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An echocardiogram, or "echo", is a scan used to look at the heart and nearby blood vessels. It's a type of ultrasound scan, which means a small probe is used to send out high-frequency sound waves that create echoes when they bounce off different parts of the body. These echoes are picked up by the probe and turned into a moving image that's displayed on a monitor while the scan is carried out. An echocardiogram may be requested by a heart specialist (cardiologist) or any doctor who thinks you might have a problem with your heart, including your GP. The test will usually be carried out at a hospital or clinic by a cardiologist or a trained specialist called a cardiac physiologist. Although it has a similar name, an echocardiogram isn't the same as an electrocardiogram (ECG), which is a test used to check your heart's rhythm and electrical activity. An echocardiogram can help diagnose and monitor certain heart conditions. It checks the structure of the heart and surrounding blood vessels, analysing how blood flows through them, and assessing the pumping chambers of the heart. An echocardiogram can help detect: damage from a heart attack - where the supply of blood to the heart was suddenly blocked heart failure - where the heart fails to pump enough blood around the body at the right pressure congenital heart disease - birth defects that affect the normal workings of the heart problems with the heart valves - problems affecting the valves that control the flow of blood within the heart cardiomyopathy - where the heart walls become thickened or enlarged endocarditis - an infection of the heart valves An echocardiogram can also help your doctors decide on the best treatment for these conditions. There are several different ways an echocardiogram can be carried out, but most people will have what's known as a transthoracic echocardiogram (TTE). This procedure is outlined below. You won't usually need to do anything to prepare for the test, unless you're having a transoesophageal echocardiogram. For a TTE, you'll be asked to remove any clothing covering your upper half before lying down on a bed. You may be offered a hospital gown to cover yourself during the test. When you're lying down, several small sticky sensors called electrodes will be attached to your chest. These will be connected to a machine that monitors your heart rhythm during the test. A lubricating gel will be applied to your chest or directly to the ultrasound probe. You'll be asked to lie on your left side and the probe will be moved across your chest. The probe is attached by a cable to a nearby machine that will display and record the images produced. You won't hear the sound waves produced by the probe, but you may hear a swishing noise during the scan. This is normal and is just the sound of the bloodflow through your heart being picked up by the probe. The whole procedure will usually take between 15 and 60 minutes, and you'll normally be able to go home shortly afterwards. There are several other types of echocardiogram that can be carried out. This is where a small probe is passed down the throat into your gullet and stomach. Your throat will be numbed with local anaesthetic spray and you'll be given a sedative to help you relax. You may need to avoid eating for several hours before this test. This is an echocardiogram that's carried out during or just after a period of exercise on a treadmill or exercise bike. It can also be carried out after you've been given an injection of a medication that makes your heart work harder. During a contrast echocardiogram a harmless substance called a contrast agent is injected into your bloodstream before an echocardiogram is carried out. This substance shows up clearly on the scan and can help create a better image of your heart. The type of echocardiogram you'll have depends on the heart condition being assessed and how detailed the images need to be. For example, a stress echocardiogram may be recommended if your heart problem is triggered by physical activity. The more detailed images produced by a TOE may be more useful in helping plan heart surgery. In some cases, it may be possible for the person carrying out the scan to discuss the results with you soon after it's finished. However, the images from the scan will usually need to be analysed before the results are sent to the doctor who requested the test. Your doctor will then discuss the results with you during your next appointment. A standard echocardiogram is a simple, painless and safe procedure. There are no side effects from the scan, although the lubricating gel may feel cold and you may experience some minor discomfort when the electrodes are removed from your skin at the end of the test. Unlike some other tests and scans, such as X-rays and computerised tomography (CT) scans, no radiation is used during an echocardiogram. However, there are some risks associated with the less common types of echocardiogram. You may find the TOE procedure uncomfortable and your throat may feel sore for a few hours afterwards. You won't be able to drive for 24 hours after the test as you may still feel drowsy from the sedative. There's also a small chance of the probe damaging your throat. During a stress echocardiogram, you may feel sick and dizzy and you may experience some chest pain. There's also a small chance of the procedure triggering an irregular heartbeat or heart attack, but you'll be monitored carefully during the test and it will be stopped if there are signs of any problems. Some people have a reaction to the contrast agent used during a contrast echocardiogram. This will often only cause mild symptoms such as itching, but in rare cases a serious allergic reaction can occur. An echocardiogram is used to show possible abnormalities of the heart structure and function that may be the cause for symptoms thought to be related to heart disease. An echocardiogram shows us the structure and function of the heart. It provides information on the heart pumping function and heart size. It shows us information on the heart valves and other structures in the heart. An echocardiogram also shows patterns of blood flow through the heart. What Does An Echocardiogram Show - Who Needs An Echocardiogram? Patients may be referred for an echocardiogram for a variety of different reasons. It may be due to symptoms concerning heart disease such as shortness of breath, chest pain, palpitations, dizziness and other related symptoms. It may be to investigate a murmur heard on physical exam. It may also be to monitor existing heart conditions such as valve problems or heart failure. What Does An Echocardiogram Show - Heart Pumping and Relaxing Function An echocardiogram gives us accurate information on the pumping function of the heart. The echocardiogram will be used to calculate the ejection fraction of the heart, which is the percentage of blood that the heart pumps out with each beat. Normal ejection fraction is 50-60%. The echocardiogram also provides information on the relaxation of the heart. Heart failure can be caused by both pumping and relaxation abnormalities. Echocardiography will show information on both the left and the right side of the heart. Measurements taken from an echocardiogram can show heart tissue characteristics. What Does An Echocardiogram Show - Patients With Chest Pain In patients with chest pain there are a number of different possible causes, some of which can be assessed by echocardiography. If artery blockages are suspected the echocardiogram may show abnormalities in the walls of the heart supplied by those arteries. These are known as wall motion abnormalities. In cases of pericarditis, which is inflammation of the lining around the heart there may be fluid accumulation around the heart known as a pericardial effusion. What Does An Echocardiogram Show - Heart Valve Function Echocardiograms show structure and function of the 4 valves in the heart. The aortic valve, the mitral valve, the tricuspid valve and the pulmonary valve. They can show abnormalities in valve function such as tight or leaky heart valves. A tight aortic valve is known as aortic stenosis. A leaky aortic valve is known as aortic regurgitation. A tight mitral valve is known as mitral stenosis and a leaky mitral valve is known as mitral regurgitation. Echocardiograms can be used to show the degree of tightening or leakiness of a heart valve and help us to make decisions regarding need for intervention. What Does An Echocardiogram Show - Heart Size Echocardiography is used to provide information on heart size. It can provide accurate dimensions of the chambers of the heart and also the thickness of the heart walls. It can therefore be used to detect heart chamber or wall enlargement known as hypertrophy. Echocardiography will provide information on both the left and right side of the heart. Measuring Heart Chamber Size What Does An Echocardiogram Show - Patterns Of Blood Flow Doppler is a type of echocardiography that can show patterns of blood flow through the heart. Doppler can give us an idea of pressures inside the heart and detect those that may be abnormally high. Color Doppler may be used to examine for leaky or tight heart valves. What Does An Echocardiogram Show - Advanced Analysis Most newer generation echocardiography machines will incorporate 3D acquisition that can render the heart as a 3D image showing the heart shape and function. Various characteristics such as heart strain can be examined to provide highly detailed information about the heart tissue function. These features are not typically reported on a standard echocardiogram. What Does An Echocardiogram Show - Guidance Of Procedures Echocardiography can be used to guide certain heart procedures such as the Mitrclip procedure, the TAVR procedure, paravalvular leak repair, mitral valvuloplasty, alcohol septal ablation and many others. In many cases advanced techniques such as 3D transesophageal echocardiography may be required. These techniques can provide real-time 3D lifelike images that can guide procedures remarkably well. What Does An Echocardiogram Show - Surveillance Over Time Many heart disorders will need to be monitored over time to ensure they stay stable and don't worsen and to assess response to therapy. Echocardiography is a highly reliable way to show changes in heart structure and function over time. 4.76/5 (757) An echocardiogram, also known as an echo, is a scan of the heart. It is similar to ultrasound scanning used in pregnancy because it uses sound waves to build up a picture of your heart. An echo is not the same as an electrocardiogram, also known as an ECG, which is a simple and useful test that records the rhythm, rate and electrical activity of your heart. What does an echocardiogram show? An echo looks at the structures of your heart, such as your heart valves. It also looks at how the blood flows through the main arteries and veins of the heart and gives information on how well your heart is pumping. An echo is often done to diagnose and assess the following conditions: What happens when you have an echocardiogram? You will be given a hospital gown to wear as you will need to remove all clothing from your top half when the echo is done. Your privacy will be maintained as you will be behind curtains or in a hospital clinic room in the outpatients department. With a standard echo, sometimes called a transthoracic echo or TTE, you'll be asked to lie on a couch or bed. A gel used especially for scanning will be used to help the sound waves reach your heart. It feels cold and sticky, but is otherwise harmless. The healthcare professional (called a sonographer) doing the procedure will move the probe in different areas around your heart. The probe gives off pulses of high frequency sound waves which pass through your skin to your heart. This may sound like a "swishing" noise as the ultrasound waves "echo" against the structures of your heart, as well as the sound of the blood flow through the chambers of the heart. The probe picks up these reflections and shows them as images on a screen. Different parts of the heart are seen as the probe is moved around your chest. It varies from person to person and can take from 15 minutes up to an hour. It's a very common, safe test, and most people find it's not uncomfortable, although you may feel a bit of pressure as the technician presses the probe onto your chest to obtain the best images. Electrodes (small sticky dots) will normally be attached to your chest to monitor your heart rate and rhythm during the test. In some cases the results of the scan maybe discussed with you in a clinic appointment with your heart doctor after the scan otherwise the results will be sent to your GP. Most people go home after the scan is finished. There are no risks or side effects from having a standard echo. Your doctor will discuss any risks or side effects if you need a different type of echo. Other types of echocardiogram The type of echo that you will have will depend on the condition that the doctor is trying to diagnose and treat. Transoesophageal echocardiogram (TOE) A transoesophageal echocardiography, or TOE, takes detailed pictures of your heart from your oesophagus (the tube that connects your throat to your stomach) which lies behind your heart. This test is used to get closer and more defined images of the heart as it can detect areas of the heart that are not as easy to see with a standard echo. You will be asked to lie on your side and "swallow" a small probe which is mounted at the end of a flexible tube. A local anaesthetic that numbs the area will be sprayed onto the back of your throat and you will be offered a short-acting light sedative to help you relax. The procedure usually takes about 30 minutes. You may need to avoid eating for several hours before this test. The technician will obtain the images they need and remove the tube as soon as the procedure is done. Watch the film below to see Dave's experience of a TOE: An echocardiogram may be done while the heart is beating faster – a stress echo is performed while deliberately increasing the heart rate with either exercise on a treadmill or stationary bike, or with medication given through a vein. This test can help to diagnose coronary heart disease as it shows the coronary arteries in the heart aren't getting as much oxygen rich blood as they should. Contrast echo To create a better image on a scan, a contrast or dye is injected into your vein. Foetal echocardiogram Foetal echocardiograms are used to help identify heart defects before a child is born. Bubble echo This is sometimes called a bubble study. A bubble echo involves performing an echo in the usual way whilst a small amount of salt water (saline) is injected into your bloodstream, through a vein in your arm. The salt water contains tiny bubbles which show up clearly on the scan pictures, and can be a useful way to identify a hole in the heart. It may be carried out after a stroke or TIA, or after complex heart surgery. The test is quick and painless, and the bubbles are harmless. Heart Helpline & other support Speak to our cardiac nurses by phone, callback, email or online chat on Heart Helpline (Monday to Friday, 9am to 5pm). Contact us to talk to our customer care advisors, find your local BHF shop and for any comments, compliments and complaints you may have. Sign up to our Heart Matters magazine for online information packed with health and lifestyle advice. This booklet describes the special tests that are commonly used to help diagnose heart diseases. Some of the tests are also used to assess the current condition of people who have already been diagnosed with heart disease. Download now An echocardiogram uses sound waves to create pictures of the heart. An echo test offers details on the heart's structure and function. It can help diagnose various heart problems. What is an echocardiogram? An echocardiogram uses sound waves to make pictures of your heart. The test is also called echocardiography or diagnostic cardiac ultrasound. Some types of echocardiograms: Transthoracic echocardiography: Used to check for heart failure and find the cause of a heart murmur Stress echocardiography: Can identify partial or complete blockage of a heart artery Transesophageal echocardiography: Includes finding the source of a blood vessel blockage or prosthetic valve problem 3D echocardiography: Used to diagnose problems with the mitral valve Fetal echocardiography: Used to look for problems in the heart of an unborn baby Why is it needed? An echo test lets your heart care team look at your heart's structure and check how well your heart works. The test helps your health care team find out: The size and shape of your heart How your heart moves and pumps blood The heart's pumping strength If the heart valves are working correctly If blood is leaking backwards through your heart valves (regurgitation) If the heart valves are too narrow (stenosis) If a tumor or infectious growth is around your heart valves The test will also help your health care team find out if you have: Problems with the outer lining of your heart (the pericardium) Problems with the large blood vessels that enter and leave the heart Blood clots in the chambers of your heart Abnormal holes between the chambers of the heart Abnormal heart sounds from damaged heart valves What are the risks? An echo doesn't hurt and has no side effects. What happens after the echo? Your health care professional will talk with you after looking at your echo pictures and discuss what the pictures show. View a printable sheet: What is an Echocardiogram? (PDF) Last Reviewed: Feb 24, 2025 An echocardiogram is an ultrasound imaging test used to observe the heart. It is also called a cardiac echo. Your healthcare provider may order this test to help diagnose a heart condition. A cardiac echo is considered the best way to see the movement and function of the heart muscle and valves. You may need a cardiac echo if you have heart valve disease, heart rhythm irregularities, or cardiac muscle diseases such as dilated cardiomyopathy or hypertrophic cardiomyopathy. This article explains why an echocardiogram may be used and what kinds of heart problems it can detect. It will also describe in detail how to prepare for the test, what happens during the test, and what the results may mean for you. Illustration by Cindy Chung, Vervwell Other terms for an echocardiogram include:Transthoracic echocardiogram (TTE)Cardiac echo Cardiac ultrasound A cardiac echo is used to identify abnormalities in the heart's structure and function. A handheld device sends out sound waves that bounce off your heart and create a moving image of it on a screen. This allows your healthcare provider to look at the anatomy of your heart from many different angles and to observe your heart rhythm. If you have symptoms of fatigue, shortness of breath, or fainting, you can ask the facility what the test is especially true if a stethoscope or an electrocardiogram (EKG) (a test that charts the electrical activity of your heart) suggests that you have a structural heart problem. An echocardiogram is an ultrasound that uses a small device called transducer to take images of the heart's functioning and structure. With an EKG, electrodes are placed on the chest to measure the heart's electrical activity, like rhythm and rate. A cardiac echo allows your healthcare provider to watch your heart as it beats so that specific areas of concern can be identified. Some of the heart functions and conditions an echo can detect include: Problems with the heart valves: For example, mitral valve prolapse, a heart valve that is less rigid than it should be, can be detected because the test shows how well your heart's valves are functioning. The velocity, or speed, of blood flow within the heart: A special microphone called a Doppler can be used during the test to measure this. This is helpful in measuring problems with blood flow in conditions such as aortic stenosis. Anatomical defects: Congenital heart conditions such as tetralogy of Fallot and atrial septal defect are conditions that are present from birth in which the heart does not develop properly. Problem with the way the heart pumps: "Ejection fraction" is a term used to describe how strong the heart is and how well it pumps blood. An echo can evaluate how well various cardiac treatments are working in people with conditions such as heart failure. Cardiac arrhythmia: An echo can assess your heartbeat. This may help in determining the exact cause and best treatment if you do have an arrhythmia or irregular heart rhythm. Coronary artery disease (CAD): This type of echocardiogram done while your heart is under stress can help identify narrow or clogged arteries. Pericardium problems: The pericardium is the sac that surrounds the heart. An echocardiogram can identify problems such as inflammation (pericarditis) or fluid (pericardial effusion). Pressure: An echocardiogram can also be used to measure the pressure in your heart, which can help identify pulmonary hypertension, when there is too much pressure in the pulmonary artery. There are a few different types of stress echocardiography including: M-mode: This type produces a simple picture of the heart and is used for obtaining key measurements of heart function. It can also help identify weak or thickened heart muscles, which are signs of heart failure. Problems with the aorta: The aorta is the large artery that carries blood from your heart to the rest of your body. An echocardiogram can help identify weakness in this artery as well as thickening of the valve flaps and blood clots. Heart attack: Impaired blood supply in the heart and abnormalities in the wall of the heart can indicate a heart attack. Blood clots: Echocardiogram could be used to find blood clots in the heart (thrombosis). Masses: Tumors in the heart are uncommon, but this test could be used to find a mass and help rule out malignancies (cancer). While the echocardiogram provides a lot of information about cardiac anatomy, it does not show the coronary arteries or any blockages in them. Another test called cardiac catheterization is commonly performed if your coronary arteries need to be examined closely. An echocardiogram is considered a safe procedure with no known risks. There are a few different types of echocardiograms. 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A stress test can also be done using a medication that makes your heart beat faster. A medication stress test is usually only done if you have difficulty exercising. A stress echocardiogram uses sound waves to create a picture of your heart while it is under stress. There are a few different types of stress echocardiography including: M-mode: This type produces a simple picture of the heart and is used for obtaining key measurements of heart function. It can also help identify weak or thickened heart muscles, which are signs of heart failure. Problems with the aorta: The aorta is the large artery that carries blood from your heart to the rest of your body. An echocardiogram can help identify weakness in this artery as well as thickening of the valve flaps and blood clots. Heart attack: Impaired blood supply in the heart and abnormalities in the wall of the heart can indicate a heart attack. Blood clots: Echocardiogram could be used to find blood clots in the heart (thrombosis). 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