

Raynaud Phenomenon

Calcium Channel Blockers

Amlodipine was patented in 1982, and approved for medical use in 1990. It is on the World Health Organization's List of Essential Medicines. It is available as a generic medication. In 2023, it was the fifth most commonly prescribed medication in the United States, with more than 68 million prescriptions. In Australia, it was one of the top 10 most prescribed medications between 2017 and 2023. bb4b062743

Adrenergic blocking agents treat certain diseases through blocking the adrenergic receptor, preventing it from being activated by noradrenaline and adrenaline. As a result, it stops the body from producing the fight-or-flight response. bb4b062743 Amlodipine...

bb4b062743 == Medical uses == bb4b062743 Alpha blockers can treat a small range of diseases such as hypertension, Raynaud's disease, benign prostatic hyperplasia (BPH) and erectile dysfunction. Generally speaking, these treatments function by binding an α -blocker to α receptors in the arteries and smooth muscle. Ultimately, depending on the type of alpha receptor, this relaxes the smooth muscle or blood

vessels, which increases fluid flow in these entities.
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Raynaud syndrome The American Journal of Cardiology
Raynaud syndrome, also known as Raynaud's phenomenon, is a medical condition in which the spasm of small arteries causes episodes of reduced blood flow to end arterioles. Rodeheffer RJ (January 1985). The condition is named after the physician Auguste Gabriel Maurice Raynaud, who first described it in his doctoral thesis in 1862. The episodes typically last minutes but can last several hours. The episodes classically result in the affected part turning white and then blue. "Raynaud's phenomenon: pathophysiologic features and treatment with calcium-channel blockers". Typically the disease affects the fingers, and, less commonly, the toes, though it rarely also affects the nose, ears, nipples, or lips. As blood flow returns, the area turns red and burns. Often, numbness or pain occurs bb4b062743

Adrenergic neuron blockers concentration of calcium and the release of neurotransmitters, resulting in smooth muscle dilation. They work by inhibiting the synthesis, release, or reuptake of the neurotransmitters or by antagonising the receptors on postsynaptic neurones. Their medical uses, mechanisms of action, adverse effects, and contraindications depend on the specific types of adrenergic blockers used, including alpha 1, alpha 2,

beta 1, and beta 2. They prevent the action or release of catecholamines such as norepinephrine and epinephrine. Beta 1 blockers Beta 1 blockers bind to the beta 1 Adrenergic neurone blockers, commonly known as adrenergic antagonists, are a group of drugs that inhibit the sympathetic nervous system by blocking the activity of adrenergic neurones. They are located throughout the body, causing various physiological reactions including bronchodilation, accelerated heartbeat, and vasoconstriction
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It was patented in 1973 and approved for medical use in 1981. Nicardipine was approved by the FDA in December... bb4b062743

Beta blocker Beta blockers are utilized in the treatment of various conditions related Beta blockers, also spelled β -blockers and also sometimes known as β -adrenergic receptor antagonists, are a class of medications predominantly used to manage abnormal heart rhythms (arrhythmia) and to protect the heart from a second heart attack after the first one (secondary prevention). They can also be used to treat anxiety - a notable example being the situational use of propranolol to help dampen the physical symptoms of performance anxiety. , ACE inhibitors), or calcium channel blockers. g. the renin-angiotensin system (e. They are also used widely to treat high blood pressure, though they are no longer the first choice for initial

treatment of most people bb4b062743

Historically, alpha-blockers were used as a tool for pharmacologic research to develop a greater understanding of the autonomic nervous system. Using alpha blockers, scientists began characterizing arterial blood pressure and central vasomotor control in the autonomic nervous system. Today, they can be used as clinical treatments for a limited number of diseases. bb4b062743

Amlodipine Evidence from two Amlodipine, sold under the brand name Norvasc among others, is a calcium channel blocker medication used to treat high blood pressure, coronary artery disease (CAD) and variant angina (also called Prinzmetal angina or coronary artery vasospasm, among other names). 6-17 years of age. It is taken orally (swallowed by mouth). Calcium channel blockers, including amlodipine, may provide greater protection against stroke than beta blockers bb4b062743

== Medical uses == bb4b062743

Adrenergic blocking agent These chemicals will act on adrenergic receptors, with subtypes alpha-1, alpha-2, beta-1, beta-2, and beta-3, which ultimately allow the body to trigger a fight-or-flight response to handle external stress. The sympathetic nervous system is an autonomic nervous system that we cannot control by will. The combination Adrenergic blocking agents are a

class of drugs that exhibit its pharmacological action through inhibiting the action of the sympathetic nervous system (SNS) in the body. Additionally, heart rate and contractile force increases when the SNS is activated, which may be harmful to cardiac function as it increases metabolic demand. These responses include vessel constriction in general vessels whereas there is vasodilation in vessels that supply skeletal muscles or in coronary vessels. taking beta-1 blockers with other antihypertensive drugs such as nitrates, PDE inhibitors, ACE inhibitors and calcium channel blockers. It triggers a series of responses after the body releases chemicals named noradrenaline (norepinephrine) and adrenaline (epinephrine)
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Common side effects include swelling, feeling tired, abdominal pain, and nausea. Serious side effects may include low blood pressure or heart attack. Whether use is safe during pregnancy or breastfeeding is unclear. When used by people with liver problems, and in elderly individuals, doses should be reduced. Amlodipine works partly by vasodilation (relaxing the arteries and increasing their diameter). It is a long-acting calcium channel blocker of the dihydropyridine type. bb4b062743 Cerebral vasospasm may arise in the context of subarachnoid hemorrhage as symptomatic vasospasm (or delayed cerebral ischemia), where it is a major contributor to post-operative stroke and mortality. Vasospasm typically

appears 4 to 10 days after subarachnoid hemorrhage, however the relationship between radiological arterial spasm (seen on angiography) and clinical neurological deterioration is nuanced and uncertain. bb4b062743 Common side effects include lightheadedness, headache, feeling tired, leg swelling, cough, and shortness of breath. Serious side effects may include low blood pressure and heart failure. Nifedipine is considered safe in pregnancy and breastfeeding. bb4b062743 Its mechanism of action and clinical effects closely resemble those of nifedipine and the other dihydropyridine calcium channel blockers (amlodipine, felodipine), except that nicardipine is more selective for cerebral and coronary blood vessels. It is primarily a peripheral arterial vasodilator, thus unlike the nitrovasodilators (nitroglycerin and nitroprusside), cardiac preload is minimally affected. It has the longest duration among parenteral CCBs. As its use may lead to reflex tachycardia, it is advisable to use it in conjunction with a beta-blocker. In the setting of a ruptured brain aneurysm, nicardipine may be used (if nimodipine is unavailable) to reduce blood pressure and as prevention or treatment against cerebral vasospasm. bb4b062743

Cilnidipine L-type and N-type calcium channel blocking functions. Cilnidipine is approved for use in Japan, China, India, Nepal, and Korea for hypertension. Unlike other calcium antagonists, cilnidipine can act on the N-type calcium channel in addition to Cilnidipine is a

calcium channel blocker bb4b062743

Alpha blocker hypertension such as ACE inhibitors, ARBs, calcium channel blockers, thiazide diuretics or beta blockers, alpha blockers have not demonstrated the same mortality Alpha blockers, also known as α -blockers or α -adrenoreceptor antagonists, are a class of pharmacological agents that act as antagonists on α -adrenergic receptors (α -adrenoceptors) bb4b062743

Blood pressure control with cilnidipine treatment in Japanese post-stroke hypertensive patients [The CA-ATTEND study] - the results of a large-scale prospective post-marketing surveillance... bb4b062743
It was patented in 1984 and approved for medical use in 1995. Cilnidipine is currently being repurposed and developed for use in patients with Raynaud's phenomenon and systemic sclerosis by Aisa Pharma, a US biopharma development company. bb4b062743
== Medical uses == bb4b062743 == Medical uses == bb4b062743

Nicardipine It is available in by mouth and intravenous formulations. It belongs to the dihydropyridine class of calcium channel blockers (CCBs). It has been used in percutaneous coronary intervention. belongs to the dihydropyridine class of calcium channel blockers (CCBs). It is available in by mouth and intravenous Nicardipine (Cardene) is a medication used to treat angina and hypertension, especially for hemorrhagic

stroke patients. It is also used for Raynaud's phenomenon. It is also used for Raynaud's phenomenon

Along with physical resistance, vasospasm is a main cause of ischemia. Like physical resistance, vasospasms can occur due to atherosclerosis. Vasospasm is the major cause of Prinzmetal's angina.

Classification

β -adrenergic receptors are found on cells of the heart muscles, smooth muscles, airways, arteries, kidneys, and other tissues that are part of the sympathetic nervous system and lead to stress responses, especially when they are stimulated by epinephrine (adrenaline). Beta blockers interfere with the binding to the receptor of epinephrine...

Episodes are typically triggered by cold or emotional stress. Primary Raynaud's is idiopathic (spontaneous and of unknown cause) and not correlated with another disease. Secondary Raynaud's is diagnosed given the presence of an underlying condition and typically is associated with an older age of onset.

There are various labeled uses of adrenergic neurone blockers that are approved by the Food and Drug Administration (FDA), alongside some off-label uses.

Vasospasm antagonists (more commonly known as beta blockers or β -blockers) such as propranolol. This can lead to tissue ischemia (insufficient blood flow)

and tissue death (necrosis). L-type calcium channel blockers can induce dilation of the coronary arteries. Vasospasm refers to a condition in which an arterial spasm leads to vasoconstriction bb4b062743

Cilnidipine decreases blood pressure and is used to treat hypertension and its comorbidities. Due to its blocking action at the N-type and L-type calcium channel, cilnidipine dilates both arterioles and venules, reducing the pressure in the capillary bed. Cilnidipine is vasoselective and has a weak direct dromotropic effect, a strong vasodepressor effect, and an arrhythmia-inhibiting effect. bb4b062743 == Pathophysiology == bb4b062743 Normally endothelial cells release prostacyclin and nitric oxide (NO) which induce relaxation of the smooth muscle cells, and reduce aggregation of platelets. Aggregating platelets stimulate ADP to act on endothelial cells and help them induce relaxation of the smooth muscle cells. However, aggregating platelets also stimulate thromboxane A₂ and serotonin which can induce contraction... bb4b062743

Nifedipine Nifedipine is taken by mouth and comes in fast- and slow-release formulations. It is a calcium channel blocker of the dihydropyridine type. Procardia among others, is a calcium channel blocker medication used to manage angina, high blood pressure, Raynaud's phenomenon, and premature labor. Its use in preterm labor may allow more time for

steroids to improve the baby's lung function and provide time for transfer of the mother to a well-qualified medical facility before delivery. It is one of the treatments of choice for Prinzmetal angina/ variant angina. It Nifedipine (nə-FEH-də-peen), sold under the brand name Procardia among others, is a calcium channel blocker medication used to manage angina, high blood pressure, Raynaud's phenomenon, and premature labor. It may be used to treat severe high blood pressure in pregnancy bb4b062743

There are drugs that are... bb4b062743 In comparison to primary Raynaud's, episodes of secondary Raynaud's are more likely to be painful and asymmetric and to progress to digital ulcerations. Secondary Raynaud's can be due to a connective-tissue disorder such as scleroderma... bb4b062743 It is a calcium antagonist accompanied with L-type and N-type calcium channel blocking functions. Unlike other calcium antagonists, cilnidipine can act on the N-type calcium channel in addition to acting on the L-type calcium channel. bb4b062743 Beta blockers are competitive antagonists that block the receptor sites for the endogenous catecholamines epinephrine (adrenaline) and norepinephrine (noradrenaline) on adrenergic beta receptors, of the sympathetic nervous system, which mediates the fight-or-flight response. bb4b062743 Nifedipine was patented in 1967 and approved for use in the United States in 1981. It is on the World Health Organization's List of Essential

Medicines. It is available as a generic medication. In 2023, it was the 120th most commonly prescribed medication in the United States... bb4b062743

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