Limitations in Japanese Public Health Policy: Lessons from Fukushima and Covid-19

> 2020/8/26 8:00-9:30 ISEE 2020 Virtual Conference Yutaka Hamaoka, PhD hamaoka@fbc.keio.ac.jp Faculty of Business and Commerce,Keio University

Agenda

Research Motivation and Research Purpose

Japan's Situation

Japan's Counter Measures against Covid-19

Effectiveness of Counter-cluster Measure

Limitations of Japanese Public Health System

Research Motivation and Research Purpose

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Research Motivation

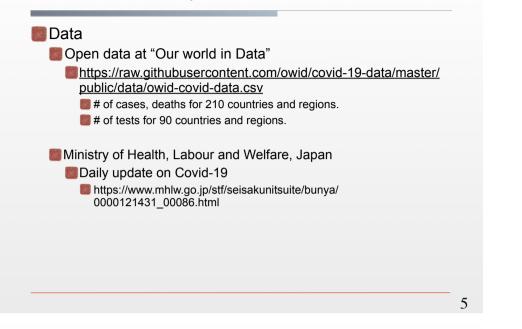
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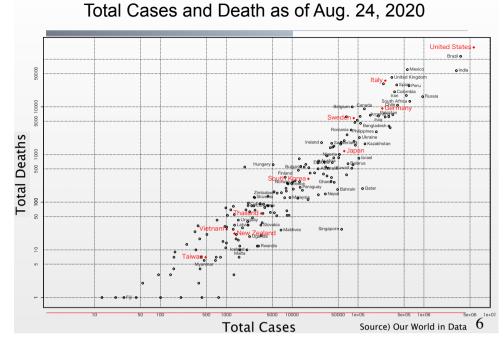
- During 10 years, Japan suffered two disasters.
 - 2011 East Japan Earthquake and Fukushima Nuclear Disaster2020 Covid-19 Pandemic
- For both disasters, counter measure by Japanese government seems to be ineffective and unreasonable.

Research Purpose

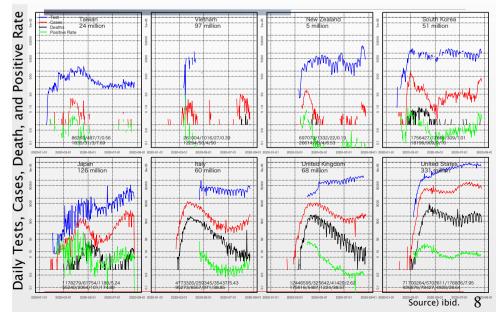
- To understand Japan's situation.
- **To evaluate Japan's counter measures against Covid-19.**
- To identify problems in the Japanese public health system including research, policymaking, and implementation that are common with response to Fukushima NPP disaster.

Japan's Situation

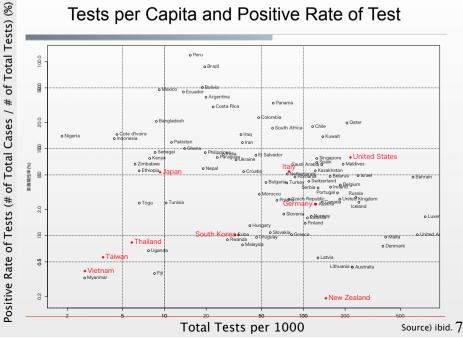




Covid-19 in Eight Countries



Tests per Capita and Positive Rate of Test



Japanese Counter Measures against Covid-19

Summary of Japan's situation

The number of cases and deaths in Japan is small compared with western countries, but it is large compared to those in Asian countries.

Lack of PCR testing

Other countries have rapidly expanded their testing capacity, but Japan is still increasing testing capacity. Japan should improve the testing capacity as soon as possible.

Suffering 2nd surge that beyond 1st surge.

Japan Model ("Expert Meeting on Novel Coronavirus Disease Control" 2020/4/1)

- "Japan's efforts (the "Japan model"), which focusing on modifying the <u>behavior of citizens</u> and <u>early detecting and responding to clusters</u>, are attracting attention across the world. In fact, we believe our response was appropriate for the first wave that originated in China's Hubei Province.
- We ask the government and municipalities for an even stronger response than ever before. <u>Moreover, we urge our citizens to avoid places that meet</u> <u>the 3Cs</u>, even though it is not mandated by law, and to play their roles as members of society to protect themselves and the society as a whole." <u>https://www.mhlw.go.jp/content/10900000/000620826.pdf</u>

Two measures

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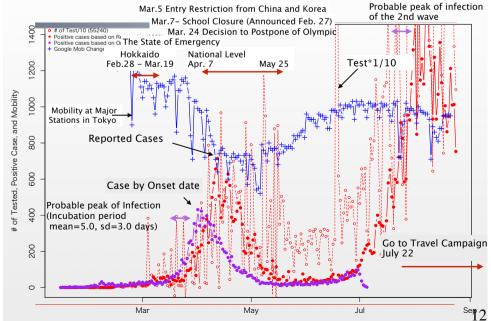
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- Asking Citizens for Behavior Change
 - Avoid "3Cs": Closed spaces, Crowded places and Close-contact settings

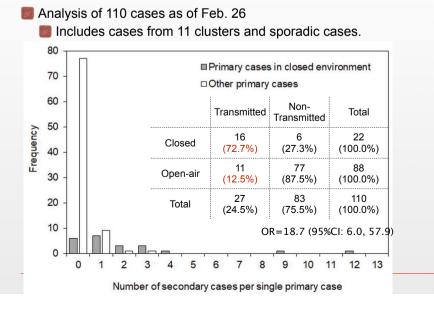
Cluster detection though (intensive) contact tracing

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Covid-19 Outbreaks, Related Events, and Japanese Counter Measures



Rationale of 3Cs: Nishiura et al.(2020)



Effectiveness of Counter-cluster Measure

Purpose

Japanese government has been prioritize counter-cluster measures. However, its effectiveness is not examined. Thorough published data, I try to examine its effectiveness.

Data

Ministry of Health, Labour and Welfare, Japan

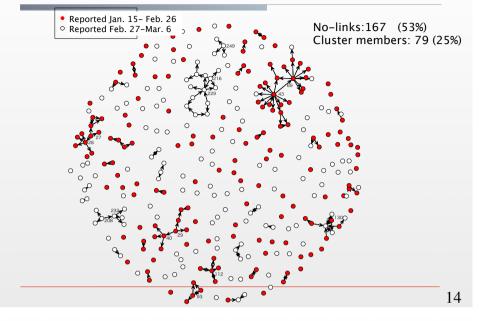
- Situation of Japan and MHLW's response (2020/3/6)
 <u>https://www.mhlw.go.jp/stf/newpage_10022.html</u>
- Anonymized information for 312 cases up to March 6.
 After this version, case information has not been published form MHLW.

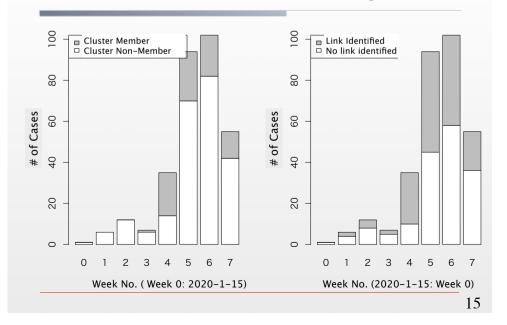
Effectiveness of Contact Tracing

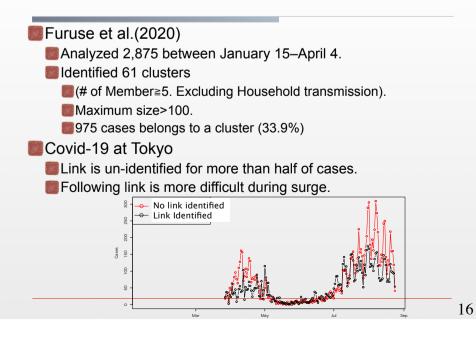
I believe this dataset includes Nishiura et al.(2020)'s data that analyzed 110 cases as of Feb. 26. However,166 cases are listed in this data as of Feb. 26.

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Covid-19 Patient Network (1/15-3/6, N=312)



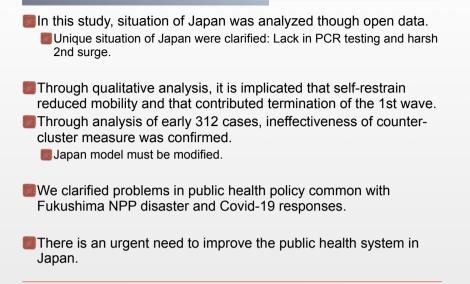




Common Problems on countermeasures for Fukushima NPP Disaster and Covid-19

Fukushima	Covid-19
Direct measurement of thyroid dose were conducted only for 1080 children.	PCR Testing has been limited.
Government appoints government-patr government policy rather than scientific	
Although citizens in contaminated area demand throughout decontamination, the government and TEPCO reject it because of cost.	Even virologist take care about economy rather than public health Even under 2nd surge, "Go to Travel" campaign that could promote spreading of patients to support travel industry.
In Fukushima, decontamination is limited to residential area and some hot spot remains. Citizens are forced "new life style": to locate and avoid hotspot.	Government ask citizens to modify behavior: to avoid 3Cs.
	Direct measurement of thyroid dose were conducted only for 1080 children. Government appoints government-patr government policy rather than scientific Although citizens in contaminated area demand throughout decontamination, the government and TEPCO reject it because of cost. In Fukushima, decontamination is limited to residential area and some hot spot remains. Citizens are forced "new life style": to locate and avoid

Conclusion



Thank you!

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