

Special Issue

Advances in Total Hip Arthroplasty: From Diagnosis to Treatment

Message from the Guest Editors

Total hip arthroplasty (THA) has been revolutionized by innovations spanning the full spectrum of patient care, from diagnosis and preoperative planning, through intraoperative guidance and prosthesis design, to postoperative recovery and long-term outcomes. This Special Issue welcomes multidisciplinary submissions that explore cutting-edge technologies, such as advanced imaging, patient-specific instrumentation, robotics, augmented reality navigation, smart prostheses, and digital rehabilitation platforms. Clinicians, biomedical engineers, physical therapists, health services researchers, informaticians, and policy experts are encouraged to contribute original research and reviews. This collection aims to illuminate the synergistic role of technology in improving diagnostic precision, surgical accuracy, implant longevity, and patient-centered care pathways regarding THA.

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