S’pore’s first phase 3 antibody trial ready to enrol Covid-19 patients

Clara Chong

Hospitalised Covid-19 patients here can now opt to take part in S’pore’s first phase three monoclonal antibody trial.

The National Centre for Infectious Diseases (NCID) said that as of last Tuesday, it was ready to enrol its first patients – though none had been recruited as of yesterday afternoon – and aimed to enrol a total of 100 local patients.

Singapore is only the third country to start recruiting patients as part of a global trial called Activ-3, which started in August and aims to recruit 1,000 patients globally. As at yesterday, 260 patients were recruited in the global trial, most of them from Denmark and the United States.

Activ-3 is estimated to be completed by year’s end or in January, so Singapore’s contribution will depend on how long it takes for the trial to recruit the study number and how many patients are eligible for the trial here, The Straits Times was told yesterday by Associate Professor David Lye, senior consultant and director of the Infectious Disease Research and Training Office at NCID.

The monoclonal antibody was developed by American pharmaceutical company Eli Lilly. It is a purified, highly active antibody that targets the spike protein of the coronavirus. Activ-3 enrols Covid-19 patients who are sick enough to be hospitalised. Patients in the study will get either the antibody or a placebo. Both groups will also be given the antiviral drug remdesivir.

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In Singapore, NCID will be enrolling patients with pneumonia or high-risk patients older than 45 with chronic health problems such as diabetes or high blood pressure. Healthy individuals will not be included in the trial.

Local patients in the Activ-3 trial will be monitored for 90 days and seen daily for the first five days. This is to observe possible side effects and determine how they are responding to treatment.

Currently, only one antibody is investigated in the trial. However, a US National Institutes of Health review committee is actively considering two to three other monoclonal antibodies, Prof Lye said. This means that Activ-3 may continue until enough effective monoclonal antibodies have been found.

ST reported on Tuesday that one of the two monoclonal antibodies in the cocktail used to treat US President Donald Trump for Covid-19 was developed using blood samples from three patients in Singapore. NCID has clarified that Activ-3 has no connection to that treatment cocktail, which was developed by US biotechnology firm Regeneron.

These monoclonal antibodies are accessible only through trials, which will determine if they are both safe and effective. They are not part of approved treatments.

This is why Singapore is keen to be part of this trial, so that if there are more serious cases of local Covid-19 infection, they can be treated, Prof Lye explained.

Activ-3 is one of the few treatment trials in which Singapore has participated.

Previously, the NCID – in partnership with the US National Institutes of Health – took part in three adaptive Covid-19 treatment trials (ACTT) for three different drugs.

The first trial, known as ACTT1, recruited 1,052 patients globally, with Singapore contributing 16 patients. It has now been completed.

ACTT1 proved that the antiviral drug remdesivir is effective in improving recovery time and reducing mortality in patients with low oxygen flow. The Health Sciences Authority has granted conditional approval to infectious disease specialists giving remdesivir to seriously ill Covid-19 patients.

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