CHATGPT IN PUBLIC HEALTH

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Abstract
ChatGPT, a language model developed by open AI, has the potential to play in public health. With its ability to generate human-like text bases on large amounts of data, ChatGPT has the potential to support individuals and communities in making informed decisions about their health. However, as with any technology, there are limitations and challenges to consider when using ChatGPT in public health. In this overview, the potential uses of ChatGPT in public health, as well as the advantages and disadvantages of its uses, future scope ChatGPT, Cyber security in Medical Information and its capabilities is examined.

Keywords: ChatGPT, Public health, AI, Cybersecurity

I. INTRODUCTION TO CHATGPT
ChatGPT is a neutral language processing tool driven by AI technology that allows to have conversations and much more Chatbot. The language model can answer questions and assist you with tasks like composing emails, essays, and code. It can also use to generate creative writing such as poetry and stories. The future of ChatGPT most likely lies in improving its language generation and making it more accessible and user-friendly for various applications. As AI advances, ChatGPT may be integrated into products like virtual assistants and customer service chatbots.

II. CHATGPT IN PUBLIC HEALTH
Public health is the science of protecting and improving their communities. This work is achieved by promoting healthy lifestyles, researching diseases and injury prevention, and detecting, preventing and responding to infectious diseases.[1]

ChatGPT Can be used in promoting health issues. Here are some examples of how ChatGPT can be used in community health:

(1) Providing information on public health issues, such as infectious diseases, chronic diseases, and Environmental health hazards.
(2) Answering questions about health promotion and disease prevention strategies.
(3) Explaining the role of community health workers and health educators.
(4) Discussing the impact of social and environmental factors on community health.
(5) Providing information about community health programs and services.

III. PROVIDING INFORMATION ON PUBLIC HEALTH ISSUES
ChatGPT can provide information on public health issues, such as infectious diseases and environmental health hazards along with examples. [4]

IV. HEALTH PROMOTION AND DISEASES PREVENTION STRATEGIES
ChatGPT Can answer questions about health promotion and disease prevention strategies and provide examples:

Healthy lifestyle choices ChatGPT can provide information about strategies for promoting healthy lifestyle choices, such as regular physical activity, a healthy diet and avoiding harmful substances, such as tobacco and excessive alcohol consumption.

Vaccination ChatGPT can provide information about the importance of vaccination in preventing the spread of infectious diseases, and answer questions about the types of vaccines available and their recommended schedules.

Screening and early detection ChatGPT can provide information about the importance of regular screening tests, such as mammograms and colon cancer screening, in detecting diseases at an early stage, then they are more treatable.

Risk factor reduction ChatGPT can provide information about strategies for reducing risk factor for chronic diseases, such as managing stress, controlling blood pressure and cholesterol levels, and avoiding tobacco and excessive alcohol consumption.

Environmental health ChatGPT can provide information about strategies for protecting environmental health, such as reducing exposure to hazardous chemicals and pollutants, and promoting the use of environmentally friendly products and practices [2].
V. EXPLAINING THE ROLE OF COMMUNITY HEALTHY WORKERS AND HEALTH EDUCATORS
ChatGPT can be used to explain the role of community health workers (CHWs) and health educators in promoting and protecting the health of populations, especially in urban and rural communities. ChatGPT can be used to provide information about the qualifications, responsibilities and training required for these positions, as well as the impact they have on community health outcomes.

VI. DISCUSSING THE IMPACT OF SOCIAL AND ENVIRONMENTAL FACTORS ON COMMUNITY HEALTH
Social and environmental factors, such as poverty, lack of access to health care, poor housing conditions and exposure to hazardous chemicals and pollutants, can have a significant impact on the health of individuals and communities. ChatGPT can provide information on how these factors contribute to health disparities and the challenges faced by the communities in addressing them.

VII. PROVIDING INFORMATION ABOUT COMMUNITY HEALTH PROGRAMS AND SERVICES
ChatGPT can provide information about the types of community health programs and services available, the population they serve, and the specific health outcomes they aim to achieve. Additionally, ChatGPT can provide information about the eligibility criteria for accessing these programs and services, as well as the costs involved and the insurance coverage available.

VIII. CONS OF USING CHATGPT IN PUBLIC HEALTH
There are some disadvantages of using ChatGPT in public health:
1. Limited accuracy.
2. Bias and limitations of data.
3. Lack of context.
4. Limited engagement.
5. No direct interaction with health professionals.
7. Corruption.
8. Overcrowding of clinics.
9. Hospital fire.
10. Poor cooperation between public and private spheres.
11. Barriers of access.

However some of its disadvantage must be considered carefully as well. Ultimately it is up to each to decide if the potential benefits of using chatGPT in public health are worth the risk.

IX. CYBERSECURITY IN THE MEDICAL INFORMATION
Protecting the medical information is the critical aspects of healthcare, as it is highly sensitive and personal. Medical Information includes patients personal information, medical history and health record, and its unauthorized disclosure or theft can cause serious harm to patients. Protecting medical information is the critical aspects of cybersecurity in the healthcare industry. Medical Information is highly sensitive and personal, and its unauthorized disclosure or theft can cause serious harm to patients. Some of the ways to protect medical information include:

- Encryption: Encryption medical data can prevent unauthorized access to information, even if it is intercepted or stolen.
- Access Controls: Implementing strict access controls, such as multi-factor authentication, can provide unauthorized individuals from gaining access to medical information.
- Network Security: Implementing firewalls, intrusion detection and prevention system, and other system security measures can help protecting against cyberattacks.
- Compliance: Adhering to industry regulations, such as HIPAA, can help ensure that medical information is being handled and protected in accordance with legal and ethical standards.
- Regular Security Audit: Regularly audit the security infrastructure of the organization to detect any vulnerabilities and risks.
- Employee Education: Regularly educate and train employees on security best practices and the importance of protecting medical information.

X. CONCLUSION
In conclusion, ChatGPT is a valuable tool for providing information and answering questions in various fields, including public health. However, it is important to acknowledge its limitations and supplement its use with other resources to ensure accurate and effective public health outcomes. The use of ChatGPT in public health should be carefully considered and implemented with caution.
REFERENCES


