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Application of Digital Health Technologies

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Description

Public health is an essential aspect of society that focuses on preventing disease, prolonging life and promoting health through organized efforts and informed choices of society, organizations, public and private sectors, communities and individuals. Despite its critical role, public health faces several significant challenges that impact its effectiveness and reach.

One of the foremost challenges in public health is the emergence and re-emergence of infectious diseases. These diseases can spread rapidly, crossing geographical boundaries and affecting large populations. The recent COVID-19 pandemic is a stark reminder of how a novel virus can disrupt global health systems and economies. The rapid transmission of such diseases often overwhelms healthcare facilities, leading to shortages in medical supplies, personnel and resources.

Chronic non-communicable diseases

Chronic Non-Communicable Diseases (NCDs) such as heart disease, cancer, diabetes and chronic respiratory diseases are another major public health challenge. These diseases are responsible for a significant proportion of morbidity and mortality worldwide. Unlike infectious diseases, NCDs are primarily influenced by lifestyle factors, including poor diet, physical inactivity, tobacco use and excessive alcohol consumption.

The burden of NCDs is exacerbated by aging populations and changes in social behaviors. As people live longer, the prevalence of chronic diseases increases, putting additional strain on healthcare systems. Furthermore, the economic costs associated with managing NCDs are substantial, affecting both individuals and national economies. Addressing NCDs requires comprehensive strategies that include prevention, early detection and effective management through lifestyle interventions and healthcare services.

Despite the numerous challenges, the field of public health is also witnessing remarkable innovations that have the potential to significantly improve health outcomes. These innovations span various domains, including technology, policy and community engagement, offering new tools and approaches to tackle public health issues more effectively.

Digital health technologies

Digital health technologies are transforming the way public health services are delivered and managed. These technologies include mobile health applications, wearable devices, telemedicine and health information systems, disease surveillance, health education and patient monitoring, enhancing the reach and efficiency of public health interventions.

Mobile Health (mHealth) applications, for instance, enable the dissemination of health information and services to remote and underserved populations. They can be used to promote healthy behaviors, manage chronic diseases and provide real-time health data to public health officials. Wearable devices such as fitness trackers and smartwatches offer individuals and healthcare providers continuous monitoring of health metrics, facilitating early detection of potential health issues and encouraging proactive health management.

Telemedicine has become particularly important in the context of the COVID-19 pandemic, providing a means for patients to access healthcare services remotely. This technology reduces the burden on healthcare facilities, minimizes the risk of disease transmission and ensures continuity of care. Additionally, health information systems and Electronic Health Records (EHRs) enhance data collection, analysis and sharing, supporting better decision-making and coordination of public health efforts.

Community-based interventions are essential for addressing public health challenges at the grassroots level. These interventions involve engaging local communities in the design, implementation and evaluation of health programs. By leveraging local knowledge and resources, community-based approaches can address specific health needs more effectively and sustainably.

One successful example of community-based intervention is the use of Community Health Workers (CHWs). CHWs are trained individuals who provide basic health services and education within their communities. They plays an important role in promoting preventive health behaviors, facilitating access to healthcare and supporting disease management. CHWs are particularly effective in rural and underserved areas where healthcare resources are limited.

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Another innovative community-based approach is the use of Participatory Action Research (PAR). PAR involves collaboration between researchers and community members to identify health issues, develop solutions and evaluate outcomes. This approach empowers communities to take ownership of their health and fosters trust and cooperation between public health professionals and the communities they serve.

Effective public health policy and legislation are critical for creating environments that support health and well-being. Governments and public health organizations are increasingly

recognizing the need for policies that address the social determinants of health, such as education, housing and income. By addressing these underlying factors, public health policies can create conditions that promote healthier lifestyles and reduce health disparities. Similarly, policies that promote healthy eating, such as regulations on food labeling, marketing restrictions on unhealthy foods and initiatives to increase access to healthy foods are crucial for combating obesity and related NCDs.

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