
Viruses And Atherosclerosis

viruses in the-etiology;of atherosclerosis - pnas - possibility that viruses mayplay a role in formation of athero-sclerotic plaques. association ofviruses withvascular lesions in chickens, sus-pected earlier (12, 13), has nowbeenestablished byinfection ofspecific pathogen-free birds withavariantofmarekdisease virus (mdv); the arterial lesions produced resemble those of human atherosclerosis (14 ... **link between infection and atherosclerosis: who are the ...** - cation of viruses and bacteria in atherosclerotic plaques, (3) a strong association between specific infections such as cmv with transplant atherosclerosis, (4) experimental models showing an induction or acceleration of atherosclerosis by viruses or bacteria, (5) the ability of infectious organisms or **the biology of atherosclerotic cardiovascular disease** - infection & atherosclerosis herpes viruses (cytomegalovirus) and chlamydia pneumoniae have been found in atheromatous plaques, & increased antibodies to these agents are associated with increased risk of new infarction in patients who have had myocardial infarction. periodontal disease is associated with increased risk of **detection of human cytomegalovirus and epstein-barr virus ...** - were tested for the presence of these two viruses. hcmv occurred in 93.3% of the samples and ebv-1 was present in 50% of them. concurrent presence of both pathogens was detected in 43.3% of the samples. key words: atherosclerosis; cytomegalovirus; epstein-barr virus. atherosclerosis, considered the main underlying disease **inflammation, atherosclerosis 8 and coronary artery disease** - infection and coronary artery disease various microbes have been implicated in the causa-tion of atherosclerosis. chlamydia pnemoniae, herpes viruses and cytomegalovirus have been associated with atherosclerosis because either these microbes have been found in the atherosclerotic lesions or the elevated titers **mechanism for putative link between atherosclerosis and ...** - 1976 the lancet • vol 354 • december 4, 1999 mechanism for putative link between atherosclerosis and viruses found experiments done by us scientists indicate that infection of human arterial smooth muscle cells (smcs) with human cytomegalovirus **are short chain fatty acids in gut microbiota defensive ...** - matory mechanisms including atherosclerosis. as for the connections between gut microbiota, immunity, and atherosclerosis, recent excellent reviews should also be consulted(8-11). introduction there are up to 100 trillion (1×10¹⁴) microbes in the human intestinal tract(1), including bacteria, fungi, and viruses. collectively, these are called the **leader microorganisms in the aetiology of atherosclerosis** - microorganisms (bacteria and viruses) in the process of atherosclerosis. bacteria chronic dental bacterial infections are strongly associated with atherosclerosis.6-8 although the chronological sequence of infection and the initiation of atherosclerosis is still not clear, it can be argued that atherosclerosis is the cause **xviii. biology, high school - massachusetts department of ...** - xviii. biology, high school. 294 high school biology test ... individuals monitor their total cholesterol levels to try to assess their risk of atherosclerosis. b. describe the effect of atherosclerosis on the amount of oxygen supplied to body cells. ... viruses and cells? a. viruses and cells use mitosis to reproduce. b. viruses and cells must ... **new insights into inflammation in atherosclerosis** - first inflammatory cell to be associated with atherosclerosis. great effort has been devoted to elucidating the molecular mechanisms by which immune cells contribute to atherosclerosis [10]. the in-nate and adaptive immune systems have evolved to protect humans from pathogens such as bacteria, viruses, parasites, fungi and the **atherosclerosis (atherosclerotic cardiovascular disease ...** - atherosclerosis (atherosclerotic cardiovascular disease) — definition and ... atherosclerosis is an incurable disease, but for which there are clearly defined risk factors that often can be reduced through a change in lifestyle and behavior of the patient. it is the most abundant primary disease of the arterial ... aureus, or herpes viruses. **viruses 2010 2, 334-371; doi:10.3390/v2020334 open access ...** - of mortality in the developed world, primarily as a result of obstructive atherosclerosis of the coronary and peripheral arteries, and is associated with an enormous symptom burden, manifesting most commonly as angina pectoris and intermittent claudication when affecting the coronary and lower limb arteries, respectively. **is atherosclerosis an immunologically mediated disease?** - atherosclerosis is one of the most prevalent fatal dis- eases in western societies, and is also one of the single ... viruses and homo- cysteine. as a consequence, the injured endothelial cells increase their production and secretion of growth and chemotactic factors, inducing the local accumulation of thrombocytes and monocytes, the ... **tobacco smoking and atherosclerosis - springer** - atherosclerosis remain both undefined and virtually unexplored. even the epidemiologic correlation between cigarette smoking and the development of atherosclerosis needs further critical studies. it is known that individuals who do not smoke cigarettes develop athero **adeno-associated viruses as a method to induce ...** - early atherosclerosis, the suitability of aav-psck9 for studying advanced atherogenesis may be questioned. in the aortic root, advanced lesions were observed in wtd-fed mice, but lesions in the arch and branch areas were relatively small.3 these regions are particularly sensitive to shear stress and to the activity of the **impact of viral and bacterial infections in coronary ...** - impact of viral and bacterial infections in coronary artery disease patients hem chandra jha, aruna mittal hem chandra jha, aruna mittal, national institute of pathol-ogy-icmr, new delhi 110029, india **human immunodeficiency virus infection and macrophage ...** - how viruses and/or dysregulation of antiviral defense activity of macrophages may contribute to atherosclerosis, a disease not usually associated with viral infection. a key element of the pathogenesis of atherosclerosis, which is currently the most prevalent

human disease, is impairment of cholesterol metabolism in macrophages [1]. **gdf11 protects against endothelial injury and reduces ...** - factors for atherosclerosis.13 atherosclerosis is highly prevalent in older persons having catastrophic consequences in their quality of life and increasing disability and mortality in this population.14,15 however, the potential role of gdf11 on atherosclerosis has not been investigated. adeno-associated viruses (aav) mediate stable gene expression - **innate immune receptors in atherosclerosis** - innate immune receptors in atherosclerosis 257 and accessory molecules and thus different mechanisms of action are used by tlr5 in response to ligation by pamp and damp (reviewed in (piccinini & midwood, 2010)). exogenous prr ligands, such as viruses and bacteria, and endogenous prr ligands, **vascular cells contribute to atherosclerosis by** - trigger mechanisms for the initiation of atherosclerosis - role of infectious agents although still discussed, evidence for a role of bacterial or viral infection in atherogenesis has been derived from different lines of investigation.34-40 first, evidence for the presence of chlamydiae or viruses in the atherosclerotic - **gene therapy for atherosclerosis - springer** - gene therapy for atherosclerosis accepted: 8 january 1997 abstract although considerable progress has been made in the prevention and treatment of atherosclerotic cardiovascular disease, new therapeutic strategies are still needed. atherosclerosis is a systemic disease and represents - **leukocyte behavior in atherosclerosis, myocardial ...** - leukocytes in atherosclerosis the natural progression of atherosclerosis in the human involves the acquisition of specific features in the growing lesion. a key initiating process of atherosclerosis is the intimal retention of center for systems biology, massachusetts general hospital and harvard medical school, simches research building, 185 - **viruses open access viruses - mdpi** - atherosclerosis, cardiovascular diseases [6-8], and inflammatory bowel disease [9]. several mechanisms of the regulation of hcmv and mouse cytomegalovirus (mcmv) latency, reactivation, and lytic replication, such as chromatin remodeling and mitogen-activated protein kinase (mapk) pathways, have been reported by previous studies [10-14]. **debate open access atherosclerosis and alzheimer ...** - debate open access atherosclerosis and alzheimer - diseases with a common cause? inflammation, oxysterols, vasculature richard lathe1,2,3*, alexandra sapronova1,2,4 and yuri kotelevtsev1,2,5,6 abstract background: aging is accompanied by increasing vulnerability to pathologies such as atherosclerosis (ath) and **computer viruses from theory to applications collection iris** - [pdf]free computer viruses from theory to applications collection iris download book computer viruses from theory to applications collection iris.pdf free download, computer viruses from theory to applications collection iris pdf related documents: das wort vom kreuz (wissenschaftliche untersuchungen zum neuen testament) diabetes and ... **review: viral infections and mechanisms of thrombosis and ...** - on atherosclerosis and atherothrombosis is not discussed. methods this review includes viruses for which sufficient data on the association between hemostasis and related clinical pictures are documented. pubmed/med-line was searched for articles that document the relationship between viruses and hemostatic parameters and thrombotic ... **herpes virus infections, inflammatory markers and risk of ...** - herpes simplex viruses (hsvs), are among the most virulent and widespread pathogens; they affect 60-90% of the population worldwide. substantial evidence indicates a possible association between pathogens and chronic disease. hsvs, among other viruses, have been associated with increased risk for inflammatory diseases. however, prior **m1 and m2 macrophages: oracles of health and disease** - (e.g., atherosclerosis, autoimmunity) also do not express classical "foreign" antigens. does this mean that the immune system will continue mainly as a weapon against exogenous pathogens (i.e., bacteria, parasites, viruses)? the good news is no. the immune system does play an important role in most modern diseases, just in a different way **exploring the relationship between the infection of c ...** - exploring the relationship between the infection of ceumoniae and coronary artery disease atherosclerosis is considered an inflammatory disease, accordingly, there has been extensive research to determine whether microbial infections possibly contribute and maintain this ... pneumoniae is a gram-negative bacterium which resembles ... **infectious and coronary artery disease - researchgate** - direct using some related keywords such as atherosclerosis, cad, myocardial infarction (mi), infection, and name of viruses and bacteria. after finding the related papers, we reviewed the **links between infectious diseases and cardiovascular ...** - several viruses have been shown to affect the heart. these include the adenoviruses, coxsackie viruses, hepa-titis a virus, and herpes simplex viruses. adenoviruses ... causal agent for atherosclerosis in chickens, much like that seen in humans.22 in a study of 391 patients referred for chest pain or other evidence of myocardial ischemia, ... **evaluation of association between chlamydia pneumoniae ...** - many viruses and bacteria may be associated with atherosclerotic events and may have a trigger role [3]. atherosclerosis is thought to be induced by chronic inflammatory process [6]. the synergism of infection with conventional cardiovascular risk factors in atherosclerosis is now debated. **influenza and atherosclerosis: vaccination for ...** - influenza and atherosclerosis: vaccination for cardiovascular disease prevention 92 expert opin. *biol. ther.* (2005) 5(1) pattern are not yet fully understood, a major portion could be attributed to the development of new preventive and therapeutic measures and better management of ami cases [7]. primary **scientific letter evidence for association between ...** - putative pathogenic processes and atherosclerosis are available. very recent data have indicated that seropositivity for hcv may have a role in the pathogenesis of carotid atherosclerosis.3 our findings suggest that hcv seropositivity might be considered, in the clinical setting, as one of the risk factors affecting the onset and

development ... **microna profiling in atherosclerosis, diabetes, and migraine** - in conditions such as atherosclerosis, diabetes, and migraine are summarized in table 1. mirna biogenesis and differences with small interference double-stranded rnas (sirnas) mirna biogenesis is a complex process involving mul-tiple and distinct pathways. mirnas are usually located in introns of coding genes or in non-coding rnas. **inflammation and introduction to wound healing** - chronic diseases: arthritis, atherosclerosis » disfiguring scars, visceral adhesions. he told a story of a woman in her 40s given penicillin by a nurse even though her penicillin allergy was written in her chart. med errors can be fatal, people! maybe electronic records can help fix this... er may help to clarify written orders. **the epstein-barr virus solution 9781722895365 final text ...** - other viruses. nineteen of these patients were followed monthly for one year, and positive early antigen and serum dna (which indicate current reactivation) were found in 72% of those with ... to cause atherosclerosis, even at a low-dose exposure level [20]. we may have to rethink heart health. **arteriosclerosis thrombosis and vascular biology - athero** - arteriosclerosis, thrombosis and vascular biology donald d. heistad, editor-in-chief, for the editors of atherosclerosis, thrombosis and vascular biology i am pleased to have the opportunity to update the status of atherosclerosis, thrombosis and vascular biology (atvb).our goals are to publish high-quality papers, provide authors with **the cardiovascular system - mccc** - diseases of the cv system venous diseases veins have thinner non-muscular walls not affected by htn or atherosclerosis can accommodate increased amount of blood accounts for pooling of blood from chf backpressure causes stagnation of blood valves become incompetent once veins dilate, remain that way varicose veins **inflammation - home | adha** - inflammation is a local reactive change that involves the ... progression of systemic disease (i.e., atherosclerosis).7,8 this process of chronic gingivitis is represented in figure 1. ... bacteria or viruses may direct-ly infect atherosclerotic lesions contributing to the inflamma-tory process. further, distant infections may increase systemic **eating the dead to keep atherosclerosis at bay** - eating the dead to keep atherosclerosis at bay the harvard community has made this article openly available. please share how this access benefits you. your story matters citation brophy, megan l., yunzhou dong, hao wu, h. n. ashiquir rahman, kai song, and hong chen. 2017. "eating the dead to keep atherosclerosis at bay." **hydrogen sulfide in physiology and pathogenesis of ...** - pathogenesis of bacteria and viruses ... inflammation, atherosclerosis, pulmo-nary diseases among others with a whole spectrum of physio-logical implications (32-34). h 2s producing bacteria were discovered way back in 1877. many investigators demonstrated bacterial production of h **long-term activation of the innate immune system in ...** - long-term activation of the innate immune system in atherosclerosis authors anette christ, siroon bekkering, eicke latz, and niels p. rixens keywords atherosclerosis, changed dietary components, epigenetic reprogramming, hyperlipidemia, immuno-metabolism, innate immune memory, trained innate immunity creative commons license **cytomegalovirus & herpes simplex viruses** - cytomegalovirus & herpes simplex viruses 1. virology • double stranded dna viruses = low mutation rate • enveloped viruses = labile in the environment 2. epidemiology • agents are ubiquitous • no seasonality • us adult seroprevalence ... ♦ atherosclerosis • diagnosis ♦ serology igg & igm (potential anamnestic igm response) ... **the role of the infectious agents in the pathogenesis and ...** - the role of the infectious agents in the pathogenesis and evolution of atherosclerosis claudio blasi molecules ("reactive oxygen species" or "superoxides"). such ions have a strong tendency to react with proteins caus-ing serious damage: the so-called "oxidative stress"⁴⁻⁶. endothelial dysfunction, constituting a reaction to the **infections may be causal in the pathogenesis of ...** - infections may be causal in the pathogenesis of atherosclerosis uffe ravnskov, md, phd and kilmer s. mccully, md abstract: there is a universal lack of exposure response between degree of lipid lowering and the outcome in clinical and angiographic trials questioning the current view on atherogenesis. however, there are **sex differences in inflammation during atherosclerosis** - atherosclerosis. inflammation and atherosclerosis the key processes in the pathogenesis of atherosclerosis are vascular inflammation, lipid accumulation, intimal thicken-ing and fibrosis, remodeling, and plaque rupture or erosion, leading to mi and ischemia.²³ most of our understanding on the role of inflammation in atherosclerosis comes from ani- **a cross-sectional study of the association between chronic ...** - atherosclerosis have not been demonstrated consistently [16, 17]. it remains unclear, however, whether the effects of hiv and hcv infection on atherosclerosis are independent of each another or whether the 2 viruses act synergistically in co-infected individuals. the purpose of the present study was to determine whether

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