

Update

What's New in Medicine

ACE (American Council on Exercise).

ACTOpus met (pioglitazone HCl and metformin)—drug for the treatment of type 2 diabetes.

Acuvue Advance—soft contact lenses for the treatment of astigmatism.

Advance knee system—components used in knee replacement surgery. Several models are available including medial pivot cruciate-sacrificing, double-high cruciate-preserving, and posterior stabilized knees. A feature of the system is that it makes use of a proprietary single reference point (SRP) technique in fitting and alignment.

Advia Centaur HAV IgM—a diagnostic immunoassay for IgM antibodies to the hepatitis A virus.

Advia Centaur HBc Total—a diagnostic immunoassay for IgG and IgM antibodies to hepatitis B virus core antigens.

Aldecount progenitor cell enumeration kit—an in vitro test that enumerates for diagnostic purposes functional aldehyde dehydrogenase bright, side scatter low cells, which have been shown to possess properties of hematopoietic stem cells. The enumeration process is based on an enzymatic reaction that is limited to metabolically active cells, eliminating the need for a viability marker. It is intended for use with fresh or frozen clinical samples from normal donors, donors mobilized with granulocyte-colony stimulating factor or some other mobilizing agent, or patients that have been mobilized or treated with chemotherapeutic agents.

altruistic donor—a person who donates an organ to a stranger.

AmpliChip Cytochrome P450 genotyping test—the first microarray DNA test to determine individual patient variations in the gene for the cytochrome P450 2D6 enzyme. The enzyme plays a key role in the

metabolism of commonly prescribed drugs, including antidepressants, antipsychotics, beta-blockers, and some chemotherapy drugs. The test is intended for use in conjunction with clinical evaluation and other diagnostic tools to assist physicians in selecting optimal drugs and dosing regimens for each patient while avoiding common drug interactions.

andrologist—a doctor who specializes in men's health, especially the health of the male reproductive system.

andropause—coined term meaning the period in a man's life during which the production of testosterone begins to decline. (Cf. *menopause*.)

AnemiaPro—a self-administered anemia screening test for patients at significant risk for anemia from chronic kidney disease and HIV infection. The device provides a numeric reading of the patient's hemoglobin level, which is derived from a single drop of blood within 20 minutes. The reading is similar in accuracy to one obtained in a complete blood count.

Ant-Cer—a dynamic cervical plate in the SC-AcuFix system.

ape diet—a vegetarian diet that emphasizes soy protein, soluble fiber, nuts, and leafy green vegetables.

area under the curve (AUC)—a method of reducing the data plotted in a graph to a single figure by determining the area of the space bounded by the curve or slope and the horizontal or x axis. If the graph shows the concentration of a drug in the blood at various intervals after its administration, the area under the curve theoretically represents the average or overall rate of absorption. This area is calculated by whatever mathematical method works best. With a straight line it may simply be a matter of applying the formula for the area of a trian-

gle. More complex figures may require the use of calculus. Chemotherapy dosing regimens use this method to minimize toxicity.

Aurora hair removal system—a proprietary electro-optical synergy platform, along with the derivative systems Galaxy and Pitanga, that combines electrical energy (bipolar radiofrequency) with optical energy to remove unwanted hair from skin types I to VI and for hair reduction.

Baraclude (entecavir) tablets and oral solution—drug for the treatment of chronic hepatitis B in adults.

BioBlanket surgical mesh—a soft tissue repair patch. The expanded indications specifically allow the product to be used for the repair of hernias and reinforcement of soft tissue in rotator cuff repair surgery. It also allows the product to be used in a wide variety of other surgical procedures, including repair of defects in the thoracic wall and rectal and pelvic floor reconstruction procedures, among others.

bitter blocker—a biochemical compound that reduces a patient's ability to taste.

Cancion cardiac recovery system (CRS) procedure—percutaneous catheter-based therapy for congestive heart failure, based on continuous aortic blood flow augmentation to the descending aorta. It creates an environment that allows the heart to rest while it recovers from an acute decompensation event. This procedure has been used at 40 research centers nationwide, and FDA approval is anticipated soon.

Champion drug-eluting stent—a stent coated with the immunosuppressant drug everolimus.

"crazy-paving" pattern—a common finding at thin-section computed tomography of the lungs. It consists

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of scattered or diffuse ground-glass attenuation with superimposed interlobular septal thickening and intralobular lines.

cross-trigonal tunnel—the radiologic appearance of a transversely lying distal ureter after nephroureterectomy and cross-trigonal reimplantation.

CRS (cardiac recovery system)—see *Cancion cardiac recovery system*.

David-Chausse classification—a means of grading inflammatory response in bone (such as that from tuberculosis); grades I-IV are used.

dedifferentiated—having undergone anaplastic change. Do not confuse with *undifferentiated* and *nondifferentiated*.

DuraSeal sealant system—a blue-colored synthetic absorbable hydrogel for use as a surgical sealant during elective pulmonary resection. When sprayed on the pleura of the lung, it forms a strong adherent hydrogel that effectively seals the suture or staple line within seconds and provides an airtight seal, preventing postoperative complications associated with alveolar air leaks.

Ellipse 12PL pulsed light system—a hand-held device used to administer pulses of visible light into the epidermis to reduce pigment and vascular disturbances in sun-damaged skin and improve its texture. The light is absorbed by melanin and converted into heat that destroys the cell areas in which it is stored (selective photothermolysis). Pulse length and energy are controlled to avoid damage to surrounding tissue. The system has been approved in other countries for hair removal and for the treatment of vascular lesions, pigmented lesions, and acne.

Emboshield filter—designed to capture emboli that can break off during a carotid stenting procedure. It is used in combination with the Xact stent. See *Xact carotid artery stent*.

Flextome Cutting Balloon dilatation device—used for the treatment of coronary artery blockages often resistant to conventional balloon angioplasty. It consists of a new balloon with three to four microsurgical blades (atherotomes) mounted lengthwise on its outer surface. When the device is inflated, the atherotomes score the plaque by severing the elastic and fibrotic continuity of the vessel with tiny incisions. The process allows expansion of the target lesion with less pressure on the vessel wall and may result in less trauma than with standard balloon angioplasty.

Fluarix—trivalent inactivated split influenza vaccine to prevent influenza types A and B in adults.

Freestyle Connect blood glucose monitoring device.

Freezor MAX—surgical cardiac cryoablation catheter.

Galaxy hair removal system—see *Aurora hair removal system*.

GE Discovery LS CT/PET scanner.

Genesis and Genesis XP (Advanced Neuromodulation Systems)—non-rechargeable implantable pulse generator neurostimulation systems to aid in the management of chronic intractable pain of the trunk and/or limbs.

Genesis RC and Genesis RC Dual—rechargeable implantable pulse generator neurostimulation systems to aid in the management of chronic intractable pain of the trunk and/or limbs, including unilateral or bilateral pain associated with failed back surgery syndrome, intractable low back pain, and leg pain.

golden hour—the hour immediately after a serious injury, when caring for the injury is critical to the victim's survival.

heliotrope—a variable color averaging a moderate purple that is bluer, lighter, and stronger than cobalt violet, manganese violet, or average

amethyst, bluer and deeper than average lilac, and redder, stronger, and slightly lighter than mignon.

heliotrope rash—a periorbital, confluent, violaceous erythema with or without associated eyelid edema.

Hemoccult ICT—an immunoassay fecal occult blood test used for detecting fecal occult blood as an aid in colorectal cancer screening. It reportedly offers higher clinical sensitivity than traditional guaiac-based tests, without compromising specificity for lower GI tract bleeding. The test requires no drug or dietary restrictions.

HydroCoil Embolic System (HES)—for use in the embolization of intracranial aneurysms, and currently being studied for use in other parts of the body.

iFOBT (immunoassay fecal occult blood test).

InCompass screw—a thoracolumbar spinal fixation system designed to provide superior fixation with the benefits of reduced implant volume, lower profile and easier construct assembly.

Increlex (mecasermin injection)—drug for the treatment of short stature in children.

InhibiZone—a rifampin and minocycline hydrochloride coating for the AMS 700 CX and AMS 700 CMX penile prostheses.

InteDerm allograft dermal matrix.

IntePro polypropylene mesh—a mesh used in the repair of hernias and pelvic floor defects in women.

InteXen porcine dermal matrix.

irritable male syndrome (IMS)—anger and irritability in men caused by a sudden drop in testosterone levels, particularly when brought on by stress.

Janus twins—characterized by the presence of two opposite faces which are composite structures, half of which belong to one twin and half to the other.

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LGV (lymphogranuloma venereum). **limited retinal translocation**—a surgical procedure for the treatment of wet age-related macular degeneration. In the procedure, the eye wall is shortened and the macula is moved away from the abnormal blood vessel under it. Then laser surgery can be performed to destroy the abnormal blood vessels without harming the macula.

liposculpture—cosmetic surgery that attempts to shape the body by removing fat cells in areas where there is excess fat and, optionally, by adding fat cells to areas where padding is required.

Maroteaux-Lamy syndrome—see *MPS VI*.

marijuana patch—a medical patch worn on the skin and designed to release chemicals from marijuana that alleviate side effects caused by chemotherapy. Also known as a *pot patch* or a *doobie derm*.

milk of calcium sign—(1) On mammography, the content of microcysts and microcystic adenosis is often referred to as “milk of calcium.” (2) The radiologic appearance of layering of calcific densities within a cyst in an organ such as the kidney or gallbladder.

Mityvac vacuum extractor cups—vacuum extractors used in vacuum-assisted deliveries. Models include “M” Select Mushroom, “M” Style Mushroom, MitySoft bell vacuum extractor cups.

MPS VI—abbreviation for mucopolysaccharidosis VI (Roman numeral 6), a debilitating, life-threatening genetic disease caused by a deficiency of the enzyme N-acetylgalactosamine 4-sulfatase. This gives rise to progressive cellular, tissue, and organ system dysfunction. The majority of individuals with MPS VI die from disease-related complications between childhood and early adulthood. Also called *Maroteaux-Lamy syndrome*.

Naglazyme (galsulfase)—orphan drug for the treatment of mucopolysaccharidosis VI (Maroteaux-Lamy syndrome, also known as MPS VI). See *MPS VI*.

open-ring sign—in magnetic resonance imaging, the appearance of an “open-ring sign” in the brain is indicative of a demyelinating brain disease, such as multiple sclerosis, as opposed to a tumor or neoplasm.

panitumumab—monoclonal antibody chemotherapy drug for the treatment of metastatic colorectal cancer. It works by inhibiting the epidermal growth factor receptor (EGFr) and is given in conjunction with other chemotherapy drugs.

PBC (primary biliary cirrhosis).

phage therapy—medical therapy that uses bacteriophage viruses to kill the bacteria that are causing an illness or infection.

Picolax (sodium picosulphate and magnesium citrate)—a bowel prep used in England prior to endoscopic procedures of the colon.

PillCam ESO video camera—a capsule equipped with miniature cameras on both ends, about the size of a multivitamin which can be swallowed easily, used in video esophagoscopy. The patient swallows the capsule lying down, and is then raised in a series of inclinations over a total of 5 minutes. The PillCam ESO travels through the esophagus by normal peristaltic waves, flashing 14 times per second, each time capturing images of the inner lining of the esophagus.

Pitanga hair removal system—see *Aurora hair removal system*.

prehypertension—a slightly elevated blood pressure level that, without treatment, could lead to hypertension.

Procedur-10 and Procedur-SF—syringes that allow healthcare providers to inject and aspirate fluids or tissues with one hand, reduc-

ing procedure time and patient pain. According to the manufacturer, the syringes have been used successfully in several applications, including arthrocentesis, local anesthesia, and joint injections. Use of the device is anticipated in interventional radiology, gynecology, prenatal diagnosis, anesthesiology, and surgical procedures. Note the spelling.

ProGuide chronic dialysis catheter—a catheter for use in the needleless connection of patients with end-stage renal disease to the dialysis machine. The over-the-wire catheter does not require a sheath, thereby facilitating its placement and potentially lowering the risk of air embolism.

retrogenesis—the loss of mental abilities in old age in the opposite order in which they are gained in childhood, especially as exhibited by Alzheimer patients.

SC-AcuFix anterior cervical plate system.

Scheuer staging—used to determine the degree of inflammatory response of liver biopsy tissue in chronic hepatitis, cirrhosis, and liver tumors.

selective photothermolysis—see *Erlipse 12PL pulsed light system*.

shawl sign—presents as intensely pruritic, symmetrical, confluent, violaceous erythematous macules which are photodistributed on the forehead, scalp, cheeks, neck, and upper chest. Sparing may occur in photoprotected areas.

sinistral portal hypertension—a rare and localized form of portal hypertension, the result of splenic vein thrombosis or obstruction.

sleep inertia—the grogginess and disorientation that a person feels for a few minutes after a sleep or long nap.

Sonablate 500—high-intensity focused ultrasound for treatment of prostate cancer.

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spur sign—in radiology, indicative of fracture in both the anterior and posterior acetabular columns (both-column fracture).

Stendhal syndrome—used to describe dizziness, panic, or paranoia caused by viewing certain artistic or historical artifacts or by trying to see too many such artifacts in too short a time. Named for the 19th-century French novelist, who is said to have been the first to write about the dizzying disorientation some tourists experience.

Stratis ST ACL reconstruction system—a device that allows arthroscopic reconstruction of a torn anterior cruciate ligament (ACL), with a reduced number of required steps in a procedure that eliminates complicated, time-consuming measurements.

stroke belt—an area in the southeastern U.S., particularly the states of South Carolina, Arkansas, Tennessee, North Carolina, and Georgia, that has an unusually high rate of strokes and other forms of heart disease.

subanular ventilation tube (SVT)—an alternative treatment for eustachian tube dysfunction in which the tube is inserted into a drilled groove under the posteroinferior part of the osseous anulus extending from the middle ear cavity to 5-8 mm into the bony ear canal.

Sykes Endobrowlift instrument set—endoscopic brow and forehead lift instrumentation.

tailgut cyst—a subcutaneous tumor at the coccygeal area, believed to be a vestigial remnant of the tailgut.

TheriLok bone void filler—a synthetic substance that creates a precise, controlled three-dimensional product conducive to new bone ingrowth. It comes in a variety of forms, including granules (TheriFil EXT), cylinders (TheriMatrix), struts (TheriLink), wedges (Theri-Wedge), wafers and small and

large cross forms (TheriLok I and II). The manufacturer is Therics, and the product may be referred to as *Therics bone void filler*.

thread and streak sign—in radiology, it represents blood spaces and vessels (both veins and arteries) located in and around a tumor cast that is growing in a large branch and trunk of the portal vein.

thriver—an HIV-positive person who remains healthy.

TLC 55 stapling device.

t-ray—terahertz ray; electromagnetic radiation produced at terahertz (trillion cycles per second) frequencies that, like an x-ray, can penetrate solids, but that also enables the identification of certain molecules and substances.

type T personality—a personality type that regularly seeks out thrilling or dangerous experiences.

umbilicoplasty—plastic surgery performed on the navel, usually for cosmetic reasons.

uncanny valley—feelings of unease, fear, or revulsion created by a robotic device that appears to be, but is not quite, humanlike.

vanishing bile duct syndrome (VBDS)—term used to describe progressive loss of small intrahepatic ducts in a variety of diseases.

video pill—a camera approximately the size of a vitamin pill that, when ingested, transmits images from a person's stomach and intestinal tract.

Vitrase (ovine hyaluronidase)—for the management of vitreous hemorrhage, a serious condition affecting the back of the eye, for which there is currently no drug treatment.

voice lift—cosmetic vocal cord surgery designed to make a person's voice sound younger.

Vysis AutoVysion—automated scanning system for use with Abbott's fluorescence *in situ* hybridization (FISH) test (Vysis PathVysion

HER-2 DNA Probe Kit) to assess HER-2 overexpression in breast cancer biopsy tissue. The PathVysion test is indicated for use as an adjunct to existing clinical and pathologic information currently used as prognostic factors in stage 2, node-positive breast cancer patients; and as an aid in predicting disease-free and overall survival with adjuvant cyclophosphamide, doxorubicin, and 5-fluorouracil chemotherapy in these patients. It is also indicated as an aid in assessing the eligibility of patients with metastatic breast cancer for treatment with trastuzumab (Herceptin, made by Genentech, Inc.), which is indicated for the treatment of HER-2-positive tumors.

Vysis PathVysion HER-2 DNA probe kit—see *Vysis AutoVysion*.

white-coat effect—the elevation of a patient's blood pressure readings caused by being in a doctor's office or clinic, or by being in the presence of a physician.

windmill artifacts—spiral artifacts presenting as hyperdense and hypodense structures around osseous edges on CT scanning.

Xact carotid artery stent—for use in patients who prefer a minimally invasive procedure or who are not good candidates for carotid endarterectomy. The stent is self-expanding and is intended to help restore the inner diameter of a carotid artery, promote a smooth inner vessel surface, and potentially reduce the release of fatty debris from a diseased vessel when it is treated, which can lead to stroke. It is designed for use in combination with the fully retractable Emboshield filter. See *Emboshield*.

z-flying focal spot (zFFS)—a periodic motion of the focal spot in a longitudinal direction on multidetector-row computed tomography.