

Robotics – the future of microsurgery

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Robotic microsurgery is predicted to replace direct human involvement in the delicate and fine art of microsurgical anastomosis of vessels and nerves according to the current registrar in plastic surgery at Royal Darwin Hospital.

Dr Debanjan Ghosh who has prior experience in plastic and reconstructive surgery at Flinders Medical Centre in South Australia said robot assisted surgery has a range of game changing benefits.

“It’s been 21 years since the first robot-assisted surgery was performed by Jacques Himpens and Guy Cardiere in Belgium,” Dr Ghosh said.

“In the past two decades there have been monumental advancements in robotic surgery which benefit the patient, including three-dimensional high-definition magnification, a stable ergonomic platform, fine instrument handling with elimination of physiologic tremor and decreased surgeon fatigue and motion scaling.

“Direct human involvement could become obsolete in the near future because a robot will be able to do things beyond the manual scope of a traditional surgeon.”

Dr Ghosh’s presentation at the upcoming Annual Scientific Congress will showcase the fine technology available to microsurgeons and what is currently being developed.

“I’ll be discussing endowrist robotic instruments, infra-red vein viewers, telescopic high definition video systems, micro-doppler probes, hydro-jet dissectors and CO2 lasers for ligation and dissection among some of the fascinating new tools that will be replacing current practices,” Dr Ghosh said.

“It’s a super exciting time in the world of microsurgery.”

Dr Ghosh will be making an oral and poster presentation at the Royal Australasian College of Surgeons’ 87th Annual Scientific Congress which is being held in Sydney between 7-11 May. The congress brings together some of the top surgical and medical minds from across New Zealand, Australia, and the rest of the world.

For more information about the RACS Annual Scientific Congress please visit: <https://asc.surgeons.org/>

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