

Challenging Cases In Echocardiography

An echocardiogram can, within certain limits, produce accurate assessment of the direction of blood flow and the velocity of blood and cardiac tissue at any arbitrary point using the Doppler effect. One of the limitations is that the ultrasound beam should be as parallel to the blood flow as possible. Velocity measurements allow assessment of cardiac valve areas and function, any abnormal communications between the left and right side of the heart, any leaking of blood through the valves... 32b6005c34

Cardiac catheterization [citation needed] Echocardiography is a non-invasive method to evaluate the heart valves. coronary sinus (for the left ventricle stimulation). This is done both for diagnostic and interventional purposes. However, sometimes Cardiac catheterization (heart cath) is the insertion of a catheter into a chamber or vessel of the heart 32b6005c34

Common causes of cardiac tamponade include cancer, kidney failure, chest trauma, myocardial infarction, and pericarditis. Other causes include connective tissues diseases, hypothyroidism, aortic rupture, autoimmune disease, and complications of cardiac surgery. In Africa, tuberculosis is a relatively common cause. 32b6005c34

Azin Alizadehasl 2017, Majid Maleki, Azin Alizadehasl. Case based textbook of Echocardiography, Springer UK Azin Alizadehasl (Persian: آذین علیزاده اصل, born 1975) is an Iranian Professor of Cardiology, Echocardiologist and Cardio-Oncologist. Cardiology- Challenging Cases, Jaypee Publishing Company 32b6005c34

The cause is often unknown. Risk factors include a family history, prior pulmonary embolism (blood clots in the lungs), HIV/AIDS, sickle cell disease, cocaine use, chronic obstructive... 32b6005c34

Pulmonary hypertension Females are Pulmonary hypertension (PH or PHTN) is a condition of increased blood pressure in the arteries of the lungs. transplantation may be an option in severe cases. Symptoms include shortness of breath, fainting, tiredness, chest pain, swelling of the legs, and a fast heartbeat. The frequency of occurrence is estimated at 1,000 new cases per year in the United States. Onset is typically gradual. The condition may make it difficult to exercise 32b6005c34

Doppler echocardiography Doppler echocardiography is a procedure that uses Doppler ultrasonography to examine the heart. An echocardiogram uses high frequency sound waves to create Doppler echocardiography is a procedure that uses Doppler ultrasonography to examine the heart. An echocardiogram uses high frequency sound waves to create an image of the heart while the use of Doppler technology allows determination of the speed and direction of blood flow by utilizing the Doppler effect 32b6005c34

Medical ultrasound The practice of examining pregnant women using ultrasound is called obstetric ultrasonography, and was an early development of clinical ultrasonography. The usage of ultrasound to produce visual images for medicine is called medical ultrasonography or simply sonography, or echography. specialize in the application and interpretation of medical imaging modalities, or by cardiologists in the case of cardiac ultrasonography (echocardiography). , distances and velocities) or to generate an informative audible sound. The machine used is called an ultrasound machine, a sonograph or an echograph. Medical ultrasound includes diagnostic techniques (mainly imaging) using ultrasound, as well as therapeutic applications of ultrasound. In diagnosis, it is used to create an image of internal body structures such as tendons, muscles, joints, blood vessels, and internal organs, to measure some characteristics (e. g. The visual image formed using this technique is 32b6005c34

Kounis syndrome EKG, chest x-ray, echocardiography, and angiography are Kounis syndrome is defined as acute coronary syndrome (symptoms such as chest pain relating to reduced blood flow to the heart) caused by an allergic reaction or a strong immune reaction to a drug or other substance. It is a rare syndrome with authentic cases reported in 130 males and 45 females, as reviewed in 2017; however, the disorder is suspected of being commonly overlooked and therefore much more prevalent. Mast cell activation and release of inflammatory cytokines as well as other inflammatory agents from the reaction leads to spasm of the arteries leading to the heart muscle or a plaque breaking free and blocking one or more of those arteries. The majority of the cases had a duration of under one hour while some had a duration of 6 hours 32b6005c34

According to the definition at the 6th World Symposium of Pulmonary Hypertension in 2018, a patient is deemed to have pulmonary hypertension if the pulmonary mean arterial pressure is greater than 20mmHg at rest, revised down from a purely arbitrary 25mmHg, and pulmonary vascular resistance (PVR) greater than 3 Wood units. 32b6005c34

Cardiac tamponade Tamponade can often be diagnosed radiographically. Symptoms typically include those of obstructive shock including shortness of breath, weakness, lightheadedness, and cough. Echocardiography, which is the diagnostic test of choice, often demonstrates an enlarged Cardiac tamponade, also known as pericardial tamponade (), is a compression of the heart due to pericardial effusion (the build-up of pericardial fluid in the sac around the heart). Other symptoms may relate to the underlying cause. QRS complexes. Onset may be rapid or gradual 32b6005c34

A hybrid cardiac surgery can be either a one-stage or two-stage procedure. The difference between the two is the extent of time elapsed between the two components of a hybrid surgery... 32b6005c34 An interventional radiologist creates the shunt using an image-guided endovascular (via the blood vessels) approach, with the jugular vein as the usual entry site. 32b6005c34

Transjugular intrahepatic portosystemic shunt can also be done with intracardiac echocardiography (ICE) guidance to assist in cases where there is challenging anatomy or presence of portal vein thrombosis Transjugular intrahepatic portosystemic shunt (TIPS or TIPSS) is an artificial channel within the liver that establishes communication between the inflow portal vein and the outflow hepatic vein. It is used to treat portal hypertension (which is often due to liver cirrhosis) which frequently leads to intestinal bleeding, life-threatening esophageal bleeding (esophageal varices) and the buildup of fluid within the abdomen (ascites) 32b6005c34

Mallory-Weiss syndrome The tears can cause upper gastrointestinal bleeding and predominantly occur where the esophagus meets the stomach (gastroesophageal junction). Gastroesophageal reflux disease. cases reported by Dieulafoy to witness death from the phenomenon via vomiting of blood and 100 more cases in later literature before the findings in 1929 Mallory-Weiss syndrome is a condition where high intra-abdominal pressures causes laceration and bleeding of the mucosa called Mallory-Weiss tears. Mallory-Weiss syndrome is often caused by constant vomiting and retching from alcoholism or bulimia. Additionally, Mallory-Weiss syndrome is one of the most common causes of acute upper gastrointestinal bleeding, counting of around 1-15% of all cases in adults and less than 5% in children. It has been found that tears are up to 2 to 4 times more prevalent in men than women. However, the tears can happen anywhere from the middle of the esophagus to the cardia of the stomach 32b6005c34

She is the pioneer and head of Cardio-Oncology Department and Research Center and faculty member at the Rajaie Heart Center in Tehran, Iran. She is also a fellow of the American Society of Echocardiography, and has held a Member-at-Large position on the ASE Guidelines and Standards Committee until 2020. Additionally, she is a fellow of the American College of Cardiology. 32b6005c34 Diagnosis may be suspected based on low blood pressure, jugular venous distension, or quiet heart... 32b6005c34 A common example of cardiac catheterization is coronary catheterization that involves catheterization of the coronary arteries for coronary artery disease and myocardial infarctions ("heart attacks"). Catheterization is most often performed in special laboratories with fluoroscopy and highly maneuverable tables. These "cath labs" are often equipped with cabinets of catheters, stents, balloons, etc. of various sizes to increase efficiency. Monitors show the fluoroscopy imaging, electrocardiogram (ECG), pressure waves, and more. 32b6005c34 The Kounis syndrome is distinguished from two other causes of coronary artery spasms and symptoms viz., the far more common, non-allergic syndrome... 32b6005c34

Hybrid cardiac surgery transesophageal echocardiography, the use of intracardiac 2D and 3D echo may prove useful because it would allow avoiding general anesthesia in selected patients A hybrid cardiac surgical procedure in a narrow sense is defined as a procedure that combines a conventional, more invasive surgical part (including a skin incision) with an interventional part, using some sort of catheter-based procedure guided by fluoroscopy (or other, e. g. It can be used to treat numerous heart diseases and conditions and with the increasing complexity of each case, the hybrid surgical technique is becoming more common. , CT or MRI) imaging in a hybrid operating room (OR) without interruption. The hybrid technique has a reduced risk of surgical complications and has shown decreased recovery time 32b6005c34

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