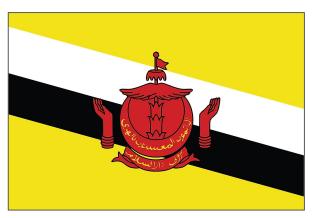
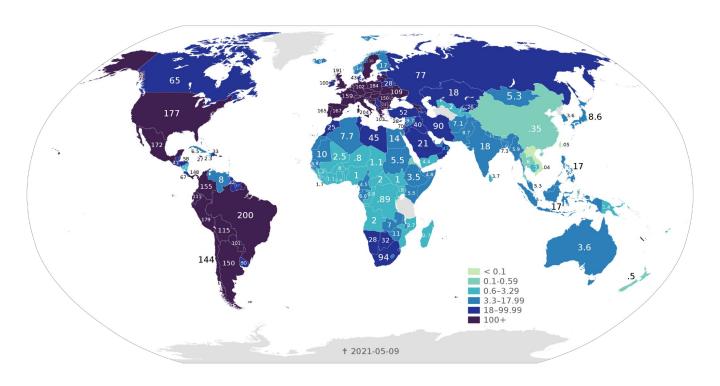
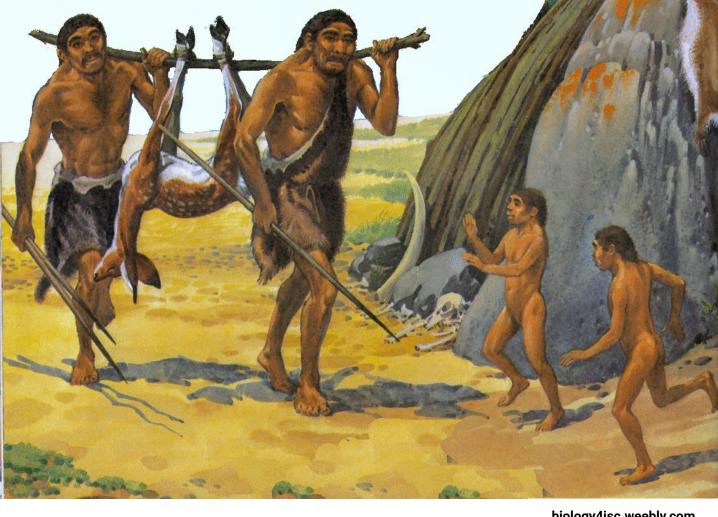
# ADDRESSING PANDEMICS THROUGH POPULATION-HEALTH BASED APPROACHES

COLONEL DR <u>LO</u> HONG YEE CHIEF OF MEDICAL CORPS, SINGAPORE ARMED FORCES

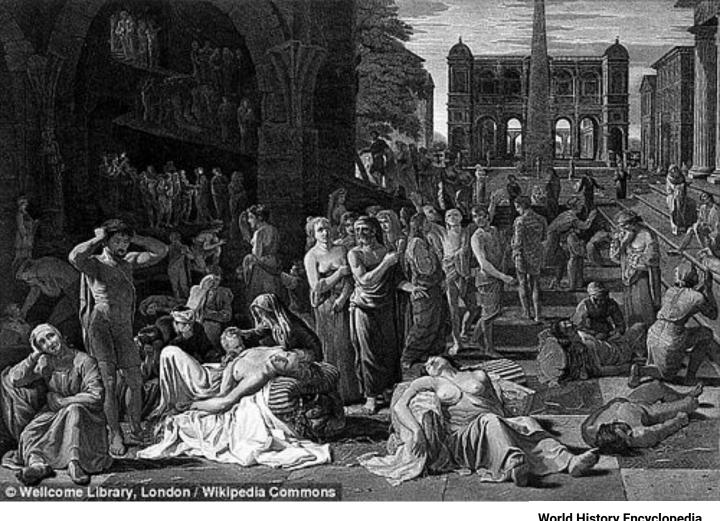








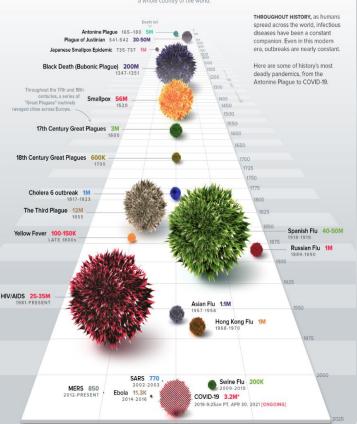
biology4isc.weebly.com

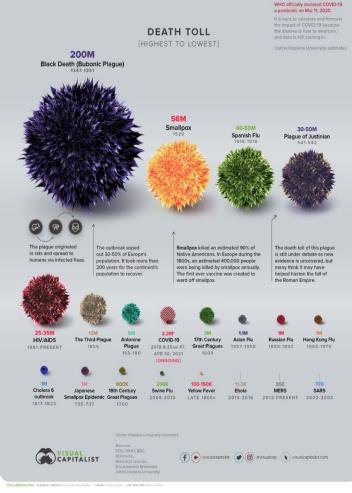


**World History Encyclopedia** 

## HISTORY OF PANDEMICS

PAN-DEM-IC (of a disease) prevalent over a whole country or the world.







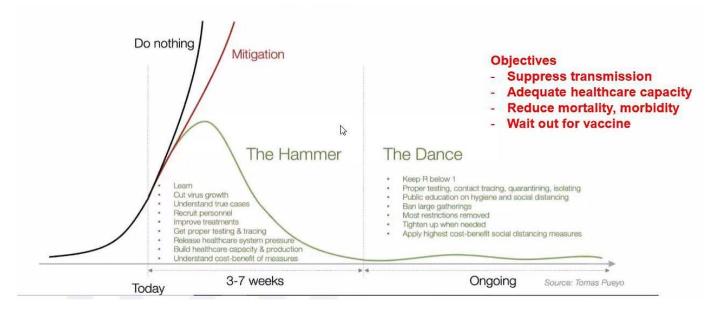




# COVID-19 in Singapore

## **Epidemic Curve**







\$112 MILLION OFFER?: Real Madrid wants David Beckham and Man United star is keen sports ato

# **The Straits Times**

Thursday . March 27, 2003 . 208 Pages in five parts . MITA (P. 01300/200) .

A Singuese Proof Holdings publication 60 case

SARS OUTBREAK

# All schools closed till April 6

Action to calm worried parents; June holidays will be shortened; first two patients die

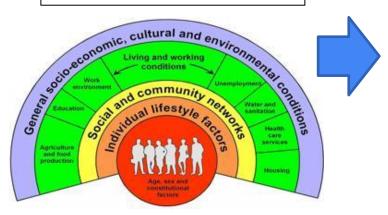


OUTDOOR SCREENING. Tests have been errected in front of Tan Took Seng Hospital's accident and emergency department since Monder. They form a ing centre for suspected Severe Acute Respiratory Syndrome cases at the hospital, which has stopped admitting new patients

Bush orders 30,000 more troops to Iraq



# Multiple Determinants of Health



Dahlgren, G and Whitehead, M. 1991. Policies and Strategies to Promote Social Equity in Health. Stockholm Sweden: Institute for Future Studies.

# Multiple Determinants to Address



Multi-Ministry Taskforce on Wuhan Coronavirus Terms of Reference (TORs) and Composition

#### The Taskforce will:

- Direct the national whole-of-government response to the novel coronavirus outbreak;
- Coordinate the community response to protect Singaporeans and stay vigilant against the spread of the disease; and
- Work with the international community to respond to the outbreak.

#### Multi-Ministry Task Force

- Multiple Stakeholders (Various Ministries, public and private sectors, community-at-large)
- · Coordinated response

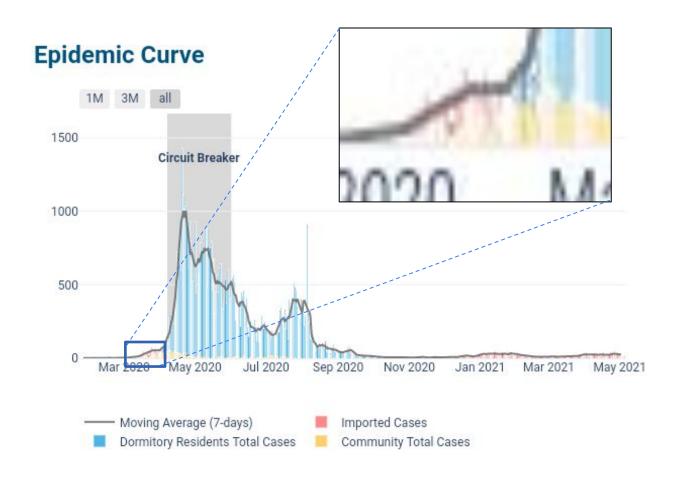
# 7 Feb 2020: Panic Buying and Empty Shelves



# 8 Feb: Restocked









#### Singapore

Two weeks and a 70-fold increase: A look into the COVID-19 outbreak in Singapore's foreign worker dormitories



Workers queue for food at S11 Dormitory @ Punggol on Apr 6, 2020. (Photo: Reuters / Edgar Su)

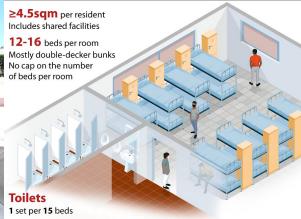




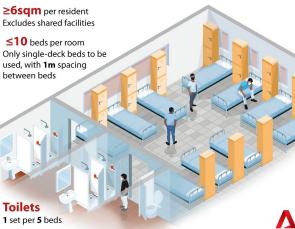


#### **NEW STANDARDS FOR SINGAPORE'S MIGRANT WORKER DORMITORIES**

#### **Current dormitories**



#### **Improved dormitories**



# Role of the Military

# UNIQUE POSITION

# Multiple Determinants of Health



## Military Staff System

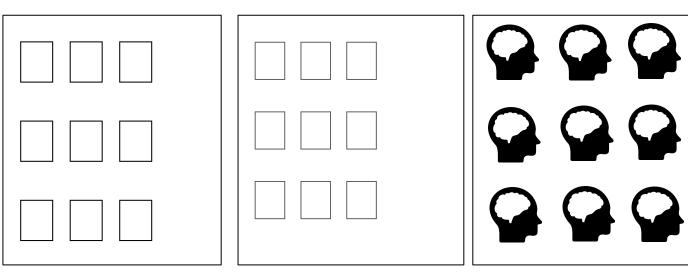
- 1. Manpower
- Intelligence
- 3. Operations
- 4. Logistics
- 5. Plans
- 6. Signals
- 7. Training
- 8. Finance
- Civil-Military Co-Operation

\*Source: Wikipedia – Continental Staff System

# Stockpiling



# Stockpiling



Physical Equipment

Manpower

Planning & Operations Capacity

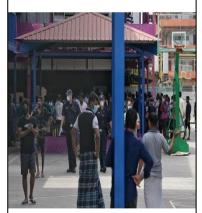
#### < SINGAPORE







Coronavirus: 'Fast' teams in place at all 43 dormitories to tackle situation



Police officers at the S11 Dormitory @ Punggol on Monday. Each forward assurance support team, or "Fast" team, comprises officers from the Singapore Armed Forces, police and Ministry of Manpower, ST PHOTO: KEVIN LIM

O PUBLISHED APRIL 10, 2020 5:00 AM

Each team will have officers from SAF, police and MOM; medical posts set up in the dorms

3,000 Covid-19 patients housed at six community recovery facilities in SAF camps



Patients are able to move about freely within the community recovery facilities. PHOTO: MINDEF

O PUBLISHED MAY 06, 2020 7:10 PM

#### < SINGAPORE







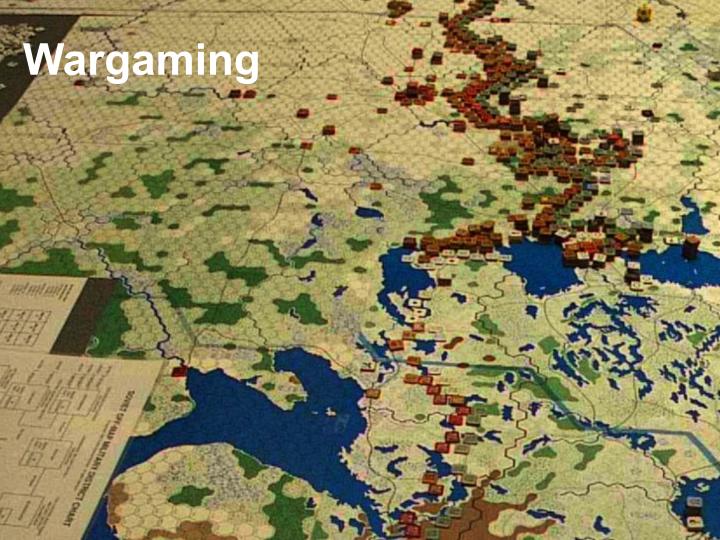
100 soldiers from SAF Medical Corps deployed to care for Covid-19 patients at Singapore Expo



(From left) Pte Terrenjit Gill, SLTC Daryl Tam and LTC (NS)(Dr) Gabriel Cheong at Singapore Expo on April 30, 2020. ST PHOTO: LIM YAOHUI

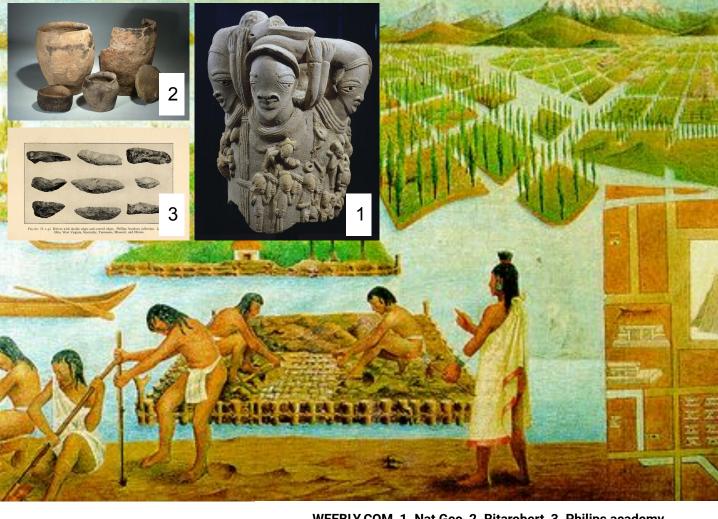
O PUBLISHED APRIL 30, 2020 4:16 PM

# Crystal Ball Gazing, or...



## Conclusion

- Health is not just healthcare. The "Population Health-Based Approach" is required for pandemics because it exposes every possible weakness in the population.
- Militaries are particularly relevant in response to pandemics because of our habits, discipline, stockpiling efforts and our systematic approach to missions.



WEEBLY.COM, 1. Nat Geo, 2. Ritarobert, 3. Philips academy



**MATTHEW SNEDKER** 

# THANK YOU

