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New study supports efficacy of robotic-assisted partial nephrectomy in renal mass surgery

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Study supports the value and benefits of the robotic approach to partial nephrectomy in India

Intuitive, a global technology leader in minimally invasive care and the pioneer of robotic-assisted surgery, has announced the findings of India’s largest collaborative and multi-institutional study on robotic-assisted partial nephrectomy (RAPN) using the da Vinci surgical system.

In collaboration with 14 government and private centres across India, the study supports the use of robotic-assisted partial nephrectomy (RAPN) in surgery for renal masses. This retrospective study utilised data from 800 patient cases spanning the last 12 years, marking a significant milestone in India's landscape for urological care.

The aim of this study, the first of its kind in India, was to validate the value and benefits of using the da Vinci surgical system in RAPN in India, providing comprehensive insights into the procedure's efficacy and safety across diverse patient demographics and tumor complexities.

"In India, there has been a need for robust and high-quality data on robotic-assisted partial nephrectomy outcomes tailored to our population," said Dr. Sudhir Rawal, Director, and Head of Department of Genito Uro Oncology Services, at Rajiv Gandhi Cancer Institute and Research Centre.

"Our study results help fill this gap by providing insights into the efficacy and safety of robotic-assisted partial nephrectomy across diverse patient demographics and tumor complexities. This will help provide trained surgeons the confidence in choosing robotic-assisted surgery for renal masses, for better clinical outcomes, said Dr Rawal."

"The results of this study are significant,” said Swati Gupta, Marketing Director at Intuitive India. "The data demonstrates the potential of the da Vinci system in improving patient outcomes for robotic-assisted partial nephrectomy in India and lays the groundwork for further advancements in robotic surgery nationwide. Collaboration with leading Indian institutions and surgeons has provided valuable insights specific to the Indian patient population. Going forward, this knowledge will be

crucial in refining surgical techniques and expanding access to minimally invasive robotic surgery for more patients," she added.