

Torsades De Pointes Ecg

Unlike with thiazides, only terminal kidney failure renders xipamide ineffective. 1b463148ba Cardiac rhythm disturbances, such as atrial fibrillation and ventricular tachycardia 1b463148ba == Signs and symptoms == 1b463148ba In a conventional 12-lead ECG, ten... 1b463148ba Ventricular tachycardia can occur due to coronary heart disease, aortic stenosis, cardiomyopathy, electrolyte imbalance, or a heart attack. Diagnosis is by an electrocardiogram (ECG) showing a rate of greater than 120 beats per minute and at least three wide QRS... 1b463148ba AZCERT maintains the CredibleMeds database. Founded in 2000 at the University of Arizona as part of a network of 14 federally funded CERTs, AZCERT became a separate nonprofit corporation in 2012, funded by the US Food and Drug Administration (FDA), research grants, and charitable contributions. AZCERT focuses on drugs and drug-drug interactions, especially those that cause QT prolongation and TdP, and provides its research and its lists of QT-prolonging drugs free of charge to the public, healthcare providers, and researchers for personal, professional, and noncommercial purposes. To maintain the independence of its work, AZCERT does not receive funding from companies that have a commercial interest in medications. In 2014, AZCERT's website was renamed "CredibleMeds" to reflect its role as a globally recognized... 1b463148ba

Adams–Stokes syndrome characteristic. The ECG will show complete heart block, high grade AV block, or other malignant arrhythmia during the attacks. Subsequently, named after two Irish physicians, Robert Adams (1791–1875) and William Stokes (1804–1877), the first description of the syndrome is believed to have been published in 1717 by the Carniolan physician of Slovene descent Marko Gerbec. Torsades de Pointes can occur in Adams–Stokes syndrome, Stokes–Adams syndrome, Gerbec–Morgagni–Adams–Stokes syndrome or GMAS syndrome is a periodic fainting spell in which there is intermittent complete heart block or other high-grade arrhythmia that results in loss of spontaneous circulation and inadequate blood flow to the brain. It is characterized by an abrupt decrease in cardiac output and loss of consciousness due to a transient arrhythmia; for example, bradycardia due to complete heart block 1b463148ba

Initial treatment for severe disease is with intravenous calcium chloride and possibly magnesium sulfate. Other treatments may include vitamin D, magnesium, and calcium supplements. If due to hypoparathyroidism, hydrochlorothiazide, phosphate binders, and a low... 1b463148ba It does have action on the slow sodium channel and promotes the influx of sodium through these slow channels. 1b463148ba == History == 1b463148ba

Electrocardiography Changes in the normal ECG pattern occur in numerous cardiac abnormalities, including:. fibrillation Ventricular tachycardia (monomorphic ventricular tachycardia) Torsades de pointes (polymorphic ventricular tachycardia) Pre-excitation syndrome Lown–Ganong–Levine 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. 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. These electrodes detect the small electrical changes that are a consequence of cardiac muscle depolarization followed by repolarization during each cardiac cycle (heartbeat)

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Long QT syndrome These episodes can be triggered by exercise or stress. It results in an increased risk of an irregular heartbeat which can result in fainting, drowning, seizures, or sudden death. (arrhythmias), most commonly a form of ventricular tachycardia called Torsades de pointes (TdP). If the arrhythmia reverts to a normal rhythm spontaneously Long QT syndrome (LQTS) is a condition affecting repolarization (relaxing) of the heart after a heartbeat, giving rise to an abnormally lengthy QT interval. Some rare forms of LQTS are associated with other symptoms and signs, including deafness and periods of muscle weakness 1b463148ba

== Early life and education == 1b463148ba

Ventricular tachycardia Short periods may occur without symptoms, or present with lightheadedness, palpitations, shortness of breath, chest pain, and decreased level of consciousness. Although a few seconds of VT may not result in permanent problems, longer periods are dangerous; and multiple episodes over a short period of time are referred to as an electrical storm, which also occurs when one has a seizure (although this is referred to as an electrical storm in the brain). Ventricular tachycardia may result in ventricular fibrillation (VF) and turn into cardiac arrest. However, at the current time, the term torsades de pointes is reserved for polymorphic Ventricular tachycardia (V-tach or VT) is a cardiovascular disorder in which fast heart rate occurs in the ventricles of the heart. This conversion of the VT into VF is called the degeneration of the VT. to by its French name torsades de pointes ("twisting of the spikes"). It is found initially in about 7% of people in cardiac arrest. Ventricular tachycardia may lead to coma and persistent vegetative state due to lack of blood and oxygen to the brain 1b463148ba

Like the structurally related thiazide diuretics, xipamide acts on the kidneys to reduce sodium reabsorption in the distal convoluted tubule. This increases the osmolarity in the lumen, causing less water to be reabsorbed by the collecting ducts. This leads to increased urinary output. Unlike the thiazides, xipamide reaches its target from the peritubular side (blood side). 1b463148ba Although potassium current seems to play a role, their interactions are complex and not well understood. Ibutilide's unique mechanism works by an activation of a specific inward sodium current, thus producing... 1b463148ba

Ibutilide Because of its Class III antiarrhythmic activity, there should not be concomitant administration of Class Ia and Class III agents. It exerts its antiarrhythmic effect by induction of slow inward sodium current, which prolongs action potential and refractory period of myocardial cells. can lead to the potentially fatal abnormal heart rhythm known as torsades de pointes. Consequently, the drug is contraindicated in patients that are likely Ibutilide is a Class III antiarrhythmic agent that is indicated for acute cardioconversion of atrial fibrillation and atrial flutter of a recent onset to sinus rhythm 1b463148ba

Typically an attack occurs without warning, leading to sudden loss of consciousness. Prior to an attack, a patient may be pale with hypoperfusion. Abnormal movements may be present, typically consisting of twitching after 15–20 seconds of unconsciousness. (These movements, which are not seizures, occur because of brainstem hypoxia and not due to cortical discharge as is the case for epileptiform seizures). Breathing typically continues normally throughout... 1b463148ba The most common cause for hypocalcemia is iatrogenic hypoparathyroidism. Other causes include other forms of hypoparathyroidism, vitamin D deficiency, kidney failure, pancreatitis, calcium channel blocker overdose, rhabdomyolysis, tumor lysis syndrome, and medications such as bisphosphonates or denosumab. Diagnosis should generally be confirmed by determining the corrected calcium

or ionized calcium level. Specific changes may also be seen on an electrocardiogram (ECG). 1b463148ba Additionally, it increases the secretion of potassium in the distal tubule and collecting ducts. In high doses it also inhibits the enzyme carbonic anhydrase which leads to increased secretion of bicarbonate and alkalizes the urine. 1b463148ba Long QT syndrome may be present at birth or develop later in life. The inherited form may occur by itself or as part of a larger genetic disorder. Onset later in life may result from certain medications, low blood potassium, low blood calcium, or heart failure. Medications that are implicated include certain antiarrhythmics, antibiotics, and antipsychotics. LQTS can be diagnosed using an electrocardiogram (EKG) if a corrected QT interval of greater than 450–500 milliseconds is found, but clinical findings, other EKG features, and genetic testing may confirm the diagnosis with shorter QT intervals. 1b463148ba Inadequate coronary artery blood flow, such as myocardial ischemia and myocardial infarction 1b463148ba

Hypocalcemia 1 and 2. 6 mmol/L (8. 3–5. Otherwise symptoms may include numbness, muscle spasms, seizures, confusion, or in extreme cases cardiac arrest. the person at high risk of torsades de pointes, a specific type of ventricular tachycardia which appears on an EKG (or ECG) as something that looks a Hypocalcemia (US) or hypocalcaemia (UK) is a medical condition characterized by low calcium levels in the blood serum. 2 mEq/L), while levels less than 2. Mildly low levels that develop slowly often have no symptoms. 7 mg/dL, 4. The normal range of blood calcium is typically between 2. 8–10. 1 mmol/L are defined as hypocalcemic 1b463148ba

Management may include avoiding strenuous exercise, getting sufficient potassium in the diet, the use of beta blockers, or an implantable... 1b463148ba Most episodes will revert spontaneously to a normal sinus rhythm. Symptoms and consequences include palpitations, dizziness, lightheadedness (during shorter episodes), fainting (during longer episodes), and sudden cardiac death. 1b463148ba Badilini received a master's degree in biomedical engineering at the Polytechnic University of Milan, Italy, in 1989 under Sergio Cerutti. There he focused on aspects of heart rate variability that led to the development of computer applications that are today widely employed in the field of central nervous system analysis. He received his Ph.D. in electrical engineering from the University of Rochester in 1994 under Arthur J. Moss. His thesis was on beat-to-beat ST segment displacement assessment in Holter recordings. His major innovations related to ST segment variability analyses have given new impetus to improved quantitative analysis of noninvasive electrocardiographic recordings. His techniques and approaches are widely used. While working as a post-doctoral fellow with Philippe Coumel at Lariboisiere Hospital in Paris from 1994 to 1998, Badilini was instrumental in the development of the Holter Bin Method for assessing the effect of heart rate upon the QT interval that has been used... 1b463148ba

Torsades de pointes Torsades de pointes, torsade de pointes or torsades des pointes (TdP; also called torsades) (/tɔːr,sɑːd də 'pwæɪt/, French: [tɔʁsad də pwɛ̃t], translated Torsades de pointes, torsade de pointes or torsades des pointes (TdP; also called torsades) (, French: [tɔʁsad də pwɛ̃t], translated as "twisting of peaks") is a specific type of abnormal heart rhythm that can lead to sudden cardiac death. It is a polymorphic ventricular tachycardia that exhibits distinct characteristics on the electrocardiogram (ECG). Prolongation of the QT interval can increase a person's risk of developing this abnormal heart rhythm, occurring in between 1% and 10% of patients who receive QT-prolonging antiarrhythmic drugs. It was described by French physician François Dessertenne in 1966 1b463148ba

Xipamide Xipamide can reduce the effect of antidiabetics Xipamide () is a sulfonamide diuretic drug marketed by Eli Lilly under the trade names Aquaphor (in Germany) and Aquaphoril (in Austria). It is used for the treatment of oedema and hypertension. III), phenothiazines and other antipsychotics increase the risk of torsades de pointes due to hypokalemia 1b463148ba

Fabio Badilini Beat-to-Beat QT-TQ Interval (ECG Restitution) Changes in Humans under Normal Sinus Rhythm and Prior to an Event of Torsades de Pointes during QT Prolongation
Fabio Badilini (born 22 October 1964 in Montichiari, Brescia) is an Italian scientist and businessman. He has made contributions to noninvasive electrocardiography 1b463148ba

electrolyte disturbances, such as hypokalemia 1b463148ba Ibutilide, like other class III antiarrhythmic drugs, blocks delayed rectified potassium current. 1b463148ba == Mechanism of action == 1b463148ba == Mechanism of action == 1b463148ba Ibutilide is marketed as Corvert by Pfizer. Administration resulted in successful heart rhythm control in 31-44% of patients within 90 minutes, with sustained polymorphic ventricular tachycardia in 0.9-2.5% of patients. It appears to show better results in atrial flutter as compared to atrial fibrillation. 1b463148ba However, other devices can record the electrical activity of the heart, such as a Holter monitor or some models of smartwatch. 1b463148ba == Signs and symptoms == 1b463148ba ECG signals can also be recorded in other contexts with other devices. 1b463148ba

CredibleMeds AZCERT maintains CredibleMeds is an online database launched in 2009 by the nonprofit Arizona Center for Education and Research (AZCERT), as part of its mission to improve the safe use of medications. The website has a special focus on drugs that prolong the QT interval on the ECG and thereby carry the risk of QT prolongation and torsades de pointes (TdP) ventricular arrhythmia. drugs that prolong the QT interval on the ECG and thereby carry the risk of QT prolongation and torsades de pointes (TdP) ventricular arrhythmia 1b463148ba

Traditionally, "ECG" refers to a 12-lead ECG taken while lying down as discussed below. 1b463148ba

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