DSO’s efforts on multiple fronts to fight Covid-19

DEVELOPING TEST KITS

- Developed the Resolute direct-PCR test kit with A*Star, which cuts out the time-consuming processing of swab samples taken from patients and can be completed in about an hour. Tests can be conducted with a basic laboratory set-up and entry-level technicians.
- Came up with a serology test kit using an antigen reagent developed with the National University of Singapore to guard against possible global shortages of reagents. The test takes around 1.5 hours, with 100 per cent sensitivity and over 99 per cent specificity rates.

PROTECTING FRONT-LINE PERSONNEL

- Designed and developed a UV disinfection cabinet to disinfect surgical masks and other personal items in 15 minutes.
- Developed guidelines to ensure the efficacy of UV disinfection products in the market.
- Supported government efforts to perform mask fit testing on healthy volunteers and medical workers.
- Conducted a joint study with the National Centre for Infectious Diseases and Duke-NUS Medical School on the airborne risk of the Covid-19 virus.

RESEARCHING TREATMENT

- Identified and isolated five effective antibodies from recovered patients that could neutralise the Covid-19 virus.