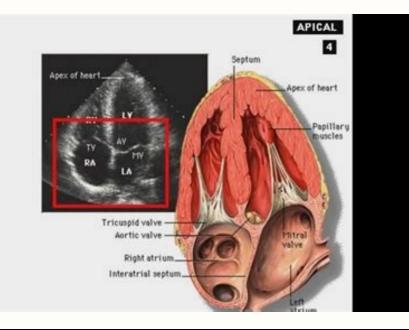


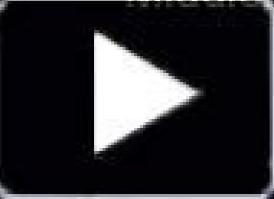


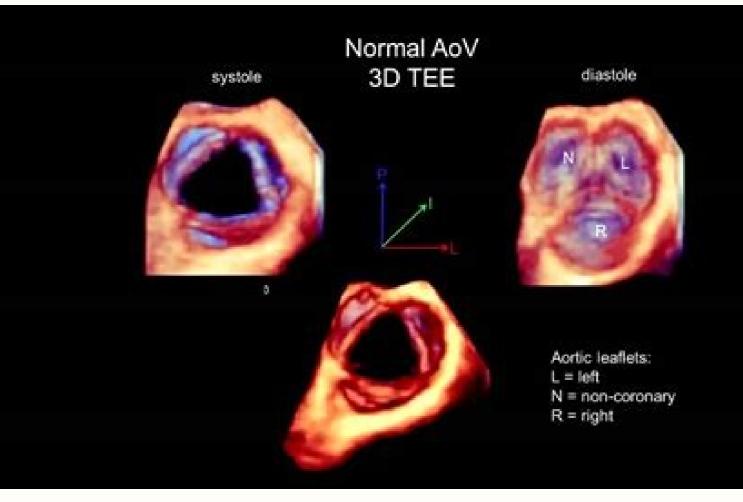
Echocardiography ppt free



Basic Echocardiography

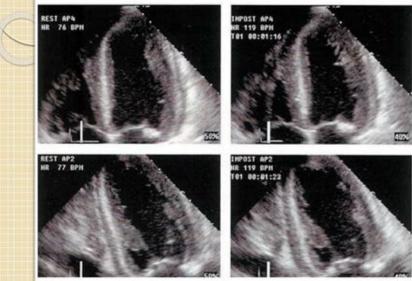
Selwyn Wong Middlemore Hospital







Stress echo-Standard-format



Echocardiography ppt free download.

1. Heart diseases for, Dr. Shamakamani Narendran MD (PEAD), Ph.D. (Yoga Science) 2. Interior view of the heart 3. Chamters: the heart is divided by a two-half septum. Metas are in turn divided into rooms. The two superior rooms of the heart 3. direction between the rooms of the heart. 4. Inner structure of the heart of a muscle that pumps blood, arteries that provide blood to the heart are collectively known as cardiac diseases. Li> The diseases and conditions that affect the heart is pumped in the right direction. The problems may arise in one of these sectors. like cardiovascular disease is a term that is a bit high and wide, and is often used in this way. Li> 10. Cardiac disease is a generic term for a number of different disease is a generic term for a number of different disease. heart disease cardiovascular disease ipersensive heart disease cardiac disease ipersensive heart disease inflammatory heart disease cardiac failure common forms of heart disease and the main cause of cardiac attacks. Generally it means that the flow of blood through the coronary arteries has been obstructed. The most common cause of these is a condition calleda largely preventable type of vascular disease. Coronary arteries has been obstructed. and heart attack (myocardial infarction). Coronary heart disease, a disease of the heart itself caused by the accumulation of atheromatous plaques within the walls of the heart itself, characterized by a reduced blood supply to the organ. Causes of cardivascular disease include diabetes mellitus, hypertension, and hypercholesterolemia. 13. Pulmonary heart disease, heart disease, heart disease caused by inavoidable genetic factors Hypertensive heart disease, heart disease include diabetes mellitus, hypertension, and hypercholesterolemia. Inflammatory heart disease, heart disease involving inflammation of the heart muscle and/or tissue surrounding it. Valvular heart disease of the sac that encloses the heart disease, heart disease involving inflammation (pericarditis), fluid accumulation). (pericardial effusion), and stiffness (restrictive pericarditis). These can occur after a heart attack and, as a result, lead to pericardial effusion or chest pain. < 15. Congenital heart disease, These are forms of heart disease that develop before birth (congenital). CongenitalDisease is a broad term and includes a wide range of diseases and conditions. These diseases and conditions such as the narrowing of a section of the aorta (coarter) or holes in the heart (defect of the atrial or ventricular septum). Some congenital heart defects can be evident right at the time of birth, while others may not be detected up to later in life. 16. heart failure, often called congestive heart failure, is a condition in which the heart cannot pump enough blood to the body. It does not mean that the heart has given and cannot pump blood. With this less effective pumping, the vital organs do not receive enough blood, causing signs and symptoms as a lack of breath, retention of liquids in the body. Not all heart failure is congestive, but the terms are often used interchangeably. Cardiac insufficiency can suddenly develop or over many years. It can occur as a result of other cardiovascular conditions that have damaged or weakened the heart, such as coronary heart or cardiovascular conditions that have damaged or weakened the heart, such as a result of other cardiovascular conditions that have damaged or weakened the heart, such as coronary heart or cardiovascular conditions that have damaged or weakened the heart, such as coronary heart or cardiovascular conditions that have damaged or weakened the heart, such as coronary heart or cardiovascular conditions that have damaged or weakened the heart or cardiovascular conditions that have damaged or weakened the heart or cardiovascular conditions that have damaged or weakened the heart or cardiovascular conditions that have damaged or weakened the heart or cardiovascular conditions that have damaged or weakened the heart or cardiovascular conditions that have damaged or weakened the heart or cardiovascular conditions that have damaged or weakened the heart or cardiovascular conditions that have damaged or weakened the heart or cardiovascular conditions that have damaged or weakened the heart or cardiovascular conditions that have damaged or weakened the heart or cardiovascular conditions that have damaged or weakened the heart or cardiovascular conditions that have damaged or weakened the heart or cardiovascular conditions that have damaged or weakened the heart or cardiovascular conditions that have damaged or weakened the heart or cardiovascular conditions that have damaged or weakened the heart or cardiovascular conditions that have damaged or weakened the heart or cardiovascular conditions that have damaged or weakened the heart or cardiovascular conditions that have damaged or weakened the heart or cardiovascular conditions that have damaged or weakened the heart or cardiovascular conditions that have damaged or weakened the heart or cardiovascular conditions the heart or cardiovascular conditions the hea and nutrients. Aorta is the biggum vessel larger than all. veine: These blood vessels bring the blood deoxyhegened to the heart. The blood vessels are essentially the cables pipes that bring the blood flowing towards all vital organs. This great responsibility probably does not pay much attention to blood vessels until © Something's not wrong, I mean. Yeah. These small vessels connect arteries and veins. Li>Lympmatics: liquid escape from capillaries to bath cells. Lymphatics are delicate vessels that bring this fluid back into the central circulation of the body. Li> 19. can sometimes limit blood flow to organs and tissues. The process of this thickening and stiffening is arteriosclerosis. Although the two terms are often used interchangeably, atherosclerosis refers to the hardening of the arteries caused by the accumulation of fat deposits (plaques) and other substances. The heart is one of the organs commonly affected by atherosclerosis. When heart arteries (crown arteries) shrink - they can experience chest pain or a heart attack. 21. disease in the Western world, which affects about one out of four Americans. Although potentially lethal, it is one of the most preventable and curable types of cardiovascular disease, such as stroke and heart failure. 22. Stroke, is a sudden loss of brain function. It occurs whenblood flow to the brain is interrupted (hyschemic stroke) or when blood vessels in therupture (hemorrhagic stroke). These, in turn, cause brain cell death in the affected areas. Stroke is often thought of as a neurological disorder because of the many complications it causes. Aneurysm, is a bulge or weakness in the wall of an artery or vein. Aneurysms usually enlarge over time. Because of this, they have the potential to rupture and cause life-threatening bleeding. Aneurysms can occur in arteries at the base of the brain. 23. Peripheral arterial disease and claudication, you may be more familiar with claudication \tilde{A} ($\hat{a}' \neg$ " pain in the arms or legs during exercise \tilde{A} ($\hat{a}' \neg$ " than the term "peripheral arterial disease is a disorder in which the arteries that supply blood to the limbs, usually the legs, become clogged or partially blocked. When this happens, the arms and legs are left with less blood than they need to keep up with demand. Symptoms of claudication may then develop. When the obstruction is mild, you may have pain or cramping in her legs even when they are not active. 24. Vasculitis, This is an inflammation of the blood vessels. It usually involves the arteries, but can also affect veins and capillaries. Inflammation can damage the wall of the artery or vein and impair blood flow to the region of the body supplied by that vessel. Sometimes vasculitis occurs along with a generalized disorder, such as lupus or rheumatoid arthritis, but it can also occur on its own. 25. Venous incompetence, This is a condition in which Blood runs in the wrong way in the veins. The veins have small small Designed to promote blood flow forward, back to the heart. But if such conditions such as infection, inflammation, abnormal blood coagulation, or even high back pressure during pregnancy, valves can become damaged and incompetent. This allows the blood to flow back and accumulate in the legs when sitting or in can develop such complications such as prominent and painful varicose veins, skin changes, ulcers and leg swelling. When venous incompetence occurs in the arms, it can feel pain and swelling in the arms and in prominent veins. 26, venous thrombosis, this is the formation of a blood clot (thrombus) in a vein. This condition can damage the vein and its valves. Furthermore, the clots that break and travel in the bloodstream can deposit in the bloodst have more familiarity with deep venous thrombosis, in which a clot develops deep into a muscle, like one in the calf. 27. Varicose veins, this is a condition in which veins do not work properly, the blood can accumulate in the legs, causing the swelling and twisting of the veins. The veins appear blue because they contain less oxygen. lymphedema, This is an obstruction of lymphatic vessels. It follows an excessive accumulation of liquid, which can cause swelling and pain. It can be caused by infections, traumas, tumors, surgery and radiotherapy. In rare cases, someone can be born with lymphedema. 28. arrhythmia / dysrhythmia / dys It has leads that travel through a great vein to the heart, where the wires are anchored, which send electrical impulses to the heart. 30. Flutter: rapid and regular contraction that reaches up to 350-400 beats per minute. Defibrillator is applied to the thoracic wall to help in cardioversion. Defibrillation is a technique used to counteract the occurrence of ventricular fibrillation, common cause of cardiac arrest. Palpitations: feeling of discomfort associated with arrhythmia. This provokes 1. premature atrial contraction (PAC) 2. early ventricular contraction (PVC). The 33. Myocardial infarction / heart attack 34. Angina Pectoris The hardening of the arteries and the presence of a thrombus, or clot, in a blood vessel are the most common causes of obstruction. Arteriosclerosis is responsible for most deaths due to heart attacks. The spasms of coronary angiogram (ecc) how it works: this more ancient and basic examination of the heart records the electrical impulses that regulate the Heart pumping action. It can seem little sophisticated, but any deviation from the normal rhythm can alert doctors about the probability of a damaged cardiac tissue and a bloodstream Limitations: Although it can indicate signs of problems, an ECG does not provide a visual map of the heart and Accurately identify what afflicts the organ or where the problem is in the heart. 37. Electrocardiography (EKG / ECG) detects heart rate abnormalities, diseases and damage by measuring heart rhythms and electrical impulses. 38. Electrocardiography The image shows the movement and structure of the four cardiac valves, revealing any losses (regurgitation) or shrinkage (stenosis). During this test, a Doppler ultrasound can be done to evaluate the heart blood flow. 40. Stress Test / Exercise Tolerance Test (ETT) / Tapis Roulant Test During a ST operation, an ECG is executed while the patient trains controlledly on a treadmill or on a stationary bicycle at various speeds and altitudes. During a pharmacological st, a drug (for example, dobutamine) is administered to the patient, which induces the heart to react as if it were under the physical stress. 41. Stress nuclear test How it works: the doctors inject a radioactive substance in the blood, then use gamma-ray cameras to see how blood moves through the heart. The test shows how the heart is doing well to remain saturated with oxygen-rich blood. The test is often done twice, to check heart performance at rest and under physical stress. limitations: the execution of two scans can take up to five hours. The test also exposes the patient with small quantities of radiation. 42. echocardiogram (echo) how it works: harmless ultrasonic waves, similar to those used to make the ultrasound of a fetus, are directed to the chest and bounce on the walls and on the walls Heart valves. A computer analyzes these rebound waves and calculates the size, shape and can only highlight the greatest changes in structures such as the rooms of the heart. 43. ANGIOGRAM CORONARIA How it works: This procedure is the golden standard for displaying arteries that feed the heart.

highlights the arteries under x-rays and expose any blocks. Because they are invasive angiograms have some risks: catheters can tear artery walls, requiring surgical repair. (In 1% of cases, serious complications may occur including death.) Subsequently, patients must remain firm for four or six hours until the blood vessel in the seals of the leg. 44. Angiography 45. TC SCAN How it works: This test combines rapid X-ray scanning with multiple computerized topography (CT) to produce the most detailed images available of heart arteries without surgery. Patients receive a contrasting coloring injection to highlight blood vessels and x-rays create sliced heart images. A computer assembles the restricted regions along the arteries, then apply PET to isolate the parts of the heart muscles, such as the circled areas, which are private blood flow as a result. Limitations: Pet technology is expensive and hybrid machines are not widely available. The test also involves some radiation exposure. 47. magnetic resonance imaging (MRI) How it works: The powerful magnets create a field that sets the nuclei of the atoms in the cells of the heart that vibrate. The oscillating atoms emit radio signals, which are converted from computers into stationery or moving 3-D. The arrow on the left points to a square full of plaque in the artery; The scan also reveals the layer of fat that envelops most of the hearts. limitations: due to the intense magnetic field, patients with pacemakers, stents or other metal systems cannot obtain a magnetic resonance. These scanning cannot collect football deposits, which could report dangerously restricted vessels. 48. The coronary arteries are just a small part of the heart. Magnetic resonance is better to tell how well your heart is pumping how healthy are its walls and form the valves and the rooms are inside. MRI has the potential to do everything. Magnetic resonance is also ideal for scanning children with congenital heart problems, since exposure to repeated radiation in young people leads to an increase in the risk of developing the Adult cancer. But there are inconveniences again. MRI scans are much more expensive than CT scans, and generate and interpret them require a lot of workout. 49. echocardiogram machines are making shorter, more precise nuclear perfusion scans. More, however, could belong to anyone who can figure out how to do all these imaging working together. An approach combines anatomical accuracy of imaging CT with functional information provided by a type of nuclear tomography called positron-emission (PET). 50. still in his first days in clinic a, pet / ct could help doctors see how much of cardiac muscle is still alive after a heart attack and if a Bypass, angioplasty or surgery intervention in hot air balloon would help recover damaged areas. Li> not all plaques forming within a coronary arterio Å ¢ 128; s walls are dangerous. Some seem to be stable and do not grow much, while others contain an explosive combination of hardened fats and inflammatory proteins that are probably bruscant, unleashing a heart attack. TAC scans and magnetic resonance cannot reliably distinguish the two types of lesions. Li > 51. The researchers are developing compounds that are chemically attracted by the inflammatory components of an unstable plate with one-day hope label the problematic points that must be treated. But it could take a while. Li> There are many tests that lower cholesterol levels in those patients with moderate blood obstruction greatly reduces the risk of suffering a heart attack or stroke. So a growing number of cardiologists is using new cardiac scans to determine which of these otherwise asymptomatic patients need more intense medical treatment with statins and other drugs. Li > 52. A slight disease of the coronary artery, therefore, in addition to trying to get the LDL cholesterol level under 70 mg / dl, he or you will probably wear a daily aspirin regime and will ensure that the factors Risk for cardiac disease History of the family. High blood pressure. age 55 older people. Li>Low HDL or smoking 53. Coronary coronary angioplasty percutaneous angioplasty percutaneous angioplasty (PTCA) spherical angle 54. Coronary artery bypass graph (CABG) 55. ATHERECTOMY Rotary Direction Athectomy Athectomy Athectomy Athectomy Extraction Athrectomy 56 Risk factors that predispose to various forms of cardiovascular disease et absence of key nutritional elements, like polyphenol antioxidants

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