

Current Hypertension Reviews



Title:Pesticides-induced Cardiovascular Dysfunctions: Prevalence and Associated Mechanisms

VOLUME: 17 **ISSUE:** 1

Author(s):Joseph A. Adeyemi*, Victor O. Ukwenya, Olatunbosun K. Arowolo and Christian C. Olise

Affiliation:Department of Biology, School of Sciences, Federal University of Technology, P.M.B. 704, Akure, Ondo State, Department of Human Anatomy, School of Health and Health Technology, Federal University of Technology, P.M.B. 704, Akure, Ondo State, Department of Biology, School of Sciences, Federal University of Technology, P.M.B. 704, Akure, Ondo State, Department of Biology, School of Sciences, Federal University of Technology, P.M.B. 704, Akure, Ondo State

Keywords:Pesticides (https://www.eurekaselect.com/search/aws_search.php?searchvalue=Pesticides), occupational exposure ([https://www.eurekaselect.com/search/aws_search.php?searchvalue= occupational exposure](https://www.eurekaselect.com/search/aws_search.php?searchvalue=occupational%20exposure)), cardiovascular diseases ([https://www.eurekaselect.com/search/aws_search.php?searchvalue= cardiovascular diseases](https://www.eurekaselect.com/search/aws_search.php?searchvalue=cardiovascular%20diseases)), oxidative stress ([https://www.eurekaselect.com/search/aws_search.php?searchvalue= oxidative stress](https://www.eurekaselect.com/search/aws_search.php?searchvalue=oxidative%20stress)), ROS ([https://www.eurekaselect.com/search/aws_search.php?searchvalue= ROS](https://www.eurekaselect.com/search/aws_search.php?searchvalue=ROS)), endothelial dysfunction. ([https://www.eurekaselect.com/search/aws_search.php?searchvalue= endothelial dysfunction.](https://www.eurekaselect.com/search/aws_search.php?searchvalue=endothelial%20dysfunction))

Abstract:Increased applications of pesticides, mainly in agriculture and public health, have resulted in increased chances of human exposure to pesticides. Chronic exposure to pesticides has been implicated in several human diseases, including cardiovascular diseases. Cardiovascular diseases are broadly used for various heart pathological conditions, including a defect in blood vessels, and they include myocardial infarction, atherosclerosis, stroke, cardiomyopathy, coronary heart disease, etc. In this review, the association between human exposure to pesticides and the development of cardiovascular diseases was discussed using epidemiological and laboratory data. The toxicokinetics of pesticides in humans was reviewed, as well as the risk factors for cardiovascular diseases. The important role of oxidative stress principally the induction of reactive oxygen species as the signaling molecules for various signaling pathways involved in pesticides-induced cardiovascular disease, was discussed.

 Close

Print this page