Fighting COVID-19 takes a team

COVID-19 has caused unprecedented disruption, but it also brought us closer than ever.

Take a look at how Singapore companies are collaborating to develop innovations to support our fight against COVID-19.

SG

AI Temperature Screening

Company: Kronikare, local healthcare startup

Partner: Ministry of Health Integrated Health Information System

Product: iThermo, an artificial intelligence-powered system that speeds up temperature screening by up to five times

Winning factor: Jointly developed in just two weeks

COVID-19 Treatment

Company: Tychan, Singapore-based biotechnology company

Partners: Ministry of Defence, Ministry of Health, Economic Development Board and other government agencies

Product: TY027, a potential COVID-19 antibody treatment

Winning factor: Phase One clinical trials with 23 volunteers yielded good outcomes in terms of safety
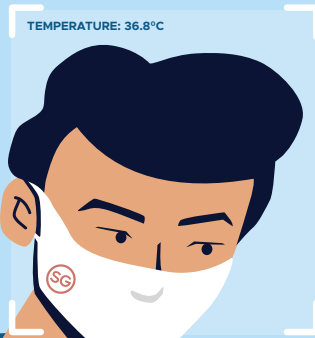
TEMPERATURE: 36.8°C

3D-Printed Swabs

Institute: National University of Singapore (NUS)

Partners: NUS, National University Hospital, and an industry consortium headed by the National Additive Manufacturing Innovation Cluster

Product: 3D-printed COVID-19 testing swab

Winning factor: Able to produce several hundred swabs in minutes

Telehealth Solutions

Company: Biofourmis, Singapore-based startup developing digital therapeutics

Partner: Ministry of Health

Product: AI-powered Biovitals Sentinel platform, which monitors COVID-19 patients and performs real-time data analytics

Winning factor: 24/7 remote-monitoring technology and analytics of 20 physiological signals

Disinfection Robot

Institute: Nanyang Technological University

Partner: Asia Centre of Technologies, Tungray Singapore Pte. Ltd.

Product: XDBot, a semi-autonomous robot which can disinfect large surfaces quickly

Winning factor: Developed in six weeks by a team of eight

Antibacterial Masks

Company: Ghim Li Group, Singapore-based global textile and apparel manufacturer

Partner: Nanyang Technological University

Product: Ultra Mask, a reusable facemask with enhanced antibacterial and filtration capabilities

Winning factor: Adapting food science research to reusable masks