



The ACL-deficient knee : a problem solving approach

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Abstract: The ACL-Deficient Knee: A Problem Solving Approach, focuses on problem analysis and problem solving, as well as analyzing the possibility of prevention. In each chapter, the biomechanics, anatomy, etc. that are relevant to the topic are reviewed. There are chapters where highly specialized surgical techniques are presented (v. gr. double bundle reconstruction or meniscal transplant), as well as developing areas such as ACL tears in children, where we are finding a growing number of injuries due to the increase of sports at early ages.

These chapters are written by internationally renowned specialists who are pioneers in the topics analyzed. To further enhance the educational content, there is a collection of online step by step surgical technique videos that will allow the knee specialist to perform the techniques presented in this book.

Contents:

FOREWORD I – FOREWORD II – Treatment ACL-injuries still an unsolved clinical problem? – PREFACE – Historical Aspects on Surgery for Anterior Cruciate Ligament Deficiency – Evidence-Based Medicine. How Can we Use it to Guide our Practice? – What have we learned from the Kaiser Permanente Anterior Cruciate Ligament Reconstruction Registry (KP ACLRR)? – The Danish anterior cruciate ligament reconstruction registry. What we are doing, how we do it, and which would be the best way to do it – ACL ruptures in the female athlete. Can we predict who is at increased risk and can we reduce noncontact injury rates? – Anterior cruciate ligament surgery risk factors for development of osteoarthritis. What can we do to prevent it? – The need for an objective measurement in-vivo of rotational stability of the ACL-deficient knee. How can we measure it? – Guidelines for operative versus nonoperative management of ACL injuries – The stimulation of healing of the anterior cruciate ligament. Research and clinical relevance – ACL Primary Repair. What we did, the results and how it helps today to tailor treatments to the patient and the pathology – Graft choice in ACL reconstruction. Which one and why? – Graft healing in ACL reconstruction: Can we enhance it in clinical practice? – Is double-bundle ACL reconstruction necessary? – ACL injuries in skeletally immature patients and adolescents. How can we improve the high rate of poor outcomes? – Indications for ancillary surgery in the ACL deficient knee – Outpatient ACL surgery. Is it safe? – Factors related to return to sport after ACL reconstruction: When is it safe? – Return to sports after ACL reconstruction surgery. A risk for further joint injury? – Psychological factors in the ACL reconstruction population. Are they predictive of patient outcomes? – Acute anterior cruciate ligament tear surgery. Repair vs. reconstruction. When? – Partial chronic anterior cruciate ligaments tears. What to do – Chronic anterior cruciate ligament tear. Single-bundle ACL reconstruction. Anteromedial portal versus transtibial outside-in versus transtibial drilling technique – Anterior cruciate ligament tear. Rationale and indications for anatomic ACL reconstruction – Clinical relevance of meniscus in the treatment of the ACL-deficient knee. The real value of meniscal transplantation – Clinical relevance of chondral lesions in the treatment of the ACL-deficient knee: Microfracture technique – The role of high-tibial osteotomy in the ACL-deficient knee – ACL injuries combined with lateral and medial knee injuries. Acute vs. chronic injury. What to do – ACL injuries in children. Treatment and Outcomes. Personal experience - - Combined anterior cruciate ligament reconstruction with patella tendon lengthening following a complex knee injury – ACL graft failure - - Reducing the risk of a reinjury following ACL reconstruction. What factors should be used to allow unrestricted return to sports activities? - - Anterior knee pain after ACL reconstruction. How to avoid it – Limitation of joint range of motion after surgery of the anterior cruciate ligament – Septic arthritis after anterior cruciate ligament reconstruction – Deep venous thrombosis and pulmonary thromboembolism after ACL reconstruction. What can we do to prevent it? – VIDEO # 1 - ACL reconstruction augmentation technique AMB & PLB – VIDEO # 2 - ACL reconstruction. The surgical technique – VIDEO # 3 - Anatomic ACL reconstruction: (3-1) Anatomic single bundle ACL reconstruction, (3-2) Anatomic double bundle ACL reconstruction – VIDEO # 4 Lateral meniscus transplantation. Surgical technique. Bonus track: medial and lateral meniscal implants (ACTIFIT) + ACL reconstruction (BTPB) – VIDEO # 5 - What factors should be used to allow unrestricted return to sports activities?

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