2023 Global Health and Welfare Forum in Taiwan

Parallel Session 1

Global Health Security: To Build Sustainable Preparedness for and Response to the Next Pandemic

The Experiences of COVID-19 and Future Challenges for Infectious Disease Control in Japan

KAWASAKI CITY

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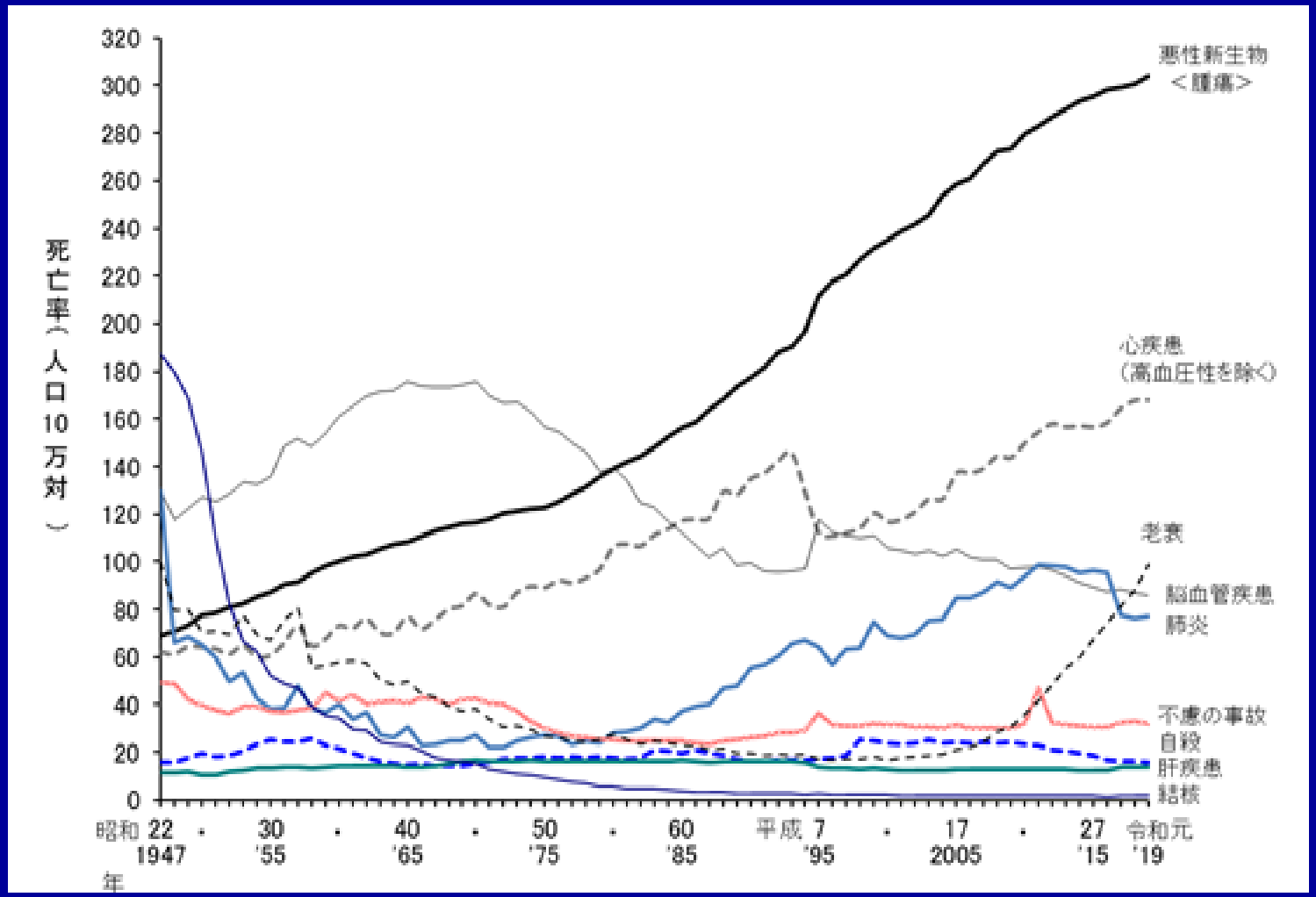
7 Nov 2023

Mortality rate (per 100 thousands population) 1947~2019 in Japan



Malignancy

Cardiovasucular dis.

Old age
Brain vascular dis.
Pneumonia

Accident
Suicide
Hepatic dis.
TB

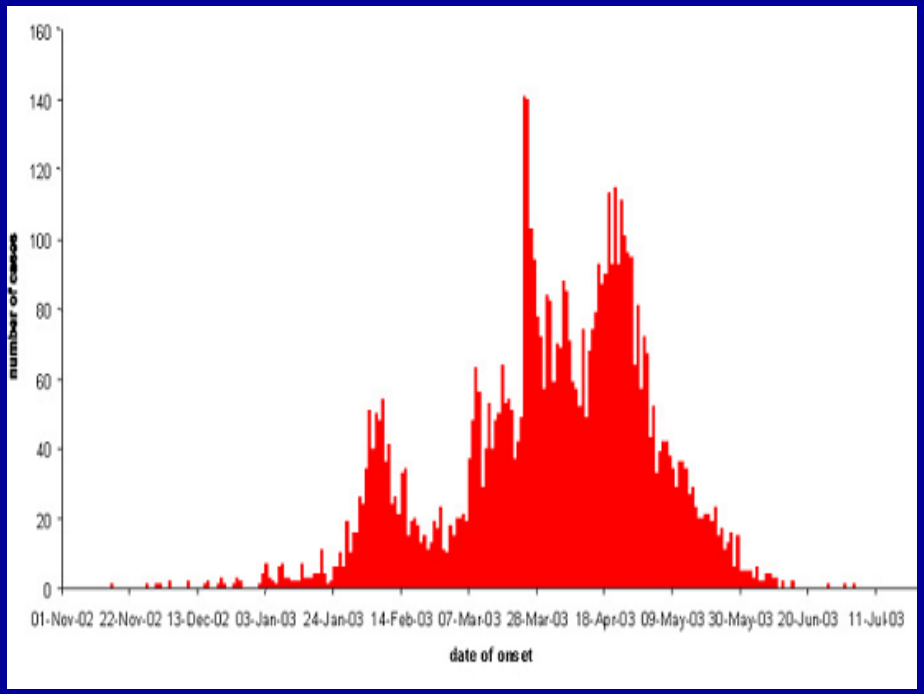
Infectious diseases control law

Become effective on April 1, 1999

Direction of the new law-1

- **Strengthen the preparedness**
- **New surveillance system**
- Equip with basic guidelines for comprehensive
- promotion of infectious disease prevention
- Formulation of diseases specific control guide line
- Promotion of international cooperation

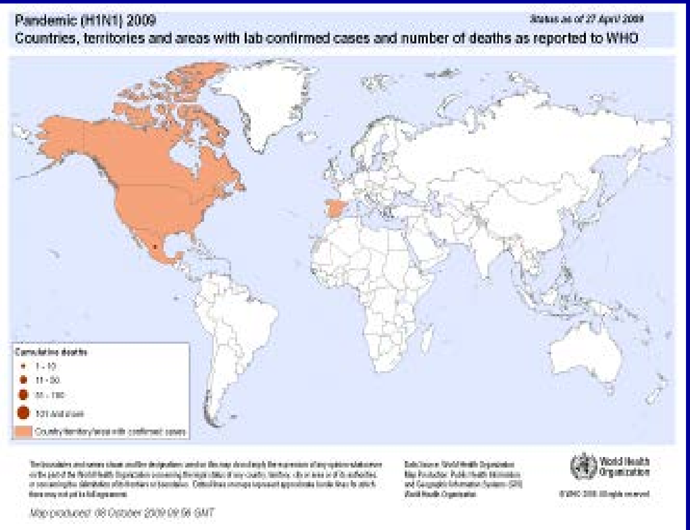
2001.9.11　米国同時多発テロ
2002~2003　SARS

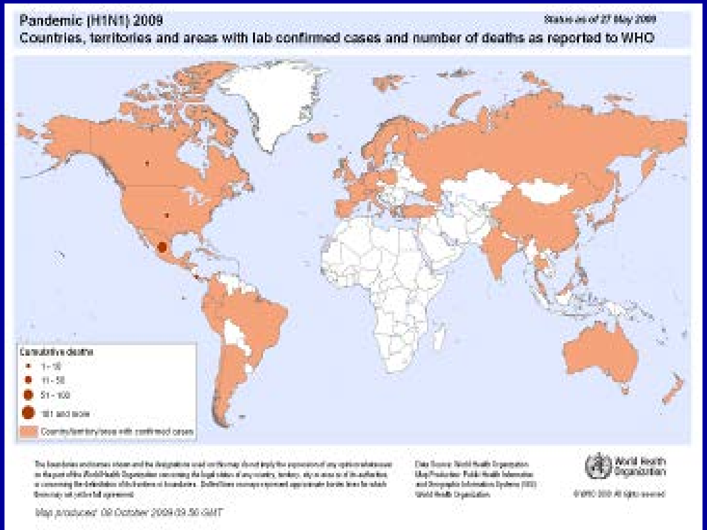


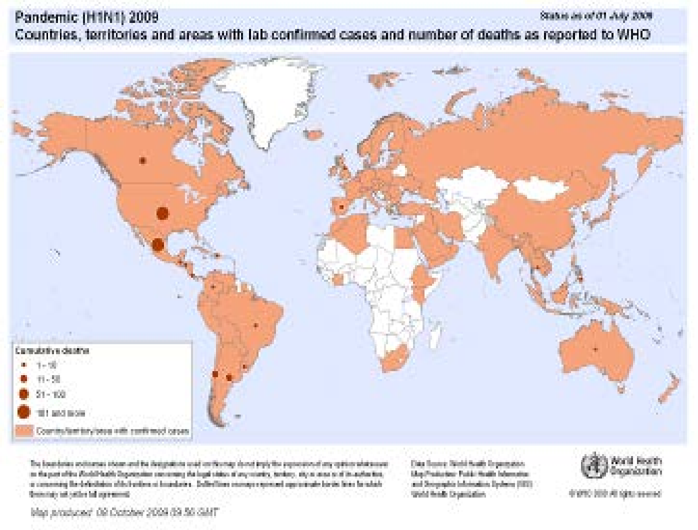
Infectious Dis Control Law; enacted at 2003

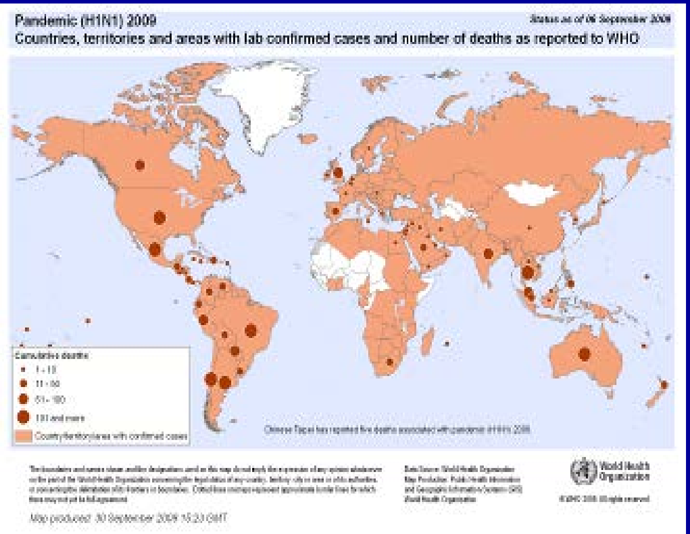
- **Strengthening measures against serious infectious diseases (Strengthening the role of the country)**
- **Flexible implementation of active surveillance.**
- **Emergency response**
- **Coordination when wide area response is required.**
- **Strengthening measures against zoonotic diseases.**

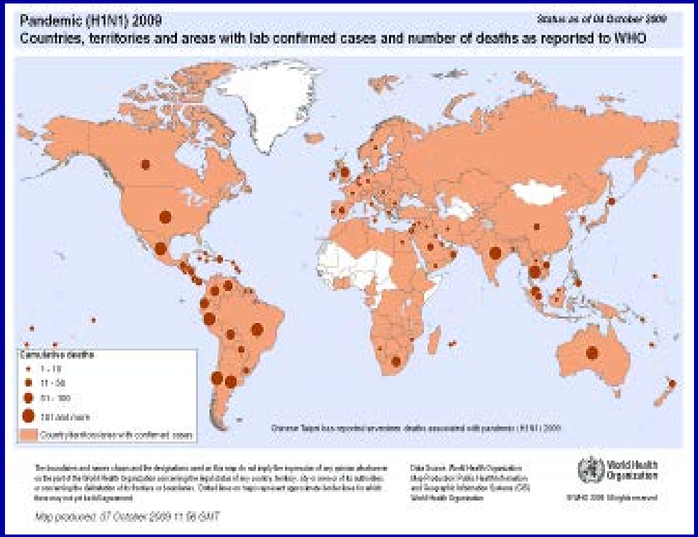
Influenza Pandemic H1N1 2009 2009.4.-12.









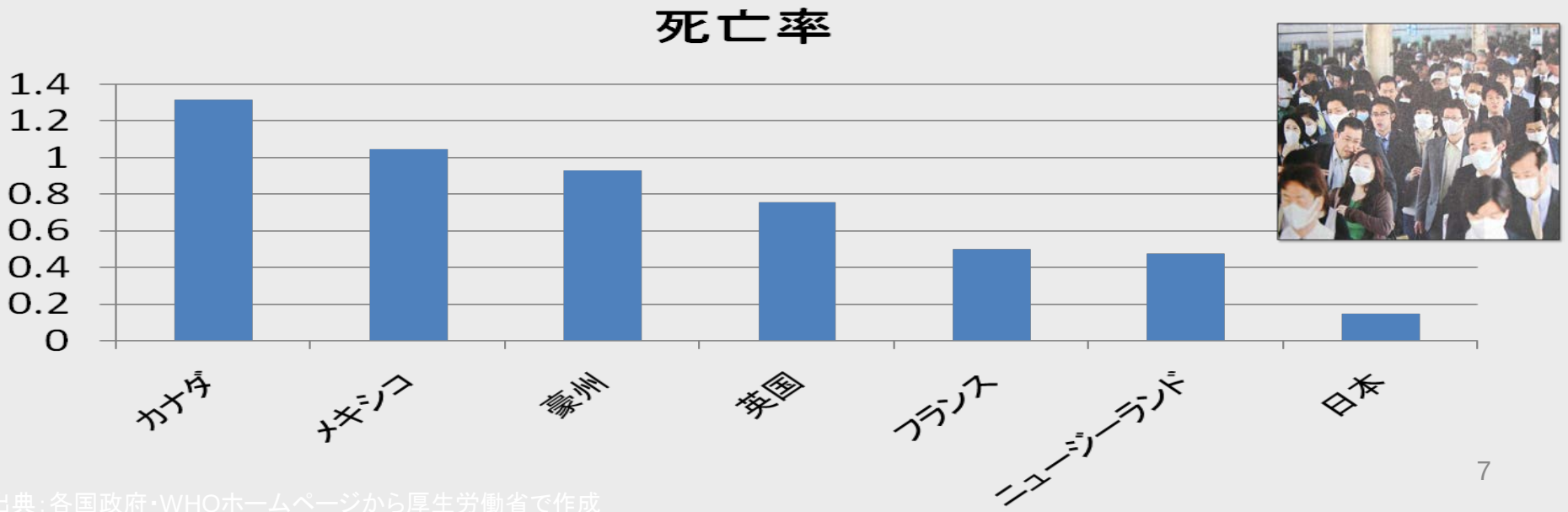


Mortality rate among 100t population on Pandeic Influenza 2009

	米国	カナダ	メキシコ	豪州	英国	フランス	NZ	日本
集計日	2/13	3/13	3/12	3/12	3/14	3/16	3/21	3/23
死亡数	推計 12,000	429	1,111	191	457	309	20	198
人口10 万対 死亡率	(3.96)	1.32	1.05	0.93	0.76	0.50	0.48	**0.16**

※尚、各国の死亡数に関してはそれぞれ定義が異なり、一義的に比較対象とならないことに留意が必要。

Canada Mexico AUS UK France NZ Japan



出典：各国政府・WHOホームページから厚生労働省で作成

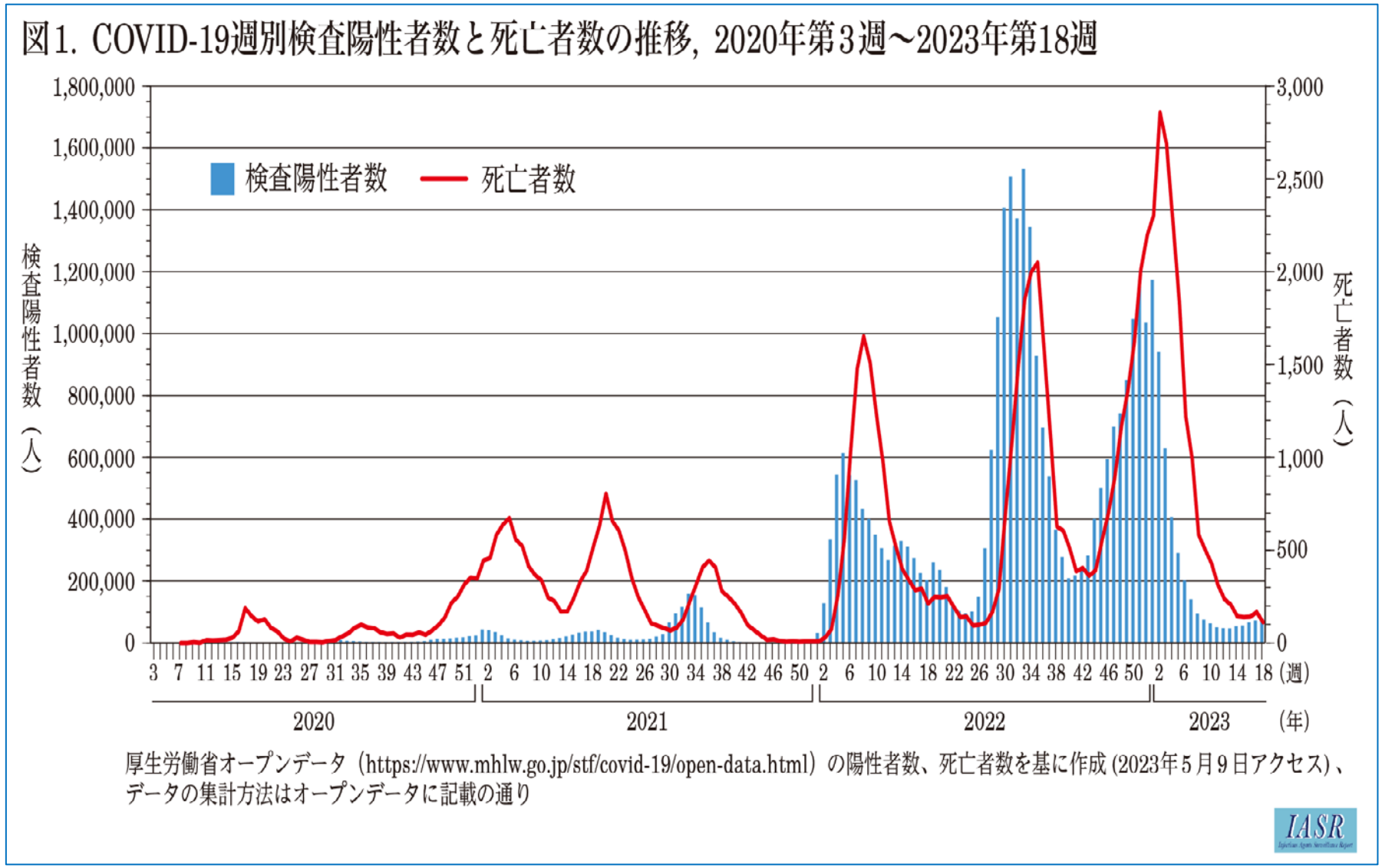
The Report on Pandemic Influenza.
By Countermeasures General Meeting
2010.6.

Recommend to introduce:

- **Flexible response depending on pathogenicity, etc**
- **Rapid and rational decision-making system**
- **Relationship with local areas and advance preparations**
- **Strengthening systems related to infectious disease crisis management**
- **Legal development]**

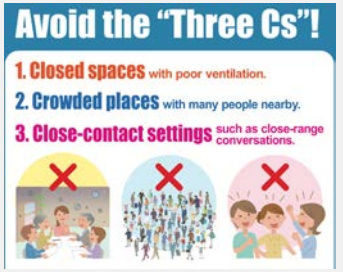
These recommendations were very appropriate if it is implemented.

COVID-19 Confirmed cases in Japan 2020.3w~2023.18w



Data Source：IASR Vol.44 P.99-100 2023.7

- **Non-pharmaceutical Intervention**
  - **Avoid the three C’s**
  - **Mask, Hand hygine**
  - **Social distance**
  - **State emergency, spread prevention measures**



- **Pharmaceutical Intervention**
  - **Drugs, vaccines**

The number of confirmed cases, fatal cases and case fatality rate in Japan

	confirmed cases	fatal cases	CFR
2020	234,109	3,459	1.48%
2021	1,492,874	14,926	1.00%
2022	27,225,973	38,881	0.14%
2023 (~5.7)	4,573,857	17,390	0.38%

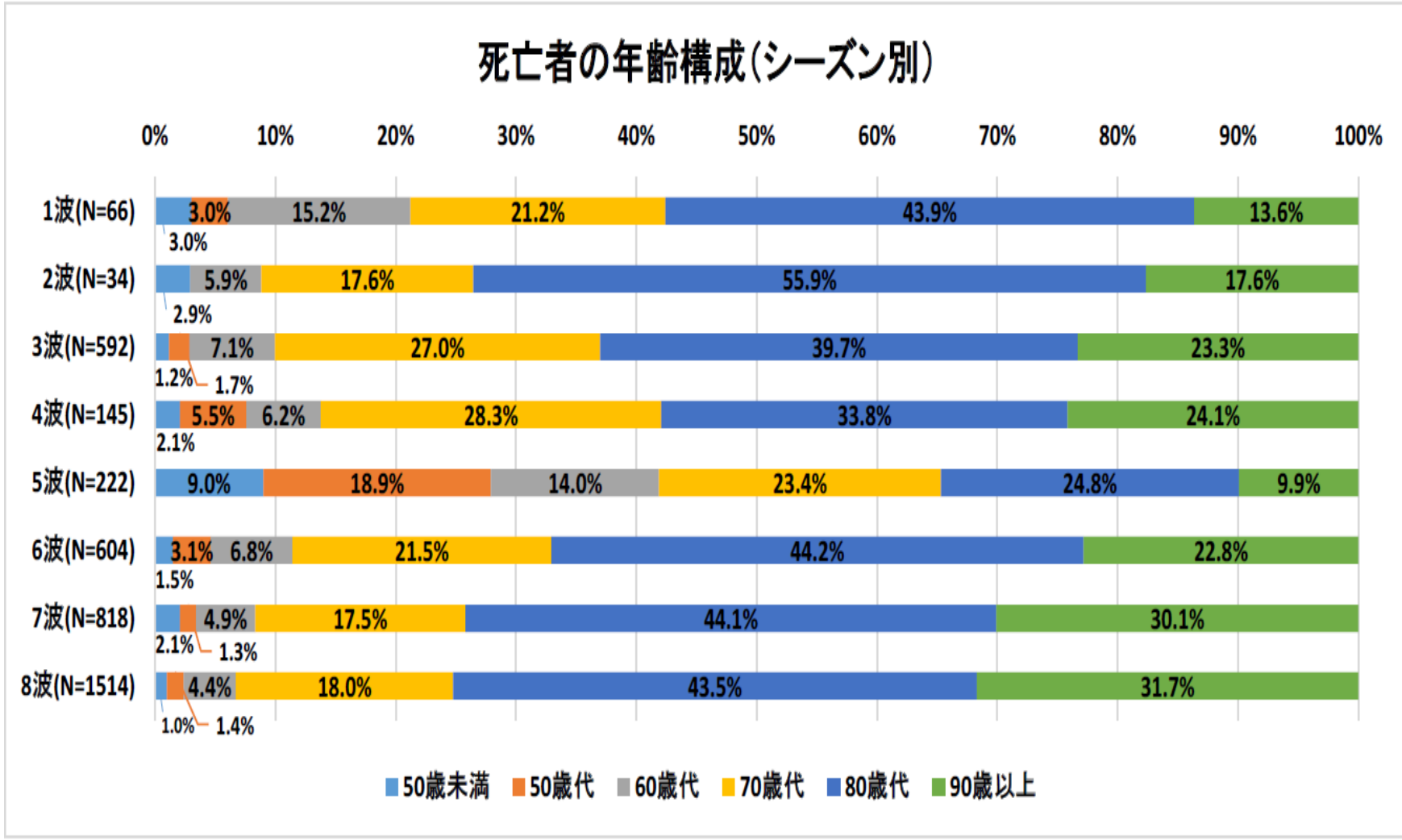
Seasonal Influenza

estimated case number: several million to ten and several million in one season. estimated CFR: 0.05~0.006%

Data Source : https://www.mhlw.go.jp/stf/covid-19/kokunainohasseijoukyou.html

Age distribution of fatal cases divided by each waves (1~8) Saitama Pref.

5/29集計



Data Source：第73回埼玉県新型感染症専門家会議　2023.6.13 資料

Pandemic Response Strategy

A. 封じ込め（Containment)

Zero strategy

Ex: China

B. 感染抑制（Suppression）←Japan

・Suppress the number of infected people and keep the number of deaths below a certain number

・ Reduce the number of deaths by one person

Medical Burden　Socio-Economic activities

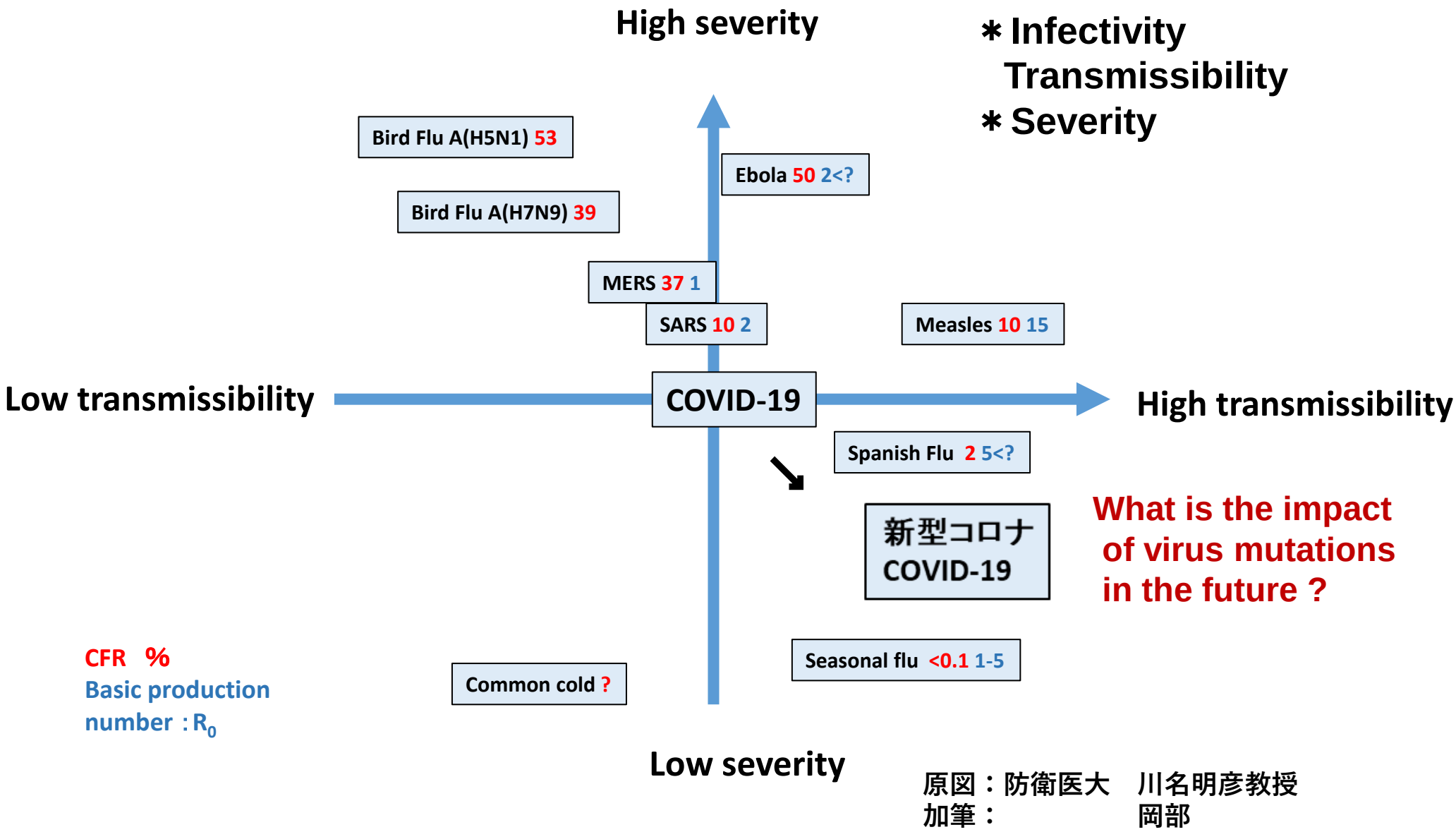
C. 被害抑制(Mitigation）

・Focus on the treatment system for seriously ill patients without focusing on the number of infected people

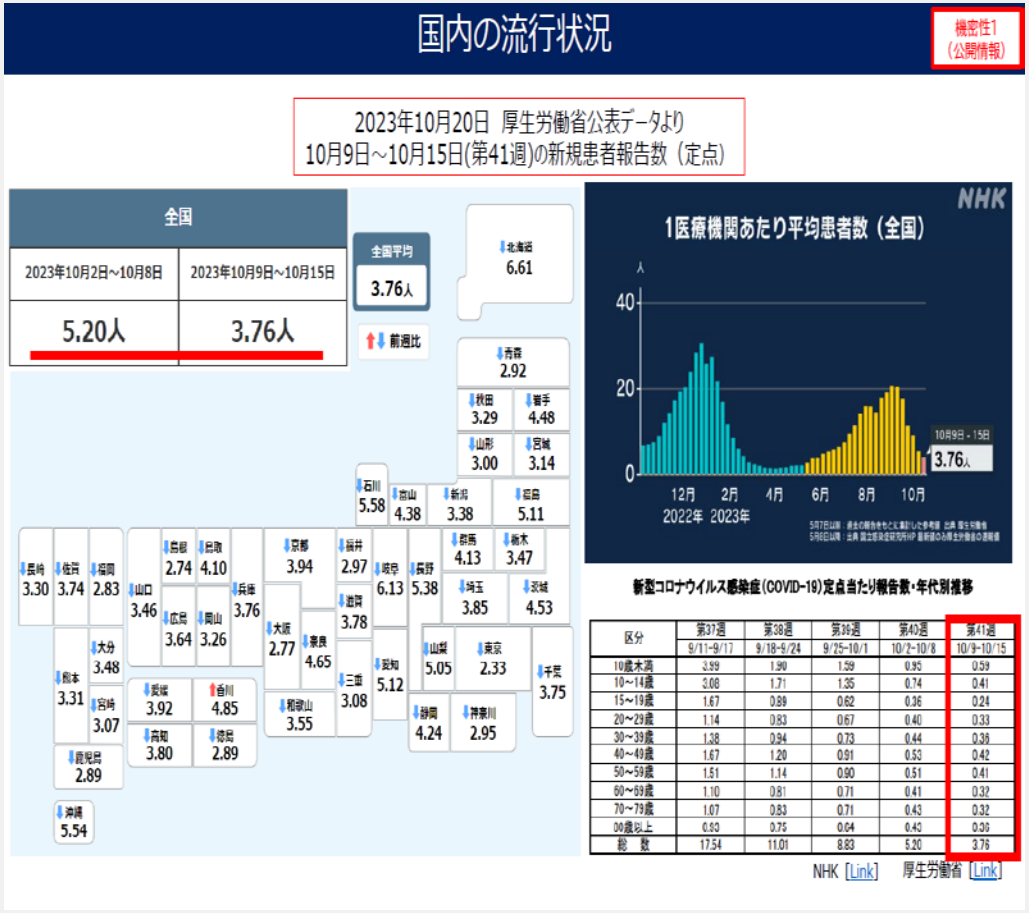
・Ex: Sweden

新型コロナウイルス感染症対応に関する有識者会議　参考資料

一部改変（岡部）

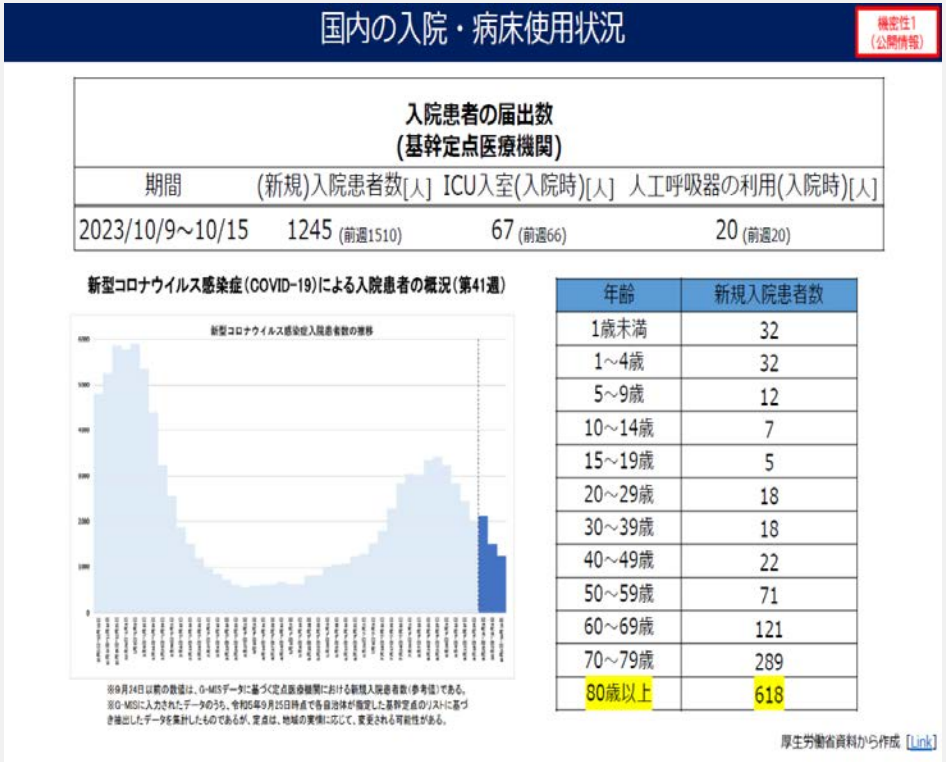


原図：防衛医大　川名明彦教授
加筆：　岡部

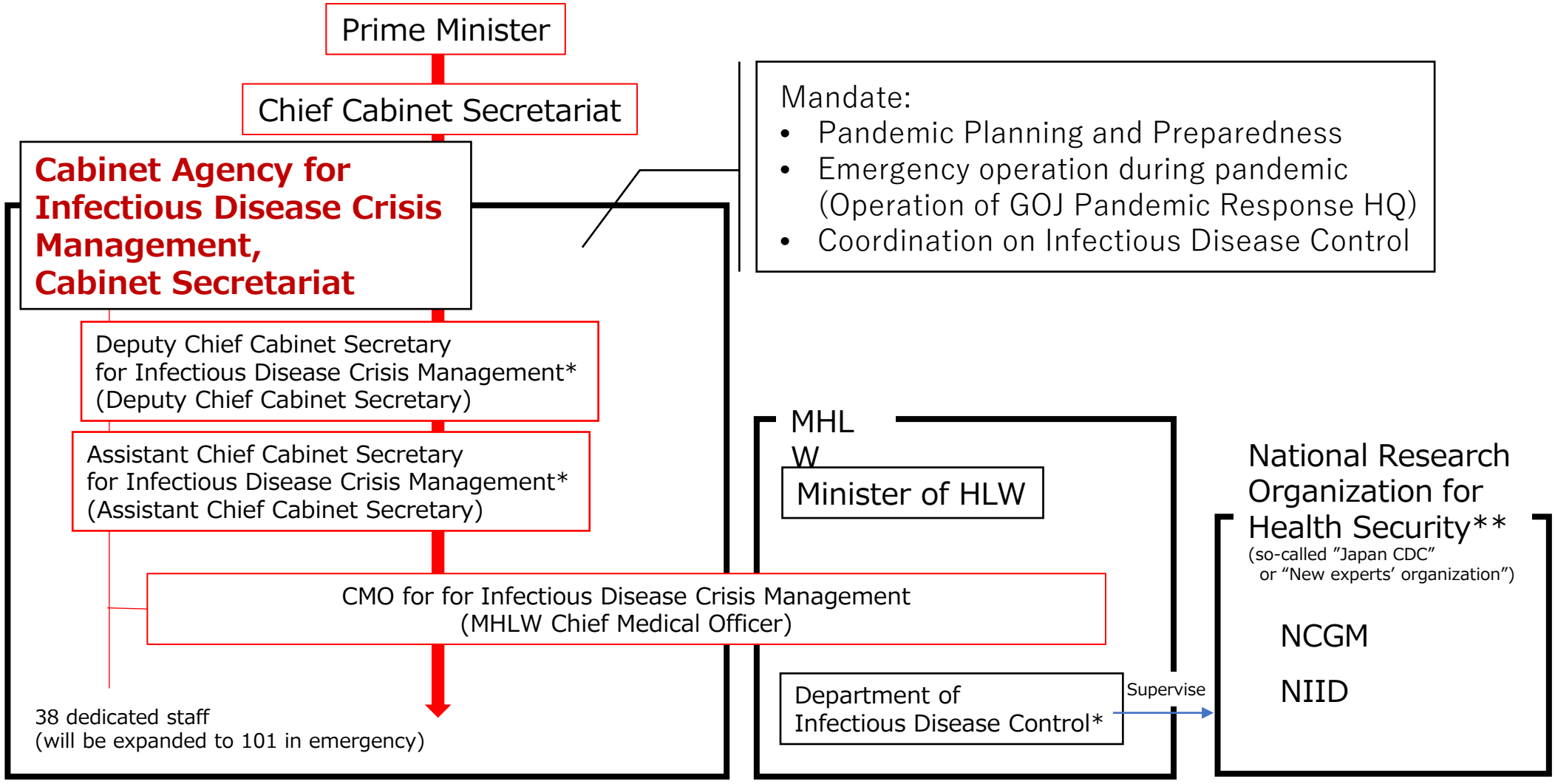


COVID-19 reported by Sentinel

Hospitalized number of COVID-19

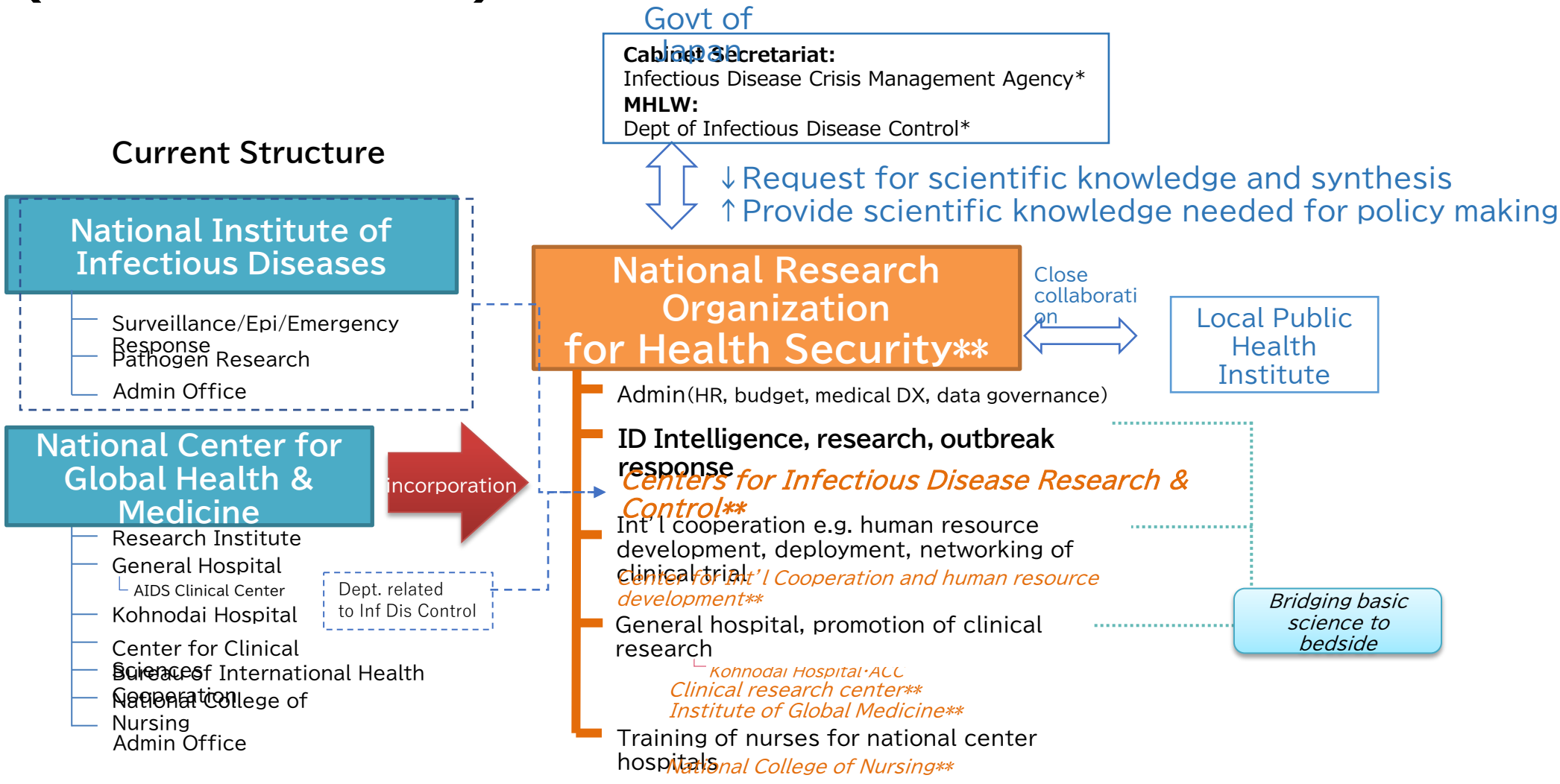


New GOJ Governance Structure for Infectious Disease Control



* Unofficial interim translation ** Interim name, unofficial interim translation

Organizational Structure of New Experts' Organization (under discussion)



* Unofficial interim translation ** Interim name, unofficial interim translation

8th National Medical Plan :MOHLW

Until now:

5 target diseases : Cancer, Apoplexy, Cardiovascular diseases such as Myocardial Infarction, Diabetes, Psychological diseases.

5 projects: Emergency Medical Care, Disaster Medical Care, Remote aeras medical care, Perinatal and Pediatric medical care including Pediatric Emergency.

and "Medical care during the spread of emerging infectious diseases" will be added.

Infectious disease prevention plan

・Preventing the outbreak and spread of infectious diseases in accordance with local circumstances

・Collection, investigation and research of information regarding infectious diseases and pathogens, etc.

・Securing a system to provide medical care related to infectious diseases.

- Agreement between prefectures and medical institutions.

・Securing a system for transporting patients with infectious diseases

Infectious disease prevention plan

- Improving the environment for medical treatment, etc. for people who are subject to refraining from going out

- Policy for comprehensive coordination and instructions to prevent infectious diseases or spread

- Training and improving the quality of human resources related to the prevention of infectious diseases

- Strengthening the health center system

Negative Capability

John Keats, UK in 1817

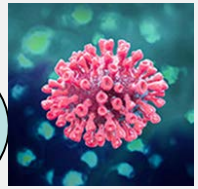
...I mean Negative Capability, that is when man is capable of being in uncertainties, mysteries, doubts, without any irritable reaching after fact & reason.

- **Ability to withstand unanswerable situations**
- **Ability to withstand situations where there is no easy answer**

（Wikipedia）

日本ウイルス学会2023特別講演　JT生命誌研究館名誉館長　中村桂子博士

I do not like
this musk !!



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