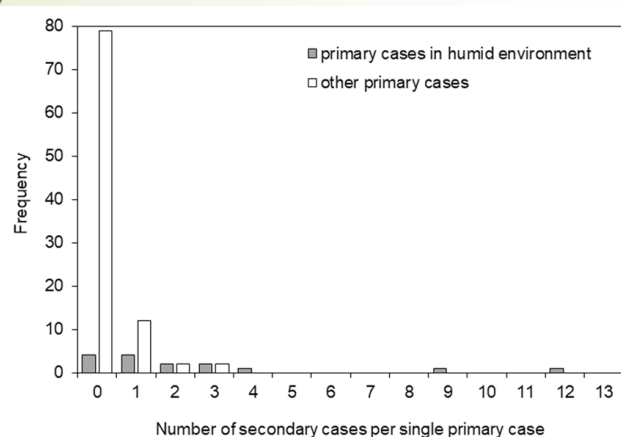


Japan's COVID-19 Response (2020/7/02)

OSHITANI Hitoshi, M.D. Ph.D, M.P.H. - Professor, Department of Virology, Tohoku University Graduate School of Medicine; member of government advisory panel on COVID-19

Epidemiological characteristics of COVID-19 and SARS ①

SARS



Nishiura H et al. MedRxiv
<https://doi.org/10.1101/2020.02.28.20029272>

COVID-19

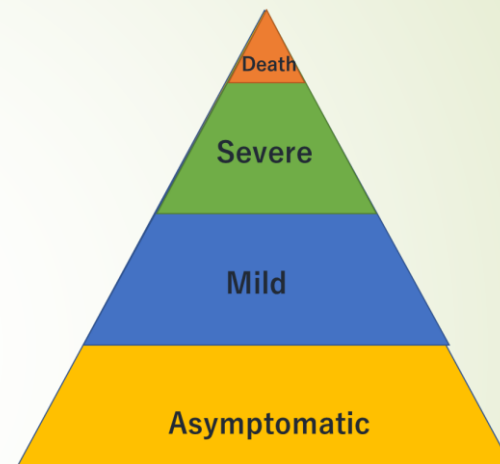
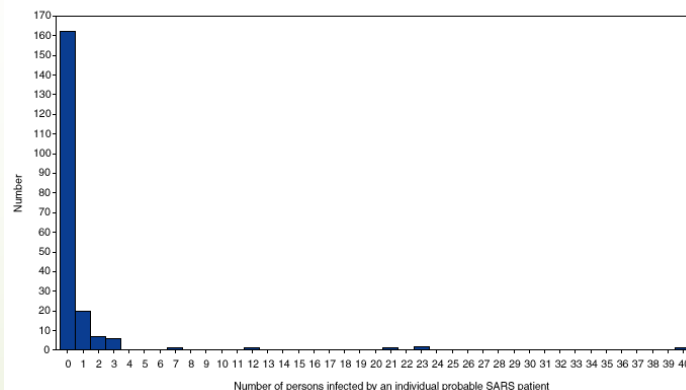


FIGURE 3. Number of direct secondary cases from probable cases of severe acute respiratory syndrome — Singapore, February 25–April 30, 2003



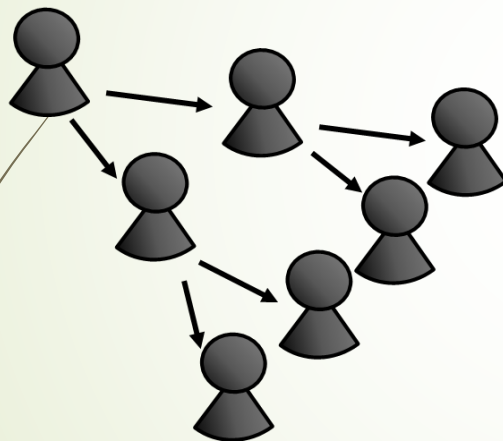
Leo YS et al. MMWR, 52(18); 405-411, 2003

3

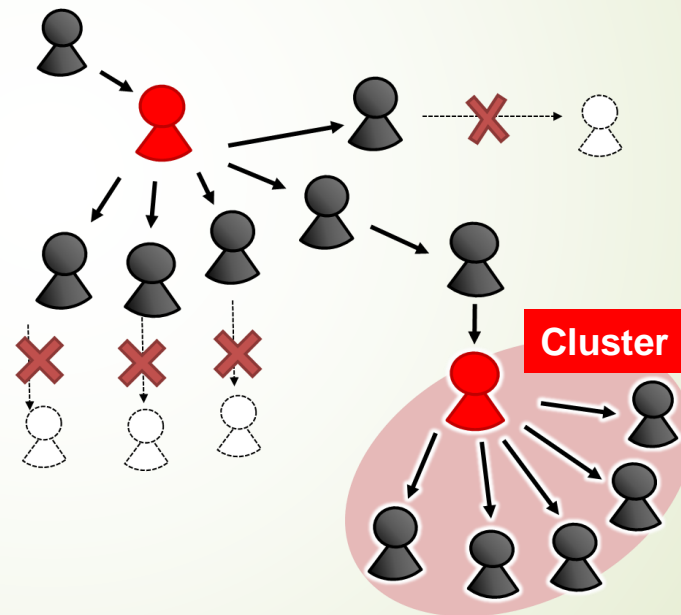
Japan's cluster-based approach

- ① At an early stage, Japanese public health experts identified the virus' characteristic **mode of transmission**

Influenza



COVID-19



COVID-19 spreads by forming clusters. **Preventing clusters, especially in the early phase of an outbreak, can result in suppression of the virus**

4

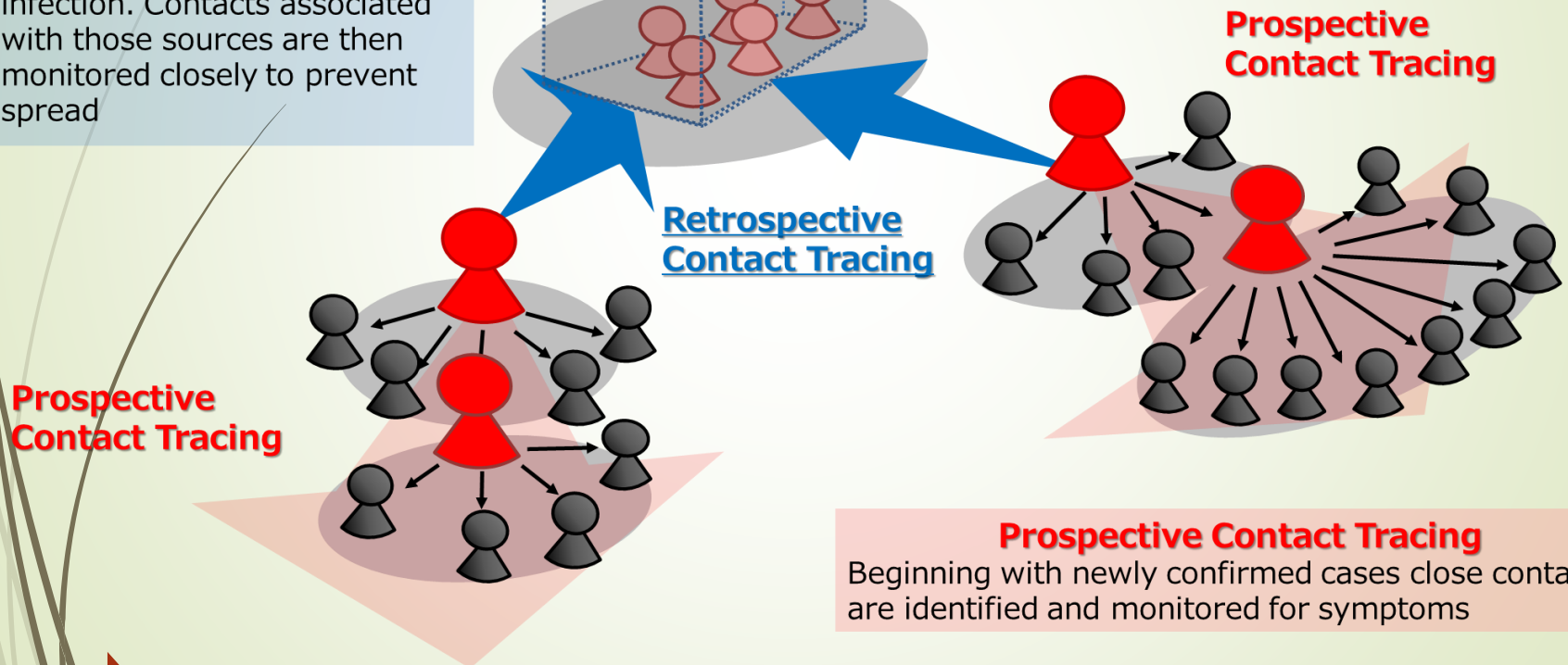
Japan's cluster-based approach

2

Retrospective Contact Tracing

Past activities of infected people are investigated in order to identify common sources of infection. Contacts associated with those sources are then monitored closely to prevent spread

Common Source of Infection



Retrospective tracing can identify infections more efficiently than a strictly prospective approach, enabling more effective control


The “Three Cs”

- Based on analysis of the shared characteristics of clusters, Japan developed a concept called the “Three Cs” to denote high-risk places and situations
 - Closed spaces
 - Crowded places
 - Close-contact settings
- The public was asked to avoid the Three-Cs; awareness of the term became widespread
- Further analysis of many clusters identified additional risk factors such as exercise, talking in loud voice, singing and nightlife-setting

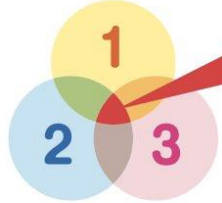
Important notice for preventing COVID-19 outbreaks.

Avoid the “Three Cs”!

1. **Closed spaces** with poor ventilation.
2. **Crowded places** with many people nearby.
3. **Close-contact settings** such as close-range conversations.






One of the key measures against COVID-19 is to prevent occurrence of clusters. Keep these “Three Cs” from overlapping in daily life.

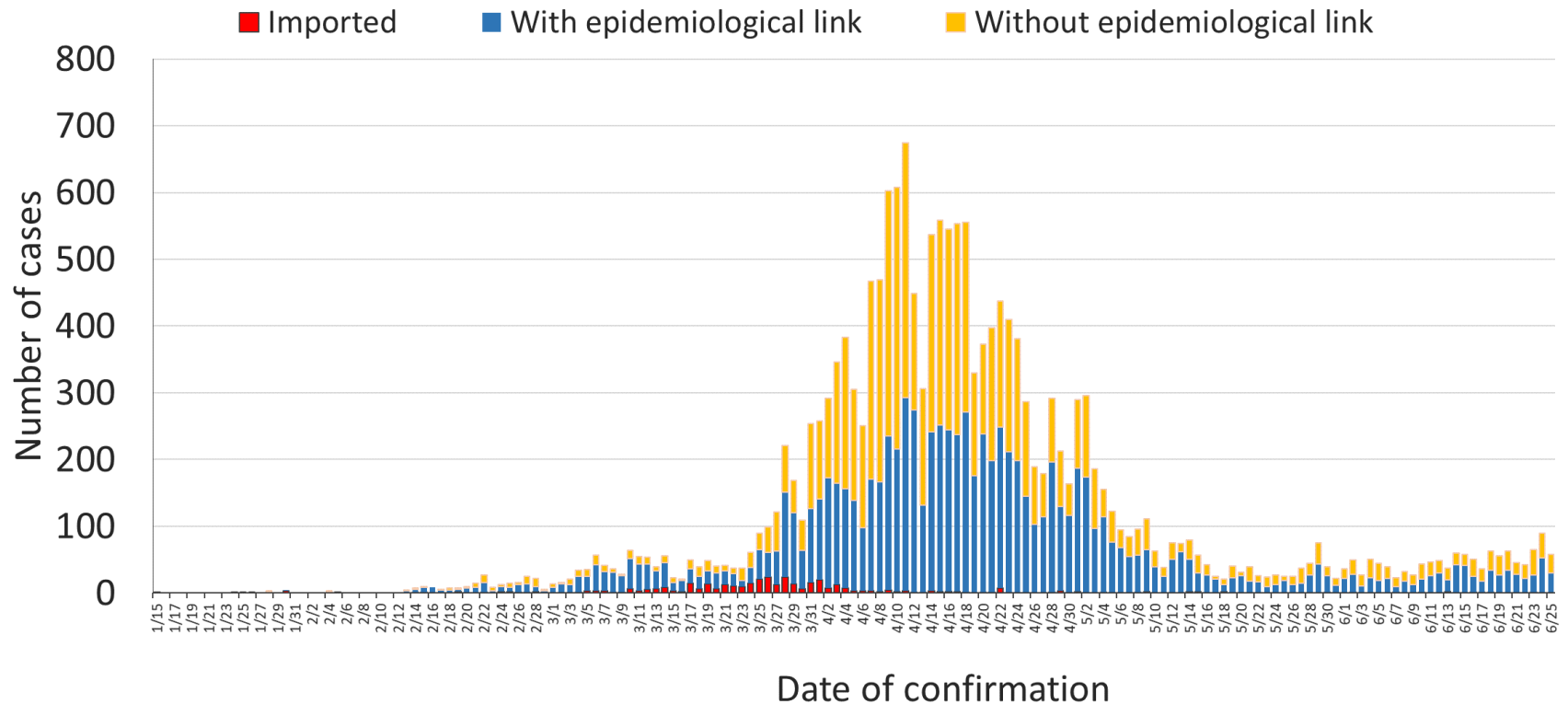


The risk of occurrence of clusters is particularly high when the “Three Cs” overlap!

In addition to the “Three Cs,” items used by multiple people should be cleaned with disinfectant.

首相官邸  厚生労働省  MHLW COVID-19 Search 

Epidemiology of COVID-19 in Japan, January – June 2020



COVID-19 deaths and deaths per 100,000 in G20 countries

