China's Responses to COVID-19 Outbreak and Strategies for reopening

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Alert was issued by local authority

Huanan Seafood Market closed

WHO & other countries informed

NHC & China CDC involved in the investigation

Initial cases of pneumonia was noticed & reported

Etiology result info WHO

SARS-CoV-2 identified

RT-PCR test kits

Report WHO/d

Sequence shared with WHO

COVID-19 added to notifiable diseases

Wuhan City “shut down”

15 other cities “shut down”

Initial Events

December 2019

January 2020

7 d

Identify pathogen

2 d

Develop test kits

Key Scientific Findings

- Virus
- Sequence (Test, Vaccine)
- Incubation
- Transmission
Update Epidemic of COVID-19 in China (Sept. 17)

confirmed 85255, suspected 2, PCR(+) 7926; Death: 4,634; Case-fatality Ratio: 5.4%
Outbreak of COVID-19 in Beijing
June 11-July 13, 2020

Dates of onset illness and diagnosis

[Graph showing onset illness and diagnosis dates with bars for each date from June 5 to July 13.]
How was the Epi Center at Xinfadi Market Identified Quickly?

**Index Case:** Mr. T was diagnosed in the morning of June 11th, 2020

**Investigation:** He had visited 23 different places 14 days prior to his diagnosis

**Environment test:** All 23 places environmental samples were collected and test for RT-PRC for COVID-19 virus RNA, only Xinfadi samples showed positive, on June 11th

**2nd – 4th cases:** Also reported Xinfadi exposure on June 11th – 12th

**Vendor Test:** Dozens of vendors were invited to test for COVID-19 virus RNA, and many were tested RT-PCT positive.

**Market closure:** Noon of June 12th, the Xinfadi Market was closed. All vendors and consumers were contained for testing and quarantine.
Precise Responses

**Risk assessment:** Neighborhood communities were classified into High, Medium, or Low risk areas;

**Contact Tracing:** Close contact were very carefully identified and quarantined.

**Restrict moving:** Only those who were close contact or had exposed to high risk areas were restricted to leave Beijing.

**Screening:** Close contacted, had exposure to high risk areas were requested to have RT-PCR test, is free of charge. Some 10 million people were tested.

**Treatment:** All confirmed cases, and PCR positive individuals received treatment in Ditan hospital. No death.
Strategies for Reopening

**Imported cases:** Limiting imported SARS-CoV-2 only at the entry and at hospital setting, no further to community.

**Eliminating local transmission:** Zero local cases for at least 14 days before initiating reopening;

**Step-by-Step:** Reopening based on risk assessment begin with the least risk enterprise, for example, working in field, outdoor business, indoor business with good ventilation; First fully opening with living places, e.g., shopping malls, supermarkets, hotels, restaurants, etc., followed by conditional re-opening indoor public places, e.g., parks, sports venues, libraries, museums, galleries, movie theaters, game halls, etc.

**Using Healthy code:** A countrywide healthy code that documenting past 14 days traveling history is used to assess risk of COVID-19 and linked with cell phone for entry any public buildings, facilities, boarding airplane, speed train, etc.

**Temperature monitor:** Infrared thermometer is universally used at entry all buildings.

**Public health measures:** Normalization of public health measures for public, e.g., social distancing, hand-washing, masks, etc.
Thanks