

Singapore launches first 3D-printing point-of-care lab

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Dedicated expertise within the hospital accelerates 3D printing adoption in healthcare and advances personalised patient care capability in Singapore



Johnson & Johnson (J&J) has launched a 3D Printing Point of Care collaboration within the National University Hospital (NUH) to improve patient care capability and enhance personalised healthcare.

This initiative is supported by the Singapore Economic Development Board (EDB) to accelerate healthcare innovation in Singapore.

The collaboration between NUH and J&J Singapore aims to push the boundaries of surgical 3D printing in Singapore, elevate the standard of care for patients and deliver better patient outcomes.

The 3D Printing (3DP) Point of Care Lab is managed by J&J Singapore within the premises of NUH, making it the first of its kind in Singapore. In this Point-of-Care model, J&J's biomedical engineers will work closely with NUH clinicians to design and produce personalised anatomical models for preoperative planning and surgical simulation.

The lab can currently produce patient-specific anatomical models such as hips and knee joints, with plans to produce other medical devices and instruments such as surgical guides for complex surgery in the near future. Primed for the digital age, the lab will also explore mixed reality (MR) technology to support the development of next-generation clinical applications and better improve patient safety in surgery.