



**Frontline Worker Safety
in the Age of COVID-19**
Health Watch USAsm

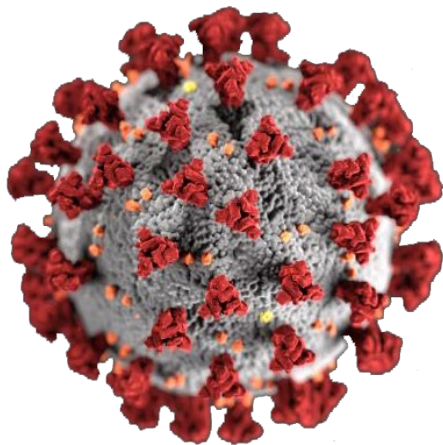


Webinar Sept. 14th, 2022 - Registration Now Open

<https://healthconference.org>



COVID-19: Singapore Update









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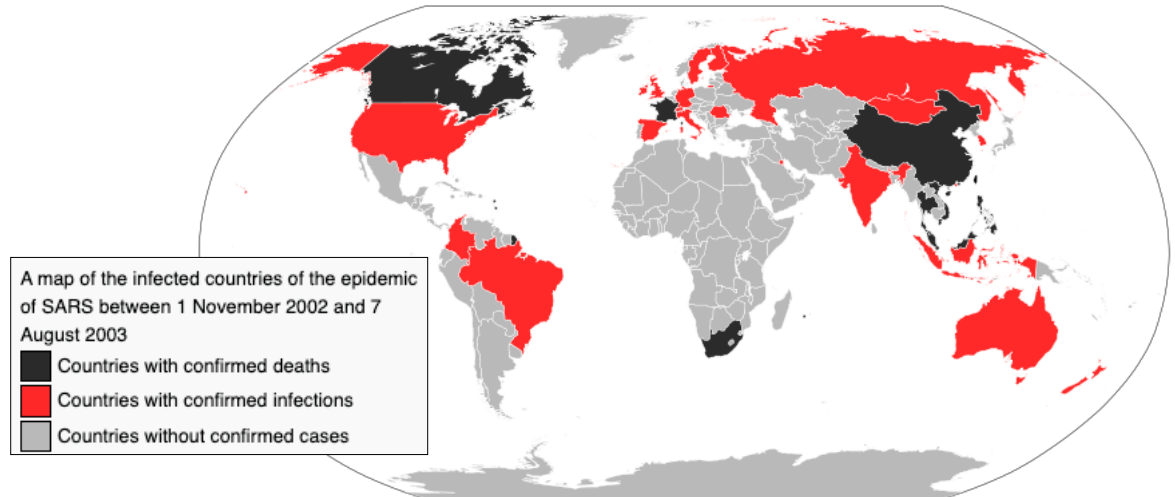
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Background -- Singapore was hit quite badly by the 2003 SARS outbreak

Probable cases of SARS by country and territory,
1 November 2002 – 31 July 2003^[5]

Country or region	Cases	Deaths	Fatality (%)
 Mainland China ^[a]	5,327	349	6.6
 Hong Kong	1,755	299	17.0
 Taiwan ^{[b][6][7]}	346	73	21.1
 Canada	251	44	17.5
 Singapore	238	33	13.9
 Vietnam	63	5	7.9
Total excluding Mainland China	2,769	454	16.4
Total (29 territories)	8,096	811	9.6

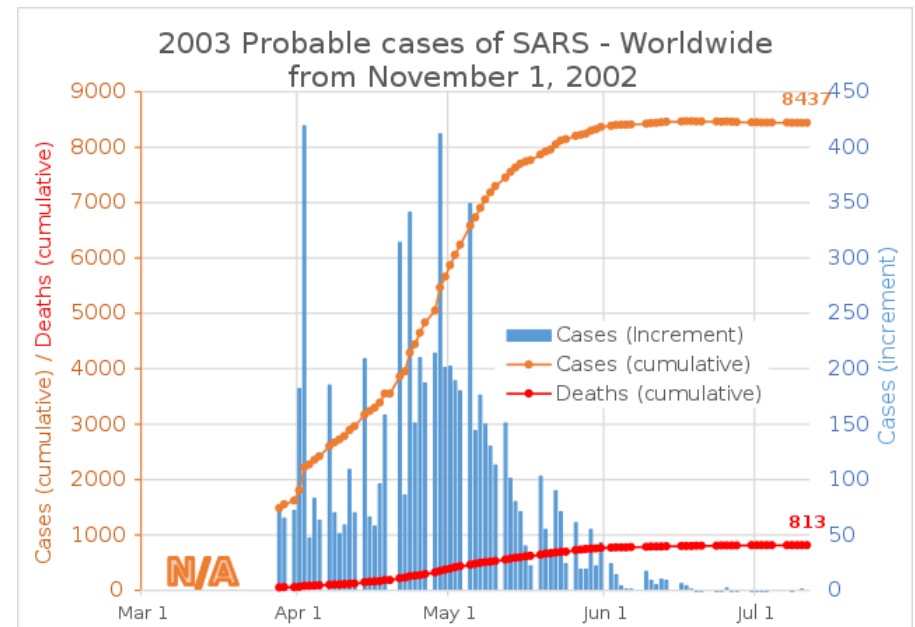
a. [^] Figures for China exclude Hong Kong, Macau and Taiwan, which are reported separately by the WHO.
b. [^] After 11 July 2003, 325 Taiwanese cases were 'discarded'. Laboratory information was insufficient or incomplete for 135 of the discarded cases; 101 of these patients died.



Singapore also had 5 deaths among healthcare workers

Painful Lesson:

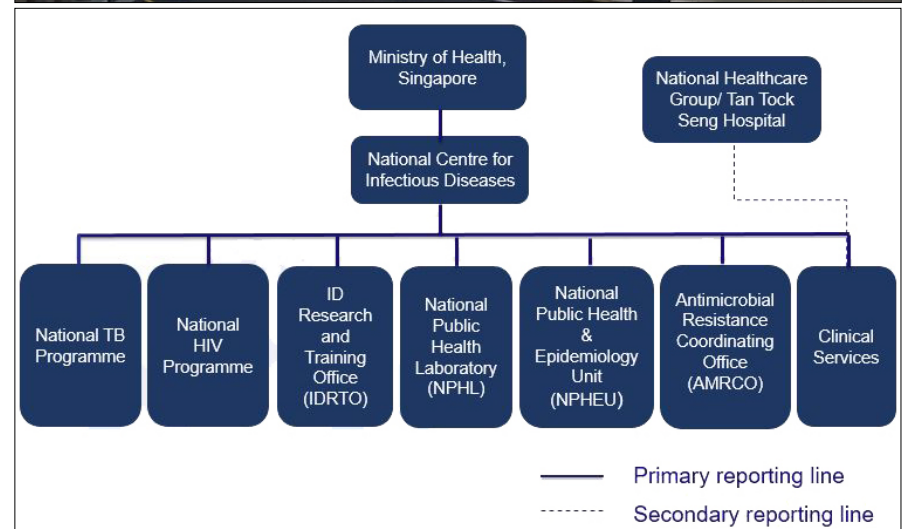
- Due to its exposed location as trade and travel hub, SG is extremely vulnerable to imported infections!



Images: Wikipedia

Singapore National Centre for Infectious Diseases (NCID)

- Purpose-built medical facility within the public healthcare system
- 17 wards, 330 beds, 2 ICUs
- High-level isolation ward capable of handling Ebola, Marburg, anthrax
- Research and diagnostic facilities
- National Public Health Laboratory (NPHL)
- Formally opened on 7 Sept. 2019 (just in time)



Images: Wikipedia (top), NCID (bottom)

Singapore COVID-19 Overview

Singapore – tropical city-state with ~5.5 million population



MINISTRY OF HEALTH
SINGAPORE

COVID-19

COVID-19 Situation at a Glance →

As of 9 Sep 2022, 12:00pm

Total Cases
1,856,673

1,602
Total Deaths

Rate 0.09%

As of 9 Sep 2022, 12:00pm

Hospitalised
239

12
Required Oxygen
Supplementation

9
ICU

New Cases **1,762**
7-day Moving
Average of Local
Cases

205
Local
PCR

1,777
Local
ART

29
Imported
PCR

207
Imported
ART

2,650
Discharged

1
Died

0.96
Week on
Week
Infection
Ratio

Over the last 28 days,

Infected
65,368

99.7%
Had No or
Mild Symptoms

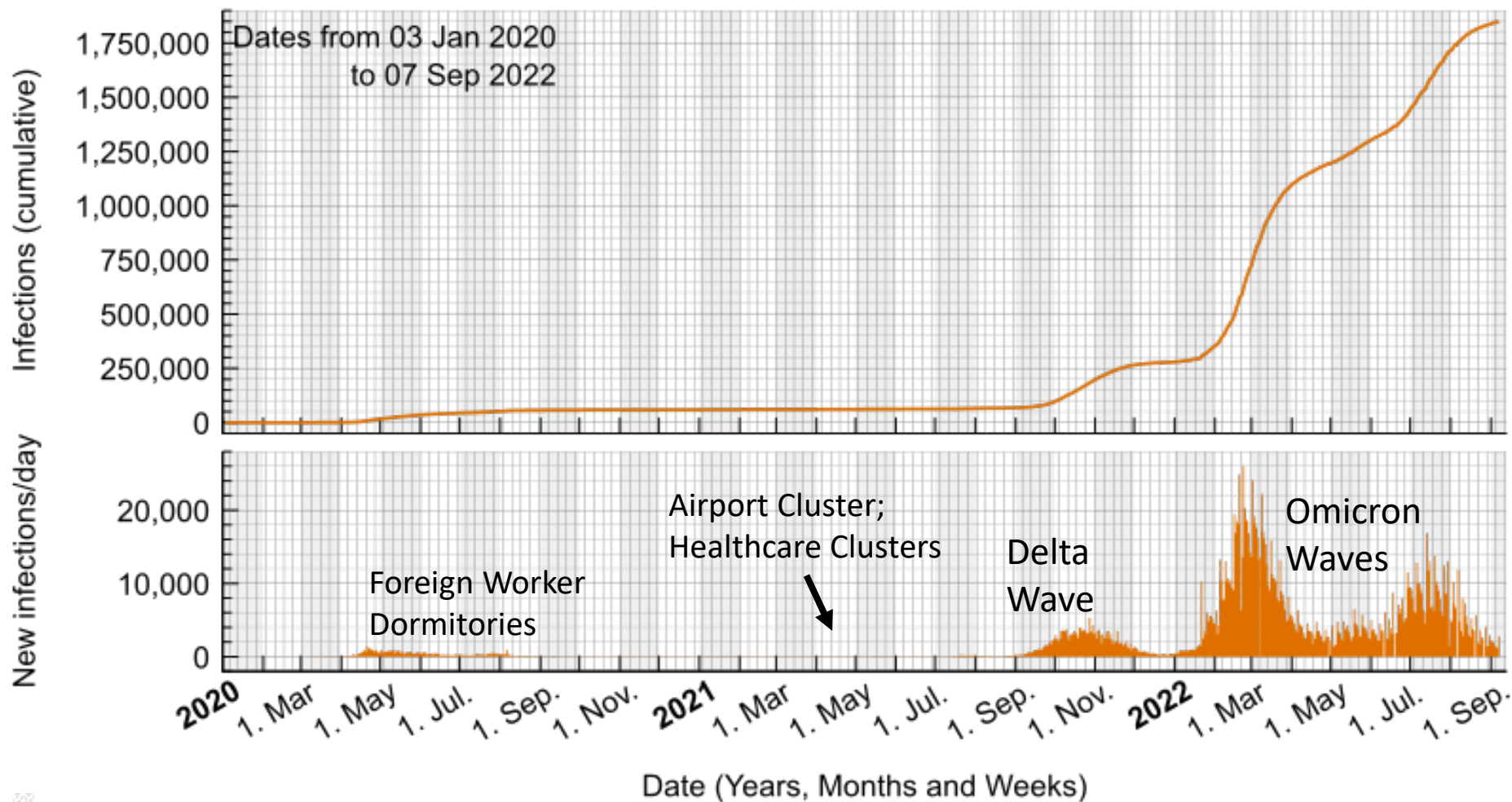
0.3%
Required Oxygen
Supplementation

0.05%
ICU

0.04%
Died

Source: Ministry of Health; <https://www.moh.gov.sg/>

Singapore COVID-19 Cases

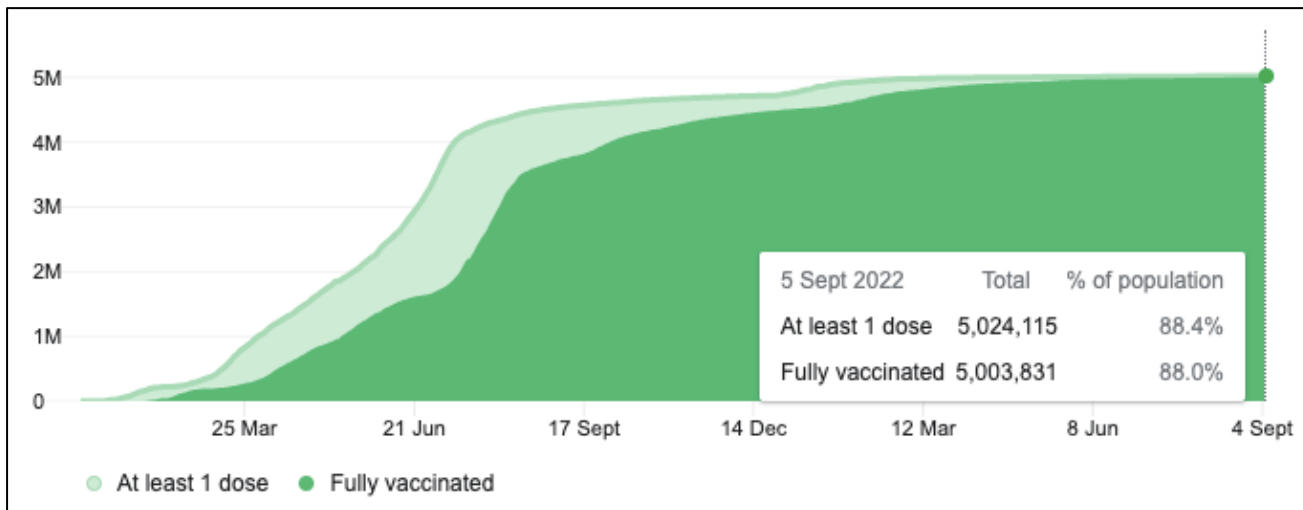


Genomic Surveillance Results (up to July 2022)

Local and imported COVID-19 cases were all Omicron.
70-71% were BA.5; 26-27% were BA.2 and its lineages;
and 2-4% were BA.4.

Sources: Singapore MOH
Wikipedia
WHO

Singapore Vaccination Status




Vaccines under National Vaccination Programme

- Pfizer-BioNTech/Comirnaty
- Moderna/Spikevax
- Novavax/Nuvaxovid
- Sinovac-CoronaVac

As of 9 Sep 2022 (COVID-19 vaccines under National Vaccination Programme only)

 **93% of total population**
Received at least one dose

 **96% of eligible population**
93% of total population
Completed full regimen

Vaccination Progress



- **93%** Received at least one dose
- **93%** Completed full regimen
- **79%** Received booster shot

 **79% of total population**
Received booster shots

Vaccination Eligibility

Primary series Persons aged 5 years and above.

First booster Persons aged 12 years and above.

Second booster Strongly Recommended:

- Persons 60 years and above.
- Persons living in aged care facilities.
- Medically vulnerable persons.
- Persons aged 50 to 59 years by choice.

Sources: <https://www.moh.gov.sg/covid-19/vaccination>
<https://ourworldindata.org/covid-vaccinations?country=SGP>

Current Pandemic Measures (Sep. '22)

- Singapore had comparatively strict pandemic measures 2020 through 1st half 2022
- Year 2022 saw stepwise loosening of measures

Public Measures

- Mandatory mask-wearing only for healthcare facilities, public transportation and taxis
- No more limits to group sizes of public gatherings
- No more vaccination-differentiated measures except for group sizes >500, F&B establishments, bars and nightlife
- No more safe distancing requirements
- All employees may return to the workplace

Travel

- Travel returned to nearly normal by Sep 2022
- Travelers ≤ 12 y/o or fully vaccinated travelers may enter SG w/o testing or quarantine
- Not fully vaccinated travelers need pre-departure test and COVID-19 travel insurance

Healthcare Establishments

- Mandatory mask-wearing required
- Visitor numbers in hospitals eased to 2 per patient; 5 per critically ill patient; max 30 min

On to the First Session

Time*	Presenter	Title
9:00-9:30 am	Dr. Ziyad Al-Aly	An Overview of Long COVID
9:30-10:00 am	Prof. Imogen Mitchell	Australia's Experience of COVID-19 Workplace Safety
10:00-10:30 am	Prof. Lidia Morawska	Airborne Infection Transmission & Impact on Frontline Workers
10:30-11:00 am	Prof. Nele Brusselaers	Evaluation of science advice during the COVID-19 pandemic in Sweden
11:00-11:30 am	Prof. Laith Jamal Abu-Raddad	Immune protection of COVID-19 vaccination and natural infection
11:30 am-12:00 pm	Prof. Eike Steinmann	Transmission and Inactivation of SARS-CoV-2
12:00-12:45 pm	Lunch Break	

* US Eastern Time Zone (e.g. New York, Boston)