

Heart Valve Problems And Symptoms

Pericardial heart valves The pericardial heart valve was invented by Marian Ionescu, a British surgeon working at the General Infirmary in Leeds, England. He created this artificial d49d9baff7

A cardiologist can evaluate whether a heart valve repair or valve replacement would be of benefit. d49d9baff7

Mitral valve It has two cusps The mitral valve (MY-trəl), also known as the bicuspid valve or left atrioventricular valve, is one of the four heart valves. The heart valves are all one-way valves allowing blood flow in just one direction. It has two cusps or flaps and lies between the left atrium and the left ventricle of the heart. The mitral valve and the tricuspid valve are known as the atrioventricular valves because they lie between the atria and the ventricles. The mitral valve (/ˈmaɪtrəl/ MY-trəl), also known as the bicuspid valve or left atrioventricular valve, is one of the four heart valves d49d9baff7

Mitral valve prolapse In severe cases of classic MVP, complications include mitral regurgitation, infective endocarditis, congestive heart failure, and, in rare circumstances, cardiac arrest. There are various types of MVP, broadly classified as classic and nonclassic. Auscultating Mitral valve prolapse (MVP) is a valvular heart disease characterized by the displacement of an abnormally thickened mitral valve leaflet into the left atrium during systole. It is the primary form of myxomatous degeneration of the valve. Mitral valve prolapse murmur at mitral area Heart sounds of a 16-year-old girl diagnosed with mitral valve prolapse and mitral regurgitation d49d9baff7

Mitral regurgitation Auscultating. Mitral valve prolapse murmur at mitral area Heart sounds of a 16-year-old girl diagnosed with mitral valve prolapse and mitral regurgitation d49d9baff7

During the late 1940s and early 1950s, the first surgical approaches towards treating aortic valve stenosis had limited success. The first attempts were valvotomies, (i.e. cutting the valve while the heart is pumping). A ball valve prosthesis placed on the descending thoracic aorta (heterotopically) was developed by Hufnagel, Harvey and others to address aortic stenosis, but had disastrous complications. Later, with the innovation of cardiopulmonary bypass, the ball valve prosthesis was placed orthotopically (i.e. in same place as the... d49d9baff7 Current methods for

aortic valve replacement include open-heart surgery, minimally invasive cardiac surgery (MICS), surgical aortic valve replacement (SAVR), percutaneous or transcatheter aortic valve replacement (TAVR; also PAVR, PAVI, TAVI), and robotic aortic valve replacement (RAVR).

Mitral valve replacement Mitral valve replacement is a procedure whereby the diseased mitral valve of a patient's heart is replaced by either a mechanical or tissue (bioprosthetic)

== History == The condition was first described by John Brereton Barlow in 1966. It was subsequently termed mitral valve prolapse by J. Michael Criley. Although mid-systolic click (the sound produced by the prolapsing mitral leaflet) and systolic murmur associated with MVP were observed as early as 1887 by physicians M. Cuffer and M. Barbillon using a stethoscope. In abnormal conditions, blood may flow backward through the valve (mitral regurgitation) or the mitral valve may be narrowed (mitral stenosis). Rheumatic heart disease often affects the mitral valve; the valve may also prolapse with age and be affected by infective endocarditis.

== Classification == The mammalian heart has two atrioventricular valves separating the upper atria from the lower ventricles: the mitral valve in the left heart, and the tricuspid valve in the right heart. The two semilunar valves are at the entrance of the arteries leaving the heart. These are the aortic valve at the aorta, and the pulmonary valve at the pulmonary artery. In normal conditions, blood flows through an open mitral valve during diastole with contraction of the left atrium, and the mitral valve closes during systole with contraction of the left ventricle. The valve opens and closes because of pressure differences, opening when there is greater pressure in the left atrium than ventricle and closing when there is greater pressure in the left ventricle than atrium.

== Structure == Heart sounds atrioventricular valves and semilunar valves, respectively. In addition to these normal sounds, a variety of other sounds may be present including heart murmurs

MVP is the most common valvular abnormality, and is estimated to affect 2-3% of the population and 1 in 40 people might have it.

Heart murmur This occurs when turbulent blood flow creates a sound. Heart murmurs are unique heart sounds produced when blood flows across a heart valve or blood vessel

== Signs and symptoms == Anatomically, the valves are part of the dense connective tissue of the

heart known as the cardiac skeleton and are responsible for the regulation of blood flow through the heart and great vessels. Valve failure or dysfunction can result in diminished heart functionality, though the particular consequences are dependent on the type and severity of valvular disease. Treatment of damaged valves may involve medication alone, but often involves surgical valve repair or valve replacement. d49d9baff7

Heart valve A heart valve A heart valve (cardiac valve) is a biological one-way valve that allows blood to flow in one direction through the chambers of the heart. A mammalian heart usually has four valves. See media help. The stethoscope is at the tricuspid area. Together, the valves determine the direction of blood flow through the heart. Problems playing this file. Heart valves are opened or closed by a difference in blood pressure on each side. the heart valves closing in a healthy 16 year old girl d49d9baff7

The heart also has a coronary sinus valve and an inferior vena cava valve, not discussed here. d49d9baff7

Aortic valve replacement The aortic valve may need Aortic valve replacement is a cardiac surgery procedure whereby a failing aortic valve is replaced with an artificial heart valve. Aortic valve replacement is a cardiac surgery procedure whereby a failing aortic valve is replaced with an artificial heart valve. The aortic valve may need to be replaced because of aortic regurgitation (back flow), or if the valve is narrowed by stenosis d49d9baff7

The name of the mitral valve is derived from the word mitre, referencing... d49d9baff7 The diagnosis of MVP primarily relies on echocardiography, which uses ultrasound to visualize the mitral valve. d49d9baff7

Valvular heart disease Recorded with the stethoscope over the mitral valve. These conditions occur largely as a consequence of aging, but may also be the result of congenital (inborn) abnormalities or specific disease or physiologic processes including rheumatic heart disease and pregnancy. See media help. Valvular heart disease is Valvular heart disease is any cardiovascular disease process involving one or more of the four valves of the heart (the aortic and mitral valves on the left side of heart and the pulmonic and tricuspid valves on the right side of heart). systolic murmur and click are heard. Problems playing this file d49d9baff7

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