

1. Record Nr.	UNINA9910559392603321
Titolo	Basics in Primary Knee Arthroplasty / / edited by Roland Becker, Michael T. Hirschmann, Nanne P. Kort
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
ISBN	3-030-58178-0
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (694 pages)
Collana	Medicine Series
Disciplina	617.582 617.5820592
Soggetti	Orthopedics Sports medicine Physical therapy Medical sciences Orthopaedics Sports Medicine Physiotherapy Health Sciences Artroplàstia Genoll Cirurgia Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Anthropometry of the Native Knee -- Kinematics of the native knee -- Kinematics of the knee after partial and total knee arthroplasty -- Loading of the knee joint after total knee arthroplasty -- The optimal indication for unicompartmental knee arthroplasty -- The optimal indication for patellofemoral arthroplasty -- The optimal indication for combined patellofemoral and unicondylar knee arthroplasty -- The optimal indication for total knee arthroplasty -- Partial resurfacing implants -- Patients evaluation prior to knee arthroplasty -- Cardiovascular co-morbidity in patients scheduled for TKA -- Patient

expectations in total knee arthroplasty -- Basic principles of partial knee arthroplasty -- Principles of total knee arthroplasty -- UKA component design - What do we need to know? -- TKA component design - What do engineers need to know? -- Patellofemoral Arthroplasty – Onlay Versus Inlay Prostheses -- Surgical 2Dplanning of total knee arthroplasty -- 3D planning of total knee arthroplasty - why and how? -- Optimal setup of the operating room -- Tranexamic acid (TXA) in total knee arthroplast -- Optimal positioning of the patient -- Pros and cons of using a tourniquet -- Pro and Cons of tranexamic acid (TXA) in total knee arthroplasty -- Standard approaches to the knee -- Is there an optimal TKA component position? -- Neutral mechanical alignment - the gold standard -- The anatomical alignment concept for total knee arthroplasty -- Kinematic alignment in total knee arthroplasty -- Measured resection technique – how does it work? -- Ligament balancing technique – how does it work -- Posterior femoral referencing in total knee arthroplasty -- Anterior femoral referencing in total knee arthroplasty -- Tibial component rotation in total knee arthroplasty -- Patient specific instrumentation in TKA -- Patients specific partial and total knee arthroplasty- an update -- Navigation in total knee arthroplasty -- Optimal sizing of the femoral, tibial and patellofemoral components in TKA -- Optimal implant fixation in knee arthroplasty: cemented versus cementless knee arthroplasty -- Wound closure in total knee arthroplasty -- Pros and cons of drains for wound drainage in total knee arthroplasty -- Pain management after total knee arthroplasty -- How to handle complications in unicompartmental knee arthroplasty -- How to handle complications during TKA? -- Deformity Correction in Total Knee Arthroplasty -- TKA in fracture treatment -- Thromboembolic prophylaxis after partial or total knee arthroplasty -- How to avoid typical complications after total knee arthroplasty? -- Infection prophylaxis in TKA -- Rehabilitation after Total Knee Arthroplasty -- How to assess outcome after partial or total knee arthroplasty - Measuring results that really matter! -- Function after unicondylar knee arthroplasty- what could you expect? -- Outcome after total knee arthroplasty - what can be expected? -- Function after small knee implants -- Sports after partial or total knee arthroplasty -- The immune response to metal in total knee arthroplasty -- Does digital support influence outcome after total knee arthroplasty? -- Registries – How important are they? -- Most common scores for patients' evaluation.

Sommario/riassunto

This book supplies all the information that the young orthopaedic surgeon needs to know when preparing to perform total or partial knee replacement for the first time and also provides more experienced surgeons with a comprehensive general update on the basics. After an opening section on anatomy and kinematics of the knee, patient management during the pre-, peri-, and postoperative phases is covered in detail with the aid of numerous illustrations. The final section considers postoperative patient evaluation, outcome measurements, and the value of registries. Readers will gain a sound understanding of the scientific basis underlying management decisions, of component design philosophies, and of the rationale for preferences such as mechanical alignment and ligament balancing. The pros and cons of a variety of management choices are explained, and guidance provided on patient selection. Surgical techniques are presented on high-quality videos and many tips and tricks are highlighted to help the inexperienced to cope with challenging situations.
