Learnings from the pandemic for a resilient recovery

Innovation to overcome COVID-19 and accelerate the transformative pathways to achieve the SDGs

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Black death in Europe 1348-1351

• Highest fatality of any pandemic in history, killing about 20 million people
• Caused by a bacillus spread by infected fleas living on rats
• Traveled along trade routes
LONDON'S Dreadful Visitation:
Or, A Collection of All the
Bills of Mortality
For this Present Year:
Beginning the 27th of December 1664, and
ending the 19th of December following:
As also, The GENERAL or whole years BILL:
According to the Report made to the
King's Most Excellent Majesty,
By the Company of Parish-Clerks of London, &c.
Global Health Security Index: 146 questions organized into

1. PREVENTION
   Prevention of the emergence or release of pathogens

2. DETECTION AND REPORTING
   Early detection and reporting for epidemics of potential international concern

3. RAPID RESPONSE
   Rapid response to and mitigation of the spread of an epidemic

4. HEALTH SYSTEM
   Sufficient and robust health system to treat the sick and protect health workers

5. COMPLIANCE WITH INTERNATIONAL NORMS
   Commitments to improving national capacity, financing plans to address gaps, and adhering to global norms

6. RISK ENVIRONMENT
   Overall risk environment and country vulnerability to biological threats

GHSI 2019
The Global Health Security (GHS) Index analysis finds no country is fully prepared for epidemics or pandemics. Collectively, international preparedness is weak. Many countries do not show evidence of the health security capacities and capabilities that are needed to prevent, detect, and respond to significant infectious disease outbreaks.

The average overall GHS Index score is **40.2** out of a possible 100. While high-income countries report an average score of 51.9, the Index shows that collectively, international preparedness for epidemics and pandemics remains very weak.

At least **75%** of countries receive low scores on globally catastrophic biological risk-related indicators, the greatest vulnerability being oversight of dual-use research.

Although **86%** of countries invest local or donor funds in health security, few countries pay for health security gap assessments and action plans out of national budgets.
Projected health spending in 2050
STI for pandemic preparedness
  • Integrated surveillance
    • Environment and health
  • Digitization
  • Big data and AI
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