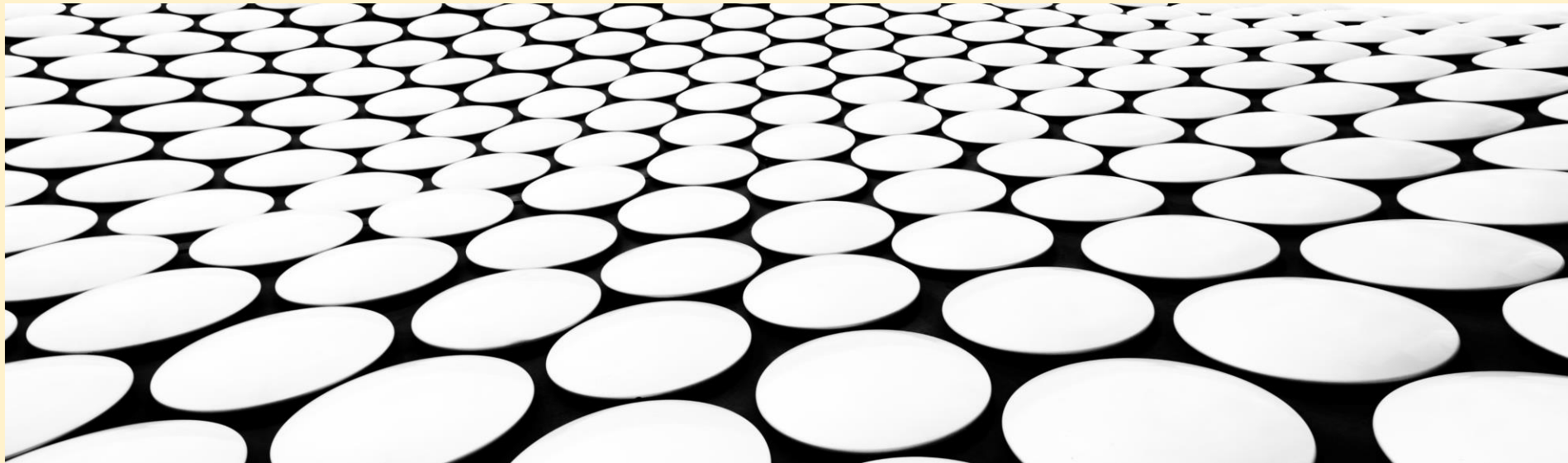


Concept of TAP(Targeted Antivirus Prophylaxis)

Drug distributions and remote consultation just before the outbreak

Isao Nakajima, M.D., Ph.D, Ph.D. Seisa University, Japan.



TAP(Targeted Antivirus Prophylaxis)

- Providing medicine in advance to citizens who are predicted to become disease.
- Administering to patients even if medical verification (eg PCR test) cannot be obtained.



History of deployed medicine

handing over medicines in advance

- Since 1706, era of Samurai, Toyama located near Kanazawa facing Japanese sea, merchants have been developing the business model of handing over medicines in advance throughout Japan.
- Toyama patent medicine business is a Japanese representative local industry which has grown up by door-to-door visits under the management principle of Value First -Money Later.

deployed medicine



door-to-door salesperson



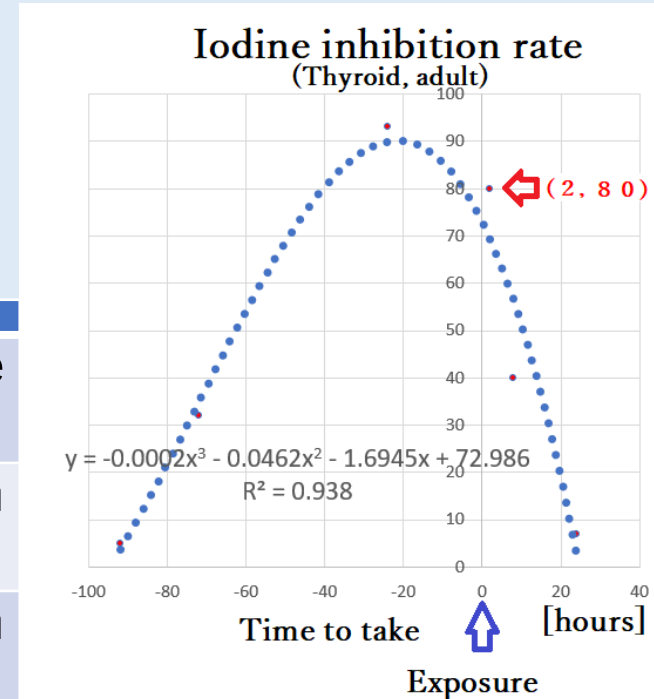
Fukushima nuclear power plant accident

Issues of Iodine preparations

Iodine should be taken to minimize radiation exposure of the thyroid.

Adults over the age of 40 should not take this medication if it is lacking.

| Municipality | Developments |
|--------------------------------|--|
| Tomio ka Town | Distributed mainly to townspeople under 40 on March 12. |
| Futaba Town | Distributed to children at evacuation centers in the town on March 12. |
| Naraha Town | Distributed to evacuees under 40 in Iwaki City on March 15. |
| Miharu Town | Distributed to people under 40, including evacuees from Hamadori who had already had stable iodine pills, and called for them to take in them on March 15. |



Case of Pandemic-2009 H1N1 (Swain Influenza)

- In Pandemic-2009, it was introduced on a trial basis in some cities in England.
- It is a system that a citizen apply in advance via the Internet and come to the city hall to get medicine(such as Tamiflu)
- There is no face-to-face consultation between the patient and the doctor.
- If the patient is anxious, browse the website for drugs(e-pharmacy).
- Taking medicine is at your own discretion. If the patient was worried, contact a medical person via the Internet or mobile phone(telemedicine).

Merits and demerits of TAP

- Merits

1. Medication can be provided to many citizens
2. Reduce the risk of infection of medical staff
3. Knowledge of medicines is obtained before taking

- Demerits

1. Shutdown of Website(e-pharmacy) due to congestion
2. Taking the drug uninfected
3. Transfer or sale of drugs

What telecom operators should keep in mind

1. Securing the number of operating lines
(line-administrators will be infected too)
2. Set up many mirror sites about e-pharmacy to prevent traffic congestion
3. Full coordination with the medical side