



Current Trends and Future Challenges in Arthroplasty

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Message from the Guest Editor

Primary and revision hip and knee replacement surgery has had a high success rate over the past two decades. However, this should not hide the fact that a variable percentage of patients do not benefit from the procedure. It is therefore not surprising that innovations and technical advancements for primary and revision hip and knee replacements such as technological implementation in relation to preoperative planning, surgical execution with the help of robotics as well as patient-specific instrumentations (PSI), the use of mixed/augmented reality during surgery, and the recent introduction of artificial intelligence (AI) have been introduced to minimize failure rates and increase clinical outcomes and patient satisfaction. The biggest criticism over those technological innovations in arthroplasty surgery is that none of the current innovations have been able to prove a clinically relevant improvement in patient satisfaction or failure rates.

This Special Issue will focus on the most popular trends in primary and revision hip and knee replacements and will also evaluate possible future solutions in relation to the abovementioned recent technological innovations.





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Message from the Editor-in-Chief

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