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## Let robotics help you replace that ailing knee

The robotics helps in precise removal of the damaged and worn out cartilage from the normal bone. The implants can be perfectly sized and accuracy is maintained in alignment and positioning of implants to deliver an improved outcome.



Dr Kirthi Paladugu

revolutionised joint replacement surgeries.

The Unicondylar knee is popular among the young and active patients. Once the entire registration of the knee is done and the worn out area is defined, the dead part of the cartilage is

**J**oint replacements have evolved considerably in the last decade. From various implant specifications, updates on navigation to computer assisted joint replacement surgeries; a lot has changed in the field for good. With demand for long-lasting implants on a rise, joint replacements today have ventured into the new era of robotic technology.

With minimum bone reduction and meticulous handling of soft-tissue, patients today experience less pain during surgeries and also gets rehabilitated faster as compared conventional joint replacement.

### ADVANTAGES OF ROBOTIC REPLACEMENTS:

- Small Incision, Less pain
- Near natural knee joint
- Less blood loss
- Increased longevity of implants
- Shorter hospital stay & faster rehabilitation

In a computerised surgery, surgeons can cut the bone at accurate angles and balance the ligaments around the knee area. As they are able to reproduce a near natural knee, wear and tear is reduced to a great extent extending longevity. Therefore, this system gives the most advanced and a near anatomical knee joint.

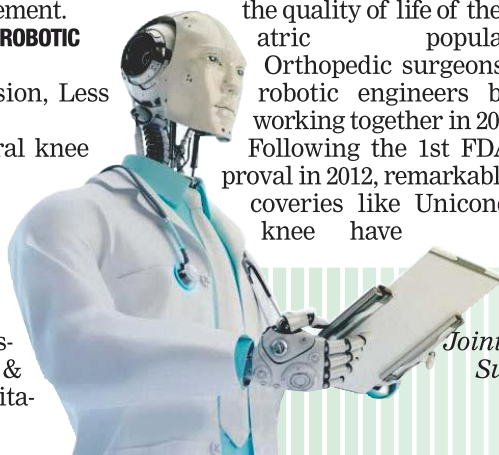
Robotic surgeries today are well accepted all over for their superior results especially in oncology (cancer), neurosurgery and gastro surgery departments.

Joint replacement surgeries are in demand as they improve the quality of life of the geriatric population.

Orthopedic surgeons and robotic engineers began working together in 2010-11. Following the 1st FDA approval in 2012, remarkable discoveries like Unicondylar knee have

removed using the handheld robotic arm by controlling the exposure and speed. Amazed by these results, the robotic surgery has further evolved with the patella femoral and total knee replacements.

After many years of intensive research in robotic technology, the perfect software to facilitate precise total knee replacement surgeries has been developed. In an attempt to offer the best to the society and that too with the most advanced systems in the field of orthopaedics, SriKara Hospitals has introduced robotic technology in early 2017. They are proud to be one of the leaders in the Oxinium Verilast Technology. Thanks to the eternal support of well-wishers and continued trust placed in them by patients, they have emerged as one of the 1st to introduce Robotic Joint Replacement in South India.



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