

## Knee Replacement Surgery an In-Depth Overview of Total Knee Arthroplasty, Indications, Surgical Techniques and Advances in Implant Technology for Enhanced Patient Outcomes

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### Abstract

Knee replacement surgery, or total knee arthroplasty (TKA), has emerged as a cornerstone of orthopedic treatment for severe knee disorders, primarily osteoarthritis. This commentary provides an in-depth overview of TKA, focusing on surgical indications, techniques, and advances in implant technology that contribute to improved patient outcomes. Evidence indicates that TKA effectively alleviates pain and enhances functionality, with patient satisfaction rates reaching 80-90% post-surgery. Complication rates remain low, typically between 2-5%, and modern implants show promising longevity, with survival rates exceeding 90% at ten years. The discussion highlights the importance of patient

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long-term follow-up is crucial to monitor implant performance and manage any potential complications [5].

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