

How To Lower Ldl Without Medication

Alirocumab is used as a second-line treatment to lower LDL cholesterol for adults who have a severe form of hereditary high cholesterol and people with atherosclerosis who require additional lowering of LDL cholesterol when diet and statin treatment have not worked. It is administered by subcutaneous injection. As of July 2015, it is not known whether alirocumab prevents early death from cardiovascular disease or prevents heart attacks; a clinical trial to determine outcomes was ongoing at that time, the results... 90a9ba22cc Low-density lipoprotein (LDL) carriers of cholesterol play a key role in the development of atherosclerosis and coronary heart disease via the mechanisms described by the lipid hypothesis. As lipid-lowering medications, statins are effective in lowering apolipoprotein B and LDL cholesterol; they are widely used for primary prevention in people at high risk of cardiovascular disease, as well as in secondary prevention for those who have cardiovascular disease. Statins reduce the risk of myocardial infarction and stroke. 90a9ba22cc François Poulletier de la Salle first identified cholesterol in solid form in gallstones in 1769. In 1815, chemist Michel Eugène Chevreul named the compound "cholesterine". 90a9ba22cc Common side effects include nasopharyngitis (cold), injection site reactions, and influenza. 90a9ba22cc

Diabetes medication pramlintide and others) are administered by injection. (Semaglutide is available both as a pill and as an injection.) There are different classes of hypoglycemic drugs, and selection of the appropriate agent depends on the nature of the diabetes (Type I vs Type II), the age and situation of the person, as well as other patient factors. Other anti-diabetes medications (including semaglutide as Rybelsus) are administered orally and are thus Drugs used in diabetes treat types of diabetes mellitus by decreasing glucose levels in the blood. Most GLP-1 receptor agonists (liraglutide, exenatide, tirzepatide, pramlintide and others) are administered by injection. Other anti-diabetes medications (including semaglutide as Rybelsus) are administered orally and are thus called oral hypoglycemic agents or oral antihyperglycemic agents 90a9ba22cc

FH is classified as a type 2 familial dyslipidemia. There are five types of familial dyslipidemia (not including subtypes), and each are classified from both the altered lipid profile and by the genetic abnormality. For example, high LDL (often due to LDL receptor defect) is type 2. Others include defects in chylomicron metabolism, triglyceride metabolism, and the metabolism of other... 90a9ba22cc Type 1 diabetes is an endocrine disorder characterized by hyperglycemia due to autoimmune destruction of insulin-secreting pancreatic beta cells. Insulin is a hormone needed by cells to take in glucose from the blood. Insufficient levels of insulin due to Type 1 diabetes can lead to chronic hyperglycemia and eventual multiorgan damage, resulting in renal, neurologic, cardiovascular, and other serious complications. The treatment for Type 1 diabetes involves regular insulin injections. 90a9ba22cc == Medical uses == 90a9ba22cc Atorvastatin was patented in 1986, and approved for medical use in the United States in 1996. It is on the World Health Organization's List of Essential Medicines. It is available as a generic medication. In 2024, it was the most commonly... 90a9ba22cc Simvastatin is an HMG-CoA reductase inhibitor or statin. It works by blocking an enzyme that is necessary for the body to make cholesterol. Generic versions were approved in 2017. The combination preparation is marketed by Merck & Co. under the trade names Vytorin in the US and Inegy in the European Union. In 2018, it was the 349th most commonly prescribed medication in the United States, with more than 800 thousand prescriptions.

90a9ba22cc Elevated LDL is an established causal factor for the development of... 90a9ba22cc

Patient adherence degree to which a person correctly follows medical advice. Concordance is the process by which a patient and clinician make decisions together about treatment. Patient compliance and patient adherence may be used interchangeably but adherence emphasizes the role of the patient in decision-making and factors that influence the ability to follow instructions. Most commonly, it refers to medication or drug compliance, but it can also apply to other situations such as medical device use, self care, self-directed exercises, therapy sessions, or medical follow-up visits. Most commonly, it refers to medication or drug compliance, but it can also apply to other situations In medicine, patient adherence describes the degree to which a person correctly follows medical advice. Differences in terminology reflect regional variation, deliberate distinctions, and the preferences of various groups and organizations 90a9ba22cc

The word cholesterol comes from Ancient Greek χολή (kholé , 'bile') and στερεός (stereos, 'solid'), followed by the chemical suffix -ol for an... 90a9ba22cc Side effects of statins include an increased risk of muscle pain, a slightly increased risk of diabetes, and abnormal blood levels of certain liver enzymes in some people. Additionally, they rarely cause severe adverse effects, particularly muscle damage, and very rarely rhabdomyolysis. 90a9ba22cc It was approved for medical use in the United States and in the European Union in 2015. 90a9ba22cc They act by inhibiting the enzyme HMG-CoA reductase, which plays a central role in cholesterol production. High cholesterol levels in the blood have been associated with cardiovascular... 90a9ba22cc Type 2 diabetes, the most common type... 90a9ba22cc

Atorvastatin For the prevention of cardiovascular disease, statins are a first-line treatment in reducing cholesterol. plasma concentrations of statin medications, but do not affect the LDL-C-lowering efficacy. Niacin also is proved to increase the risk of myopathy or Atorvastatin, sold under the brand name Lipitor among others, is a statin medication used to prevent cardiovascular disease in those at high risk and to treat abnormal lipid levels. It is taken by mouth 90a9ba22cc

PCSK9 As with many proteins, PCSK9 is inactive when first synthesized, because a section of peptide chains blocks their activity; proprotein convertases remove that section to activate the enzyme. for lowering LDL-particle concentrations when statins and other drugs were not sufficiently effective or poorly tolerated. Similar genes (orthologs) are found across many species. The PCSK9 gene also contains one of 27 loci associated with increased risk of coronary artery disease. It is the 9th member of the proprotein convertase family of proteins that activate other proteins. While these medications are Proprotein convertase subtilisin/kexin type 9 (PCSK9) is an enzyme encoded by the PCSK9 gene in humans on chromosome 1 90a9ba22cc

Statin They are typically prescribed to people who are at high risk of cardiovascular disease. As lipid-lowering medications, statins are effective in lowering apolipoprotein B and LDL cholesterol; they are widely used for Statins (or HMG-CoA reductase inhibitors) are a class of medications that lower the concentration of cholesterol in the blood. by the lipid hypothesis 90a9ba22cc

Cholesterol is biosynthesized by all animal cells and is an essential structural and signaling component of animal cell membranes. In vertebrates, hepatic cells typically produce the greatest amounts. In the brain, astrocytes produce cholesterol and transport it to neurons. It is absent among prokaryotes (bacteria and archaea), although there are some exceptions, such as Mycoplasma, which require cholesterol for growth. Cholesterol also serves as a precursor for the

biosynthesis of steroid hormones, bile acid, and vitamin D. 90a9ba22cc

Ezetimibe/simvastatin It is a combination of ezetimibe (known as Zetia in the United States) and the statin drug simvastatin (known as Zocor in the US). Cholesterol Likely To Achieve Greater LDL-Cholesterol Reductions". Medical News Today. September 4, 2006. "VYTORIN Superior to Lipitor at Lowering LDL Cholesterol Ezetimibe/simvastatin is a drug combination used for the treatment of dyslipidemia 90a9ba22cc

Pregnancy and breast feeding 90a9ba22cc == Contraindications == 90a9ba22cc Elevated levels of cholesterol in the blood, especially when bound to low-density lipoprotein (LDL, often referred to as "bad cholesterol"), may increase the risk of cardiovascular disease. 90a9ba22cc

Alirocumab It is a human monoclonal antibody that belongs to a novel class of anti-cholesterol drugs, known as PCSK9 inhibitors, and it was the first such agent to receive FDA approval. European Union in 2015. The FDA approval was contingent on the completion of further clinical trials to better determine efficacy and safety. Alirocumab is used as a second-line treatment to lower LDL cholesterol for adults who have a severe form of hereditary high cholesterol Alirocumab, sold under the brand name Praluent, is a medication used as a second-line treatment for high cholesterol for adults whose cholesterol is not controlled by diet and statin treatment 90a9ba22cc

Common side effects may include diarrhea, heartburn, nausea, muscle pain (typically mild and dose-dependent) and, less frequently, joint pain. Muscle symptoms often occur during the first year and are commonly influenced by pre-existing health issues and the nocebo effect. Most patients can continue therapy with dose adjustment or statin switching. Rare (<0.1%) but serious side effects may include rhabdomyolysis (severe muscle disorder), liver problems and diabetes. Use during pregnancy may harm the fetus. Like all statins, atorvastatin works by inhibiting HMG-CoA reductase, an enzyme found in the liver that plays a role in producing cholesterol.

90a9ba22cc Worldwide, non-compliance is a major obstacle to the effective delivery of health...

90a9ba22cc == Etymology == 90a9ba22cc PCSK9 is ubiquitously expressed in many tissues and cell types. PCSK9 binds to and degrades the receptor for low-density lipoprotein particles (LDL), which typically transport 3,000 to 6,000 fat molecules (including cholesterol) per particle, within extracellular fluid. The LDL receptor (LDLR), on liver and other cell membranes, binds and initiates ingestion of LDL-particles from extracellular fluid into cells and targets the complex to lysosomes for destruction. If PCSK9 is blocked, the LDL-LDLR complex separates during trafficking, with the LDL digested in the lysosome, but the LDLRs instead recycled back to the cell surface...

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Low-density lipoprotein Low-density lipoprotein (LDL) is one of the five major groups of lipoprotein that transport all fat molecules around the body in extracellular water. LDL delivers fat molecules to cells. These groups, from least dense to most dense, are chylomicrons (aka ULDL by the overall density naming convention), very low-density lipoprotein (VLDL), intermediate-density lipoprotein (IDL), low-density lipoprotein (LDL) and high-density lipoprotein (HDL). Low-density lipoprotein (LDL) is one of the five major groups of lipoprotein that transport all fat molecules around the body in extracellular water 90a9ba22cc

Cholesterol of cholesterol in the blood, especially when bound to low-density lipoprotein (LDL, often referred to as "bad cholesterol"), may increase the risk of cardiovascular Cholesterol is the principal sterol of all animals, distributed in body tissues, especially the brain

and spinal cord, and in animal fats and oils 90a9ba22cc

Ezetimibe reduces blood cholesterol by acting at the brush border of the small intestine and inhibiting the absorption of cholesterol, leading to a decrease in the delivery of intestinal cholesterol to the liver. 90a9ba22cc Lipoproteins transfer lipids (fats) around the body in the extracellular fluid, making fats available to body cells for receptor-mediated endocytosis. Lipoproteins are complex particles composed of multiple proteins, typically 80–100 proteins per particle (organized by a single apolipoprotein B for LDL and the larger particles). A single LDL particle is about 22–27.5 nanometers in diameter, typically transporting 3,000 to 6,000 fat molecules per particle and varying in size according to the number and mix of fat molecules contained within. The lipids carried include all fat molecules with cholesterol, phospholipids, and triglycerides dominant; amounts of each vary considerably. 90a9ba22cc Acute liver disease 90a9ba22cc

Familial hypercholesterolemia Since the underlying body biochemistry is slightly different in individuals with FH, their high cholesterol levels are less responsive to the kinds of cholesterol control methods which are usually more effective in people without FH (such as dietary modification and statin tablets). The most common mutations diminish the number of functional LDL receptors in the liver or produce abnormal LDL receptors that never go to the cell surface to function properly (abnormal trafficking). Since the Familial hypercholesterolemia (FH) is a genetic disorder characterized by high cholesterol levels, specifically very high levels of low-density lipoprotein cholesterol (LDL cholesterol), in the blood and early cardiovascular diseases. Nevertheless, treatment (including higher statin doses and PCSK9 inhibitors) is usually effective. functional LDL receptors in the liver or produce abnormal LDL receptors that never go to the cell surface to function properly (abnormal trafficking) 90a9ba22cc

Both patient and health-care provider affect adherence, and a positive physician-patient relationship is the most important factor in improving compliance. Access to care plays a role in patient adherence, whereby greater wait times to access care contributing to greater absenteeism. The cost of prescription medication and potential side effects also play a role. 90a9ba22cc

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