

Statins Pros And Cons

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... 686933e85d

Atherosclerosis This is a chronic inflammatory disease involving many different cell types and is driven by elevated blood levels of cholesterol, primarily LDL. and maintaining a normal body weight. Treatment of established atherosclerotic disease may include medications to lower cholesterol such as statins, Atherosclerosis is a pattern of the disease arteriosclerosis, characterized by the development of atheromatous plaques in the walls of arteries. These lesions lead to narrowing of the arteries 686933e85d

The campaign identifies over 500 tests and procedures and encourages doctors and patients to discuss, research, and possibly get second opinions, before proceeding with them. To conduct the campaign, the ABIM Foundation asks medical specialty societies to make five to ten recommendations for preventing overuse of a treatment in their field. The foundation then publicizes this information, and the medical specialty societies disseminate it to their members. 686933e85d The campaign has garnered both praise and criticism, and some of its ideas have spread to other countries. It does not include evaluation of its effects on costs, on discussions or on medical outcomes. Some doctors have said they lack time for the recommended discussions. 686933e85d

Depression and immune function This association is seen both long-term and short-term, with the presence of one often being accompanied by the other and both inflammation and depression often being co-morbid with other conditions. NSAIDs and cytokine inhibitors each being shown effective by multiple trials. Primarily seen through increased inflammation, this relationship is bidirectional with depression often resulting in increased immune response and illness resulting in prolonged sadness and lack of activity. In addition, statins, poly-unsaturated fatty acids, corticosteroids, and anti-inflammatories Major depression is often associated or correlated with immune function dysregulation, and the two are thought to share similar physiological pathways and risk factors 686933e85d

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. 686933e85d Malhotra's views on diet and health have been criticized by the British Heart Foundation as "misleading and wrong", and his public questioning of the need to ever use statins has been condemned as a danger to public health. His "Pioppi diet" was named by the British Dietetic Association as one of the "top 5 worst celeb diets to avoid in 2018". 686933e85d At the onset, there are usually no symptoms, but if they develop, symptoms generally begin around middle age. In severe cases, it can result in coronary artery disease, stroke, peripheral artery disease, or kidney disorders, depending on the body part(s) in which the affected arteries are located. 686933e85d During the COVID-19 pandemic, Malhotra published a book called The 21-Day Immunity Plan, which claimed, without the backing of evidence from medical research, that following the diet can quickly help people... 686933e85d

Aseem Malhotra He contends that people should reduce sugar in their diet, adopt a low-carb and high-fat diet, and reduce their use of prescription drugs. "Statins". NHS. "Expert reaction to new report on statins and Aseem Malhotra is a British cardiologist and author, whose COVID-19 vaccine and anti-statin views have been criticised as misinformation by experts. He was the first science director of Action on Sugar in 2014, was listed as one of The Sunday Times 500 most influential people in 2016, and was twice recognized as one of the top fifty black and minority ethnic community member pioneers in the UK's National Health Service by the Health Service Journal. Malhotra is co-author of a book called The Pioppi Diet. Retrieved 12 September 2021. 3 October 2018. Archived from the original on 18 April 2021 686933e85d

Robin Choudhury to Renaissance anatomical diagrams to the Surrealists and beyond". Statins: The pros and cons. He is also a Consultant Cardiologist at the John Radcliffe Hospital and a Research Fellow in Biomedical Sciences at Balliol College, Oxford. Available here. Circulation: European Robin Choudhury is a British cardiologist, and Professor of Cardiovascular Medicine at the University of Oxford. The Telegraph, 2020 686933e85d

== Depression and inflammation == 686933e85d == Education == 686933e85d Explanations for this relationship have come from both medical and evolutionary approaches, with disagreements stemming primarily about whether the connection is functional and why depression and inflammation share similar physiological pathways. 686933e85d

Ribavirin alfa. Ribavirin is usually taken orally (by mouth) or inhaled. Despite widespread usage, it has faced scrutiny in the 21st century because of lack of proven efficacy in treating viral infections for which it has been prescribed in the past. When possible, genotyping of the specific viral strain is done; and ribavirin Ribavirin, also known as tribavirin, is an antiviral medication used to treat illness caused by respiratory syncytial virus (RSV) and hepatitis C virus (HCV) infections, as well as some viral hemorrhagic fevers. It can also be used for viral hemorrhagic fevers—specifically, for Lassa fever, Crimean–Congo hemorrhagic fever, and hantavirus infections (with exceptions for Ebola or Marburg virus diseases). Statins may improve this combination's efficacy in treating hepatitis C. For HCV, it is used in combination with other medications, such as simeprevir, sofosbuvir, peginterferon alfa-2b or peginterferon alfa-2a 686933e85d

The basic V-BID premise is to align patients' out-of-pocket costs, such as copayments and premiums, with the value of health services. By reducing barriers to high-value treatments (through lower... 686933e85d The exact cause of atherosclerosis is unknown and is proposed to be multifactorial. Risk factors include abnormal cholesterol levels, elevated levels of inflammatory biomarkers, high blood pressure, diabetes, smoking (both active and passive smoking), obesity, genetic factors, family history, lifestyle habits, and an unhealthy diet. Plaque is made up of fat, cholesterol, immune cells, calcium, and other substances found in the blood. The narrowing of arteries limits the flow of oxygen-rich blood to parts of the body. Diagnosis is based upon a physical exam... 686933e85d Management of CRS primarily focuses on addressing the underlying cause while mitigating the complications associated with the syndrome. Since volume overload is a predominant feature in most patients, treatment typically involves fluid removal, primarily through loop diuretics, with thiazides as adjuncts for diuretic resistant cases. Ultrafiltration is reserved for refractory cases. Depending on the case, additional therapies... 686933e85d Discovered by Tillett and Francis in 1930, it was initially thought that CRP might be a pathogenic secretion since it was elevated in a variety of illnesses, including cancer. The

later discovery of hepatic synthesis (made in the liver) demonstrated that it is a native protein. Initially, CRP was measured using the quellung reaction which gave a positive or a negative... 686933e85d 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. 686933e85d Major depression is often associated with biomarkers indicative of inflammatory responses, with interleukin-6, interleukin-1, interleukin-2 receptor, tumor necrosis factor alpha, C-reactive protein, and monocyte chemotactic protein-1 all being found to be elevated in those with depression. Similarly, the same biomarkers are also strongly associated... 686933e85d Leeds Grammar School and Balliol College, University of Oxford. 686933e85d == History == 686933e85d

Value-based insurance design V-BID health insurance plans are designed with the tenets of "clinical nuance" in mind. consider alternatives and works especially well with "shared decision-making" tools that explain treatment option pros and cons objectively in plain language Value-based insurance design (also V-BID, VBID, evidence-based benefit design, or value-based benefit design) is a demand-side approach to health policy reform. V-BID generally refers to health insurers' efforts to structure enrollee cost-sharing and other health plan design elements to encourage enrollees to consume high-value clinical services – those that have the greatest potential to positively impact enrollee health. These tenets recognize that medical services differ in the amount of health produced, and the clinical benefit derived from a specific service depends on the consumer using it, as well as when and where the service is provided. V-BID aims to increase health care quality and decrease costs by using financial incentives to promote cost efficient health care services and consumer choices. V-BID also discourages the use of low-value clinical services – when benefits do not justify the cost 686933e85d

Choosing Wisely Continuing this project, Choosing Wisely was created to organise the creation of more "lists of five," later ten, and their distribution Choosing Wisely is a United States-based health educational campaign, led by the ABIM Foundation (American Board of Internal Medicine), about unnecessary health care. brand name statin 686933e85d

C-reactive protein Its physiological role is to bind to lysophosphatidylcholine expressed on the surface of dead or dying cells (and some types of bacteria) in order to activate the complement system via C1q. A subsequent trial however failed to find that CRP was useful for determining statin C-reactive protein (CRP) is an annular (ring-shaped) pentameric protein found in blood plasma, whose circulating concentration rises in response to inflammation. statins in hs-CRP revealed similar effects of different statins. It is an acute-phase protein of hepatic origin that increases following interleukin-6 secretion by macrophages and T cells 686933e85d

Statin Protease inhibitors and statins taken together may increase the blood levels of statins and increase the risk Statins (or HMG-CoA reductase inhibitors) are a class of medications that lower the concentration of cholesterol in the blood. They are typically prescribed to people who are at high risk of cardiovascular disease. protease inhibitors and certain statin drugs 686933e85d

Cardiorenal syndrome alongside statins might be an effective regimen to prevent a substantial number of CRS cases in high risk patients and improve survival and quality of Cardiorenal syndrome (CRS) is the spectrum of disorders in which acute or chronic dysfunction of the heart or kidneys leads to acute or chronic dysfunction of the other 686933e85d

The condition is classified into five subtypes based on the primary organ dysfunction and whether the disease process is acute or chronic. The heart and the kidneys maintain hemodynamic stability and organ perfusion through an intricate network. CRS results from a complex interplay of hemodynamic alterations, neurohormonal activation, inflammatory mediators, and endothelial dysfunction, all contributing to progressive organ injury. Cardiorenal syndrome is commonly associated with conditions such as heart failure, chronic kidney disease (CKD), acute kidney injury (AKI), and systemic hypertension. 686933e85d == History and etymology == 686933e85d Its common side effects include fatigue, headache, nausea, fever, muscle pains, and an irritable mood. Serious side effects include red blood cell breakdown, liver problems, and allergic reactions. Its use during pregnancy can bring harm to the developing fetus. Effective birth control is recommended for both males and females for at least seven months during and after use. The mechanism of action of ribavirin is not... 686933e85d CRP is synthesized by the liver in response to factors released by macrophages, T cells and fat cells (adipocytes). It is a member of the pentraxin family of proteins. It is not related to C-peptide (insulin) or protein C (blood coagulation). C-reactive protein was the first pattern recognition receptor (PRR) to be identified. 686933e85d

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