NEW ZEALAND | Politics

Covid 19 coronavirus Delta outbreak: Have we boosted hospital ICU capacity enough?



The number of ICU-capable ventilators has doubled in the past year, but experts say that doesn't mean there is twice the ICU capacity. Photo / 123rf



By: Derek Cheng Derek Cheng is a senior writer for the New Zealand Herald derek.cheng@nzme.co.nz

Hospitals do not have enough ICU capacity to cope with a large Delta outbreak, which health experts say underlines the need for an alert level 4 lockdown.

Last year New Zealand ranked near the bottom of the OECD for per-capita ICU capacity, but since then the Ministry of Health says the number of available ICU-capable ventilators has more than doubled.

In May last year, as the country was coming out of its first lockdown, a Ministry of Health paper found there were 334 ventilators and 358 ICU beds.

There are currently 284 fully staffed ICU beds across public hospitals, and the ministry says there are 629 ICU-capable ventilators, with 133 in the national reserve if required.

But that didn't mean hospitals' ICU units could handle more patients, according to ICU doctor Craig Carr, who is the New Zealand regional chair of the Australia NZ Intensive Care Society.

"We now have more equipment compared with 18 months ago, but we actually have very few extra staff, and in some instances, we've got fewer staff," he said, adding he was speaking in a personal capacity.

"Actual resourced bed capacity on a day-to-day basis, in terms of a bed with a nurse and a ventilator and all the monitors that has not risen, to my knowledge, in the last 18 months."

Nor was it ideal to have one ICU nurse looking after several patients, he said.

"You get to the point of what Italy had with lots of patients on ventilators, but they weren't being looked after by an ICU nurse or doctor.

"Clearly the patient's still got a chance at life, but it's not as good as if they had an ICU and doctor to engage in their day-today care."

That meant a level 4 lockdown was the right response for Delta cases in the community, Carr said.

"Low levels of patients coming in with Covid to a hospital will very rapidly bring a cessation of business as usual. It would start to impact on things such as cardiac surgery or cancer surgery.

"There are months when we cancel 40 to 50 per cent of elective cardiac surgery - and that's without Covid."

That was echoed by epidemiologist Professor Michael Baker.

"Everywhere there's pressure on the health system, so it tends to be run at close to capacity for a lot of the year, and particularly over winter.

"Sometimes when capacity is really pressed, it does mean that they have to start cancelling elective procedures."

There have been challenges in the nursing workforce, with ongoing pay negotiations and threats of strike action, nurses attracted by higher pay in Australia when the transtasman bubble was open, and immigrant nurses whose futures remain up in the air after the Government froze residency pathways.



The Ministry of Health does not hold data on ICU nursing staff, but noted a Nursing Council survey of nurses who said they worked in "intensive care/cardiac care" as either primary or secondary work.

There has been little movement in this number of nurses, with 2524 such nurses in the year to March 2020, and 2550 nurses this year.

Australia has roughly twice as much per capita ICU capacity as New Zealand, which Baker said would take years of investment to achieve here.

"And there will always be a question about competing demands, but I don't think a huge amount has changed in the last year."

The expert panel chaired by Sir David Skegg also noted the "still poorly resourced" health system, which was unable to cope with any large outbreak.

"As we entered the pandemic, the provision of intensive care beds (per capita) in New Zealand was less than one-third of the average among 22 OECD countries. New Zealand was in 21st place, followed only by Mexico," the group said.

"Although there will have been some expansion of facilities over the last year, this is likely to be modest in comparison with the countries that have been grappling with many thousands of desperately ill patients."

The Health Ministry said there was surge capacity for more than 550 ICU-capable beds last year.

"Options for surge planning remain in place with continued sector engagement.

"If there is ever an increase in need for ICU beds, such as an outbreak of the Covid-19 Delta variant, DHBs can adjust the configuration of their hospital units and add more ICU-capable beds as needed."