

Statins And Side Effects

== Adverse effects == Common side effects include abdominal pain, nausea, headaches, and muscle pains. Serious side effects may include rhabdomyolysis, liver problems, and diabetes. Use during pregnancy may harm the baby. Like all statins, rosuvastatin works by inhibiting HMG-CoA reductase, an enzyme found in the liver that plays a role in producing cholesterol. In the mid-19th century, a German pathologist named Rudolf Virchow discovered that cholesterol was to be found in the artery walls of people that died from occlusive vascular diseases, like myocardial infarction. The cholesterol was found to be responsible for the thickening of the arterial walls and thus decreasing the radius in the arteries which leads in most cases to hypertension and increased risk of

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occlusive vascular diseases. e2f390a7f0 == Medical uses == e2f390a7f0 == Medical uses == e2f390a7f0 The exact cause is unclear. A combination of consistent findings on physical examination, the presence of anti HMG-CoA reductase antibodies in a person with myopathy, evidence of muscle breakdown, and muscle biopsy diagnose SAAM. e2f390a7f0 Kowa Pharmaceuticals, a subsidiary of Kowa Company, is the owner of the American patent to pitavastatin. e2f390a7f0

Fibrate Drug In pharmacology, the fibrates are a class of amphipathic carboxylic acids and esters. lipophilic statins are less prone to cause this reaction, and are probably safer to be combined with fibrates than the more lipophilic statins are. They are used for a range of metabolic disorders, mainly hypercholesterolemia (high cholesterol), and are therefore hypolipidemic agents. They are derivatives of fibric acid (phenoxyisobutyric acid) e2f390a7f0

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During postmarketing surveillance, 52 deaths were reported in patients using cerivastatin, mainly from rhabdomyolysis and its resultant kidney failure. Risks were higher in patients using fibrates, mainly gemfibrozil (Lopid), and in patients using the highest (0.8 mg/day) dose of cerivastatin. Bayer A.G. added a contraindication for the concomitant use of cerivastatin and gemfibrozil to the package 18 months after the drug interaction was found. The frequency of deadly cases of rhabdomyolysis with cerivastatin was 16 to 80 times higher than with other statins. Another 385 nonfatal cases of rhabdomyolysis were reported. This put the risk of this (rare) complication at 5-10 times that of the other statins. Cerivastatin also induced myopathy in a dose-dependent manner when administered... 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... Side effects of statins include an increased risk of muscle pain, a slightly increased risk of

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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. Treatment involves stopping the associated statin medication and taking medication to suppress the immune system.

Rosuvastatin , atorvastatin, cerivastatin and pitavastatin, but unlike other statins, rosuvastatin contains sulfur (in Rosuvastatin, sold under the brand name Crestor among others, is a statin medication, used to prevent cardiovascular disease in those at high risk and treat dyslipidemia or hyperlipidemia. It is recommended to be used with dietary changes, exercise, and weight loss. It is taken orally (by mouth). structural similarities with most other statins, e. g

Cerivastatin Cerivastatin was voluntarily withdrawn from the market worldwide in 2001, due to reports of fatal

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rhabdomyolysis. It was marketed by the pharmaceutical company Bayer A. G. It was marketed by the pharmaceutical Cerivastatin (INN, brand names: Baycol, Lipobay) is a synthetic member of the class of statins used to lower cholesterol and prevent cardiovascular disease. Baycol, Lipobay) is a synthetic member of the class of statins used to lower cholesterol and prevent cardiovascular disease. in the late 1990s, competing with Pfizer's highly successful atorvastatin (Lipitor) e2f390a7f0

Discovery and development of statins The statins inhibit cholesterol synthesis in the body and that leads to reduction in blood cholesterol levels, which is thought to reduce the risk of atherosclerosis and diseases caused by it. Hypercholesterolemia is considered to be one of the major risk factors for atherosclerosis which often leads to cardiovascular, cerebrovascular and peripheral vascular diseases. according to their structure. Type 1 statins Statins that have substituted decalin-ring structure that resemble the first statin ever

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discovered, mevastatin have The discovery of HMG-CoA (3-hydroxy-3-methylglutaryl-CoA) reductase inhibitors, called statins, was a breakthrough in the prevention of hypercholesterolemia and related diseases e2f390a7f0

Common side effects include constipation, headaches, and nausea. Serious side effects may include muscle breakdown, liver problems, and increased blood sugar levels. A lower dose may be needed in people with kidney problems. There is evidence of harm to the developing baby when taken during pregnancy and it should not be used by those who are breastfeeding. It is in the statin class of medications and works by decreasing the manufacture of cholesterol by the liver. e2f390a7f0 It has neutral or possibly beneficial effects on glucose control. As a consequence, pitavastatin is likely to be appropriate for patients with metabolic syndrome plus high LDL... e2f390a7f0 Severe weakness of the proximal muscles (shoulders, upper arms, thighs) on both sides of the body, very

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high blood levels of the enzyme creatine kinase (CK) being released... == Medical uses ==
History == 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.

Atorvastatin Common side effects may include diarrhea, heartburn 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. For the prevention of cardiovascular disease, statins are a first-line treatment in reducing cholesterol.

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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 placebo 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. e2f390a7f0 It was patented in 1982 and approved for medical use in 1994. It is on the World Health Organization's List of Essential Medicines. e2f390a7f0 SAAM is estimated to occur in 2-3 people out of

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every 100,000 statin-treated individuals. It appears to be more common in people over the age of 50. Pitavastatin is an inhibitor of HMG-CoA reductase, the enzyme that catalyses the first step of cholesterol synthesis. Adverse effects are comparable to other statins. Common are nausea, indigestion, insomnia and headache. Myalgia (muscle pain), and rarely rhabdomyolysis, characteristic side effects for statins, can also occur. Pitavastatin is indicated for hypercholesterolaemia (elevated cholesterol) and for the prevention of cardiovascular disease.

Simvastatin by up to three-fold, increasing the risk of side effects. It is taken by mouth. It is also used to decrease the risk of heart problems in those at high risk. It is used along with exercise, diet, and weight loss to decrease elevated lipid levels. The FDA recommends that people taking statins should avoid consuming large quantities of grapefruit. Simvastatin, sold under the brand name Zocor among others, is a statin, a type of lipid-

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lowering medication

Fluvastatin rarely causes rhabdomyolysis, characteristic side effects for statins, can also occur. Contrary to lovastatin, simvastatin and atorvastatin, fluvastatin has no relevant side effects. Fluvastatin is a member of the statin drug class, used to treat hypercholesterolemia and to prevent cardiovascular disease.

== Medical uses ==
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 prescribed statin.

Statin Side effects of statins include an increased risk of muscle pain. Statins (or HMG-CoA reductase inhibitors) are a class of medications that lower the concentration of cholesterol in the blood.

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blood. Statins reduce the risk of myocardial infarction and stroke. They are typically prescribed to people who are at high risk of cardiovascular disease. who have cardiovascular disease e2f390a7f0

Statin-associated autoimmune myopathy However, there are cases of SAAM in patients who have not taken statin medication, and this can be explained by the exposure to natural sources of statin such as red yeast rice, which is statin rich. It is unclear precisely how statins lead to statin-associated autoimmune myopathy Statin-associated autoimmune myopathy (SAAM), also known as anti-HMGCR myopathy, is a very rare form of muscle damage caused by the immune system in people who take statin medications. This theory is supported by the higher prevalence of statin-naïve SAAM patients in Asian cohorts, who have statin-rich diets. In some cases even after statins have been discontinued for several years e2f390a7f0

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Fibrates stimulate peroxisome proliferator activated receptor (PPAR) alpha, which controls... e2f390a7f0 Fibrates improve atherogenic dyslipidemia characterized by high triglyceride and/or low HDL-C levels and elevated concentrations of small dense LDL particles, with or without high LDL-C levels. Fibrates may be compared to statin drugs, which reduce LDL-cholesterol (LDL-C) and have only limited effects on other lipid parameters. Clinical trials have shown that the combination of statins and fibrates results in a significantly greater reduction in LDL-C and triglyceride levels and greater increases in high-density lipoprotein cholesterol (HDL-C) compared with monotherapy with either drug. Fibrates are used in accessory therapy in many forms of hypercholesterolemia, but the combination of some fibrates (e.g., gemfibrozil) with statins is contraindicated due to an increased risk of rhabdomyolysis. e2f390a7f0 Rosuvastatin was patented in 1991 and approved for medical use in the United States in 2003. It is available as a generic medication. In 2023, it was the twelfth most commonly prescribed medication

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in the United States, with more than 42 million prescriptions. In Australia, it was the most prescribed medication in 2023.

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Pitavastatin other statins. Pitavastatin is a lipophilic statin. One study Pitavastatin (usually as a calcium salt) is a member of the blood cholesterol lowering medication class of statins. Reports indicate that this statin may lead to fewer muscle side effects than other statins e2f390a7f0

A 2009 study of the 104-week LIVES trial found pitavastatin increased HDL cholesterol, especially in patients with HDL lower than 40 mg/dL, who had a 24.6% rise, in addition to reducing LDL cholesterol 31.3%. HDL improved in patients who switched from other statins and rose over time. In the 70-month CIRCLE observational study, pitavastatin increased HDL more than atorvastatin. e2f390a7f0 It was patented in 1987 and approved for medical use in 2003. It is available in Japan, South Korea and

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in India. In the US, it received FDA approval in 2009. Simvastatin is made from the fungus *Aspergillus terreus*. It was patented by Merck in 1980, and came into medical use in 1992. Simvastatin is available as a generic medication, and is on the World Health Organization's List of Essential Medicines. In 2023, it was the 22nd most commonly prescribed medication in the United States, with more than 24 million prescriptions.

The primary uses of simvastatin are to treat...

In the 1950s the Framingham heart study led by Dawber revealed the correlation between high blood cholesterol levels and coronary heart diseases. Following up from that study the researchers explored...

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