

Submission Summary

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Paper Title

Carbon nanomaterials: its application in diagnosis and treatment of Metabolic syndrome and its components. Narrative review

Abstract

Noncommunicable diseases are one of the primary causes of death globally, in which three-fourths of deaths are from low and middle-income countries. Among non-communicable diseases, cardiovascular diseases (CVDs), Cancer, and diabetes are among the top four causes of death globally. Metabolic syndromes (MetS), which is a cluster of conditions of dyslipidemia, hypertension, central obesity, and insulin resistance, possess double the risk factors to the individual for the future development of CVDs, diabetes, and even Cancer. Its prevalence is rising globally, with almost 20 to 30% of adults suffering from it. A wide range of nanomaterials could be used as a diagnostic and treatment for the MetS and its components. Carbon nanomaterials (CNMs) are a group of nanoparticles that have the potential to diagnose and treatment of MetS. It can be used as a nanosensor to track dyslipidemia, blood pressure, and blood glucose levels in individuals with Mets. This review will explore the recent development of CNMs as diagnostic and treatment tools and their types.

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Authors

Raju Rana (Kasturba Medical College, Manipal) < raju.rana1@learner.manipal.edu > ✓

Shobha U Kamath (Kasturba Medical College, Manipal) < shobha.kamath@manipal.edu >



B A Shastri (Kasturba Medical College, Manipal) < ba.shastri@manipal.edu > ✓

Shashikiran U (Melaka Manipal Medical College, Manipal) < shashikiran.u@manipal.edu >

