

Does Hydralazine Lower Heart Rate

Vasodilation Vasodilation is the opposite of vasoconstriction, which is the narrowing of blood vessels. allowing the vessel to dilate (widen).

Blood vessel walls are composed of endothelial tissue and a basal membrane lining the lumen of the vessel, concentric smooth muscle layers on top of endothelial tissue, and an adventitia over the smooth muscle layers. It results from relaxation of smooth muscle cells within the vessel walls, in particular in the large veins, large arteries, and smaller arterioles. hydralazine minoxidil

Hydralazine may cause headaches, swelling around the eyes, heart palpitations or aches and pains Vasodilation, also known as vasorelaxation, is the widening of blood vessels. Relaxation of the smooth muscle layer allows the blood vessel to dilate, as it is held in a semi-constricted state by sympathetic nervous system activity b5b587e51e

Aortic stenosis If heart failure, loss of consciousness, or heart related chest pain occur due to AS, the outcomes are worse, with mortality of 50% at 2-5 years in the absence of valve

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replacement. Loss of consciousness typically occurs with standing or exercising. Note that all of these substances lead to peripheral vasodilation.

Aortic stenosis typically gets worse over time. Much more rarely stenosis can occur below the aortic valve or above it. They often come on gradually, with a decreased ability to exercise often occurring first. Under Aortic stenosis (AS or AoS) is the narrowing of the outlet of the main pumping chamber of the heart, the left ventricle (LV) (where the aorta begins). Typical symptoms are shortness of breath on exertion, chest pain (angina) and dizziness or blackouts on exertion (syncope). Signs of heart failure include shortness of breath especially when lying down, at night, or with. include nitroglycerin, nitrates, ACE inhibitors, terazosin (Hytrin), and hydralazine. The most common form of AS involves the aortic valve, which separates the LV from the aorta. If the narrowing is severe (very tight) the extra work required from the left ventricle to pump the blood against the increased resistance of a small orifice may cause (initially adaptive) thickening of the heart muscle, followed by severe weakness of the heart (heart failure) b5b587e51e

Bradycardia While bradycardia can result from various pathological processes, it is commonly a physiological response to cardiovascular conditioning or due to asymptomatic type 1

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atrioventricular block. population studies of adults without underlying heart disease, resting heart rates of 45–50 BPM appear to be the lower limits of normal, dependent on age and sex Bradycardia (from Ancient Greek βραδύς (bradús) 'slow' and καρδία (kardía) 'heart'), also called bradyarrhythmia, is a resting heart rate under 60 beats per minute (BPM) b5b587e51e

Aortic regurgitation As a consequence, the cardiac muscle is forced to work harder than normal. ACE inhibitors or angiotensin II receptor antagonists, nifedipine, and hydralazine in improving left ventricular wall stress, ejection fraction, and mass Aortic regurgitation (AR), also known as aortic insufficiency (AI), is the leaking of the aortic valve of the heart that causes blood to flow in the reverse direction during ventricular diastole, from the aorta into the left ventricle b5b587e51e

Resting heart rates of less than 50 BPM are often normal during sleep in young and healthy adults and athletes. In large population studies of adults without underlying heart disease, resting heart rates of 45–50 BPM appear to be the lower limits of normal, dependent on age and sex. Bradycardia is most likely to be discovered in the elderly, as age and underlying cardiac disease progression contribute to its development. b5b587e51e Which type of medication to use initially for hypertension

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has been the subject of several large studies and resulting national guidelines. The fundamental goal of treatment should be the prevention of the important endpoints of hypertension, such as heart attack, stroke and heart failure. Patient age, associated clinical conditions and end-organ damage also play... Common causes of heart failure include coronary artery disease, heart attack, high blood pressure, atrial fibrillation, valvular heart disease, excessive alcohol consumption, infection, and cardiomyopathy. These cause heart failure by altering the structure or the function of the heart or in some cases both.

There are different types of heart failure: right-sided heart failure, which affects the right heart, left-sided heart failure, which affects the left heart, and biventricular heart failure, which affects both sides of the heart. Left-sided heart failure may be present with a reduced ejection fraction or with...

== Signs and symptoms ==
PPCM is a diagnosis of exclusion, wherein patients have no prior history of heart disease and there are no other known possible causes of heart failure. Echocardiography is used to both diagnose and monitor the effectiveness of treatment for PPCM. ==
Specializations == By expanding available area for blood to...

Cardiology trials include: V-HeFT (1986) — use of

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vasodilators (hydralazine and isosorbide dinitrate) in heart failure ISIS-2 (1988) — use of aspirin in myocardial Cardiology (from Ancient Greek καρδιά (kardiā) 'heart' and -λογία (-logia) 'study') is the study of the heart. The field includes medical diagnosis and treatment of congenital heart defects, coronary artery disease, heart failure, valvular heart disease, and electrophysiology.

Pediatric cardiologists are pediatricians who specialize in cardiology. Cardiology is a branch of medicine that deals with disorders of the heart and the cardiovascular system, and it is a sub-specialty of internal medicine. Physicians who specialize in cardiac surgery are called cardiothoracic surgeons or cardiac surgeons, a specialty of general surgery. Physicians who specialize in this field of medicine are called cardiologists b5b587e51e

Hypertension High blood pressure usually does not cause symptoms itself. It is, however, a major risk factor for stroke, coronary artery disease, heart failure, atrial fibrillation Hypertension, also known as high blood pressure, is a long-term medical condition in which the blood pressure in the arteries is persistently elevated. Hypertension is a major cause of premature death worldwide. It is, however, a major risk factor for stroke, coronary artery disease, heart failure, atrial fibrillation, peripheral arterial disease, vision loss, chronic kidney disease, and dementia. blood pressure

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usually does not cause symptoms itself
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Hypertensive emergency to decrease systemic vascular resistance and subsequently lower blood pressure. Blood pressure is often above 200/120 mmHg, however there are no universally accepted cutoff values. Hydralazine and Sodium nitroprusside are systemic vasodilators, thereby A hypertensive emergency is very high blood pressure with potentially life-threatening symptoms and signs of acute damage to one or more organ systems (especially brain, eyes, heart, aorta, or kidneys). It is different from a hypertensive urgency by this additional evidence for impending irreversible hypertension-mediated organ damage (HMOD) b5b587e51e

Antihypertensive Hydralazine and its derivatives are also used in the treatment of severe hypertension Antihypertensives are a class of medications that are used to treat hypertension (high blood pressure). in emergencies (such as malignant hypertension or aortic dissection). Antihypertensive therapy seeks to prevent the complications of high blood pressure, such as stroke, heart failure, kidney failure and myocardial infarction. It can reduce the likelihood of dementia, heart failure, and mortality from cardiovascular disease. There are many classes of

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antihypertensives, which lower blood pressure by different means. Among the most important and most widely used medications are thiazide diuretics, calcium channel blockers, angiotensin-converting enzyme inhibitors (ACE inhibitors), angiotensin II receptor blockers or antagonists (ARBs), and beta blockers. Evidence suggests that a reduction of blood pressure by 5 mmHg can decrease the risk of stroke by 34% and of ischaemic heart disease by 21% b5b587e51e

== Signs and symptoms == b5b587e51e

Peripartum cardiomyopathy In essence, the heart muscle cannot contract forcefully enough to pump adequate amounts of blood for the needs of the body's vital organs. during the postpartum period as long as breastfeeding is not occurring.

Hydralazine with nitrates may replace ACE-I in breastfeeding mothers or before delivery;

Peripartum cardiomyopathy (PPCM), sometimes referred to as Post-partum cardiomyopathy, is a form of dilated cardiomyopathy that is defined as a deterioration in cardiac function presenting typically between the last month of pregnancy and up to six months postpartum. As with other forms of dilated cardiomyopathy, PPCM involves systolic dysfunction of the heart with a decrease of the left ventricular ejection fraction (EF) with associated congestive heart failure and an increased risk of

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atrial and ventricular arrhythmias,
thromboembolism (blockage of a blood vessel by a
blood clot), and even sudden cardiac death
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Although symptoms vary based on which side of
the heart is affected, HF typically presents with
shortness of breath, excessive fatigue, and
bilateral leg swelling. The severity of the heart
failure is mainly decided based on ejection fraction
and also measured by the severity of symptoms.

Other conditions that have symptoms similar to
heart failure include obesity, kidney failure, liver
disease, anemia, and thyroid disease. b5b587e51e

Symptoms of aortic regurgitation are similar to
those of heart failure and include the following:

b5b587e51e All cardiologists in the branch of
medicine study the disorders of the heart, but the
study of adult and child heart disorders each
requires different training pathways. Therefore, an
adult cardiologist (often simply called

"cardiologist") is inadequately trained to take care
of children, and pediatric cardiologists are not
trained to treat adult heart disease. Surgical
aspects outside of cardiac rhythm device implant
are not included in cardiology and are in...

b5b587e51e Blood pressure is classified by two
measurements, the systolic (first number) and
diastolic (second number) pressures. For...

b5b587e51e The cause of PPCM is unknown.

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Currently, researchers are investigating cardiotropic viruses, autoimmunity or immune system dysfunction, other toxins that serve as triggers to immune system dysfunction...

b5b587e51e When blood vessels dilate, the flow of blood is increased due to a decrease in vascular resistance and increase in cardiac output. Vascular resistance is the amount of force circulating blood must overcome in order to allow perfusion of body tissues. Narrow vessels create more vascular resistance, while dilated vessels decrease vascular resistance. Vasodilation acts to increase cardiac output by decreasing afterload, –one of the four determinants of cardiac output. b5b587e51e

Bradycardia may be associated with symptoms of fatigue, dyspnea, dizziness, confusion, and syncope due to reduced blood flow to the brain.

The types of symptoms often depend on the etiology of the slow heart rate, classified by the anatomical location of a dysfunction within the cardiac conduction system. Generally, these classifications involve the broad categories of sinus node dysfunction (SND), atrioventricular...

b5b587e51e High blood pressure is classified as primary (essential) hypertension or secondary hypertension. About 90–95% of cases are primary, defined as high blood pressure due to non-specific lifestyle and genetic factors. Lifestyle factors that increase the risk include excess salt in the diet, excess body weight, smoking, physical inactivity,

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and alcohol use. The remaining 5–10% of cases are categorized as secondary hypertension, defined as high blood pressure due to a clearly identifiable cause, such as chronic kidney disease, narrowing of the kidney arteries, an endocrine disorder, or the use of birth control pills.

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Heart failure In 2011, nonhypertensive heart failure was one of the 10 Heart failure (HF), also known as congestive heart failure (CHF), is a syndrome caused by an impairment in the heart's ability to fill with and pump blood. including vasodilators like hydralazine; renin-angiotensin system inhibitors; and beta-blockers b5b587e51e

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