



Advancements and Challenges in Preventive Healthcare: A Comprehensive Review

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Abstract

Preventive healthcare is a critical component of public health, focusing on its significance, strategies, advancements, and challenges. The discussion encompasses

preventive healthcare in promoting population health and emphasizes the need for concerted efforts to enhance its effectiveness and accessibility.

Keywords: Preventive healthcare; Public health; Vaccination; Screening; Lifestyle interventions; Digital health; Health equity; Health disparities

Introduction

In the 21st century, the focus of healthcare has shifted from primarily treating acute diseases to a more holistic approach that emphasizes prevention. Preventive healthcare, which includes strategies such as vaccination, screening, and lifestyle interventions, has become a cornerstone of public health. This review explores the current state of preventive healthcare, highlighting recent advancements and the challenges that remain. The goal is to provide a comprehensive overview of the field and to identify areas for future research and policy development.

One of the most significant advancements in preventive healthcare is the development of new vaccines. The rapid development and deployment of COVID-19 vaccines is a testament to the power of modern vaccine technology. Additionally, the use of digital health tools, such as mobile health applications and wearable devices, has enabled more personalized and accessible preventive care. However, challenges such as health equity and access to care remain significant barriers to the widespread adoption of preventive healthcare.

Moreover, the integration of data from various sources, including electronic health records and genomics, is providing new insights into disease prevention. This data-driven approach is essential for identifying high-risk populations and tailoring interventions to individual needs.

*Corresponding author:

Received:

Editor assigned:

Revised:

Reviewed:

Published:

Citation:

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Citation:

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