

The impact of robotic technology on knee replacement surgery

Osteoarthritis, an age-related wear and tear of joints affects almost 30 per cent of people over 60 years of age. Dr Rajesh Maniar (Consultant Orthopaedic Surgery, Lilavati Hospital and Research Centre) says, "The knee joint is the most commonly affected joint. The disease can be so painful that daily activities may get disrupted and even sleep gets disturbed. A stage comes when conservative methods no longer help and a doctor has to advise total knee replacement surgery."

Dr Maniar has performed thousands of such surgeries since 1995. He adds, "Using laminar technology for clean air flow, space suits and highly specialised instruments followed by computer navigation produces good results. Computer navigation helped improve precision in joint placement, with customisation for every patient. We have now progressed and are using the latest generation robot, which has developed and matured to come of age to a level of precision. This is bringing a significant change in the field of knee arthroplasties."

Till date, more than 50 robotic as-



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sisted surgeries have been performed at Lilavati Hospital within a quarter of acquiring robotic knee replacement technology. Dr Maniar says, "The target of post-surgery knee bending is being achieved much faster and smoother with robot assistance. These results far surpass those achievable by conventional manual

methods. This new robotic technology does not require pre-surgery scans, sparing one of additional harmful radiations and it is compatible with most recent available implants in use. Besides, surgical time has not prolonged and post-surgery pain is reduced with faster recovery. One can expect near complete recovery at an affordable cost. Apart from knee replacements, the team of orthopaedic surgeons at our hospital



Dr Rajesh Maniar

KEY FEATURES OF ROBOTIC TECHNOLOGY

- Increased precision
- Lesser pain
- Faster recovery
- No CT/MRI pre-surgery

performs spine surgeries, arthroscopic surgeries, sport injuries, fractures and much more."

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