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SS Innovations announces world's longest robot-assisted cardiac telesurgery

15 June 2026 | News

Tele-surgery was remotely conducted between Georgetown Public Hospital in Guyana and IRCAD India in Indore



In a landmark achievement that could redefine the future of surgery worldwide, a world record in medical history was established with the successful completion of a robot-assisted cardiac procedure across nearly 20,000 kilometres of fibre network distance between Guyana and India, making it the world's longest-distance robotic cardiac telesurgery ever conducted.

Prior to this historic event, the longest robotic cardiac telesurgery done was from Strasbourg, France to Indore, India with a communication distance of 10,000 kilometers utilising the Made in India SSI Mantra Surgical Robotic System.

To date, 22 cardiac telesurgeries have been successfully performed using the SSI Mantra system, the only robotic surgery system globally that has been used for cardiac telesurgery.

The historic procedure connected Georgetown Public Hospital Corporation (GPHC), Guyana with IRCAD India, Indore, where renowned robotic cardiac surgeon Dr Sudhir Srivastava, Founder, SS Innovations International, Inc., remotely performed a Left Internal Mammary Artery (LIMA) takedown using the India-developed SSI Mantra Surgical Robotic System.

As part of the launch of Guyana's National Robotic Surgery Programme, three robotic procedures were successfully performed on the inaugural day. The achievement also coincided with Guyana's Diamond Jubilee celebrations commemorating the country's 60th Independence anniversary, adding symbolic significance to what healthcare experts are calling the beginning of a new era in borderless surgical care.

The SSI Mantra's tele-surgical architecture has been specifically designed to maintain procedural precision across high-latency, long-haul network environments. To date, more than 173 telesurgeries have been successfully performed globally using the SSI Mantra surgical robotic platform.

Additionally, the SSI Mantra system is the only system globally that has been used for robotic cardiac telesurgery. The company recently received regulatory approval for the SSI Mantra Surgical Robotic System from Guyana's Government Analyst-Food and Drug Department (GA-FDD) in May 2026.