

# FUTURE OF ROBOTIC KNEE & HIP REPLACEMENT



Dr. Santosh Kumar & team

**R**enowned joint replacement surgeon Dr. Santosh Kumar spearheads effective knee replacement surgeries. In his role as the director of joint replacement surgery at Belle Vue Clinic, Kolkata, Dr. Kumar has amassed over 27 years of experience, performing over 25,000 operations. He is also the founder of the Santosh Kumar Hip and Knee Foundation and Momentum Orthocare, a collective of expert joint replacement surgeons led by him, dedicated to innovating and improving in the field of hip and knee replacement.

Dr. Kumar strongly values his team, which includes multiple orthopaedic surgeons, physicians, physician assistants, technicians, and physiotherapists. His belief is that the strength of an organization lies in its people, not its building. As



Carex Robotic system

a testament to this belief, he focuses on personal skills, proficiency, vast experience and trustworthiness as integral aspects of frontline healthcare service.

His steadfast commitment to quality and innovation has led Momentum Orthocare



Dr. Santosh Kumar

and the Santosh Kumar Hip and Knee Foundation to become one of the pioneers in the area of robotic joint replacement surgery. While the replacement of joints like the hip and knee is inherently rooted in physics and mechanical engineering, Dr. Kumar accentuates that the precision and technique involved are also fundamental



Robotic knee replacement in progress



Implant

aspects of the procedure. Thus, he turned to computer-assisted joint replacement, specifically to a tool called Orthopilot, in 2011. However, last year, he upgraded further, incorporating a robotic arm, which aids in more refined precision.

Although mechanical precise alignments and calculations are key factors, Dr. Ku-

mar firmly opines that the expertise and experience of the surgeon are primary and should always be prioritized over machine-operated devices like the robotic arm. The ultimate aim of joint replacement, he states, is to restore painless, stable movement, which can and should be undertaken regardless of age, when necessary.

Moreover, a properly conducted joint replacement can last over 25 years and, if needed, can be successfully performed again, a procedure known as revision joint replacement. Dr. Kumar and his team regularly undertake these revision procedures in Kolkata.

Creating an affordable and locally available hub for joint replacement surgery in Eastern India was the core motivation

behind the Santosh Kumar Hip and Knee Foundation and Momentum Orthocare, according to Dr. Kumar. He found it disheartening to watch people from East India compelled to travel far for treatment. He emphasizes that post joint-replacement, patients can engage in most routine activities like brisk walking, cycling, swimming, and trekking.

Also, he offers free video consultations online and even reimburses travel expenses for patients and their companions visiting from Bihar and Jharkhand for treatment.

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Dr. Santosh being awarded Hall of Fame in knee replacement surgeries by professor Heiko Graichen of Endo Clinic Germany