



Pharmacodynamic Protective Effects and Interactions with Solubility of Rosuvastatin Calcium

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DESCRIPTION

Rosuvastatin calcium, also known as Crestor, is a prescription drug used to treat high cholesterol and reduces the risk of heart disease. It belongs to a class of drugs called statins, which work by blocking an enzyme in the liver that produces cholesterol. Despite these risks, many doctors continue to prescribe Rosuvastatin calcium to patients with high cholesterol. This is because it has been shown to be effective at reducing LDL (Low-Density Lipoprotein) cholesterol levels, which is a major risk factor for heart disease. Rosuvastatin calcium reduced the risk of heart attack, stroke, and death from cardiovascular disease by 25% in patients with high cholesterol. However, it is important to note that the benefits of Rosuvastatin calcium may not outweigh the risks for everyone. For example, some patients may be at higher risk for muscle damage or liver problems due to factors such as age, kidney function, or other medications they are taking. In addition, some patients may be able to achieve similar reductions in cholesterol through lifestyle changes such as diet and exercise, without the need for medication.

Like many prescription drugs, it can be expensive, especially for patients who do not have insurance or whose insurance does not cover the full cost. In some cases, patients may be prescribed a higher dose than they actually need, leading to unnecessary costs and potential side effects. In addition, the high cost of Rosuvastatin calcium may make it inaccessible to patients in developing countries or low-income communities, who may be at higher risk for heart disease. One of the main concerns about Rosuvastatin calcium is its potential for causing serious side effects. Like all statins, it can cause muscle damage, liver problems, and kidney failure. In rare cases, it can also cause a severe allergic reaction known as anaphylaxis, which can be life-threatening. In addition, some studies have suggested that statins may increase the risk of diabetes, cognitive impairment, and certain

types of cancer. Despite these concerns, it is clear that Rosuvastatin calcium has played an important role in reducing the incidence of heart disease and saving lives. However, it is important for patients and doctors to weigh the risks and benefits of this medication on an individual basis. Patients who are prescribed Rosuvastatin calcium should be monitored closely for side effects, and doctors should consider other treatment options for patients who are at higher risk for complications.

In addition, efforts should be made to make Rosuvastatin calcium and other life-saving medications more affordable and accessible to patients in all parts of the world. This could include initiatives to increase generic drug production, negotiate lower prices with pharmaceutical companies, and provide financial assistance to patients who cannot afford their medications. Even though Rosuvastatin calcium has its limitations and potential risks, it is an important tool in the fight against heart disease. By working to minimize its risks and maximize its benefits, we can ensure that it continues to play a critical role in improving the health and well-being of millions of people around the world.

The absorption of this medication can be lowered by antacids made of aluminum or magnesium. Use this kind of antacid at least two hours after taking Rosuvastatin calcium. Rarely, this medication may cause issues with the muscles (which can rarely lead to very serious conditions called rhabdomyolysis and autoimmune myopathy).

Alcohol consumption on a regular basis, especially when coupled with rosuvastatin, may raise the risk of liver issues. Rosuvastatin's ability to leave a person's body can be impacted by other medications, which could change how well it functions. When taking rosuvastatin, avoid consuming any red yeast rice products because some of them may also contain statin lovastatin. Rosuvastatin and red yeast rice products can raise the risk of developing major liver and muscle issues.

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