with minimal training, making it ideal for countries with limited health care resources, where cervical cancer is a leading cause of illness and death among women.

New Roadmap Outlines AI Research Priorities for Medical Imaging

A report establishing a research roadmap outlining priorities in foundational and translational research in artificial intelligence (AI) for medical imaging has been published in the journal *Radiology*. A second report on translational research in AI focusing on real-world AI problems will be published in the *Journal of the American College of Radiology* (JACR; www.acr.org) in early summer of 2019. Both reports are the outcome of a workshop convened last August by the National Institute of Biomedical Imaging and Bioengineering at the NIH to explore the future of AI in medical imaging. The workshop brought together government, industry, academia and radiology specialty societies to create a roadmap that sets a path forward for both foundational research in AI and the translational research necessary to deliver AI to clinical practice.

New VR Technology Puts Interventional Radiologists Inside 3D Blood Vessels

A team of researchers from the University of Washington (Seattle, WA, USA; www.washington.edu) has pioneered virtual reality (VR) technology that puts the operator inside 3D blood vessels. By following an anatomically correct, dynamic, 3D map of a phantom patient's vessels, interventional radiologists can navigate a catheter, a thin flexible tube inserted into arteries and veins and steered to any organ in the body, through junctions and angles. The catheter's tip is equipped with sensors that visually represent its exact location to the VR headset.

Imaging Societies Publish Statement On Use of AI in Radiology

Experts in the use of artificial intelligence (AI) in radiology from many of the world's leading radiology, medical physics and imaging informatics groups have published an aspirational statement to guide the development of AI in radiology. The multi-society statement focuses on three major areas: data, algorithms and practice. The authoring societies include the American College of Radiology (ACR; www.acr.org), European Society of Radiology (ESR; www.myesr.org), Radiological Society of North America (RSNA; www.rsna.org), Society for Imaging Informatics in Medicine (SIIM; <https://siim.org>), European Society of Medical Imaging Informatics (EuSoMII; <http://www.eusomii.org>), Canadian Association of Radiologists (CAR; <https://car.ca>) and American Association of Physicists in Medicine (AAPM; www.aapm.org).

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Supraglottic Airway Aids Pre-Hospital Resuscitation

A novel supraglottic airway device (SAD) creates a non-inflatable anatomical seal of the pharyngeal, laryngeal, and peri-laryngeal structures. The Intersurgical (Wokingham, UK; www.intersurgical.com) i-gel second-generation SAD is based on a cuff that creates an anatomical seal during routine or emergency anesthesia, intubation with fiberoptic guidance, and for resuscitation. Supraglottic airway devices are used to keep the upper airway open for unobstructed ventilation. The new devices have further improved efficacy and utility by incorporating design changes that provide more dependable positive-pressure ventilation, are better able to act as conduits for tracheal tube placement, and have a reduced risk of pulmonary aspiration of gastric contents.

Active Irrigation Device Manages Intracranial Bleeding

A novel controlled fluid exchange system allows neurosurgeons to actively manage intracranial pressure (ICP) and cerebrospinal fluid (CSF) drainage. The IRRAS (Stockholm, Sweden; <https://irras.com>) IRRAS device is an ICP monitoring and drainage system designed to drain intracranial fluid in order to reduce ICP in patients when an external drainage and monitoring system is needed for less than 24 hours. "IRRAS is focused on the treatment of hemorrhagic strokes that constitute about fifteen percent of all strokes, but account for over forty percent of stroke associated deaths," said Kleanthis Xanthopoulos, PhD, executive chairman of IRRAS. Former systems that relied solely on gravity alone, and as a result, they have been plagued by blockages that can lead to inefficient drainage and other complications.

Ultrathin Stent Helps Treat Coronary Artery Disease

A n ultrathin drug-eluting stent (DES) offers a new hybrid strategy in the treatment of coronary artery disease (CAD) by offering both active and passive components. The Biotronik (Berlin, Germany; www.biotronik.com) Orsiro DES is based on a high performance PRO-Kinetic Energy double-helix stent platform, which makes use of a unique cobalt-chromium alloy that allows for thinner (60 µm diameter) stent struts, while still maintaining optimal radial strength and radiopacity. Ryan Walters, President of Biotronik, said, "Interventionalists can rely on Orsiro's deliverability to treat complex lesions and challenging subgroups to achieve unprecedented patient outcomes. Patients, physicians and health systems deserve the best."

Automated Health Data Tools Detect Sepsis in Newborns

Machine-learning models can identify neonatal intensive care unit (NICU) infants at risk of sepsis hours before clinicians recognize the life-threatening condition. Researchers at the Children's Hospital of Philadelphia (CHOP; PA, USA; www.chop.edu) conducted a retrospective case control study of infants hospitalized in the CHOP NICU between September 2014 and November 2017 who received at least one sepsis evaluation before 12 months of age. "Because early detection and rapid intervention is essential in cases of sepsis, machine-learning tools like this offer the potential to improve clinical outcomes in these infants," said lead author Aaron Masino, PhD, of the department of biomedical and health informatics.

Heart Failure Sensor Cuts Hospitalizations in Half

Hear failure (HF) patients show a 58% reduction in hospitalization after implantation of a pulmonary artery (PA) pressure measurement sensor, claims a new study. The Abbott Vascular (Santa Clara, CA, USA; www.abbott.com) CardioMEMS Sensor is a permanently implantable wireless device that provides PA pressure measurements, including systolic, diastolic, and mean pressures, which can be used to monitor cardiac status and initiate changes in medical therapy if necessary.

Viscoelastic Heart Patch Treats Myocardial Infarction

An adhesive epicardial patch could increase the mechanical integrity of damaged left ventricular tissues following a heart attack, claims a new study. Developed by researchers at Brown University (Providence, RI, USA; www.brown.edu), Fudan University (Shanghai, China; www.fudan.edu.cn), Soochow University (Suzhou, China; www.suda.edu.cn), and other institutions, the ionically crosslinked transparent gel-point ad-

hesive patch (GPAP) is a viscoelastic material that combines both fluid and solid properties. The fluid properties are retained up to a certain amount of stress, at which point the material solidifies and turns stiffer, which can accommodate the cyclic deformation of the myocardium and left ventricular remodeling following acute and subacute myocardial infarction (MI).

Contour System Reduces Functional Mitral Regurgitation

An innovative device treats the primary cause of functional mitral regurgitation (FMR) by reshaping the anatomy and improving the function of the mitral valve. The Cardiac Dimensions (Kirkland, WA, USA; www.cardiacdimensions.com) Carillon System is comprised of an implantable device and a proprietary percutaneous catheter delivery system that together provide a simple transcatheter mitral valve repair (TMVR) solution, by using a jugular vein access to reach the coronary sinus under fluoroscopic guidance.

iPad System Programs Implanted Pacemaker Devices

A tablet-based management system provides portable and secure wireless programming of implanted cardiac devices (ICDs). The Medtronic (Dublin, Ireland; www.medtronic.com) CareLink SmartSync device manager is a next-generation programmer and pacing system analyzer that features a simplified user interface, enhanced security, and Bluetooth capabilities to communicate with compatible Medtronic BlueSync devices. The portable, wireless system allows physicians more freedom to engage with patients as they program and manage cardiac devices and device data. The SmartSync system includes the CareLink SmartSync mobile application, a patient connector (telemetry head), and a base station (pacing system analyzer).

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Smartphone-Controlled Device Modulates Migraine Pain

A novel device worn on the upper arm uses smartphone-controlled electronic pulses to relieve migraines through conditioned pain modulation. The Theranica (Netanya, Israel; <https://theranica.com>) Nervio Migra is indicated for the acute treatment of migraine-- with or without aura-- in adults who do not have chronic migraine. The device consists of a programmable chip responsible not only for the electrical nerve stimulation (ENS) and neuromuscular electrical stimulation (NMES) pulses, but also incorporates features such as therapy efficiency control and a safety mechanism. The wireless device is first connected to a smartphone app; when instructed, it generates ENS and NMES pulses, which stimulate subcutaneous sensory nerves via rubber electrode patches.

Hundreds of Medical Practices Are Ineffective or Misguided

A new study identifies almost 400 existing medical reversals, defined as low-value medical practices that are no better than a prior or lesser standard of care. Researchers at the Oregon Health & Science University (OHSU, Portland, USA; www.ohsu.edu), the University of Chicago (IL, USA; www.uchicago.edu), and other institutions undertook an analysis of more than 3,000 randomized controlled trials (RCTs) published in three leading medical journals. Senior author Vinay Prasad, MD, said, "once an ineffective practice is established, it may be difficult to convince practitioners to abandon its use. By aiming to test novel treatments rigorously before they become widespread, we can reduce the number of reversals in practice and prevent unnecessary harm to patients."

Donor Kidney Transport System Preserves Organ Function

A novel organ preservation and transport platform combines hypothermia and ultrasound to provide optimal conditions during transfer of a transplanted organ. Transplant Biomedicals' (Barcelona, Spain; www.transplantbiomed.com) Vivian system is a single-use, disposable organ preservation device for kidney transport that is based on hypothermic ultrasound preservation technology (HUPT), a revolutionary patented technology that leads to superior preservation of organs during ex-vivo conditions. HUPT works by activating intrinsic protective mechanisms that aid cell survival and tissue regeneration pathways during injury, as well as inducing preservation energy metabolism and inflammatory response reduction pathways.

Bioelectronic Therapy Device Exercises Heart Muscle

A novel electroceutical device readjusts the myocardial electrical gradient in order to strengthen the weakened heart muscle of cardiomyopathy patients. Under development by Berlin Heals (Berlin, Germany; <http://berlinheals.de>), C-MIC cardiac microcurrent therapy is based on an implanted pulse generator that exercises the heart muscle using electricity, thus stimulating it to renew itself. In a minimally invasive procedure, a small microcurrent pulse generator is implanted via two small incisions. The system is designed to stimulate the affected heart muscle, causing it to regenerate.

AI Aids Smart Devices to Detect Cardiac Arrest

A new study reveals how a smart speaker can spot a heart attack by detecting agonal breathing, a brainstem reflex that arises in the setting of severe hypoxia. Developed by researchers at the University of Washington (UW; Seattle, USA; www.washington.edu), the proof of concept tool is installed as an app into a smartphone or a support vector machine (SVM) such as a Google Home or Amazon Alexa speaker in order to monitor breathing and call for help if needed. Co-corresponding author Jacob Sunshine, MD, of the UW School of Medicine said, "cardiac arrests are a very common way for people to die, and right now many of them can go unwitnessed. Part of what makes this technology so compelling is that it could help us catch more patients in time for them to be treated."

New Device Improves Advanced Heart Failure Symptoms

A novel implant improves symptoms in patients with advanced heart failure (HF) who are not suited for other HF devices. The CVRx (Maple Grove, MN, USA; www.cvr.com) Barostim Neo System is a subcutaneous, implantable device designed to electrically activate baroreceptors in the carotid sinus in order to alleviate HF and high blood pressure. The system is indicated for patients who have a regular heart rhythm, are

not candidates for a cardiac resynchronization therapy (CRT) device, and have a left ventricular ejection fraction (LVEF) of less than or equal to 35% (below the normal ejection fraction of 55-75%).

Pulmonary Function Testing Platforms Advance Respiratory Diagnostics

Two new innovative pulmonary function testing (PFT) systems provide user friendly accessibility for both patients and technicians. The Vyaire Medical (Chicago, IL, USA; www.vyaire.com) Vyntus ONE is designed to be a convenient PFT station available in a fixed or mobile configuration. Vyntus ONE can also be expanded to do cardiopulmonary stress testing, creating a single device on minimal footprint. The Vyntus BODY system conducts plethysmography exams with features similar to the Vyntus ONE, but can accommodate patients of all sizes and mobility in an all-glass test cabin with spacious interior space and a comfortable bench.

AVP Cuts Trauma Transfusion Needs in Half

Giving low-dose arginine vasopressin (AVP) to patients with trauma and hemorrhagic shock cuts the volume of blood products required to stabilize them by half, according to a new study. A randomized study by researchers at the University of Pennsylvania (Penn; Philadelphia, PA, USA; www.upenn.edu) and the Cleveland Clinic (CC; OH, USA; www.my.clevelandclinic.org) determined that low-dose supplementation of AVP decreases the need for transfused blood products during resuscitation.

Sirolimus Coated Catheter Clears Dysfunctional Hemodialysis Shunts

A novel balloon catheter treats stenotic arteriovenous fistula (AVF) or arteriovenous graft (AVG) vascular access anastomosis. The Concept Medical (Tampa, FL, USA; www.conceptmedical.com) MagicTouch AVF Sirolimus coated balloon catheter is indicated for use in percutaneous transluminal angioplasty (PTA) of stenotic lesions of dysfunctional native AVF or AVG that are 4-12 mm in diameter and up to 100 mm in length. "Our preliminary data using the Magic Touch Sirolimus have been promising to date, with an excellent safety profile and patient acceptability," said consultant vascular and endovascular Surgeon Tjun Yip Tang, MD, of Singapore General Hospital.

AI Detects Congestive Heart Failure From Single Heartbeat

A new study reports successful identification of severe chronic heart failure (CHF) in 100% of cases using a single heartbeat recording from an electrocardiogram (ECG). Researchers at the University of Surrey (Guildford, UK; www.surrey.ac.uk), the University of Warwick (Coventry, UK; <https://warwick.ac.uk>), and The Organizational Neuroscience Laboratory (OneLab; London, UK; www.theonlab.org) developed the novel approach, which is based on artificial intelligence (AI). The technique uses a convolutional neural network (CNN) data tree to detect data patterns and structures at extremely high efficiency, which accurately identifies CHF on the basis of one raw ECG heartbeat.

Novel Anesthesia Monitor Evaluates Neuromuscular Transmission

A new portable neuromuscular transmission (NMT) monitor for use during anesthesia features both acceleromyography (AMG) and electromyography (EMG) modalities. The Xavant Technology (Pretoria, South Africa; www.xavant.com) Stimpod NMS450X monitor enables objective NMT monitoring via AMG (with a reusable sensor) or EMG (with a disposable sensor) in order to manage patients undergoing neuromuscular block during surgery, or in the intensive care unit (ICU).

New Cryotherapy Chamber Offers Healing and Restorative Benefits

A novel whole-body cryotherapy chamber uses sub-zero temperatures to stimulate the circulatory, nervous, and energy systems within the body, prompting healing, recovery, and longevity. The CryoPod (Cumbria, UK; www.cryopod.com) Chamber includes a range of advanced technologies, including 100% breathable super-chilled air, built in Wi-Fi connectivity, state-of-the-art LCD touch screens, radiofrequency identification (RFID) card access, and a custom biometric monitoring system with display screens both within and outside the chamber in order to provide real-time users and staff information. The results can also be transferred and accessed remotely to enable detailed analysis data of the client's experience.

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Integrated Airway System Reduces Ventilation Complications

A comprehensive multi-purpose airway management system protects the lungs and tracheal tissues from infections and tissue injury. The Hospitech Respiration (Kfar Saba, Israel; www.hospitech.co.il) Anapno-Guard system is designed to provide persistent monitoring of leaks around an endotracheal tube (ETT) cuff and adjust cuff pressure automatically to ensure sealing at minimal pressure, minimizing induced pressure on the trachea tissue. In addition, the system evacuates subglottic secretions by simultaneous suction and rinsing. Isolation of the lower airways enables efficient lung ventilation and reduces the risk of aspiration around the cuff and the consequential ventilator associated pneumonia (VAP).

Next-Generation Patient Monitor Promotes Proactive Care

A new vital signs monitor calculates risk-based alerts that allow clinicians to identify subtle signs of patient deterioration. The Royal Philips (Amsterdam, The Netherlands; www.philips.com) EarlyVue VS30 vital signs monitor captures and displays patient data at the bedside, and securely transmits it directly into the hospital's electronic medical record (EMR), supporting gap-free patient records. When conditions require closer attention, the VS30 can be switched from spot check to automatic (programmable) interval monitoring of critical vital signs such as noninvasive blood pressure, oxygen saturation (SpO₂), pulse, CO₂, and respiration rate. The monitor also includes Masimo (Irvine, CA, USA; www.masimo.com) rainbow SET options.

Suspended Animation Successfully Induced in Surgical Patient

For the first time, a patient cooled by induced hypothermia has been successfully revived, allowing surgeons more time to correct traumatic injuries. The new technique, which was developed at the University of Maryland School of Medicine (Baltimore, USA; www.medschool.umaryland.edu), is called emergency preservation and resuscitation (EPR), and involves rapidly cooling a person suffering from acute trauma and cardiac arrest to around 10 to 15°C by replacing all of their blood with ice-cold saline. As the patient's brain activity almost completely stops, they are then disconnected from the cooling system and their body, which would otherwise be classified as dead, is moved to the operating theatre.

Vibro-Acoustic Air Pressure System Clears the Airways

A novel technology removes secretions from the airways of patients suffering from diseases affecting the respiratory tract. Developed at BGN Technologies (Beer Sheva; Israel; www.bgu.ac.il) through a collaboration between Ben-Gurion University (BGU; Beer Sheva, Israel; www.bgu.ac.il), Cincinnati Children's Hospital (OH, USA; www.cincinnatichildrens.org), and other institutions, the AeroSelf system simultaneously introduces low-frequency, low-pressure, air flow oscillations and high frequency acoustic pulses into the airway and lungs. The system can treat the core of obstructive airways pathophysiology diseases, the buildup of mucus in the small airways, in a range of respiratory conditions, such as bronchiolitis, asthma, chronic obstructive pulmonary disease (COPD), and cystic fibrosis (CF).

Robotic Entities Could Improve Quality of Patient Care

Introducing social and autonomous robotic health assistants (SARAs) to aid nurses interacting with patients could help overcome overwhelming schedules and personnel reduction. The SARA consortium, led by Bright Cape (Eindhoven, The Netherlands; <https://brightcape.nl>), Forum Virium Helsinki (Finland; <https://forumvirium.fi>), GIM Robotics (Helsinki, Finland; <https://gimrobotics.fi>), the Technical University of Berlin (TUB; Germany; www.tu.berlin), and other institutions, is working to introduce robots as largely autonomous social entities in nursing homes and hospitals. Using a system called SARA Home, the robots are accessible from a computer or tablet, allowing nurses to elaborate a personalized profile and health plan for every patient. SARA robots will be used assist patients complete specific exercises several times a week, helping them to improve their mental and physical fitness. By interacting with the users and presenting them with such simple exercises, their mental condition could be improved, helping to escape deterioration into the second, more acute stage of dementia. Two pilot tests are currently ongoing, in nursing homes in Finland and in the Netherlands.



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Embolization System Treats Intracranial Aneurysms

A novel intrasaccular flow disruptor helps surgeons achieve embolization of intracranial wide neck bifurcation aneurysms. The MicroVention (Aliso Viejo, CA, USA; www.microvention.com) WEB aneurysm embolization system is an endovascular, intrasaccular solution for wide neck bifurcation aneurysms in the middle cerebral artery (MCA) bifurcation, the internal carotid artery (ICA) terminus, the anterior communicating artery complex, the basilar artery apex, and any other saccular bifurcation intracranial aneurysm that has a dome diameter of three to 10 mm and a neck size of four 4 mm (or greater), or a dome-to-neck ratio between one and two.

Oxygenator Improves Cardiopulmonary Bypass Care

A novel oxygenator helps minimize the impact of cardiopulmonary bypass by reducing hemodilution, minimizing inflammatory response, and providing highly efficient gaseous microemboli (GME) removal. The Terumo Cardiovascular Group (Ann Arbor, MI, USA; www.terumo-cvs.com) Capiox NX19 Oxygenator with UltraPrime Technology is intended for the exchange of gases between bloodcells and a gaseous environment, in order to satisfy the oxygenation needs of adult patients during cardiopulmonary bypass surgery. An integrated arterial filter removes non-biologic particles and emboli and facilitates air bubble removal from the blood flowing through the cardiopulmonary bypass circuit. In addition, an integrated heat exchanger is used to warm or cool blood and/or perfusion fluid as it flows through the device.

Novel Knee System for Robot-Assisted Surgeries

A new platform for robot-assisted total knee replacement (TKR) features pre-operative planning tools and intraoperative data to improve surgical restoration of natural joint movement. The Zimmer Biomet (Warsaw, IN, USA; www.zimmerbiomet.com) ROSA Knee System is a stereotaxic instrumentation platform for TKR surgery designed to assist the surgeon by providing software-defined spatial boundaries for orientation and reference information to identify anatomical structures needed for the accurate placement of knee implant components. The core of the system includes a tactile robotic arm and three-dimensional (3D) visualization software that guides the surgeon during the procedure so as to conserve as much of the patient's healthy bone and surrounding tissue as possible.


Interventional Cryotherapy Platform Harnesses Liquid Nitrogen

A new minimally invasive spray cryotherapy system treats the entire spectrum of esophageal disease, from Barrett's Esophagus (BE) to cancer. The CSA Medical (Lexington, MA, USA; <https://rejuvenair.com>) truFreeze cryotherapy system uses an extremely cold liquid nitrogen spray to flash-freeze and destroy unwanted tissue in patients suffering from BE, esophageal cancer, and airway obstructions. The system also

enables tissue rejuvenation from underlying healthy tissue, in contrast to the scar tissue that forms after heat-based modalities such as radio-frequency ablation (RFA).


Redesigned Mesh Sling System Treats Male Urinary Incontinence

A surgically implanted mesh sling system helps relieve stress urinary incontinence (SUI) in men by compressing and supporting the urethra, helping the bladder to fully close. The Boston Scientific (Natick, MA, USA; www.bostonscientific.com) AdVance XP Male Sling System is designed to place a SUI suburethral/retrourethral sling using a transobturator placement technique. Patients may be continent immediately after the procedure, and most resume normal daily activities one to two weeks later. The sling itself, which acts as a hammock that repositions and supports the urethra, features a heat-sealed edge for fixation and a polypropylene liner that reduces pull-through resistance during sling passage, enabling desired sling placement prior to fixation.



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Five Factors Linked to Infections Following Orthopedic Surgery

A new study links diabetes, obesity, smoking, prolonged surgery, and low pre-surgical albumin levels to an increased risk of developing surgical site infection (SSI). Researchers at Xinjiang Medical University (XJMU; Ürümqi, China; www.xjmu.edu.cn) and the First Hospital of Jilin University (Changchun, China; <http://cie.jlu.edu.cn>) conducted a retrospective study involving 4,818 patients (60 years of age or older) who underwent elective orthopedic surgery between January 2014 and September 2017. The results revealed that 74 patients developed SSIs within one year, for an overall incidence rate of 3.64%.

Skin Bioprinting System Helps Heal Extensive Wounds

A mobile skin bioprinter that layers dermal fibroblasts and epidermal keratinocytes directly into a wound can accelerate contraction and re-epithelialization, claims a new study. Developed at the Wake Forest Institute for Regenerative Medicine (WFIRM; Winston-Salem, NC, USA; <https://school.wakehealth.edu>), the mobile bioprinting system first isolates the major skin cells—dermal fibroblasts and epidermal keratinocytes—from a small biopsy of uninjured tissue. The cells are then expanded and mixed into a hydrogel and placed into the bioprinter. Using integrated imaging technology the wound is then scanned; the data is used to direct the print heads on which cells to deliver exactly where in the wound, layer by layer.

Resistance-Sensing Needle Identifies Target Destinations

A highly sensitive intelligent-injector for tissue-targeting (i2T2) needle can detect changes in resistance in order to properly and safely deliver medication, claims a new study. Developed by researchers at the Massachusetts Institute of Technology (MIT, Cambridge, MA, USA; www.mit.edu), Harvard Medical School (HMS; Boston, MA, USA; <https://hms.harvard.edu>), and Brigham and Women's Hospital (BWH; Boston, MA, USA; www.brighamandwomens.org), the i2T2 intelligent injector is a highly sensitive, completely mechanical device that senses loss of tissue resistance when encountering a softer tissue or a cavity, causing it to stop advancing the needle and deliver the payload. i2T2 feedback is instantaneous, which allows for better tissue targeting and minimal overshoot into an undesired location.

Biologic Implant Regrows Cartilage and Bone

A novel cell-free biomaterial implant repairs cartilage and osteochondral defects in both traumatic and osteoarthritic joints. The CartiHeal (Kfar Saba, Israel; www.cartiheal.com) Agili-C implant is designed to provide a scaffold that reproducibly regenerates hyaline cartilage and its underlying subchondral bone in a single-step procedure. Once the size of the defect is determined, a cavity is prepared in the affected area and the implant is inserted in a press fit manner. Blood immediately infiltrates the implant's interconnected pores, initiating a biological cascade culminating in bone and hyaline cartilage regeneration through migration, adhesion, proliferation, and differentiation of mesenchymal stem cells (MSCs). Within a few months, the top layer turns into true hyaline cartilage, while the bottom layer turns to bone, with each tissue genetically identical to the body's own tissues.

Orthopedic Drill Automatically Measures Depth and Power

A new surgical drill with a graphical user interface (GUI) provides real-time drill-bit location and drilling data for common orthopedic surgical procedures. The Smart Medical Devices (SMD; Las Vegas, NV, USA; www.smartmeddevices.com) SMARTdrill 6.0 is a surgical drill that accurately measures depth, torque, and energy in real time, improving patient outcomes. The device's accurate depth measurements eliminate the need for conventional depth gauges that plunge, reduce the number of times x-rays are needed, and enables surgeons to detect impending cortical and joint penetration at varied skive angles without the routine use of fluoroscopy. In addition, it eliminates the wasting of screws that were too long or too short during trial sizing.

Transcatheter Bleeding Monitor Increases Patient Safety

A novel internal bleeding detector can improve bleed status monitoring during and after endovascular access procedures. The Saranas (Houston, TX, USA; www.saranas.com) Early Bird Bleed Monitoring System includes a vascular access sheath with embedded bioimpedance sensors that are designed to detect and monitor bleeding from vessel injury, which may occur during endovascular procedures, such as a transcatheter aortic valve replacement (TAVR), large bore hemodynamic support device placement, or other complex cardiovascular interventions where the femoral artery or vein is used to obtain vascular access. If the blood vessel is punctured, blood be-

gins to accumulate outside, causing a change in electrical impedance. The system, which was designed and developed with the help of Cambridge Consultants (UK; www.cambridgeconsultants.com), can detect this change in real time and alert the physician; as there are no outward symptoms of such a puncture, the patient can bleed undetected.

Innovative Anchor System Fixes Sutures to Bone

A new implanted anchor system helps orthopedic surgeons secure soft tissues to bone in order to facilitate faster healing. The Orthopaedic Implant Company (OIC; Reno, NV, USA; www.orthoimplantcompany.com) OIC Suture Anchor System consists of implantable suture anchors and instruments to aid in their implantation, and is intended for the fixation of soft tissue to bone in support of a wide range of orthopedic procedures, including upper extremity rotator cuff repair and biceps tendon reconstruction, and lower extremity lateral collateral ligament repair, medial collateral ligament repair, posterior oblique ligament repair, patellar tendon repair, and iliotibial band tendons joint capsule repair.

Next-Generation Ablation System Treats Atrial Fibrillation

A third-generation technology platform uses laser ablation to perform pulmonary vein isolation (PVI), blocking the abnormal electrical pathways that cause atrial fibrillation (AF). The CardioFocus (Marlborough, MA, USA; www.cardiofocus.com) HeartLight X3 System combines direct tissue visualization, titratable laser energy, and compliant balloon technology to enable uninterrupted, high-speed, circumferential lesion creation under direct control of the physician, resulting in consistently reduced procedure times. The system is based on a near infrared (NIR) laser and a deflectable sheath that provides transseptal access to all four pulmonary veins.

Virtual Reality Platform Helps Create Surgical Plans

An innovative 360-degree virtual reality (VR) technology allows surgeons to walk inside their patients' anatomy and create a surgical plan. The Surgical Theater (Mayfield Village, OH, USA; www.surgicaltheater.net) Precision VR medical visualization platform is designed to work on multiple levels of interaction with the aid of the Oculus Rift or HTC Vive VR headsets. The VR models are constructed and rendered based upon CT and MRI scans, culminating in a patient-specific 360° virtual tour which can be used to create an intuitive, immersive approach to patient engagement, surgical planning, resident in training education, and multidisciplinary collaboration.

Biologic-Based Materials Aid Reconstructive Surgery

Novel reconstructive materials support soft tissues in plastic and reconstructive surgery patients requiring repair or reinforcement. The TELA Bio (Malvern, PA, USA; www.telabio.com) Restella reconstructive bioscaffolds are based on a polymer interwoven through layers of biologic tissue in a patented "lockstitch" pattern, which creates a unique embroidered construction with controlled stretch that is highly permeable. The bioscaffolds can support a variety of surgical techniques and procedures, with an emphasis on ventral hernia repair and abdominal wall reconstruction.

Aortic Valve System Minimizes Paravalvular Leakage

A new transcatheter aortic valve replacement (TAVR) system for patients with severe stenosis offers controlled delivery and repositionability. The Boston Scientific (Natick, MA, USA; www.bostonscientific.com) LOTUS Edge aortic valve system features a proprietary braided Nickel-Titanium (Nitinol) frame and an adaptive seal technology that conforms to patients' anatomy in order to create a secure seal, virtually eliminating paravalvular leak (PVL). The deployment technology also allows easy retrieval, repositioning, and redeployment.

Perfusion System Increases Donor Lung Availability

A novel lung preservation system can temporarily ventilate, oxygenate, and perfuse lungs in order to better determine if they are viable for transplant. The Xvivo Perfusion System (XPS) with STEEN Solution (Xvivo Perfusion, Gothenburg, Sweden; www.xvivoperfusion.com) is intended to house donor lungs and preserve them prior to transplantation in patients with end-stage lung disease. The system consists of the XPS perfusion cart, XPS cart software, and an cardiac bypass system with a centrifugal pump, a heater/cooler unit, and a ventilator. The system also includes STEEN solution, a sterile, non-pyrogenic, non-toxic physiological salt solution containing human serum albumin and dextran, and fluid path and non-fluid path disposables.

Transseptal Access Dilator Facilitates LAA Closure

A new dilation system with a larger diameter optimizes left-heart procedures that require a large sheath to cross the heart's septum from the right atrium. The Baylis Medical (Montreal, Canada; www.baylismedical.com)

com) ExpanSure Transseptal Dilation System is intended for procedures such as left-atrial appendage (LAA) closure and balloon ablation for atrial fibrillation (AF). “Baylis is proud to offer a device uniquely designed to optimize transseptal access, allowing the physician’s primary focus to remain on delivering the necessary therapy to the patient,” said Robert Harrison, director of research and development in cardiology at Baylis Medical.

Ultrasonic Surgical Platform Integrates Minimally Invasive Therapeutics

A new ultrasonic surgical platform combines cutting, debridement, and aspiration tools into one unified system. The Misonix (Armingdale, NY, USA; www.misonix.com) Nexus system includes BoneScalpel, a precision oscillating tool designed for millimeter-wide cuts in bone while sparing surrounding soft tissue; the SonicOne attachment, which provides a debridement tool for cleaning wounds and removing damaged tissue or bacterial biofilms; and the SonaStar ultrasonic aspirator, which removes targeted tissues, such as tumors. Stavros Vizirgianakis, President and CEO of Misonix. Said, “Nexus is a key component of our strategy to increase our presence in the neuro, spine, ortho, wound, and general surgery markets.”

New Augmented Reality Surgical Platform Receives FDA Approval

A new augmented reality (AR) technology platform for surgical applications has received 510(k) clearance for clinical use in the operating room by the US Food and Drug Administration (FDA). The enterprise SurgicalAR platform developed by medical technology company Medivis (New York, NY, USA; www.medivis.com) integrates the latest advancements in AR, artificial intelligence (AI), and computer vision to advance surgical visualization, thereby reducing surgical complications and improving patient outcomes while lowering costs for healthcare systems.

Decellularized Regenerative Device Supports Cardiac Tissues

A novel epicardial patch supports the atria and the ventricular walls of hearts that have been thinned or damaged as a result of myocardial infarct (MI). The CorMatrix (Rosewell, GA, USA; www.cormatrix.com) Cor PATCH is designed to provide host cellular ingrowth and robust angiogenesis in support of adult epicardial structures post MI. It can also be used to treat sequelae secondary to MI that result in a thinning of the left or right ventricular walls, aneurysm formation, or for any other areas requiring a patch. The Cor PATCH is made of a multi-laminate sheet of decellularized lyophilized extracellular matrix (ECM) derived from porcine small intestinal submucosa, which serves as a bioscaffold for vascular ingrowth from adjacent tissues.

Biological Sealant Stems Moderate Bleeding During Surgery

A n innovative airless spray delivers the clotting proteins fibrinogen and thrombin to stop bleeding when standard bleeding control techniques, such as sutures, are impractical. The Ethicon Endo-Surgery (Ethicon; Cincinnati, OH, USA; www.ethicon.com) Vistaseal Open and Laparoscopic dual applicators (available in 35 cm and 45 cm lengths) combine biologics with device technology to address mild to moderate surgical bleeding. The airless spray products are the result of a broad partnership between Ethicon and plasma-derived medicine manufacturer Grifols (Barcelona, Spain). The thrombin-catalyzed conversion of fibrinogen to fibrin consists of three reversible steps, with thrombin being involved in only the first step, which is a limited proteolysis to release fibrinopeptides (FpA and FpB) from fibrinogen to produce the fibrin monomer. In the second step, the fibrin monomers combine to form intermediate polymers through noncovalent interactions. In the third and final step, the intermediate polymers aggregate to form the fibrin clot, which stems the bleed.

Vascular Closure Device Seals Percutaneous Entry Point

A n innovative closure device seals arterial puncture holes following percutaneous coronary intervention (PCI) catheter-based vascular procedures. The Vasorum (Dublin, Ireland; <http://vasorum.ie>) Celt ACD is designed to close a femoral arteriotomy following intra-arterial procedures, such as peripheral or coronary angiography, arterial stents, balloon angioplasty, and diagnostic or interventional catheterization procedures involving the common femoral artery.

Focal Laser Therapy Destroys Breast Tumors

A minimally invasive procedure uses laser induced heat for focal destruction of breast fibroadenomas and tumors of up to two centimeters in

size. During the procedure with the Novian Health (Chicago, IL, USA; <https://novianhealth.com>) Novilase Laser Therapy System ultrasound or x-ray image-guidance is used to insert the two small probes into and alongside the tumor. The laser probe delivers laser energy to provide focal thermal energy, while the thermal probe monitors temperature at the edge of the desired ablation zone. Studies have shown that more than 90% of malignant breast tumors are completely destroyed during one Novilase procedure, with patients reporting better health-related quality of life outcomes compared to lumpectomy.

Integrated Technology Platform Improves Spine Surgery

A n innovative multiple technology operating room (OR) platform helps surgeons adopt a more efficient and less disruptive minimally invasive surgery (MIS) approach in all spine procedures. The NuVasive (San Diego, CA, USA; www.nuvasive.com) Pulse OR platform combines neuromonitoring, surgical planning, rod bending, radiation reduction, and imaging and navigation functions to improve operative workflow, reduce variability and increase surgical reproducibility. Independent device access allows OR staff to view the various technologies' imaging and insights, simultaneously and in real time.

Machine Learning Approach Predicts Surgery Duration

A novel artificial intelligence (AI) based statistical model uses large retrospective datasets to improve estimation of surgical procedures duration. Researchers at the University of Washington (UW; Seattle, USA; www.washington.edu) and Perimatics (Bellevue, WA, USA; www.perimatics.com) used a dataset that included nearly 47,000 scheduled surgeries performed by 92 surgeons at UW between January 2014 and December 2017 in order to develop, test, and train machine learning (ML) statistical models that could improve operating room (OR) efficiency by better predicting case-time duration.

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New Catheter Simplifies Persistent AF Cryoablation

A novel persistent atrial fibrillation (PsAF) cryoablation catheter that relies mostly on anatomical markers eliminates the need for electromagnetic mapping. The Adagio Medical (Laguna Hills, CA, USA; <https://adagiomedical.com>) One Shot+ cryoablation catheter is intended for pulmonary vein isolation (PVI) and other continuous ablation lesions of non-pulmonary-vein targets, using a transseptal procedure to create continuous and focal transmural lesions on the left and right atrium. The catheter incorporates diagnostic electrodes for navigation to the ablation site and real-time monitoring of electrograms to confirm lesion creation and only requires a single transseptal puncture to reach the targets in the left atrium.

Spinal Tether Device Treats Idiopathic Scoliosis

An innovative spinal tether device corrects idiopathic scoliosis in children and adolescents who fail to respond to conservative treatment options, such as external bracing. The Zimmer Biomet (Warsaw, IN, USA; www.zimmerbiomet.com) Tether vertebral body tethering (VBT) system is intended to provide an alternative to growing children and adolescents with idiopathic scoliosis that do not respond to bracing, and whose spinal curves are approaching or have reached the range where surgical treatment is an option. The system includes anchors, vertebral body screws, and setscrews made of titanium alloys that are placed into the same side of each vertebra in the curved section of the spine through an incision on the side of the chest. Idiopathic scoliosis is a sideways curvature of the spine whose cause is unknown. It is the most common spinal deformity in children, most often diagnosed between ages 10 to 18.

Breakthrough Coronary Sinus Device Improves Myocardial Function

A novel intermittent occlusion device helps reduce infarct size and improve cardiac function following an acute myocardial infarction (AMI). The Miracor Medical (Awans, Belgium; www.miracormedical.com) PiCSO Impulse System consists of a balloon tipped triple-lumen catheter and a drive console. The system and concomitant therapy is based on the fact that coronary sinus pressure increases when the vessel is occluded and drainage of venous blood into the right atrium is inhibited. As a result, during the occlusion period, normal right atrial blood pressure builds up to reach a pressure plateau, without effecting systemic arterial pressure. The rise causes an increase in arterial wedge pressure over the ischemic area.

Wound Closure System Outperforms Staples and Sutures

A novel skin closure system reduces incision-related problems, provides greater range of motion, reduces pain, and results in superior scar quality. The ZipLine Medical (Campbell, CA, USA; www.stryker.com) Pre-placement RE-aligning LOW-tension Closure (PRELOC) system is a non-invasive and easy-to-use skin closure device that replaces sutures, staples, and glue for surgical incisions and lacerations. A breathable monofilament base, which is applied before the incision, facilitates re-approximation of incision edges. Once the zipped tags are pulled, tension in the surrounding skin is bridged over and around the incision, resulting in a low-tension and uniform distribution of closure forces, unlike point load forces typical of staples and sutures. Since no skin piercing is involved, there is a reduced risk of surgical site infection (SSI) and needle stick injury.

Orthopedic Robotic System Facilitates External Fixation

A smart, robotic external fixation system addresses the two major challenges facing physicians, patient compliance and lack of real-time feedback. The OrthoSpin (Misgav, Israel; www.orthospin.com) AutoStrut system is an external fixator based on the DePuy Synthes (West Chester, PA, USA; www.injmedicaldevices.com) MaxFrame multi axial correction system, including all its parts and software; but with the six MaxFrame struts substituted by length-adjustable motor-powered AutoStruts. Using MaxFrame 3D planning software, an accurate treatment plan is generated via advanced algorithms, eliminating the need for manual measurement, reducing procedural complexity, radiation exposure, overall costs, and treatment time.

Rotatable Heart Valve Treats Babies and Toddlers

An innovative pediatric mechanical heart valve provides a new treatment option for newborns, infants, and toddlers in need of a mitral or aortic valve replacement. The Abbott (Abbott Park, IL, USA; www.abbott.com) Masters HP 15mm rotatable mechanical bileaflet heart valve is designed to mimic the valve functions of a healthy heart, opening and closing with each heartbeat and assuring proper blood flow. The valve, which can

be implanted in either the mitral or aortic position, includes pyrolytic carbon leaflets and orifice rings that provide an 85 degree leaflet opening angle to reduce turbulence, and a controlled torque rotation mechanism for intraoperative adjustment. A sewing cuff contains additional suture markers for more accurate placement.

3D-Printed Interbody Implants Facilitate Bone Fusion

An innovative portfolio of three-dimensional (3D) printed titanium interbody implants are designed to treat degenerative spine disease by expediting fusion surgery. The DePuy Synthes (West Chester, PA, USA; www.injmedicaldevices.com) CONDUIT Interbody Platform with EIT Cellular Titanium Technology provides the fabricated structures with a porosity of 80%, which closely mimics the structure and modulus of elasticity of natural human cancellous bone. During the spinal fusion procedure, the degenerated, collapsed disc is removed and replaced with a CONDUIT interbody spacer, along with a bone graft, with the intention of restoring natural height and alignment between two adjacent vertebrae. The interbody implant is also prepared with roughened nanoscale surface features that lead to increased adhesion of osteoblasts, compared to conventional titanium materials. The end result is that the formerly mobile disc space between the two vertebrae fuses into as a single, solid bone.

New Polymer Heart Valve Implanted in First Human Patient

Next-generation implantable biopolymer heart valves last longer, are cheaper to manufacture and are more biocompatible than currently available options. Developed at the California Institute of Technology (Caltech; Pasadena, USA; www.caltech.edu) and manufactured by Foldax (Salt Lake City, UT, USA; <https://foldax.com>), the Tria heart valve combines LifePolymer, an advanced biopolymer material, and a patented bioinspired design in order to create a heart valve capable of lasting for decades without calcification, risk of clotting, or damage to red blood cells (RBCs). During testing, one valve has already lasted for 600 million cycles, the equivalent of around 15 years, without signs of significant wear and tear.

Implantable Duodenal Liner Improves Insulin Resistance

A new device that combines an intragastric balloon with a connecting sleeve mimics the effects of traditional bariatric surgery on people with obesity and Type 2 diabetes (T2D). Developed at Sapienza University (Rome, Italy; www.uniroma1.it), Università Cattolica del S. Cuore (UCSC; Rome, Italy; www.unicatt.it), King's College London (KCL; UK; www.kcl.ac.uk), and other institutions, the Sleeveballoon device consists of an intra-gastric balloon with a central channel to allow passage of food into the proximal small bowel, which is then covered by a sleeve that extends into the duodenum and proximal jejunum. This reduces gastric volume by 2/3, while the sleeve bypasses the proximal small bowel, delivering food directly to the mid-jejunum. The device is intended for use for a period of 12-18 months.

Smart Navigation Systems Optimize Total Hip Arthroplasty

The combination of two surgeon-controlled surgical planning and guidance platforms optimizes the treatment of total hip arthroplasty (THA) procedures. The EOS Imaging (Paris, France; www.eos-imaging.com) hipEOS 3.0 is a three dimensional (3D) surgical planning solution that uses weight-bearing standing and sitting EOS images and 2D/3D patient-specific models and datasets to help select and position implants for the best anatomical fit in order to optimize range of motion, based on each patient's 3D anatomy. This delivers an optimal surgical strategy while taking into consideration patient-specific factors that are key criteria for successful THA, including hip-spine relationship, leg length discrepancy, femoral offset and femoral torsion.

3D-Printed Implant Supports Lateral Spinal Fusion

A novel lateral expandable fusion device allows surgeons to achieve up to 30 degrees of sagittal spinal correction in skeletally mature patients. The Stryker (Kalamazoo, MI, USA; www.stryker.com) SAHARA Lateral 3D Expandable Interbody System uses a passive expansion mechanism that can be intraoperatively adjusted from a lateral approach, or passively adjusted in a staged posterior approach following an osteotomy. SAHARA Lateral is available in a variety of footprints, heights, and lordotic offerings so as to more precisely match a patient's anatomy. The system is intended for use with supplemental fixation systems, such as the SAHARA anterior lumbar expandable stabilization system, a lordotic device with integrated screw fixation.

New Imaging Device Identifies Parathyroid Glands During Surgery

A new device that uses autofluorescence imaging to identify the parathyroid glands reduces the incidence of post-thyroidectomy hypocalcemia. The Fluoptics (Grenoble, France; www.fluoptics.com) Fluobeam LX is exclusively dedicated to thyroid and parathyroid surgery that detects the parathyroid gland by autofluorescence in the near-infrared (nIR) light band, with the aid of an optimized real-time display, a high depth of field, and compatibility with ambient operating room lights. Handheld and easily manipulated to cover the surgical field, Fluobeam LX offers an optimized ergonomics with a joystick that simplifies the navigation and selection of the software functionalities, directly by the surgeon.

Novel Technology Provides Real-Time Perfusion Monitoring

A new monitoring system offers real-time perfusion feedback, enhancing clinician's decision-making in the angiography suite. The Pedra Technology (Singapore; www.pedratech.com) Pedra system is a non-invasive, deep tissue, real-time tissue perfusion monitor intended for use in peripheral angioplasty and vascular surgery. The device is based on advanced speckle laser technology, providing a simple five-minute, non-invasive test to distinguish between ischemic ulcers resulting from peripheral vascular disease (PVD) and neuropathic diabetic foot ulcers (DFUs). The resulting Pedra Blood Perfusion Index can indicate the need for urgent vascular surgery.

Therapeutic Device Reduces Postoperative Oxygen Desaturations

Peripheral stimulation technology reduces postoperative hypoxemia (oxygen desaturation) in patients at-risk for obstructive sleep apnea (OSA). The MediPines (Orange County, CA, USA; www.meditpines.com) Oxistimulator is a novel peripheral transcutaneous electrical stimulus (TES) device placed on the wrist that is designed to continuously monitor patient oxygenation levels and to reduce desaturations automatically when deemed necessary. Whenever threshold oxygen saturation (SpO2) levels are lower than 93%, the Oxistimulator provides an immediate mild electrical stimulation, a therapeutic response that is just strong enough to reverse the deterioration, without harm or discomfort to the patient.

New System Facilitates Tympanostomy Tube Delivery

An innovative tympanostomy (ear tube) delivery system enables placement of tubes in the comfort of an office environment. The Tusker Medical (Menlo Park, CA, USA) Tubes Under Local Anesthesia (Tula) sys-

tem is designed to enable delivery of an ear tube to patients under local anesthesia in a physician's office setting, obviating the need for general anesthesia. The system is composed of four concentric components that cut, dilate, shield, and stabilize. The cutter first creates the myringotomy; the dilator opens the incision, while the shield introduces the tympanostomy tube through the myringotomy. The system is approved for use in both adults and children as young as six months of age.

Balloon Dilation Effectively Treats Sleeve Gastrectomy Stenosis

Endoscopic balloon dilation (EBD) appears to be a safe, minimally invasive alternative to surgical revision for sleeve gastrectomy stenosis (SGS), according to a new study. Researchers at NYU Langone Medical Center (New York, NY, USA; www.med.nyu.edu) and Brigham and Women's Hospital (BWH; Boston, MA, USA; www.brighamandwomens.org) conducted a systematic review and meta-analysis of studies through July 2018 that examined the influence of EBD for SGS. The primary outcome was defined as overall success rate of clinical resolution of SGS obstructive symptoms with EBD; secondary outcomes included EBD success rates for SGS in proximal or mid-distal location in early and late SGS, and success rate of cases requiring stents or salvage surgery.

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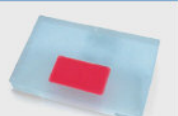
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FDA to Establish Oversight Rules for AI in Medicine

The US Food and Drug Administration (FDA; Silver Spring, MD, USA; www.fda.gov) is developing a framework for regulating artificial intelligence (AI) products used in medicine that continually adapt based on new data. In a white paper published in March 2019, the FDA details the criteria the agency proposes for rules that will be used to determine when and if medical products that rely on AI will require FDA review before being commercialized. The FDA review may include examination of the underlying performance of a product's algorithms, a manufacturer's plan to make modifications, and the manufacturer's ability to manage the risks associated with any modifications.

Drone Delivery System Transports Samples Between Hospitals

Swiss Post (Bern, Switzerland; www.post.ch) is laying out a drone delivery system to convey laboratory samples between hospitals that will arrive function twice as fast as road transport. A pilot study, carried out in collaboration with the Federal Office of Civil Aviation, Skyguide, which monitors Swiss airspace, and local authorities, will use the drones to transport

urine and blood samples five to ten times a day between University Hospital Zürich (USZ; Switzerland; www.en.usz.ch) and the USZ Irchel campus, which are 2.5 kilometers apart. The time savings are expected to help patients, for example those under anesthesia, waiting for laboratory results.

Facial Recognition Continuously Monitors ICU Patients

A new study evaluates an automated system that uses facial recognition technology to continuously monitor the safety of patients admitted to the intensive care unit (ICU). Developed by researchers at Yokohama City University (Japan; www.yokohama-cu.ac.jp), the system uses ceiling-mounted cameras placed above the patients' beds. After collecting about 300 hours of daytime image data of patients facing the camera in body positions that showed their face and eyes clearly, 99 images were subject to a machine-learning (ML) algorithm to analyze them. Based on input from the observational data, especially from around the subject's face, the ML algorithm learned to identify potential high-risk behavior in a process that resembles the way a human brain learns new information.

Augmented Reality Perceives Real-Time Pain of Patients

A novel augmented reality (AR) platform combines visualization with neuroimaging to help clinicians map patient pain in real-time. Developed at the University of Michigan (U-M; Ann Arbor, USA; <https://umich.edu>), the portable clinical augmented reality and artificial intelligence (CLARAi) is based on a sensor-outfitted cap that detects changes to blood flow and oxygenation using functional near-infrared (fNIR) spectroscopy. The data is decoded using a neural network (NN) algorithm to classify the hemodynamic response data into color-coded pain and no-pain brain states. At the same time, clinicians wear a Microsoft HoloLens AR glasses, which allows them to view brain activity in real time on a reconstructed brain template, while the subjects sit in a clinical chair.

Apple Opens iPhone EHR Feature to US Healthcare Organizations

Apple will allow any healthcare organization with a compatible electronic health record (EHR) to register with its mobile Health Records feature, which will allow users to securely and privately download their data to a personal health record (PHR) on their iPhone. Compatible EHRs are based on Fast Healthcare Interoperability Resources (FHIR), a standards framework for exchanging clinical data over the Internet. There are currently about 300 healthcare organizations, labs, and clinics (with over 6,500 locations across the United States) that have registered in the Apple Health Records directory in the Health app. The EHRs that Apple currently supports include Epic, Cerner, athenahealth, and CPSI, which are capable of plugging into the PHR app. Patients can download their EHR after presenting their credentials to the practice or a hospital patient portal.

Digital Avatar Helps Plan Personalized Therapies

A virtual doppelganger that is programmed with a patient's physiological data could aid in providing a personalized prognosis of treatment. Under development at the Swiss Federal Laboratories for Materials Science and Technology (Empa; Dübendorf, Switzerland; www.empa.ch), the digital twin represents a complex multi-physical skin model fed with data from non-invasive sensor systems attached to the human skin. The ostensible transdermal manikin and a linked-up computer model are then used to simulate human physiological responses to drugs and medicines, such as changes in skin temperature or perspiration rate, which can then be analyzed in order to enable precise and personalized dosage of the active agents.

Nanodrone Detects Toxic Gases in Hazardous Environments

A new study describes an innovative smelling nano aerial vehicle (SNAV) that can detect dangerous compounds in buildings that have collapsed due to earthquakes or explosions. Developed at the University of Barcelona (UB, Spain; www.ub.edu), the Institute for Bioengineering of Catalonia (IBEC; Barcelona, Spain; www.ibecbarcelona.eu) and Örebro University (ORU; Sweden; www.oru.se), the SNAV nanodrone weighs just thirty-five grams, including two nanometric metal oxide semiconductor (MOX) gas sensors that can respond to carbon monoxide (CO), methane (CH₄), and other organic volatile compounds such as ethanol, acetone and benzene, with a detection threshold on the order of one part per million in volume (PPMV), according to the gas and the sensor used.

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▶ SEE AD ON PAGE 48

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PCI Precision Charts	pcicharts.com				■										
Pekato Enterprises	pekato.com				■										
Perlong Medical	perlong-china.com	■	■												
Philips Healthcare	philips.com/medical	■	■	■	■	■	■	■	■	■	■	■		■	■
Planmed	planmed.com		■						■						
Poskom	poskom.com	■													
Primedica	primedica.com				■										
PTW-Freiburg	ptw.de													■	
Quest International	questinc.com	■													
Radcal	radcal.com		■	■					■		■			■	
RamSoft	ramsoft.com		■	■	■	■			■	■	■				■
Rein Medical	reinmedical.com	■						■							
Richardson Electronics	rellhealthcare.com		■												
Rita Medical Systems	ritamedical.com										■				
Roesys	roesys.de		■												
RSTI	rsti-training.com														■
RTI Electronics	rtigroup.com		■	■					■	■				■	■
Samsung	samsungmedison.com		■		■										
Schiller	schiller.ch					■									
Sectra	sectra.com							■						■	
Sedecal	sedecal.com		■												
SG Healthcare	sghealthcare.net		■												
Shimadzu Medical Systems	shimadzu.com			■	■	■									
Shina Systems	shina-sys.com							■							
ShinYoung For M	syfm.co.kr		■												
Siemens Healthcare	siemens.com/healthcare	■	■	■	■	■	■	■	■	■	■	■			■
Sino-Hero Bio-Medical Electronics	sinoheromed.com				■										
SIUI	siui.com		■		■										
SonoScape	sonoscape.com				■										
SonoSite	sonosite.com				■										
Sony	pro.sony.eu/medical	■													
Soyee Products	soyee.co.kr	■													
Stephanix	stephanix.com		■												
Sterylab	sterylab.it					■					■				
Strong Electronics	strong.cn				■										
Sun Nuclear	sunnuclear.com				■				■			■			
Sunnex	sunnexmedical.com					■									
Supersonic Imagine	supersonicimagine.fr				■										
Swissray International	swissray.com		■												
Tecno Carta	tecnocarta.com	■			■										
Teknova Medical Systems	teknova.cn				■										
TeraRecon	terarecon.com							■							
Terason Ultrasound	terason.com	■			■										
Thales Electron Devices	thalesgroup.com		■								■				
Trimed	trimed.com														■
Turkuaz Medikal	turkuazsaglik.com.tr	■			■										
TXR	txr.com		■												
Ulrich	ulrichmedical.com										■				
UMG/Del Medical	umgxray.com		■		■										
Unfors RaySafe	raysafe.com													■	

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enthermics.com
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erka.org
info@erka.org

Erbe Elektromedizin ST

Medical Imaging

		Film & Image Mgmt Systems	Radiography	CT	Ultrasound	MR	PET	PACS/IT	Mammography	Nuclear Medicine	Interventional Radiology	Therapeutic Radiology	Contrast Agents	Radiation Safety	Refurbished Equipment
United Imaging Healthcare	unimaging.com				■	■		■							
United Medical Instruments	umiultrasound.com				■										■
VacuTec Messtechnik	vacutec-gmbh.de		■											■	
Varex Imaging	vareximaging.com			■	■							■			
Varian Interay	varian.com		■	■											
Vieworks	vieworks.com		■												
Villa Sistemi Medicali	villasm.com	■	■						■		■				
Vital Images	vitalimages.com							■							
Vomark Technologies	vomark.com				■										■
W7 Global	w7global.com		■	■	■		■			■	■				■
Wandong Medical Equipment	wandong.com.cn		■			■									
Wardray Premise	wardray-premise.com				■									■	
Weigao Medical System	weigaogroup.com	■	■		■										
Well.d Medical Electronics	well.d.com.cn	■		■	■		■				■		■		
Wolf X-Ray	wolfxray.com	■													
XGY Medical	china-mri.com					■									
Xuzhou Kaixin Electronic Instrument	kxele.com				■										
Ziehm Imaging	ziehm.com		■								■				
ZonCare Electronics	zoncare.com				■										

Critical Care

		Patient Monitoring	Anesthesiology	Intensive Care	Cardiac Care	Respiratory Care	Neonatal Care	Point-of-Care Testing	Emergency Medicine	Refurbished Eqmnt/Suppliers
AADEE	aadee.com			■				■		
Abbott	abbott.com	■								
Accura Medizintechnik	accuramed.de				■					
ACI Medical	acimedical.com					■				
Action Products	actionproducts.com		■	■	■				■	
ADOX	adoxweb.com.ar	■	■	■	■	■	■		■	
Advanced Instrumentations	advanced-inst.com		■	■			■			
Advantech Europe	advantech.eu		■			■				
Aeon Technology	aeon-med.com		■	■		■				
Aeonmed	aeonmed.com				■					
Aero Pro	aeropro.com.tw			■		■	■			
Aerotel Medical Systems	aerotel.com		■	■			■			
AG Industries, Filtration Group	agindustries.com					■				
Airon Med	aironusa.com		■	■		■	■		■	
Aitecs	aitecs.com				■	■		■		
Alpha Source	alphasource.com	■				■		■		
AMBISEA Technology	ambisea.com		■		■	■			■	
Ambu	ambu.com	■				■			■	
Ambulanc Technology	ambulgroup.com	■		■					■	
AMPall	ampall.com	■								■
Ampronix	ampronix.com					■				
Angel Med	angel.co.uk								■	
Apex Medical	apexmedicalcorp.com			■						
Arcomed Medical Systems	arcomed.com		■		■				■	
Aspel	aspel.com.pl								■	

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info@erbe-med.de

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info@esaote.com

Essex Industries PC CC
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essexindustries.com
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yshmed.com
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event-medical.com

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Tel: (886) 2-2267-2280
highgrade.com.tw
highgrade@highgrade.com.tw

Hillrom PC
USA • Batesville, IN
Tel: (1) 812-934-7777
hillrom.com

Hillusa CC
USA • Miami, FL ST
Tel: (1) 305-594-7474
hillusa.com
manufacturing@hillusa.com

Critical Care

		Patient Monitoring	Anesthesiology	Intensive Care	Cardiac Care	Respiratory Care	Neonatal Care	Point-of-Care Testing	Emergency Medicine	Refurbished Eqmnt./Suppliers
Atmos Medizintechnik	atmosmed.de							■		
Attune Medical	attune-medical.com	■		■				■		
Atom Scientific	atomscientific.com			■						
Augustine Medical	augustinemedical.com							■		
B-Life	b-life.it		■	■						
Baxter Healthcare	baxter.com						■			
BD Healthcare	bd.com	■					■			
Besmed Health Business	besmed.com	■			■					
Bestman	szbestman.com	■								
Bio-Med Devices	biomeddevices.com			■	■	■	■		■	
Biocare Electronics	biocare.com.cn	■			■					
Biolight Meditech	en.blt.com.cn					■				
Bionet	ebionet.com						■		■	
BMC Medical	bmc-medical.com									■
Brownmed	brownmed.com		■							
Caesarea Medical Electronics	cme-infusion.com	■		■	■					
Cardiac Science	cardiacscience.com				■				■	
Cardiaid	cardiaid.com	■		■	■					
CardioComm Solutions	cardiocomm.com	■			■					
Cardioline	cardioline.it			■						■
Cardiopulmonary Instrumentation	cpiinst.com	■		■	■	■			■	
Charmcare	charmcare.com	■		■						
Chart Industries	chartindustries.com					■				
Charter Contron	mennenmedical.com	■		■	■		■		■	
Chenwei	chenwei-med.com		■			■				
ChoiceMMed	choicemed.com	■							■	
Cincinnati Sub-Zero	cszproducts.com			■						
Circadiance	circadiance.com	■				■	■			
CMICS Medical	cmics.com.cn	■		■	■		■			
Codonics	codonics.com		■							
Comen Medical	comen.com	■			■		■			
Conquest Imaging	conquestimaging.com									■
Contec Medical Systems	contecmed.com.cn	■								
Cornley	cornley.com	■								
Cosmed	cosmed.com				■					
Creative Medical	creative-sz.com	■								
Criticare Technologies	criticare.com	■		■					■	
CU Medical Systems	cu911.com	■		■	■				■	
Curbell Medical	curbellmedical.com	■								
Dale Medical	dalemed.com			■						
Dameca	dameca.com		■							
Danmeter	danmeter.dk	■								
David Medical Device	nbdavid.com						■			
Defibtech	defibtech.com				■				■	
Deltex	deltexmedical.com			■						
DeRoyal	deroyal.com			■						
Diestro Medical Device Technology	diestroweb.com		■							
Dima Italia	dimaitalia.com					■				
DMS Topline Medical	dmshealth.com									■
Dräger Medical	draeger.com		■			■	■		■	
DRG International	drg-international.com	■			■		■			
DWL	dwl.de				■					
EBIME	ebime.com.mx	■								
EBNeuro	ebneuro.com			■	■		■		■	
Edan Instruments	edan.com	■	■	■	■	■	■		■	
Edwards Lifesciences	edwards.com	■								
EKF Diagnostics	ekfdiagnostics.com							■		
EKU Elektronik	eku-elektronik.com	■	■	■		■		■		
ELITech Group	elitechgroup.com							■		
EMCO Meditek	emcomeditek.com	■	■	■			■			
Emergencia 2000	emergencia2000.com	■				■			■	
EMS Emergency Mobile Systems	ambulanceproducer.com								■	
Emtel	emtel.com.pl	■								
Endocor	endocor.com			■	■				■	
Enthermics Medical Systems	enthermics.com		■	■	■		■		■	
ERKA Kallmeyer Medizintechnik	erka.org	■			■					
Ertunc Ozcan	ertuncozcan.com			■						
Esaote	esaote.com						■			
Essex Industries	essexindustries.com				■					
Eternity Electronic Technology	yshmed.com					■				
eVent Medical	event-medical.com		■	■		■	■			
Fanem	fanem.com.br	■				■	■			
Fazzini	fazzini.it						■			

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hitachi.com/healthcare

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i-Sens PC CC
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iCAD MI
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ILO Electronic ST
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KORU Medical Systems CC
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Koven Technology ST MI CC
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KPI Ultrasound MI
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Critical Care

		Patient Monitoring	Anesthesiology	Intensive Care	Cardiac Care	Respiratory Care	Neonatal Care	Point-of-Care Testing	Emergency Medicine	Refurbished Eqpm./Suppliers
Ferno	fernointernational.com					■			■	
Finapres Medical Systems	finapres.com					■				
First Medical International	firstmedus.com	■			■					
Fisher & Paykel Healthcare	fphcare.com	■	■	■	■	■				■
Flaem Nuova	flaemnuova.it		■			■	■			
Flexicare Medical	flexicare.com					■				
Fresenius Kabi	fresenius-kabi.com						■			
Fukuda Denshi	fukuda.co.jp			■						
Futuremed	futuremed.com	■	■	■		■	■		■	
GaleMed Corporation	galemed.com	■			■					
GE Healthcare	gehealthcare.com		■			■				
General Biomedical Service	generalbiomedical.com	■	■	■	■	■	■		■	
General Meditech	szmedtech.com									■
Ginevri	ginevri.com	■		■	■	■	■	■		
GMMC	gmmc-inc.com					■	■			
Greiner Bio-One	vacuette.com	■		■		■			■	
Grifols	grifols.com			■						
Guided Therapeutics	guidedinc.com			■						
Gulf Fiberoptics	gulffiberoptics.com							■		
Hamilton Medical	hamilton-medical.com	■								
Hans Rudolph	rudolphkc.com	■		■	■		■		■	
HARD Manufacturing	hardmfg.com					■			■	
Harloff	harloff.com		■	■		■	■		■	
Heal Force	healforce.com			■			■			
Heartland Medical	heartlandmedical.com		■		■				■	
HeartSine Technologies	heartsine.com	■	■	■						
Heine Optotechnik	heine.com	■	■	■	■	■	■			■
Hersill	hersill.com				■					
Heyer Medical	heyermmedical.de		■	■			■		■	
Hillusa	hillusa.com					■				
Huntleigh	huntleigh-diagnostics.co.uk	■			■		■			
i-Sens	i-sens.com	■			■					
iCRco	icrco.com	■								
ICU Medical	icumed.com	■	■	■						
Imaxeon	imaxeon.com							■		
IMT Medical	imtmedical.com							■		
Infinium Medical	infiniummedical.com			■	■					
Ingenieria Y Tecnicas Clinicas	itcsal.com	■		■		■	■			
Innomed Medical	innomed.hu			■			■		■	
Innomed Medizintechnik	innomed.com	■	■	■	■				■	
Inspiration Healthcare	inspiration-healthcare.com			■		■			■	
Instramed	instramed.com.br	■			■					
International Biomedical	int-bio.com	■	■		■					
Intersurgical	intersurgical.com	■								
Invacare	invacare.com						■			
JADAK	jadatech.com		■	■		■	■		■	
JD Honigberg International	jdhintl.com					■				
JMS	jmsna.net	■	■	■	■	■		■	■	
Jumper Medical Equip.	jumper-medical.com		■		■	■			■	
JW Medical	jw-medical.co.kr	■		■	■					
Kanmed	kanmed.se							■		
Kare Medical Devices	karemedical.eu	■			■		■			
KellyMed	kelly-med.com						■			
Kern & Sohn	kern-sohn.com	■				■				
Kernel Medical	kernelmed.com						■			
Kimal	kimal.co.uk			■						
KM Medical	kmmedical.co.nz						■			
KORU Medical Systems	korumedical.com					■				
Koven Technology	koven.com	■								
KX Medical	kxmedical.com	■		■	■			■	■	
Laerdal Medical	laerdal.com			■					■	
Landwind Medical	landwindmedical.com						■			
Lessa - AB Medica Group	lessap.com	■						■		
LMT Medical Systems	lmt-medicalsystems.com								■	
Lode	lode.nl		■			■				
Lodox System	lodox.com				■					
Lutech	lutechmedical.com						■			
Magnamed Tecnologia Medica	magnamed.com.br								■	
Maltron International	maltronint.com	■		■						
Masimo	masimo.com	■	■	■	■	■				
Maxtec	maxtec.com		■	■	■	■				
Med-Link Electronics	med-linket.com	■								
Medcaptain Medical Technology	medcaptain.com	■				■	■			

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medvix.com
info@ampronix.com

MEKICS CC
Korea • Paju
Tel: (82) 70-7119-2500
mek-ics.com
sales@mek-ics.com

Meike Electronic Equipment MI PC
China • Mianyang
Tel: (86) 8166-355-073
bladder-scanner.com
meike01@bladder-scanner.com

Mennen Medical CC
Israel • Yavne
Tel: (972) 8-932-3333
mennenmedical.com
info@mmi.co.il

Mercury Medical CC
USA • Clearwater, FL
Tel: (727) 573-0088
mercurymed.com
InternationalCustomerService@mercurymed.com

Merivaara ST PC
Finland • Lahti
Tel: (358) 3-339-4611
merivaara.com
merivaara@merivaara.com

Merlin Medical CC
UK • Rhymney, Wales
Tel: (44) 1685-843676
merlin-medical.co.uk
sales@merlin-medical.co.uk

Mesa Laboratories CC ST
USA • Lakewood, CO
Tel: (1) 303-987-8000
mesalabs.com
customerservice@mesalabs.com

Mesa Medizintechnik ST CC PC
Germany • Benedikt-beuern
Tel: (49) 8857-6918-0
mesamed.de
info@mesamed.de

Mespa Healthcare Products PC
Turkey • Gaziantep
Tel: (90) 850-227-3434
mespa.com.tr
sales@mespa.com.tr

Metaltronica MI
Italy • Pomezia
Tel: (39) 06-6616-0206
metaltronica.it
metaltronica@metaltronica.com

Metro International CC
USA • Wilkes-Barre, PA
Tel: (1) 570-825-2741
metro.com
cssupport@metro.com

Metropolis International MI
USA • Long Island City, NY
Tel: (1) 718-371-6026
metropolismedical.com
service@metropolismedical.com

Mettler Electronics
USA • Anaheim, CA PC
Tel: (1) 714-533-2221
mettlerelectronics.com
mail@mettlerelectronics.com

Miconvey Technologies ST
China • Shanghai
Tel: (86) 21-6251-1116
qmimed.com
info@miconvey.com

Micrel Medical CC
Greece • Athens
Tel: (30) 210-6032333
micrelmed.com
info@micrelmed.com

Midmark EMEA PC
UK • Reading ST
Tel: (44) 0-125-236-0940
midmarkmedicalemea.com
hello@midmark.com

MIL'S CC
France • Lyon
Tel: (33) 4-72-78-00-40
mils.fr
sales@mils.fr

Mindray Medical International CC ST MI
China • Shenzhen
Tel: (86) 755-2658-2888
mindray.com
intlmarket@mindray.com

MinXray MI
USA • Northbrook, IL
Tel: (1) 847-564-0323
minxray.com
info@minxray.com

MIPM CC MI
Germany • Mammendorf
Tel: (49) 814-592-090
mipm.com
international@mipm.com

MIR - Medical International Research CC
Italy • Rome
Tel: (39) 6-2275-4777
spirometry.com
mir@spirometry.com

Mirion Technologies MI

Critical Care

		Patient Monitoring	Anesthesiology	Intensive Care	Cardiac Care	Respiratory Care	Neonatal Care	Point-of-Care Testing	Emergency Medicine	Refurbished Eqpmnt./Suppliers
Medec Benelux	medecbenelux.be	■					■			
Medela Healthcare	medela.com			■	■		■			
Medestime	medestime.com				■	■	■			
Medi-Tech International	meditechintl.com	■								
Mediaid	mediaidinc.com						■			
Mediana	mediana.co.kr			■			■		■	
Medical Illumination International	medillum.com								■	
Medical International Research	spirometry.com	■		■	■		■			
Medicor Elektronika	medicor.hu			■			■			
Medima	medima.com.pl	■	■	■	■	■				
Medimar	medimarcorp.com		■			■				
Medion Healthcare	medion.co.in							■		
Mediplus	mediplus.co.uk			■						
Mediracer	mediracer.com				■	■				
Medisoft	medisoft.be	■		■	■	■			■	
Medlab	medlab.eu	■				■				
Medset Medizintechnik	medset.com	■	■		■	■			■	
Medtronic	medtronic.com	■				■				
MEKICS	mek.co.kr				■	■				
Mennen Medical	mennenmedical.com	■	■	■	■	■	■		■	
Mercury Medical	mercurymed.com	■		■			■			
Merlin Medical	merlin-medical.co.uk		■	■		■			■	
Mesa Laboratories	mesalabs.com					■			■	
Mesa Medizintechnik	mesamed.de							■		
Metro International	metro.com		■	■	■		■		■	
MIL'S	mills.fr		■							
Mindray Medical International	mindray.com		■	■		■	■		■	
MIPM	mipm.com	■	■	■						
Mirion Technologies	mirion.com									
MIR Medical International Research	spirometry.com	■								
Myco Medical	mycomedical.com	■	■							
Natus Medical	natus.com	■			■					
NDS Surgical Imaging	ndssi.com				■		■			
Nidek Medical	nidekmedical.com		■							
Nihon Kohden	nihonkohden.com			■		■	■			
Nipro Medical	nipro-group.com	■	■	■	■	■	■		■	
Nitrocare	nitrocare.com.tr					■				
Nonin Medical	nonin.com	■		■	■				■	
NORAV Medical	norav.com			■						
Nouvag	nouvag.com			■						
Nova Biomedical	novabiomedical.com				■					
Novair	novairmedical.com				■					
Novos Medical Systems	novos.com.tr					■				■
O-Two Medical Technologies	otwo.com			■		■	■	■	■	
Okuman Medikal	okuman.com.tr					■				
Olidef	olidef.com.br						■			
Omron Healthcare Europe	omron.eu					■			■	
OR Technology	or-technology.com	■	■	■	■	■	■	■	■	
Oricare	oricaremed.com								■	
Osatu	bexencardio.com	■	■	■			■	■	■	
Outpatient Supply	outpatientsupply.com					■	■		■	
Owen Mumford	owenmumford.com									
Pajunk	pajunk.com	■				■				
Palco Laboratories	palcolabs.com		■			■				
Paraid Medical Systems	paraid.co.uk				■				■	
PCI Precision Charts	pcicharts.com							■		
Pekato Enterprises	pekato.com		■							
Penlon	penlon.com	■	■			■				
Perry Health	perry-health.com						■			
Perlong Medical	perlong-china.com									
Philips Healthcare	philips.com/medical				■		■		■	
Phoenix Medical Systems	phoenixmedicalsystems.com	■	■							
Plasti-Med	plasti-med.com	■	■			■				
Precision Medical	precisionmedical.com	■	■	■	■	■	■		■	
Primedic	primedic.com						■			
PROACT Medical	proactmedical.co.uk	■								
Progetti Medical	progettomedical.com	■							■	
Projesan Hospital Furniture	projesan.com.tr		■			■				
Quirumed	quirumed.com					■				
Raumedic	raumedic.com	■		■	■	■	■		■	
Reanimed	reanimed.com									■
Rein Medical	reinmedical.com				■	■				
ResMed	resmed.com								■	■

USA • Florham Park, NJ
Tel: (1) 201-825-9500
mirion.com
apiccolo@mirion.com

Misonix MI
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Tel: (1) 631-694-9555
misonix.com

Mitsubishi Electric Visual and Imaging Systems MI
USA • Irvine, CA
Tel: (1) 949-465-6000
me-vis.com

Möller-Wedel ST
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Tel: (49) 4103-9377-610
moeller-wedeloptical.com
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Myco Medical CC ST
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mycomedical.com
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Natus Medical CC
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natus.com

NDS Surgical Imaging MI ST CC
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ndssi.com
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nessler.com
office@nessler.com

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Tel: (1) 631-531-0100
netechcorp.us
sales@netechcorp.us

NeuroLogica MI
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Tel: (1) 978-564-8500
neurologica.com
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Neusoft Medical Systems MI
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neusoftmedical.com
inquiries@neusoft.com

Newmedical Technology ST

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newmedical.com
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Nidek Medical CC
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nihonkohden.com

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nilymed.com
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Nipro Europe CC
Belgium • Mechelen
Tel: (32) 15-263-500
nipro-group.com
medical@nipro-group.com

Nisco ST
Japan • Nagano
Tel: (81) 26-243-3895
nisco-jp.jp

Nitrocare PC CC
Turkey • Sivas
Tel: (90) 346-218-19-10-13
nitrocare.com.tr
info@nitrocare.com.tr

Nonin Medical CC
USA • Plymouth, MN
Tel: (1) 763-553-9968
nonin.com
info@nonin.com

NORAV Medical CC
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norav.com
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NordicNeuroLab MI
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nordion.com
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Nouvag ST CC
Switzerland • Goldach
Tel: (41) 71-8466600
nouvag.com
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Nova Biomedical CC
USA • Waltham, MA
Tel: (1) 781-894-0800
novabiomedical.com
info@novabio.com

Novair CC

France • Roissy-en-France
Tel: (33) 1-5646-0203
novairmedical.com
contact@novair.fr

NovaProbe ST
USA • Colmar, PA
Tel: (1) 215-259-3673
novaprobe.com
sales@novaprobe.com

Novarad MI
USA • American Fork, UT
Tel: (1) 801-642-1001
novarad.net
info@novarad.net

Novos Medical Systems CC
Turkey • Ankara
Tel: (90) 312-384-15-88
novos.com.tr
info@novos.com.tr

NUVO ST
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nuvosurgical.com
sales@nuvosurgical.com

O-Two Medical Technologies CC MI
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otwo.com
resuscitation@otwo.com

Okuman Medikal CC ST
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Olidef CC
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olidef.com.br
vendas@olidef.com.br

Olympus ST
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olympus-europa.com/
medical
info@olympus-europa.com

Omron Healthcare Europe PC CC
Netherlands • Hoofddorp
Tel: (31) 23-554-4700
omron.eu
info.omronhealthcare@eu.omron.com

OPTEC Endoscopy Systems ST
Germany • Sulzbach
Tel: (49) 6897-9249-860
optec.de
info@optec.de

Optomic ST PC
Spain • Colmenar Viejo
Tel: (34) 91-804-4444
optomic.com
contact@optomic.com

OR Technology CC MI
Germany • Rostock
Tel: (49) 381-36-600-500
or-technology.com
info@or-technology.com

Ordisi ST
Spain • Barcelona
Tel: (34) 93-334-0112
ordisi.com
comercial@ordisi.com

Oricare CC ST
USA • Quakertown, PA
Tel: (1) 215-538-2470
oricaremed.com
info@oricaremed.com

Osatu CC
Spain • Ermua
Tel: (34) 943-170-220
bexencardio.com
info@bexencardio.com

Osteometer PC
USA • Signal Hill, CA
Tel: (1) 310-802-3711
osteometer.com
info@osteometer.com

Outpatient Supply CC
USA • Largo, FL
Tel: (1) 727-475-7608
outpatientsupply.com
sales@outpatient-supply.com

Owen Mumford CC
UK • Oxfordshire
Tel: (44) 1993-812021
owenmumford.com
info@owenmumford.co.uk

PACSHHealth MI
USA • Scottsdale, AZ
Tel: (1) 602-903-4384
pacshealth.com
info@pacshealth.com

Pajunk ST CC
Germany • Geisingen
Tel: (49) 7704-9291-0
pajunk.com
info@pajunk.com

Paraid Medical Systems PC CC
UK • Birmingham
Tel: (44) 121-700-7455
paraid.co.uk
info@paraid.co.uk

Parker Laboratories MI
USA • Fairfield, NJ
Tel: (1) 973-276-9500
parkerlabs.com
parker@parkerlabs.com
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Paxeramed MI
USA • Newton, MA

Tel: (1) 888-430-0005
paxeramed.com
sales@paxeramed.com

PCI Precision Charts CC MI PC
USA • Bohemia, NY
Tel: (1) 631-567-6100
pcicharts.com
info@pcicharts.com

Pekato Enterprises ST MI CC
USA • Miami, FL
Tel: (1) 305-594-8565
pekato.com
sales@pekato.com

Penlon CC
UK • Abingdon, Oxfordshire
Tel: (44) 1235-547-000
penlon.com
info@penlon.com

Pentax ST
Germany • Hamburg
Tel: (49) 405-6192-0
pentaxmedical.com
info.emea@pentaxmedical.com

Perry Health CC
USA • Miami, FL ST
Tel: (1) 305-592-2830
perry-health.com
corporate@perry.com
▶ SEE AD ON PAGE 3

Perlong Medical CC PC MI ST
China • Nanjing
Tel: (86) 25-52635350
perlong-china.com
perlong@perlong-china.com

Philips Healthcare MI ST CC
Netherlands • Best
Tel: (31) 40-27856-00
philips.com
healthcare@philips.com

Phoenix Medical Systems CC PC
India • Chennai
Tel: (91) 93-8057-1151
phoenix
medicalsistemas.com
exports@pmsind.com

Planmed MI
Finland • Helsinki
Tel: (358) 20-7795-300
planmed.com
sales@planmed.com

Plasti-Med ST CC
Turkey • Istanbul
Tel: (90) 216-591-0491
plasti-med.com
info@plasti-med.com

Poskom MI

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Tel: (82) 31-906-9007
poskom.com
sales@poskom.com

Praticima PC
France • Trevoux
Tel: (33) 04-74-00-98-11
praticima.com
praticima@praticima.fr

Precision Medical CC
USA • Northampton, PA
Tel: (1) 610-262-6090
precisionmedical.com
info@precisionmedical.com

Prestige Medical ST
UK • Blackburn
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prestigemmedical.co.uk
sales@prestigemmedical.co.uk

Primedic CC MI
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primedic.com
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Print Media MI
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printmedia-inc.com
service@printmedia-inc.com

PROACT Medical CC ST PC
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proactmedical.co.uk
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Progetti Medical ST CC
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Tel: (39) 01-164-4738
progettomedical.com
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Projesan Hospital Furniture CC PC
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Tel: (90) 352-221-45-17
projesan.com.tr
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Promotal PC ST
France • Ernée
Tel: (33) 2-43-05-68-95
promotal.com
contact@promotal.com

Propper Manufacturing ST
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Critical Care

		Patient Monitoring	Anesthesiology	Intensive Care	Cardiac Care	Respiratory Care	Neonatal Care	Point-of-Care Testing	Emergency Medicine	Refurbished Eqpmnt./Suppliers
Respironics International	respironics.com		■	■	■	■			■	
Response Biomedical	responsebio.com			■		■	■		■	
RGB Medical Devices	rgb-medical.com	■								
Ribbel International	ribbel.com			■					■	
KORU Medical Systems	korumedical.com			■						
Rongrui-Century	reswell.com.cn					■				
Samsung	samsungmedison.com					■				
Samtronic	samtronic.com.br							■		
Schaerer Mayfield	schaerermayfield.com	■	■	■	■				■	
Schiller	schiller.ch					■				
Schmitz u. Sohne.	schmitz-soehne.de							■		
Seca	seca.com			■						
Sechrist Industries	sechristusa.com		■		■				■	
Sharn	sharn.com	■				■			■	
Shekel Scales	healthcarescales.com			■					■	
Shunde Changxing Ultrasonic	cxddoppler.com	■					■	■		
Siare	siare.it	■	■						■	
Sibel Group	sibelgroup.com	■								
Siebel	siebelmed.com			■		■				
Siemens Healthcare	siemens.com/healthcare	■								
Sino-Hero Bio-Medical Electronics	sinoheromed.com		■	■		■	■		■	
SLE	sle.co.uk					■				
SLP	sleepsense.com				■			■		
Smiths Medical	smiths-medical.com	■								
Sol-Med Enterprises	sol-med.net			■			■			
Solaris Medical Technology	solaris-newtech.com					■	■			
Soma Technology	somatechnology.com					■				
SonoScape	sonoscape.com	■		■		■		■		
Spacelabs Healthcare	spacelabshealthcare.com	■		■						
Spencer	spencer.it	■								
Stephan	stephan-gmbh.com									■
Sterylab	sterylab.it				■					
Storz Medical	storzmedical.com	■	■	■	■		■		■	■
Strong Electronics	strong.cn					■			■	
SunMed	sun-med.com	■								
Sunray Medical	sunray.cn	■	■	■		■			■	
SunTech Medical	suntechmed.com	■	■				■			
Surgiris	surgiris.com		■	■						
Tecme	tecme-global.com				■					
Tecno Carta	tecnocarta.com	■					■			
Teleflex Medical	teleflexmedical.com	■			■					
Terumo Europe	terumo-europe.com	■								
Timesco Healthcare	timesco.com						■			
TMS	tms-medical.com	■		■	■		■	■	■	
TriMed	trimed.com			■			■		■	
Unicare Electronic	unicare-med.com			■						
Unimed Medical Supplies	unimed.cn		■	■		■				
Universal Medical Technologies	umtinc.com		■							
US DEFIB Medical Technologies	usdefib.com	■								
VADI Medical Technology	vadimedical.com.tw	■				■				
VBM Medizintechnik	vbm-medical.de		■		■				■	
Vectracor	vectracor.com	■		■	■					
Viamed	viamed.co.uk								■	
Viasys	viasyshealthcare.com	■				■	■			
Victus	victus.com			■						
Wego Medical Systems	weigaogroup.com			■	■				■	
Weinmann	weinmann-emergency.com		■	■		■				
Welch Allyn	welchallyn.com		■	■		■	■		■	
Weyer	weyermed.com	■	■	■		■	■		■	
Xeralife	xeralife.com	■			■	■				
XFT	xft-china.com			■						
Zoll Medical	zoll.com	■		■			■			
ZonCare Electronics	zoncare.com	■		■		■			■	

Tel: (49) 7614-9055-0
ptw.de
info@ptwdosimetry.com

Quest International

USA • Irvine, CA
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questinc.com
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Reanimed

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Rein Medical

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Restorative Care of America

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Tel: (1) 727-573-1595
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ResMed

USA • San Diego, CA
Tel: (1) 858-836-5000
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Response Biomedical

Canada • Vancouver, BC
Tel: (1) 604-456-6010
responsebio.com
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RGB Medical Devices

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rgb-medical.com
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Richardson Electronics

USA • La Fox, IL
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rellhealthcare.com
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Richen Science & Technology

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ureabreathtests.com
china-richen.com.cn

Riester, Rudolf

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riester.de
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Rigel Medical

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rigelmedical.com
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Roesys

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Rongrui-Century

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RSTI

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RTI Electronics

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Rudolf Medizintechnik

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Samarit Medical

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Samsung

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Samtronic

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Savion Industries

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Schiller

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3M Health Care	3M.com/healthcare											
A&E Endoscopy	aeendoscopy.com	■	■	■				■	■	■	■	■
AADCO Medical	aadcomed.com								■	■		
Aamsco Lighting	aamsco.com								■			
ACEM	acem.it								■			
ACI Medical	acimedical.com										■	
Ackermann Instrumente	ackermanninstrumente.de	■	■	■								
Action Products	actionproducts.com									■		
Advanced Instrumentations	advanced-inst.com		■	■					■	■		
Aeonmed	aeonmed.com								■	■		
Allgaier Instrumente	allgaier-instrumente.de	■	■		■							
ALM	alm-sa.fr								■			
Alpha Source	alphasource.com		■									
Alsa Apparecchi Medicali	alsamed.com			■								
Ambulanc Technology	ambulgroup.com	■		■								
American Medical Endoscopy	endoscopia.com		■									
Ampronix	ampronix.com									■		
Anetic Aid	aneticaid.com		■	■						■		
ArjoHuntleigh	arjo.com											■
Articomed	articomed.com	■			■							
Asclepion Laser Technologies	asclepion.com						■					
Aspen Medical	aspensurgical.com	■	■									
Assut Sutures	assutsutures.com										■	
Atlas Speciality Lightning	asltg.com								■			
Atmos MedizinTechnik	atmosmed.de						■					
Attune Medical	attune-medical.com					■						
B-Life	blife.it											■
Baeramed Instrumente	baeramed.de	■	■		■						■	■
Baumer	baumer.com.br	■			■				■	■		
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Belintra	belintra.com											■
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Biolight Meditech	en.blt.com.cn	■										
Biomedica International	biomedicalintl.com									■		
Block Imaging International	blockimaging.com							■				
Bowa	bowa-medical.com		■									
Brandon Medical	brandon-medical.com								■			
Braun, B.	bbraun.com											■
Bristol Maid	bristolmaid.com									■		
Brownmed	brownmed.com										■	
Bulbman	bulbman.com											
Cardiopulmonary Instrumentation	cihealthcare.com			■		■			■	■		
Carley Lamps	carleylamps.com								■			
CBM Medical Equipment	cbm-srl.com											■
Celitron Medical Technologies	celitron.com											■
Central Surgical	centralsurgical.com	■	■	■	■	■				■		■
Cheiron	cheiron.eu					■						
Chenwei	chenwei-med.com		■									
Codonics	codonics.com									■		
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Cooper Surgical	coopersurgical.com	■		■								
Cooperative Mercedes IMEC	coopmercedes.com.br									■		
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Cymo	cymo.nl		■						■			
Dale Medical	dalemed.com										■	
David Medical Device	nbdavid.com					■						
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Encision	encision.com	■		■								
Endocor	endocor.com	■				■					■	
Entermed	entermed.com	■										
Erbe	erbe-med.de	■		■								
Eternity Electronic Technology	yshmed.com									■		
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Fanem	fanem.com.br											■
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Feather Safety Razor	feather.co.jp	■		■								
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Geringe	geringe.com											■
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Humanmeditek	hmmtd.com											■
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ILO Electronic	ilo.com		■									
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INTERmedic	inter-medic.net		■				■					
ISIS	surgimedia.com									■		
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Kenex	kenex.co.uk									■		
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 info@zoll.com

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 zoncare.com
 info@zoncare.com

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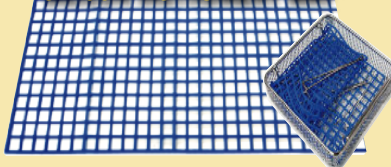
- *Thermo-Resistant (-60 °C to 300 °C)*
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- *Suitable for central sterilization services*
- *Sterilizable*

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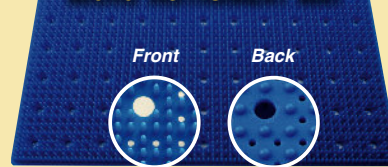


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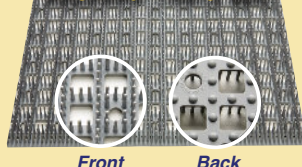
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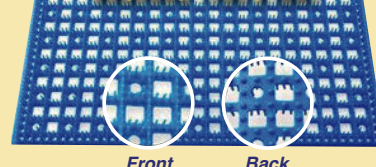
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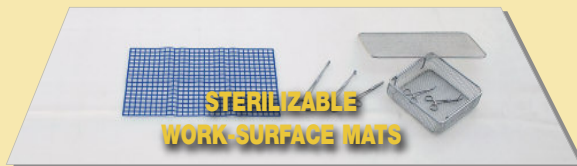
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Surgical Techniques

		Surgical Instruments	Endoscopy/Fiberoptic Instr.	Electrosurgery	Orthopedic Implants	Suction Devices	Laser Surgery	Lithotripsy	Surgical Lighting	O.R. Tables & Equipment	Wound Care	Sterilization
LowTem	lowtem.com											■
Lumenis	lumenis.com						■					■
Matachana	matachana.com											■
Mavig	mavig.com									■		
Maxer Endoscopy	maxerendoscopy.com		■	■								
Medela Healthcare	medela.com					■					■	
MedGyn	medgyn.com		■	■		■						
Medi-Safe Surgicals	medi-safe.net	■										
Medi-Tech International	meditechintl.com			■		■			■	■		■
Medical Illumination International	medillum.com								■	■		
Medicon	medicon.de	■	■		■							
Medigus	medigus.com		■									
Mediland	mediland.com.tw								■	■		
Medimar	medimarcorp.com			■					■			
Medion Healthcare	medion.co.in	■			■				■	■		
Mediplus	mediplus.co.uk	■										
Medispec	medispec.com							■				
Medpej	medpej.ind.br								■	■		
Medsys	medsys.be	■		■								
Medtronic	medtronic.com	■	■	■	■							
Medvix	medvix.com									■		
Mercury Medical	mercurymed.com			■		■						
Merivaara	merivaara.com									■		
Mesa Laboratories	mesalabs.com											■
Mesa Medizintechnik	mesamed.de									■		
Miconvey Technologies	qmimed.com	■	■								■	
Midmark EMEA	midmarkmedicalemea.com								■	■		■
Mindray Medical International	mindray.com								■	■		
Misonix	misonix.com	■										
Möller-Wedel	moeller-wedel-optical.com	■										
Myco Medical	mycomedical.com	■									■	
NDS Surgical Imaging	ndssi.com		■							■		
Newmedical Technology	newmedical.com										■	
Nilymed	nilymed.com		■	■					■	■		
Nisco	nisco-jp.jp	■	■									
Nouvag	nouvag.com	■		■	■	■				■	■	
Novaprobe	novaprobe.com	■	■									
NUVO	nuvosurgical.com								■	■		
Okuman Medikal	okuman.com.tr								■	■		
Olympus	olympus-europa.com/medical		■									
OPTEC Endoscopy Systems	optec.de	■	■									
Optomic	optomic.com		■									
Ordisi	ordisi.com					■			■			
Oricare	oricaremed.com								■	■		
Pajunk	pajunk.com	■	■	■		■						
Pekato Enterprises	pekato.com	■										
Penlon	penlon.com					■						
Pentax	pentaxmedical.com		■									
Perry Health	perry-health.com											
Perlong Medical	perlong-china.com	■										
Philips Healthcare	philips.com/medical								■			
Plasti-Med	plasti-med.com					■						
Prestige Medical	prestigemedical.co.uk											■
PROACT Medical	proactmedical.co.uk	■				■				■		■
Progetti Medical	progettimedical.com					■						
Propper Manufacturing	proppermfg.com											■
Quirumed	quirumed.com	■							■			■
Reanimed	reanimed.com					■						
Rein Medical	reinmedical.com		■									
Renosem	renosem.com											■
Ribbel International	ribbel.com	■										
Riester, Rudolf	riester.de	■	■						■			
Rigel Medical	rigelmedical.com			■								
Rudolf Medizintechnik	rudolf-med.com	■										

Surgical Techniques

		Surgical Instruments	Endoscopy/Fiberoptic Instr.	Electrosurgery	Orthopedic Implants	Suction Devices	Laser Surgery	Lithotripsy	Surgical Lighting	O.R. Tables & Equipment	Wound Care	Sterilization
Ruhof	ruhof.com											■
Samarit Medical	samarit.com									■		
Schaerer Medical	schaerermedical.ch	■								■		
Schmitz	schmitz-soehne.de									■		
SH Medical	shmedical.com	■	■									
Sharn	sharn.com	■										
Shen Wei USA	shenweiusa.com											■
Shuenn Bao Shing	aeropro.com.tw									■		
Siare	siare.it					■			■	■		
Sismatec	sismetec.com.br								■	■		
Smith & Nephew	smith-nephew.com											■
Smiths Medical	smiths-medical.com	■	■			■						
Sol-Med Enterprises	sol-med.net	■		■							■	
Soluscope	soluscope.com		■									■
SonoScape	sonoscape.com		■									
Sony	pro.sony.eu/medical									■		
Spencer Italia	spencer.it					■						
Steris	steris.com											■
Steris LatAm	sterislatam.com											■
Sterylab	sterylab.it	■				■						
Stille	stille.se	■								■		
Storz, Karl	karlstorz.com	■	■							■		
Stryker Worldwide	stryker.com	■	■		■					■		
Sunflower Medical	sunflowermedical.co.uk									■		
Sunnex	sunnexmedical.com								■	■		
Sunoptic Technologies	sunoptictech.com		■						■			
Surgicoin Medequip	surgicoin.com	■		■		■			■	■		■
Surgiris	surgiris.com								■	■		
Swann-Morton	swann-morton.com										■	
Talley Medical	talleygroup.com										■	
Technologie Medicale	technologiemedicale.com										■	
Tecno Carta	tecnocarta.com											■
Tecno-Gaz	tecnogaz.com											■
Teleflex Medical	teleflexmedical.com	■										
Timesco Healthcare	timesco.com	■										
TMS	tms-medical.com	■										
Top Corporation	top-tokyo.co.jp	■										
Turkuaz Medikal	turkuazsaglik.com.tr						■					■
Tuttnauer	tuttnauer.com											■
Ulrich	ulrichmedical.com	■										
Union Medical	unionmedical.com						■					
Üzümcü	uzumcu.com.tr			■						■		■
VBM Medizintechnik	vbm-medical.de					■						
Vicotex	vicolab.com	■										■
Victus	victus.com										■	
Wego Medical Systems	weigaogroup.com		■									
Welch Allyn	welchallyn.com	■	■									
Well.d Medical Electronics	welld.com.cn	■	■	■			■	■				
WEM Equipamentos Eletronicos/Covidien	wem.com.br	■		■								
Weyer	weyermed.com					■						
Whittemore Enterprises	weme1.com	■	■	■		■		■	■	■		
WISAP	wisap.com					■						
Wolf, Richard	richard-wolf.com	■	■	■						■		■
Xeralife	xeralife.com									■		
Zeiss (Carl) MicroImaging	zeiss.com/micro	■										
Ziehm Imaging	ziehm.com				■					■		
Zimmer	zimmer.com											
Zovam Europe	zovameurope.it			■		■			■	■		

Patient Care

		Hospital Beds/Furniture	Patient Examination Instruments	Wheelchairs	Medical Carts	Rehabilitation Equipment	Biomedical Testing Equipment
A&E Endoscopy	aeendoscopy.com	■			■		
AccunIQ	accunIQ.com		■				
ACEM	acem.it		■				
ACI Medical	acimedical.com		■			■	
Action Products	actionproducts.com					■	
Advanced Instrumentations	advanced-inst.com	■			■		
Advantech Europe	advantech.eu				■		
Aegir International Medical	aegirmedical.com	■					
AFC Industries	afcindustries.com				■		
Ambu	ambu.com		■				
Amico	amico.com	■			■		
Ampronix	ampronix.com				■		
Angel Med	angelmed.co.uk					■	
Apex Medical	apexmedicalcorp.com	■		■		■	
ArjoHuntleigh	arjo.com	■					
Armstrong Medical Industries	armstrongmedical.com				■		
Baum, W.A.	wabaum.com		■				
Belintra	belintra.com				■		
Benmor Medical	benmormedical.co.uk	■	■	■		■	
BenQ Medical Technology	benqmedicaltech.com	■					
Besmed	besmed.com		■				
Bieffe Italia	weiko.com				■		
Biodex Medical Systems	biodex.com					■	
Biolight Meditech	en.blm.com.cn		■				
Biomedica International	biomedicalintl.com			■		■	
Brandon Medical	brandon-medical.com		■				
Braun, B.	bbraun.com		■				
Bristol Maid	bristolmaid.com	■	■		■		
Bytec Medical	bytec.co.uk				■		
Capsa Healthcare	capsahealthcare.com	■			■		
Cardiopulmonary Instrumentation	cihealthcare.com				■		
Carilex Medical	carilexmedical.com	■					
CBM Medical Equipment	cbm-srl.com	■	■		■		
CIMA-Altitude	praticima.com	■			■	■	
Copenhagen MedLab	copenhagen-medlab.com		■				
Creative Medical	creative-sz.com		■				
Curbell Electronics	curbellelectronics.com	■	■				
Danmeter	danmeter.dk					■	
DeRoyal	deroyal.com					■	
Derungs Licht	derungslicht.com		■				
Detecto	detecto.com		■				
DJO International	djoglobal.eu					■	
DRG International	drg-international.com		■				
Drive Devilbiss Healthcare	devilbisshealthcare.com	■			■		
EBIME	ebime.com.mx				■		
Edan Instruments	edan.com		■				
ELMED Lithotripsy Systems	elmed-as.com					■	
Emergencia 2000	emergencia2000.es			■			
Endocor	endocor.com		■				
Enraf-Nonius	enraf-nonius.com					■	
Entermed	entermed.com	■					
ERKA Kallmeyer Medizintechnik	erka.org		■				
Essex Industries	essexindustries.com					■	
Eymasa	eymasa.com					■	
Ferno	fernointernational.com	■				■	
Finapres Medical Systems	finapres.com		■				
Fluke Biomedical	flukebiomedical.com						■
Future Medical	futuremedicalcorp.com					■	
General Meditech	szmedtech.com		■			■	
Gyrus Acmi	gyrusacmi.com				■		
Haelvoet	haelvoet.com	■	■		■	■	
HARD Manufacturing	hardmfg.com	■					
Harloff	harloff.com				■		
Hartmann	hartmann.info		■				
Heal Force	healforce.com		■				
Heartland Medical	heartlandmedical.com	■	■		■		
Heine Optotechnik	heine.com		■				
Herman Miller	hermanmiller.com/healthcare				■		
Highgrade Tech	highgrade.com.tw	■			■		
Hillrom	hillrom.com	■					
Hillusa	hillusa.com	■					
Hologic	hologic.com		■				
Hospital Aids	hospitalaids.co.uk	■					
Huntleigh Healthcare	huntleigh-healthcare.com	■					
i-Sens	i-sens.com		■				

Patient Care

		Hospital Beds / Furniture	Patient Examination Instruments	Wheelchairs	Medical Carts	Rehabilitation Equipment	Biomedical Testing Equipment
InBody	inbody.com		■				
Ingenieria Y Tecnicas Clinicas	itscal.com	■			■		
Invacare	invacare.com	■	■	■		■	
JADAK	jadatech.com		■		■		
JD Honigberg International	jdhintl.com	■			■		
Joerns Healthcare	joerns.co.uk	■					
KCI International	kci1.com	■					
Kern & Sohn	kern-sohn.com		■			■	
Klarity Medical Equipment	klaritymedical.com					■	
KORU Medical Systems	korumedical.com					■	■
KX Medical	kxmedical.com	■		■		■	
Linet	linet.com	■			■		
LMT Medical Systems	lmt-medicalsystems.com		■				
Maltron International	maltronint.com		■			■	
Medcaptain Medical Technology	medcaptain.com					■	
Medi-Tech International	meditechintl.com	■	■	■	■	■	
Medical Illumination International	medillum.com		■				
Medpej	medpej.ind.br	■	■		■		
Medstep	med-step.com	■	■	■	■		
Medvix	medvix.com		■		■		
Meike Electronic Equipment	bladder-scanner.com					■	
Merivaara	merivaara.com	■					
Mesa Medizintechnik	mesamed.de		■				
Mespa Healthcare Products	mespa.com.tr	■	■	■	■	■	
Metro International	metro.com	■	■		■		
Mettler Electronics	mettlerelectronics.com					■	
Midmark EMEA	midmarkmedicalemea.com	■	■		■		
Nessler Medizintechnik	nessler.com		■				
Netech	netechcorp.us						■
Nitrocare	nitrocare.com.tr	■	■		■		
Osteometer	osteometer.com		■				
Paraid Medical Systems	paraid.co.uk			■	■		
PCI Precision Charts	pcicharts.com		■				
Perlong Medical	perlong-china.com		■				
Phoenix Medical Systems	phoenixmedicalsystems.com		■				
PROACT Medical	proactmedical.co.uk		■				
Projesan Hospital Furniture	projesan.com.tr	■	■	■		■	
Promotal	promotal.com	■	■		■		
Quirumed	quirumed.com	■	■				
Reanimed	reanimed.com	■	■				
Restorative Care of America	rcai.com					■	
KORU Medical Systems	korumedical.com		■				
Rigel Medical	rigelmedical.com						■
Roesys	roesys.de		■				
Samarit Medical	samarit.com	■					
Savion Industries	savion.co.il			■			
Schiller	schiller.ch		■			■	
Schmitz	schmitz-soehne.de	■					
Schwa-Medico	schwa-medico.com		■				
Seca	seca.com		■				
Sedecal	sedecal.com		■				
SEERS Medical	seersmedical.com	■	■			■	
Sol-Med Enterprises	sol-med.net	■	■		■	■	
Spectrum Healthcare	spectrumhealthcare.co.uk	■					
STEELCO	steelcogroup.com						
Spencer	spencer.it	■					
Stryker Worldwide	stryker.com			■			
Sunflower Medical	sunflowermedical.co.uk	■					
SunMed	sun-med.com	■	■		■		
Sunnex	sunnexmedical.com		■				
Sunray Medical	sunray.cn	■	■				
SunTech Medical Instruments	suntechmed.com		■				
Talley Medical	talleygroup.com		■				
Tanita	tanita.com	■				■	
TIDI Products	tidiproducs.com		■				
TTS Tecno Trolley System	ttsystem.com		■				
Turkuaz Medikal	turkuazsaglik.com.tr				■		
Üzümcü	uzumcu.com.tr		■				
Waterloo	waterloohealthcare.com	■					
Wegg	wegg.it	■			■		
Weinmann	weinmann.de				■		
Welch Allyn	welchallyn.com					■	
Well.d Medical Electronics	welld.com.cn		■				
WEM Equipamentos Eletronicos/Covidien	wem.com.br				■		
Wuxi First Medical	first-med.com.cn	■	■				
XFT	xft-china.com	■					

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AADEE
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CardioComm Solutions
CPI
EMD Technologies
Imaging Dynamics
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O-Two Medical
Technologies

RamSoft
Response Biomedical

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Aeon Technology
Aeonmed
AllTech Medical Systems
AMBISEA Technology
Ambulanc
Anke High-Tech Co.
Antmed
Basda Medical
Beacon Display
Technology
Belson Medical System
Bestman
Biocare Bio-Medical

Equipment
Biolight Meditech
BMC Medical
Chenwei
Chison Medical Imaging
Choice Medical
CMICS Medical
Comen Medical
Contec Medical Systems
Cornley
Creative Medical
David Medical Device
Dirui Industrial
Ecoray
Edan Instruments
Emperor Electronic
Technology

Eternity Electronic
Technology
General Meditech
Haier Medical and
Laboratory Products
Haifu Technology
Haiying Enterprise Group
Heal Force
Huqiu Imaging
Hyde Medical Equipment
Innolcon
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Equipment
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Landwind Medical
Med-Link Electronics
Medcaptain Medical
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Meike Electronic
Equipment
Miconvey Technologies
Mindray Medical
International
Neusoft Medical Systems
Perlong Medical
Richen Science &
Technology
Rongrui-Century
Shunde Changxing
Ultrasonic
Sino-Hero Bio-Medical
Electronics
SIUI
SonoScape
Sunray Medical
Teknova Medical Systems
Unicare Electronic
Unimed Medical Supplies
United Imaging
Healthcare
Wandong Medical
Equipment
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Dameca
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Merivaara
Planmed

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Atys Medical
Capsule Technologie
DMS Imaging
ELITech Group
Guerbet
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Thales Electron Devices

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Accura Medizintechnik
Ackermann
Instrumente
Albatross Projects
Allgaier Instrumente
Asclepion Laser
Technologies
Atmos Medizintechnik
Baeramed Instrumente
Bayer HealthCare
Bowa
Braun, B.
Caesarea Medical
Electronics
Carilex Medical
CHILI
Codan Medical
Direx
Dornier MedTech
Dr. Mach
Dräger Medical
Drive Devilbiss
Healthcare
DWL
Eizo
EKU Elektronik
Endocor
Erbe Elektromedizin
ERKA Kallmeyer
Medizintechnik
Fiebert-Endotech
Medizintechnik



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Kern & Sohn
KLS Martin Group
LMT Medical Systems
MAVIG
Maxer Medizintechnik
Medicon
Medlab
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MIPM
Möller-Wedel
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OPTEC Endoscopy
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Pajunk
Pentax
Primedica
PTW Freiburg
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Riester, Rudolf
Roesys
Rudolf Medizintechnik
Schmitz u. Söhne
Schwa-Medico
Seca
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Stephan
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Zeiss (Carl) MicroImaging
Ziehm

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Micrel Medical

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Celatron Medical Technologies
Inomed Medical
Medicor Elektronika

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Jai Surgical
Medion Healthcare
Phoenix Medical Systems
Ribbel International

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Cosmed
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Italray
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Tecno-Gaz
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TTS Tecno Trolley System
Villa Sistemi Medicali
Wegg
Zovam Europe

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Canon Medical Systems
Feather Safety Razor
Fujifilm
Fukuda Denshi
Hitachi Healthcare
Honda Electronics
Ikegami
Nihon Kohden
Nisco
Shimadzu Medical Systems
Top Corporation

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Accunig
AMPall
ATLAIM
Bionet
Biotron
Charmcare
CU Medical Systems
GMMC
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LowTem
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Renosem
Samsung
SG Healthcare
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Soyee Products
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Cymo
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131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200
201	202	203	204	205	206	207	208	209	210
211	212	213	214	215	216	217	218	219	220
221	222	223	224	225	226	227	228	229	230
231	232	233	234	235	236	237	238	239	240
241	242	243	244	245	246	247	248	249	250
251	252	253	254	255	256	257	258	259	260
261	262	263	264	265	266	267	268	269	270
271	272	273	274	275	276	277	278	279	280
281	282	283	284	285	286	287	288	289	290
291	292	293	294	295	296	297	298	299	300

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Advertising Index

Vol. 38 No. 3
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Inq.No.	Advertiser	Page
148	Ampronix	48
—	AOCR 2021	12
111	BioFire	11
117	CIRS	17
—	CIRSE 2020	15
108	Clear Image Devices	8
—	EFSUMB	44
—	EURONERO 2021	45
—	Expomed Eurasia	18
121	Feather	21
113	Greiner Bio-One	13
—	HospiMedica.com	4
106	Innolcon Medical Technology	6
—	International Surgical Week	17
102	Mayo Clinic Laboratories	2
103	Medical Fair Asia	18
105	Parker	5
103	Perry Health	3
122	Radcal	23
109	Sun Nuclear	9
—	TradeMed	7
139	Vicolab	39

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