

# Global Health Hotspots: Mpox Surges, mRNA Frontiers, and Climate's Toll

Global Health · Practice Test · 8 Questions

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**1. As of late 2024, what specific clade of the mpox virus has been identified as causing outbreaks in the Democratic Republic of the Congo and spreading to neighboring countries, leading to a Public Health Emergency of International Concern (PHEIC) declaration by the WHO on August 14, 2024?**

- A) Clade Ia
- B) Clade IIb
- C) Clade Ib
- D) Clade III

**2. Beyond its role in combating COVID-19, mRNA vaccine technology is being rapidly developed for various applications. Which of the following is NOT a prominent area of current mRNA vaccine research and development?**

- A) Personalized cancer immunotherapy
- B) A universal influenza vaccine
- C) Treatments for autoimmune and genetic disorders
- D) Traditional vaccines for eradicated diseases like smallpox

**3. The World Health Organization (WHO) declared an end to the COVID-19 Public Health Emergency of International Concern (PHEIC) on which date, citing a sustained downward trend in cases and pressure on health systems?**

- A) May 5, 2022
- B) January 30, 2023
- C) May 5, 2023
- D) August 14, 2024

**4. Recent reports highlight the significant health impacts of climate change. Which of the following is a direct consequence of extreme heat events linked to climate change?**

- A) Increased incidence of vector-borne diseases
- B) A rise in suicides and psychiatric hospitalizations
- C) Disruptions in agricultural productivity only
- D) A decrease in food insecurity

**5. The global outbreak of mpox, which began in May 2022, saw a declaration of a PHEIC by the WHO in July 2022. When was this PHEIC status for the \*multi-country outbreak of mpox\* declared over?**

- A) May 2023
- B) August 2024
- C) December 2022
- D) March 2023

**6. The rapid advancement of mRNA vaccine technology has led to explorations beyond infectious diseases. Which of these applications is a key area of focus for mRNA cancer vaccines?**

- A) Developing universal vaccines for all cancer types
- B) Targeting specific tumor cells by encoding neoantigens for personalized immunotherapy
- C) Preventing cancer recurrence through broad immune system activation without specific targets
- D) Enhancing chemotherapy delivery mechanisms

**7. Concerns are rising about the impact of social media on youth mental health. According to recent research, what is a significant factor contributing to negative mental health outcomes among adolescents spending extensive time on social media?**

- A) Increased physical activity and outdoor engagement
- B) Reduced exposure to cyberbullying and online harassment
- C) Social comparison due to idealized online portrayals
- D) Enhanced real-world social interactions and community building

**8. The WHO declared an upsurge of mpox in the Democratic Republic of the Congo and neighboring countries as a Public Health Emergency of International Concern (PHEIC) on August 14, 2024. This followed an earlier PHEIC declaration for a different mpox outbreak in July 2022. What was a key characteristic of the 2022 mpox outbreak that led to the initial PHEIC declaration?**

- A) Its origin was exclusively in non-African countries.
- B) It spread rapidly via sexual contact across a range of countries where the virus had not been seen before.
- C) It was caused by a novel airborne transmission strain.
- D) It primarily affected elderly populations.