

3rd Degree Av Heart Block

Under normal conditions, the heart's sinoatrial node (SA node) determines the rate by which the organ beats - in other words, it is the heart's "pacemaker". The electrical activity of sinus rhythm originates in the sinoatrial node and depolarizes the atria. Current then passes from the atria through the atrioventricular node and into the bundle of His, from which it travels along Purkinje fibers to reach and depolarize the ventricles. This sinus rhythm is important because it ensures that the heart's atria reliably contract before the ventricles, ensuring an optimal stroke volume and cardiac output. db27cc8ff8 Apraxia db27cc8ff8 ECG signals can also be recorded in other contexts with other devices. db27cc8ff8 However, other devices can record the electrical activity of the heart, such as a Holter monitor or some models of smartwatch. db27cc8ff8 The QRS complexes with a regular R-to-R interval represent the second rhythm. The PR interval will be variable, as the hallmark of complete heart block is the lack of any apparent relationship between P waves and QRS complexes. db27cc8ff8

Ectopic pacemaker e. Acute occurrence is usually non-life-threatening, but chronic occurrence can progress into tachycardia, bradycardia or ventricular fibrillation. It is thus a cardiac pacemaker that is ectopic, producing an ectopic beat. As a rule, premature ectopic beats (i. slow SA node blockage so that impulses never leave the atria AV node blockage (3rd degree block) prevents normal conduction across ventricles An ectopic pacemaker An ectopic pacemaker, also known as ectopic focus or ectopic foci, is a group of excitable cells that causes a premature heart beat known as an ectopic beat, outside the normally functioning SA node of the heart. with a shorter than the prevailing preceding R-R' interval) indicate increased myocyte or conducting tissue excitability, whereas late ectopic beats (i. e. with a prolonged. This phenomenon (an intrinsically slower pacemaker activity being unmasked by failure of faster pacemaker tissue 'upstream') is called an escape rhythm, the lower rhythm having escaped from the dominance of the upper rhythm. In a normal heart beat rhythm, the SA node usually suppresses the ectopic pacemaker activity due to the higher impulse rate of the SA node. However, in the instance of either a malfunctioning SA node or an ectopic focus bearing an intrinsic rate superior to SA node rate, ectopic pacemaker activity may take over the natural heart rhythm db27cc8ff8

Angina db27cc8ff8

2011 United Kingdom Alternative Vote referendum It operated under the provisions of the Parliamentary Voting System and Constituencies Act 2011 and was the first national referendum to be held under provisions laid out in the Political Parties, Elections and Referendums Act 2000. Many local elections were also held on this day. The proposal to introduce AV was The United Kingdom Alternative Vote referendum, also known as the UK-wide referendum on the Parliamentary voting system, was held on Thursday 5 May

2011 in the United Kingdom to choose the method of electing MPs at subsequent general elections. It occurred as a provision of the Conservative-Liberal Democrat coalition agreement drawn up in 2010 (after a general election that had resulted in the first hung parliament since February 1974) and also indirectly in the aftermath of the 2009 expenses scandal. (AV) method and was the first national referendum to be held across the whole of the United Kingdom in the 21st century db27cc8ff8

== Classification == db27cc8ff8 Anomic aphasia db27cc8ff8

List of circulatory system conditions Ectopic pacemaker (Ectopic focus) First-degree atrioventricular block (First-degree AV block, PR prolongation) Heart block Inappropriate sinus tachycardia Jervell This is an incomplete list, which may never be able to satisfy certain standards for completion db27cc8ff8

The heart pumps blood with a rhythm determined by a group of pacemaker cells in the sinoatrial node. These generate an electric current that causes the heart to contract, traveling through... db27cc8ff8

Cannon A waves When the atria and ventricles happen to contract simultaneously, the right atrium contracts against a closed tricuspid valve, resulting in back pressure into the venous system that can be seen in the jugular venous pulse as a high-amplitude "cannon wave". condition. It is associated with heart block, in particular third-degree (complete) heart block, ventricular tachycardia, and pacemaker syndrome. 3rd Degree AV Block: This is the most intuitive cause of cannon A waves, as the definition of 3rd degree heart block is complete AV dissociation Cannon A waves, or cannon atrial waves, are waves seen occasionally in the jugular vein of humans with certain cardiac arrhythmias db27cc8ff8

Aortic regurgitation db27cc8ff8 Cardiac rhythm disturbances, such as atrial fibrillation and ventricular tachycardia db27cc8ff8 In a conventional 12-lead ECG, ten... db27cc8ff8 electrolyte disturbances, such as hypokalemia db27cc8ff8

Atropine It is typically given intravenously or by injection into a muscle. Large doses may be required to treat some poisonings. Eye drops are also available which are used to treat uveitis and early amblyopia. in treating second-degree heart block Mobitz type 1 (Wenckebach block), and also third-degree heart block with a high Purkinje or AV-nodal escape rhythm Atropine is a tropane alkaloid and anticholinergic medication used to treat certain types of nerve agent and pesticide poisonings as well as some types of slow heart rate, and to decrease saliva production during surgery. The intravenous solution usually begins working within a minute and lasts half an hour to an hour db27cc8ff8

The referendum concerned whether to replace the present "first-past-the-post" system with the "alternative vote" (AV) method and was the first national referendum to be held across the whole of the United Kingdom in the 21st century. The proposal to introduce AV was rejected by 67.9% of voters on a national turnout of 42%. The failure of the referendum was considered a humiliating setback for Liberal Democrat... db27cc8ff8 Atherosclerosis

db27cc8ff8 Atrioventricular septal defect db27cc8ff8 Apoplexy db27cc8ff8 Atrial flutter db27cc8ff8 Atrioventricular canal defect db27cc8ff8 Inadequate coronary artery blood flow, such as myocardial ischemia and myocardial infarction db27cc8ff8 In junctional rhythm, however, the sinoatrial node does not control the heart's rhythm - this can happen in the case of a block in conduction somewhere along the pathway described above, or in sick sinus syndrome, or many other situations. When this happens, the heart's atrioventricular node or bundle of His can take over as the pacemaker, starting the electrical... db27cc8ff8 Arrhythmias db27cc8ff8 == Normal venous pressure tracings == db27cc8ff8 Traditionally, "ECG" refers to a 12-lead ECG taken while lying down as discussed below. db27cc8ff8 Common side effects include dry mouth, abnormally large pupils, urinary retention, constipation, and a fast heart rate. It should generally not be used in people with closed-angle glaucoma. While there is no evidence that its use during pregnancy causes birth defects, this has not been well studied so sound clinical judgment should be used. It is likely safe during breastfeeding. It is an antimuscarinic (a type of anticholinergic) that works by inhibiting the parasympathetic nervous system. db27cc8ff8 There are many conditions of or affecting the human circulatory system — the biological system that includes the pumping and channeling of blood to and from the body and lungs with heart, blood and blood vessels. db27cc8ff8 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. db27cc8ff8 In order to appreciate an abnormality such as a cannon A wave when examining a venous pressure tracing, we must first understand what is normal. Venous pressure tracings are constructed using measurements of the right atrial filling... db27cc8ff8 Atropine occurs naturally in a number of plants of the nightshade family, including deadly nightshade (*Atropa belladonna*), jimsonweed (*Datura stramonium*), mandrake (*Mandragora officinarum*... db27cc8ff8 The P waves with a regular P-to-P interval (in other words, a sinus rhythm) represent the first rhythm. db27cc8ff8 Because the impulse is blocked, an accessory pacemaker in the lower chambers will typically activate the ventricles. This is known as an escape rhythm. Since this accessory pacemaker also activates independently of the impulse generated at the SA node, two independent rhythms can be noted on the electrocardiogram (ECG). db27cc8ff8 Aortic dissection db27cc8ff8

Third-degree atrioventricular block Third-degree atrioventricular block (AV block) is a medical condition in which the electrical impulse generated in the sinoatrial node (SA node) in the Third-degree atrioventricular block (AV block) is a medical condition in which the electrical impulse generated in the sinoatrial node (SA node) in the atrium of the heart can not propagate to the ventricles db27cc8ff8

Acute coronary syndrome db27cc8ff8 Avascular necrosis db27cc8ff8 == Cardiovascular == db27cc8ff8 Aortic stenosis db27cc8ff8 In humans, the heart is divided into four

chambers: upper left and right atria and lower left and right ventricles. Commonly, the right atrium and ventricle are referred together as the right heart and their left counterparts as the left heart. In a healthy heart, blood flows one way through the heart due to heart valves, which prevent backflow. The heart is enclosed in a protective sac, the pericardium, which also contains a small amount of fluid. The wall of the heart is made up of three layers: epicardium, myocardium, and endocardium. db27cc8ff8 Atrial septal defect db27cc8ff8

Electrocardiography These electrodes detect the small electrical changes that are a consequence of cardiac muscle depolarization followed by repolarization during each cardiac cycle (heartbeat). Changes in the normal ECG pattern occur in numerous cardiac abnormalities, including:. It is an electrogram of the heart which is a graph of voltage versus time of the electrical activity of the heart using electrodes placed on the skin. wave) Heart block and conduction problems: Sinoatrial block: first, second, and third-degree AV node First-degree AV block Second-degree AV block (Mobitz Electrocardiography is the process of using an electrocardiograph (a device) to produce an electrocardiogram (a recording, often called an ECG or EKG) that shows a line graph of the heart's electrical activity through repeated cardiac cycles db27cc8ff8

Cannon A waves can be identified either on physical exam by examining the jugular venous pulse or a venous pressure tracing. Symptoms can include pulsation in the neck and abdomen, headache, shortness of breath, fatigue, hypotension, and loss of consciousness. Cannon A waves should be differentiated from giant A waves, which may appear similar at first glance but have a unique presentation and etiology. db27cc8ff8

Valvular heart disease Auscultating her heart, a systolic murmur 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). 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. Prolapse murmur Heart sounds of a 16-year-old girl diagnosed with mitral valve prolapse and mitral regurgitation db27cc8ff8

Asymmetric septal hypertrophy (ASH) db27cc8ff8

Junctional rhythm describes an abnormal heart rhythm resulting from impulses coming from a locus of tissue in the area of the atrioventricular node (AV node), the "junction"; Junctional rhythm, also called nodal rhythm describes an abnormal heart rhythm resulting from impulses coming from a locus of tissue in the area of the atrioventricular node (AV node), the "junction" between atria and ventricles db27cc8ff8

Heart The heart and blood vessels together make up the circulatory system. different structures within the heart—some arise from the atria (e. AV nodal re-entrant tachycardia)

The heart is a muscular organ found in humans and other animals. In humans, the heart is approximately the size of a closed fist and is located between the lungs, in the middle compartment of the chest, called the mediastinum. The pumped blood carries oxygen and nutrients to the tissue, while carrying metabolic waste such as carbon dioxide to the lungs. g. This organ pumps blood through the blood vessels. atrial flutter), some from the atrioventricular node (e. g db27cc8ff8

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