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## Resurgence of covid-19 in Japan

The government looks set to repeat its mistakes

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Japan has seen a resurgence of covid-19, and the effective reproduction number has been above 1 for two months. The daily confirmed cases reached nearly 2000 in early August.<sup>1</sup>

Since the start of the pandemic the country has focused on controlling clusters of more than five covid-19 cases and preventing environmental transmission in the "3Cs": closed spaces, crowded places, and close contact settings.<sup>2</sup> Initially, early detection of clusters and investigation of linkages between clusters helped reduce the spread of infection. But it couldn't prevent the surge in incidence that began around mid-March. The declaration of a state of emergency in April helped control the pandemic's trajectory,<sup>3</sup> although the measures lacked legal authority and depended on citizens' self-restraint. The state of emergency was lifted in late May.

Failings in the government's early handling of the crisis have exacerbated the pandemic's overall effect and resulted in 8.22 covid-19 deaths per million people: the third highest rate in the Western Pacific region after Philippines and Australia.<sup>1</sup>

## What went wrong

Clear lessons have emerged from Japan's response to the first wave of covid-19. Firstly, Japan made insufficient effort to expand laboratory testing. Lack of capacity meant many requests for polymerase chain reaction (PCR) testing from doctors were rejected by the public health centres that govern community response to covid-19. This led to an increase in the number of undiagnosed cases, which in turn increased both community acquired and hospital acquired infections. Health system capacity was therefore diverted away from other essential health services.

Public health centres were overwhelmed by mid-March, as Japan relied on inefficient paper based systems for reporting patients' information. Use of manual data systems has resulted in inaccuracies and duplication of records.

Although citizens were asked to voluntarily avoid the 3Cs,² behaviour modification campaigns were not effective in the early phase of the pandemic. As the Japanese authorities failed to introduce clear incentives to encourage public adherence, most people did not change their behaviour promptly.<sup>5</sup> Closely linked to this, the government's communication strategy was inadequate, even during the state of emergency. Messages to avoid the 3Cs were clear,² but the importance of physical distancing, washing hands frequently, staying home, and protecting health systems were not

communicated persuasively enough to change behaviours.

Japan's response was also affected by tension between the politics and the science of the pandemic. An expert committee established as a subsidiary of the cabinet was insufficiently independent to provide truly impartial advice. The committee lacked representatives from essential disciplines such as economics, behavioural science, and communication, and decision making processes were poorly explained. For example, the committee's recommendation that social contact should decrease by 80% was later weakened by the government to "a minimum of 70%, or ideally 80%" without further clarification.

Finally, the government lacked accountability and transparency. For example, the decision to postpone the Tokyo 2020 Olympics and Paralympics was made abruptly without explaining how the decision had been reached. Moreover, the prime minister undermined adherence to measures introduced under Japan's state of emergency by describing it as "different from a lockdown as we are seeing take place overseas." Visits to workplaces and public transport hubs initially decreased by only 23% and 46%, respectively.

The Japanese healthcare system was pushed to near collapse by inadequate human resources and personal protective equipment (PPE) in late April.<sup>2</sup> Healthcare workers were blamed for the chaos, and many were bullied and harassed as a result.<sup>9</sup>

## Scrutiny, transparency

Detailed scrutiny of the government's handling of the pandemic is essential to learn from earlier mistakes. Instead, however, the government abolished its expert committee in June, <sup>10</sup> reducing scrutiny and transparency still further. Worse, as covid-19 surged in late July, Japan launched a domestic tourism campaign that encouraged people to travel freely throughout the country while failing to tackle the many public health problems that remained. <sup>11</sup> The number of PCR tests is currently limited to fewer than 40 000 a day, <sup>12</sup> and the capacity of both hospitals and isolation facilities may be insufficient to cope with the resurgence. There has been scant discussion of how to expand testing, and digitalisation remains a work in progress.

Centrally coordinated command and control structures and unambiguous communication are vital to persuade the public to change its behaviour. Expanding testing capacity, implementing widespread testing for asymptomatic people, and effective contact tracing, isolation, and quarantine are also critical, along with fully digital epidemiology

to monitor changes in the reproduction number and to inform an effective response. Logistics must be strengthened to allow faster and more responsive procurement of PPE, essential to protect frontline workers and patients.

Unless the Japanese government shifts from cluster based countermeasures to a response based on the above principles, examines and learns from previous mistakes, and deploys cutting edge science such as genetic sequencing and big data analytics, Japan's health services will be overwhelmed again and more lives will be needlessly lost in the months ahead.

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