

Vascular Access Catheter

Materials And Evolution

Cerebral angiography for use in the procedure. Typically a catheter is inserted into a large artery (such as the femoral artery) and threaded through the circulatory system Cerebral angiography is a form of angiography which provides images of blood vessels in and around the brain, thereby allowing detection of abnormalities such as arteriovenous malformations and aneurysms 08a83e896b

Bacteria of this genus lack flagella but exhibit twitching or swarming motility, likely mediated by type IV pili... 08a83e896b It was pioneered in 1927 by the Portuguese neurologist Egas Moniz at the University of Lisbon, who also helped develop thorotrast for use in the procedure. 08a83e896b For some applications, cerebral angiography may yield better images than less invasive methods such... 08a83e896b The network of blood vessels are the great vessels of the heart including large elastic arteries, and large veins; other arteries, smaller arterioles, capillaries that join with venules (small veins), and other veins. The circulatory system is closed... 08a83e896b

Radiation therapy Radiation therapy is synergistic with chemotherapy, and has been used before, during, and after chemotherapy in susceptible cancers. The subspecialty of oncology concerned with radiotherapy is called radiation oncology. "Quantification and reduction of reflux during embolotherapy using an antireflux catheter and tantalum microspheres: ex vivo analysis". Radiation therapy may be curative in a number of types of cancer if they are localized to one area of the body, and have not spread to other parts. A physician. It is normally delivered by a linear particle accelerator. It may also be used as part of adjuvant therapy, to prevent tumor recurrence after surgery to remove a primary malignant tumor (for example, early stages of breast cancer). Journal of Vascular and Interventional Radiation therapy or

radiotherapy (RT, RTx, or XRT) is a treatment using ionizing radiation, generally provided as part of cancer therapy to either kill or control the growth of malignant cells 08a83e896b

Bronchial artery embolization It is a kind of catheter intervention to control hemoptysis (airway bleeding) by embolizing the bronchial artery, which is a bleeding source. It is a kind of catheter intervention to control hemoptysis (airway bleeding) by embolizing the Bronchial artery embolization is a treatment for hemoptysis, abbreviated as BAE. Embolic agents are particulate embolic material such as gelatin sponge or polyvinyl alcohol (PVA), and liquid embolic material such as NBCA, or metallic coils. embolization is a treatment for hemoptysis, abbreviated as BAE 08a83e896b

Brachytherapy The word "brachytherapy" comes from the Greek word βραχύς, brachys, meaning "short-distance" or "short". connected to an afterloader, which delivers the radiation dose through the catheter and into the balloon. Currently, intracavitary breast brachytherapy is only Brachytherapy is a form of radiation therapy where a sealed radiation source is placed inside or next to the area requiring treatment. Treatment results have demonstrated that the cancer-cure rates of brachytherapy are either comparable to surgery and external beam radiotherapy (EBRT) or are improved when used in combination with these techniques. Brachytherapy can be used alone or in combination with other therapies such as surgery, EBRT and chemotherapy. Brachytherapy is commonly used as an effective treatment for cervical, prostate, breast, esophageal and skin cancer and can also be used to treat tumours in many other body sites 08a83e896b

Brachytherapy contrasts with unsealed source radiotherapy... 08a83e896b Signs and symptoms of stroke may include an inability to move or feel on one side of the body, problems understanding or speaking, dizziness, or loss of vision to one side. Signs and symptoms often appear soon after the stroke has occurred. If symptoms last less than 24 hours, the stroke is a transient ischemic attack (TIA), also called a mini-stroke. Hemorrhagic stroke may also be associated with a severe

headache. The symptoms of stroke can be permanent. Long-term complications may include pneumonia and loss of bladder control. 08a83e896b

Battlefield medicine unconsciousness or altered mental status, and/or abnormal radial pulse. Battlefield medicine is a category of military medicine. IV should be applied using an 18 gauge catheter and saline lock in tactical field care Battlefield medicine, also known as field surgery and later combat casualty care, is the treatment of wounded combatants and non-combatants in or near an area of combat. With the advent of advanced procedures and medical technology, even polytrauma can be survivable in modern wars. Civilian medicine has been greatly advanced by procedures that were first developed to treat the wounds inflicted during combat 08a83e896b

Circulatory system It includes the cardiovascular system, or vascular system, that consists of the heart and blood vessels (from Greek kardia meaning heart, and Latin vascula meaning vessels). vessels, and blood which is circulated throughout the body. The circulatory system has two divisions, a systemic circulation or circuit, and a pulmonary circulation or circuit. It includes the cardiovascular system, or vascular system, that consists of the heart and blood In vertebrates, the circulatory system is a system of organs that includes the heart, blood vessels, and blood which is circulated throughout the body. Some sources use the terms cardiovascular system and vascular system interchangeably with circulatory system 08a83e896b

The... 08a83e896b Typically a catheter is inserted into a large artery (such as the femoral artery) and threaded through the circulatory system to the carotid artery, where a contrast agent is injected. A series of radiographs are taken as the contrast agent spreads through the brain's arterial system, then a second series as it reaches the venous system. 08a83e896b

Stroke Both cause parts of the brain to stop functioning properly. requires access to the bloodstream with an intravascular catheter and can cause further stroke as well as complications at the insertion site and this investigation Stroke

is a medical condition in which poor blood flow to a part of the brain causes cell death. There are two main types of stroke: ischemic, due to lack of blood flow, and hemorrhagic, due to bleeding 08a83e896b

Drug-eluting stent The stent expands, embedding into the occluded artery wall, keeping the artery open, thereby improving blood flow. A DES is inserted into a narrowed artery using a delivery catheter usually inserted through a larger artery in the groin or wrist. The mesh design allows for stent. The stent assembly has the DES mechanism attached towards the front of the stent, and usually is composed of the collapsed stent over a collapsed polymeric balloon mechanism, the balloon mechanism is inflated and used to expand the meshed stent once in position. The access site is the place where the catheter enters A drug-eluting stent (DES) is a tube made of a mesh-like material used to treat narrowed arteries in medical procedures both mechanically (by providing a supporting scaffold inside the artery) and pharmacologically (by slowly releasing a pharmaceutical compound). the access site after the procedure, are also medical devices and have their own informational cards 08a83e896b

Acinetobacter baumannii While other species of the genus *Acinetobacter* are often found in soil samples (leading to the common misconception that *A. baumannii* can be spread through direct contact with surfaces, objects, and the skin of contaminated persons *Acinetobacter baumannii* is a typically short, almost round, rod-shaped (coccobacillus) Gram-negative bacterium. invasive devices like urinary catheters *A. baumannii* is a soil organism, too), it is almost exclusively isolated from hospital environments. Although occasionally it has been found in environmental soil and water samples, its natural habitat is still not known. It can be an opportunistic pathogen in humans, affecting people with compromised immune systems, and is becoming increasingly important as a hospital-derived (nosocomial) infection. It is named after the bacteriologist Paul Baumann 08a83e896b

Vascular surgery medical therapy, minimally-invasive catheter procedures and surgical reconstruction. Vascular surgeons also

are called to assist other physicians. The specialty evolved from general and cardiovascular surgery where it refined the management of just the vessels, no longer treating the heart or other organs. Modern vascular surgery includes open surgery techniques, endovascular (minimally invasive) techniques and medical management of vascular diseases - unlike the parent specialities. The specialty evolved from general and cardiovascular surgery where it Vascular surgery is a surgical subspecialty in which vascular diseases involving the arteries, veins, or lymphatic vessels, are managed by medical therapy, minimally-invasive catheter procedures and surgical reconstruction. The vascular surgeon is trained in the diagnosis and management of diseases affecting all parts of the vascular system excluding the coronaries and intracranial vasculature

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