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Electronic cigarettes - myocardial infarction, hemodynamic compromise during pregnancy, and systolic and diastolic dysfunction: Minireview

Cardiovascular effects of electronic cigarettes: minireview

Abstract

The aim of this study was to review the most recent literature on the safety of Electronic Cigarettes in the context of cardiovascular disease and in the context as a tool for smoking cessation and recreational purposes. The format of this review begins with relevant research from the basic sciences and follows through with a pertinent review of clinical trials. Daily use of electronic cigarettes (EC) have implications in myocardial infarction (MI) with an odds ratio of 1.7 compared to healthy, nonsmokers and even worse risk for MI with dual use of combustible cigarettes together with EC with an odds ratio of 4.62. Studies measuring cardiac function with echocardiography report both systolic and diastolic dysfunction along with reduced ejection fractions. Platelet aggregation, endothelial function, and hemodynamics during pregnancy were all but some of the pernicious cardiovascular implications EC exposure. Though more studies need to be done on the topic of electronic cigarette use and cardiovascular disease, the majority of studies considered in this review concluded some level of harm, albeit in

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Cardiovascular risk of electronic cigarettes: a review of ...

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Design of E-Cigarettes

Potential Cardiovascular Toxici...



Traditional cigarette smoking continues to be a major public issue as it has continuously been shown to have many pathogenic and negative effects on the heart. Presently, cardiovascular diseases (CVDs) are the number one cause of death among Americans, killing approximately 630 000 persons annually.¹ Despite strong efforts to reduce smoking, traditional smoking continues to be one of the most preventable risk factors for heart disease as 15% of the population use combustible cigarettes.² Result...

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Mar 13, 2019 · According to this report, the use of standard **cigarettes** and cigars did not increase **during** the observed period. 16 Furthermore, the introduction of JUUL, an innovative **electronic cigarette** that looks like a USB drive, has seen a rapid uptake among youth and young adults. 17 This design provides delivery of high nicotine concentrations, while ...

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Jun 23, 2014 · No study has ever evaluated the effects of **electronic cigarette** use on cardiac function; thus, the purpose of the current study was to investigate the acute effects of using an **electronic cigarette** ad lib for 7 minutes on haemodynamic parameters and **myocardial** function, compared to the effects of smoking a tobacco **cigarette**.

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