

pre op acl exercises

pre op acl exercises are a crucial component in preparing patients for anterior cruciate ligament (ACL) reconstruction surgery. These exercises aim to strengthen the muscles surrounding the knee, improve joint stability, and enhance overall range of motion prior to the operation. Engaging in a structured preoperative rehabilitation program can contribute to better surgical outcomes, faster recovery, and reduced postoperative complications. This article explores the importance of pre op acl exercises, outlines effective exercise routines, and provides guidance on safely performing them. Additionally, it highlights key considerations, benefits, and precautions to maximize the effectiveness of pre-surgical conditioning for ACL injuries.

- Importance of Pre Op ACL Exercises
- Recommended Preoperative Exercise Routine
- Benefits of Prehabilitation for ACL Surgery
- Precautions and Safety Tips
- Frequently Asked Questions About Pre Op ACL Exercises

Importance of Pre Op ACL Exercises

Pre op acl exercises play a vital role in optimizing the knee's condition before undergoing ACL reconstruction. Strengthening the quadriceps, hamstrings, and surrounding musculature helps stabilize the knee joint, which can prevent further injury and improve postoperative rehabilitation efficiency. Additionally, improving range of motion and reducing swelling through targeted exercises can enhance surgical outcomes by facilitating quicker restoration of normal knee function after surgery. Physical therapists often recommend a prehabilitation program to ensure that patients enter surgery in the best possible condition.

Muscle Strengthening and Stability

Strengthening key muscle groups, particularly the quadriceps and hamstrings, is essential for knee stability. These muscles act as dynamic stabilizers, compensating for the injured ACL and improving joint support. Pre op acl exercises focus on controlled strengthening to avoid aggravating the injury while promoting muscle endurance and power.

Range of Motion Improvement

Maintaining or improving knee range of motion prior to surgery is critical. Restricted mobility can complicate the surgical procedure and delay postoperative recovery. Pre op acl exercises include gentle stretching and mobilization techniques to ensure the joint remains flexible and functional.

Reduction of Swelling and Inflammation

Swelling and inflammation often accompany ACL injuries. Preoperative exercises combined with appropriate modalities can help reduce joint effusion, which is beneficial for both surgical ease and pain management.

Recommended Preoperative Exercise Routine

A well-structured pre op acl exercise regimen typically includes low-impact strengthening, flexibility, and balance training. These exercises should be performed consistently under professional guidance to maximize safety and effectiveness.

Quadriceps Sets

Quadriceps sets focus on activating the thigh muscles without moving the knee joint excessively. This exercise strengthens the quadriceps, which are crucial for knee stabilization.

1. Sit or lie down with the injured leg extended.
2. Tighten the thigh muscle by pressing the back of the knee down towards the floor.
3. Hold the contraction for 5 to 10 seconds, then relax.
4. Repeat for 10 to 15 repetitions, multiple times daily.

Hamstring Curls

Hamstring curls help strengthen the muscles at the back of the thigh, providing balanced knee support.

1. Stand holding a chair or countertop for balance.
2. Bend the knee, bringing the heel toward the buttocks slowly.
3. Hold for 2 to 3 seconds, then lower the foot back down.
4. Perform 10 to 15 repetitions per set, completing 2 to 3 sets daily.

Heel Slides

Heel slides improve knee flexion and promote joint mobility without excessive strain.

1. Lie on your back with both legs extended.
2. Slowly slide the heel of the injured leg towards your buttocks by bending the knee.

3. Slide the heel back to the starting position.
4. Repeat 10 to 15 times per session, multiple times per day.

Straight Leg Raises

This exercise strengthens the quadriceps without bending the knee, which is beneficial when knee motion is limited.

1. Lie on your back with the uninjured knee bent and foot flat on the floor.
2. Keep the injured leg straight and lift it approximately 12 inches off the floor.
3. Hold for 5 seconds, then slowly lower the leg.
4. Complete 10 to 15 repetitions per session.

Balance and Proprioception Training

Improving proprioception enhances joint awareness and reduces the risk of re-injury. Simple balance exercises can be incorporated safely before surgery.

- Stand on the injured leg for 30 seconds, using support if needed.
- Progress to standing on an unstable surface like a foam pad.
- Include gentle weight shifting and controlled movements to challenge stability.

Benefits of Prehabilitation for ACL Surgery

Engaging in pre op acl exercises as part of a prehabilitation program offers multiple advantages. These benefits contribute to a smoother surgical process and a more efficient postoperative recovery.

Enhanced Surgical Outcomes

Stronger muscles and better joint mobility reduce intraoperative complications and facilitate precise graft placement. This preparation can lead to improved long-term knee function.

Faster Postoperative Recovery

Patients who complete preoperative conditioning often experience quicker restoration of strength and mobility after surgery, shortening rehabilitation timelines.

Reduced Risk of Post-Surgical Stiffness

Maintaining range of motion prior to surgery helps prevent postoperative joint stiffness, which is a common complication following ACL reconstruction.

Psychological Preparedness

Participating in pre op acl exercises can boost confidence and reduce anxiety, enabling patients to approach surgery with a proactive mindset.

Precautions and Safety Tips

While pre op acl exercises are beneficial, it is essential to perform them safely to avoid exacerbating the injury. Consultation with a healthcare professional or physical therapist is recommended before starting any exercise program.

Avoid Pain and Overexertion

Exercises should be performed within a pain-free range. Sharp pain or increased swelling indicates the need to reduce intensity or modify the activity.

Use Proper Technique

Correct form is critical to maximize benefits and prevent compensatory movements that could lead to additional injuries.

Gradual Progression

Start with low-impact, gentle exercises and gradually increase intensity and repetitions based on tolerance and professional advice.

Monitor Swelling and Inflammation

Pay attention to changes in joint swelling. Rest and ice may be necessary to control inflammation during the preoperative period.

Frequently Asked Questions About Pre Op ACL Exercises

How Long Should Preoperative ACL Exercises Be Performed?

The duration varies depending on the individual's condition, but typically prehabilitation lasts between 2 to 6 weeks before surgery to optimize knee function.

Can Pre Op ACL Exercises Prevent the Need for Surgery?

While these exercises improve knee strength and stability, they generally do not eliminate the need for ACL reconstruction if the ligament is severely torn.

Is It Safe to Perform Pre Op ACL Exercises Without Supervision?

Professional guidance is strongly recommended to tailor exercises appropriately and avoid further injury.

What Should Be Done If Pain Increases During Exercises?

Discontinue the activity immediately and consult a healthcare provider for assessment and modification of the exercise program.

Frequently Asked Questions

What are pre op ACL exercises?

Pre op ACL exercises are physical therapy exercises performed before anterior cruciate ligament (ACL) surgery to strengthen the muscles around the knee, improve joint mobility, and enhance recovery outcomes.

Why are pre op ACL exercises important?

Pre op ACL exercises help reduce swelling, improve knee range of motion, strengthen muscles, and prepare the knee for surgery, which can lead to a faster and more effective post-surgery recovery.

What are some common pre op ACL exercises?

Common pre op ACL exercises include straight leg raises, quad sets, hamstring curls, heel slides, and stationary cycling to maintain knee mobility and muscle strength.

How long should I do pre op ACL exercises before surgery?

Typically, pre op ACL exercises are recommended for 2 to 6 weeks before surgery, depending on the severity of the injury and the surgeon's guidance.

Can pre op ACL exercises reduce post-surgery recovery time?

Yes, performing pre op ACL exercises can improve muscle strength and knee function, which may reduce overall recovery time and improve surgical outcomes.

Are there any risks associated with pre op ACL exercises?

When done correctly and under professional supervision, pre op ACL exercises are generally safe. However, overexertion or improper technique can cause pain or worsen the injury.

Should I consult a physical therapist before starting pre op ACL exercises?

Yes, consulting a physical therapist is recommended to ensure exercises are tailored to your specific condition and performed safely to maximize benefits before surgery.

How do pre op ACL exercises help with swelling and pain management?

Pre op exercises promote blood circulation and lymphatic drainage, which can reduce swelling and help manage pain by strengthening supporting muscles around the knee.

Additional Resources

1. Pre-Operative ACL Rehabilitation: Strengthening for Success

This book offers a comprehensive guide to pre-op exercises specifically designed for individuals preparing for ACL surgery. It emphasizes strengthening the muscles around the knee to improve surgical outcomes and speed up recovery. Detailed illustrations and step-by-step instructions make it accessible for patients and therapists alike.

2. ACL Surgery Prep: Essential Exercises Before Your Operation

Focusing on practical and effective exercises, this book helps patients maximize knee stability and mobility before ACL reconstruction. It explains the importance of pre-op conditioning and provides tailored workout plans to reduce swelling and maintain muscle tone. The author also discusses mental preparation strategies to reduce anxiety before surgery.

3. Rebuild Stronger: Pre-Op ACL Exercise Strategies

This guidebook is aimed at athletes and active individuals who want to optimize their knee function ahead of ACL surgery. It covers targeted strengthening routines, balance exercises, and flexibility work to enhance joint stability. The book includes case studies and tips from physical therapists to motivate readers.

4. Preparing for ACL Surgery: A Pre-Op Exercise Manual

Designed for patients about to undergo ACL reconstruction, this manual outlines the critical exercises necessary for pre-surgical conditioning. It explains how improving quadriceps and hamstring strength can influence surgical success. Additionally, it offers advice on pain management and swelling reduction techniques.

5. The Pre-ACL Surgery Workout: Exercises to Boost Recovery

This book provides a structured workout plan focusing on pre-operative ACL exercises that promote muscle endurance and joint flexibility. Readers learn how to perform low-impact activities safely to avoid further injury. The author also highlights the psychological benefits of staying active before surgery.

6. *ACL Injury to Surgery: Pre-Op Conditioning and Exercises*

Covering the period between injury and surgery, this book guides readers through appropriate pre-op exercises to maintain knee function. It explains anatomy, injury mechanics, and the rationale behind each exercise. The book is well-suited for physical therapists and patients seeking an evidence-based approach.

7. *Strengthen Before Surgery: Pre-Op ACL Exercise Techniques*

This resource emphasizes the importance of muscle balance and control prior to ACL surgery. It includes detailed exercise descriptions focusing on quadriceps activation, hamstring strengthening, and core stability. The book also discusses common pitfalls and how to avoid aggravating the injury during pre-op rehab.

8. *Pre-Op ACL Rehab: A Patient's Guide to Exercise and Recovery*

Written in patient-friendly language, this guide helps individuals understand the benefits of pre-operative exercises for ACL repair. It provides daily exercise routines, progress tracking tips, and motivational advice to stay consistent. The book also covers nutrition and lifestyle considerations to support healing.

9. *Optimizing ACL Surgery Outcomes: Pre-Operative Exercise Protocols*

This text is tailored for clinicians and patients aiming to enhance ACL surgery outcomes through targeted pre-op exercise protocols. It synthesizes current research on muscle activation, joint stability, and neuromuscular training. The book includes customizable exercise plans to fit various patient needs and injury severities.

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pre op acl exercises: Therapeutic Exercise Carolyn Kisner, Lynn Allen Colby, John Borstad, 2017-10-18 Here is all the guidance you need to customize interventions for individuals with movement dysfunction. You'll find the perfect balance of theory and clinical technique—In-depth discussions of the principles of therapeutic exercise and manual therapy and the most up-to-date exercise and management guidelines.

pre op acl exercises: Postsurgical Orthopedic Sports Rehabilitation Robert C. Manske, 2006-01-01 Written by well-known experts in a reader-friendly style, this is the only book to focus specifically on post-surgical guidelines for successful rehabilitation of the knee and shoulder for sports patients. Content covers basic concepts related to soft tissue healing, as well as core concepts in sports medicine rehabilitation, all of which lay the groundwork for discussions of specific protocols. Detailed descriptions of the latest post-surgical procedures for various knee and shoulder pathologies equip readers with essential knowledge needed to recommend the most effective treatment plans. Includes a separate section on multiple ligament knee injuries. Numerous photos and radiographs of topics discussed in the text serve as excellent visual references in the clinical setting. Detailed descriptions of the most current surgical protocols for various knee and shoulder pathologies help readers recommend the best treatment based on proven rehabilitation plans. The inflammatory response is described, with regard to its role in soft tissue healing following surgical procedures of the knee and shoulder. Protocols based on the most recent research available promotes evidence-based practice. A chapter on rotator cuff injuries includes authoritative, up-to-date information on this topic. A chapter on cartilage replacement focuses on the nuts and bolts of rehabilitation for this common injury, offering current, hands-on information about one of the fastest changing treatment protocols. Contributors are expert therapists and physicians - respected leaders in their field. Each chapter highlights post-op guidelines and protocols in a consistent format that's immediately accessible and easy to reference. Comprehensive information on soft tissue healing is presented. A separate section on multiple ligament knee injuries presents hard-to-find information that's rarely covered in other resources or literature.

pre op acl exercises: *Return to Sport after ACL Reconstruction and Other Knee Operations* Frank R. Noyes, Sue Barber-Westin, 2019-11-05 The wealth of information provided in this unique text will enable orthopedic surgeons, medical practitioners, physical therapists, and trainers to ensure that athletes who suffer anterior cruciate ligament (ACL) injuries, or who require major knee operations for other reasons, have the best possible chance of safely resuming sporting activity at their desired level without subsequent problems. Divided into seven thematic sections, the coverage is wide-ranging and encompasses common barriers to return to sport, return to sport decision-based models, and the complete spectrum of optimal treatment for ACL injuries, including preoperative and postoperative rehabilitation. Advanced training concepts are explained in detail, with description of sports-specific programs for soccer, basketball, and tennis. Readers will find detailed guidance on objective testing for muscle strength, neuromuscular function, neurocognitive function, and cardiovascular fitness, as well as validated assessments to identify and manage psychological issues. In addition, return to sport considerations after meniscus surgery, patellofemoral realignment, articular cartilage procedures, and knee arthroplasty are discussed. Generously illustrated and heavily referenced, *Return to Sport after ACL Reconstruction and Other Knee Operations* is a comprehensive resource for all medical professionals and support staff working with athletes and active patients looking to get back in the game with confidence.

pre op acl exercises: Heal Your Knees Robert Klapper, Lynda Huey, 2004 Describes how the knee functions, how knee problems are diagnosed and treated, and presents a program using land and water exercises that eases knee pain and prevents further injury.

pre op acl exercises: *Rehabilitation for the Postsurgical Orthopedic Patient* Lisa Maxey, Jim Magnusson, 2013-01-22 With detailed descriptions of orthopedic surgeries, *Rehabilitation for the Postsurgical Orthopedic Patient*, 3rd Edition provides current, evidence-based guidelines to

designing effective rehabilitation strategies. Coverage of each condition includes an overview of the orthopedic patient's entire course of treatment from pre- to post-surgery. For each phase of rehabilitation, this book describes the postoperative timeline, the goals, potential complications and precautions, and appropriate therapeutic procedures. New to this edition are a full-color design and new chapters on disc replacement, cartilage replacement, hallux valgus, and transitioning the running athlete. Edited by Lisa Maxey and Jim Magnusson, and with chapters written by both surgeons and physical therapists, *Rehabilitation for the Postsurgical Orthopedic Patient* provides valuable insights into the use of physical therapy in the rehabilitation process. Comprehensive, evidence-based coverage provides an overview of the orthopedic patient's entire course of treatment from pre- to post-surgery, including a detailed look at the surgical procedures and therapy guidelines that can be used to design the appropriate rehabilitation programs. Case study vignettes with critical thinking questions help you develop critical reasoning skills. Indications and considerations for surgery describe the mechanics of the injury and the repair process so you can plan an effective rehabilitation program. Therapy guidelines cover each phase of rehabilitation with specifics as to the expected time span and goals for each phase. Evidence-based coverage includes the latest clinical research to support treatment decisions. Overview of soft tissue and bone healing considerations after surgery helps you understand the rationale behind the timelines for the various physical therapy guidelines. A Troubleshooting section in each chapter details potential pitfalls in the recovery from each procedure. Over 300 photos and line drawings depict concepts, procedures, and rehabilitation. Detailed tables break down therapy guidelines and treatment options for quick reference. Expert contributors include surgeons describing the indications and considerations for surgery as well as the surgery itself, and physical or occupational therapists discussing therapy guidelines. New coverage of current orthopedic surgeries and rehabilitation includes topics such as disc replacement, cartilage replacement, hallux valgus, and transitioning the running athlete. New full-color design and illustrations visually reinforce the content. Updated Suggested Home Maintenance boxes in every chapter provide guidance for patients returning home. References linked to MEDLINE abstracts make it easy to access evidence-based information for better clinical decision-making.

pre op acl exercises: The Pediatric Anterior Cruciate Ligament Shital N. Parikh, 2017-11-17 This unique book fills the void in the existing literature related to the diagnosis and evaluation of pediatric ACL injuries and presents both current and emerging surgical techniques for pediatric ACL reconstruction. Once considered rare, these injuries are on the rise as children are increasingly active and engaged in high-impact sports. Historically, these injuries have been treated with benign neglect, but there is increasing evidence that non-operative treatment approaches can lead to recurrent instability, further injury to the meniscus or cartilage, and eventually joint degeneration. Opening with discussion of epidemiology, developmental anatomy, and assessment and radiography, this one-stop resource then presents conservative and surgical management strategies and algorithms, including ACL reconstruction without bone tunnels, use of epiphyseal tunnels, trans-physeal tunnels, or hybrid techniques. Special attention is given to the young female athlete, complications, prevention strategies, rehabilitation and return to play considerations. Bringing together the latest clinical evidence with the preferred techniques of experts in the field, *The Pediatric Anterior Cruciate Ligament* is a comprehensive and detailed analysis of the inherent problems in treating ACL injuries in the pediatric patient, useful for pediatric orthopedic surgeons, orthopedic sports medicine surgeons, primary care sports medicine physicians and other professionals working with the young athlete.

pre op acl exercises: Physical Therapies in Sport and Exercise Gregory Kolt, Lynn Snyder-Mackler, 2007-08-22 *Physical Therapies in Sport and Exercise* provides a truly comprehensive source of the latest evidence-based approaches to the assessment, management, rehabilitation and prevention of injuries related to sport and exercise. Written by an international, multidisciplinary team of contributors, all of whom are leaders in their fields, it has been expertly compiled and edited by two experienced and well-respected practitioners from Australia/New

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pre op acl exercises: *Knee Arthroscopy and Knee Preservation Surgery* Seth L. Sherman, Jorge Chahla, Robert F. LaPrade, Scott A. Rodeo, 2024-09-19 This major reference work brings together the current state of the art for joint preservation surgery of the knee, including arthroscopic and open procedures. Generously illustrated with radiographs and intraoperative photos, it presents the latest tips and techniques, providing the knee surgeon with the most up-to-date information for precise preparation and decision-making in this rapidly evolving area. This comprehensive guide is divided into ten thematic sections covering clinical evaluation; fundamentals of arthroscopic and open approaches; basic and advanced arthroscopic procedures; surgical management of meniscal disorders; management of ACL injuries; approaches to complex and multi-ligamentous injuries; limb malalignment; management of cartilage and subchondral bone; patellofemoral and extensor mechanism disorders; and rehabilitation and return to play considerations. Written by experts in the field, *Knee Arthroscopy and Knee Preservation Surgery* will be a highly valued resource for orthopedic and sports medicine surgeons, residents and fellows.

pre op acl exercises: *Insall & Scott Surgery of the Knee E-Book* W. Norman Scott, 2017-02-10 *Insall & Scott Surgery of the Knee* by Dr. W. Norman Scott remains the definitive choice for guidance on the most effective approaches for the diagnosis and management of the entire scope of knee disorders. This edition reflects a complete content overhaul, with more than 50 new chapters and over 400 contributors from around the world. The video program includes 70 new video clips, while new and expanded material covers a range of hot topics, including same-day surgery and hospital management of knee arthroplasty patients and anesthesia specific for knee surgery. - Extensive visual elements and video program include nearly 70 new videos -- over 230 in total -- as well as a Glossary of Implants featuring 160 demonstrative pictures. - Over 50 new chapters and brand-new sections on Same Day Surgery and Hospital Management of Knee Arthroplasty Patients; Quality and Payment Paradigms for TKA; Anesthesia Specific for Knee Surgery; and Preoperative Assessment, Perioperative Management, and Postoperative Pain Control. - An expanded Adult Reconstruction Section informs readers about Enhanced Primary Revision and the treatment of Peri-prosthetic fractures in TKA. - Includes enhanced worldwide approaches for all aspects of disorders of the knee from nearly 400 contributors worldwide. - Boasts updated pediatric knee considerations and updated tumor surgery principles for the treatment of tumors about the knee. - Expert Consult eBook version included with purchase. This enhanced eBook experience allows you to search all of the text, figures, images, videos (including video updates), glossary, and references from the book on a variety of devices.

pre op acl exercises: *Pathology and Intervention in Musculoskeletal Rehabilitation* David J. Magee, James E. Zachazewski, William S. Quillen, 2008-01-01 Design and implement a rehab program on your own with *Pathology and Intervention in Musculoskeletal Rehabilitation*, 2nd Edition. Part of Magee's popular Musculoskeletal Rehabilitation Series, this pathology text for physical therapists provides clear guidance on patient management relative to specific musculoskeletal pathology, injury, and illness - all based on a sound understanding of basic science and principles of practice. It focuses on the specific pathologies most often seen in the clinic, and discusses the best methods for intervention for the different areas of the body in the context of the tissue-healing model. Each intervention features a rationale, along with the pathology and problem presented; stage of healing; evidence in the literature; and clinical reasoning considerations. Dedicated and focused information on the specific pathologies most often seen in the clinic, as well as the best methods for intervention for the different areas of the body, minimizes duplication of information by referring you to other titles in the Musculoskeletal Rehabilitation Series for basic

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pre op acl exercises: Controversies in Knee Surgery Riley Williams, David Johnson, 2004-09-09 This is the essential up to date review of the difficult topics in surgery for knee injuries and sports injuries to the knee. The book draws international authors to include detailed reviews of treatment options and outcomes and will update surgeons and allied clinicians as to current thinking to provide a guide to treatment of the more difficult knee problems.

pre op acl exercises: Musculoskeletal Essentials Marilyn Moffat, Elaine Rosen, Sandra Rusnak-Smith, 2006 This book answers the call to what today's physical therapy students and clinicians are looking for when integrating the guide to physical therapist practice as it relates to the musculoskeletal system in clinical care.

pre op acl exercises: The Adult Knee John J. Callaghan, 2003 Written and edited by the foremost experts in knee surgery, this definitive two-volume reference provides comprehensive coverage of the evaluation and surgical management of problems of the adult knee. In 117 detailed chapters, the text covers basic science, clinical science, soft tissue injury of the knee, tendon and ligament surgery, osteochondral injury to the knee, patella femoral disorders, alternatives to arthroplasty for knee arthritis, primary total knee arthroplasty, perioperative management in total knee replacement, complications of total knee replacement, revision total knee arthroplasty, and future developments.

pre op acl exercises: Clinical Orthopaedic Rehabilitation: A Team Approach E-Book Charles E Giangarra, Robert C. Manske, 2017-01-04 Evidence suggests a direct correlation between the quality of postoperative orthopaedic rehabilitation and the effectiveness of the surgery. Clinical Orthopaedic Rehabilitation, 4th Edition, helps today's orthopaedic teams apply the most effective, evidence-based protocols for maximizing return to function following common sports injuries and post-surgical conditions. Charles Giangarra, MD and Robert Manske, PT continue the commitment to excellence established by Dr. S. Brent Brotzman in previous editions, bringing a fresh perspective to the team approach to rehabilitation. - Every section is written by a combination of surgeons, physical

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pre op acl exercises: Noyes' Knee Disorders: Surgery, Rehabilitation, Clinical Outcomes
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pre op acl exercises: The Multiple Ligament Injured Knee Gregory C. Fanelli, 2012-08-16
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pre op acl exercises: Tennis Medicine Giovanni Di Giacomo, Todd S. Ellenbecker, W. Ben Kibler, 2019-01-08 This book will serve as a key resource for all clinicians working in orthopedics, sports medicine, and rehabilitation for the sport of tennis. It provides clinically useful information on

evaluation and treatment of the tennis player, covering the entire body and both general medical and orthopedic musculoskeletal topics. Individual sections focus on tennis-related injuries to the shoulder, the elbow, wrist, and hand, the lower extremities, and the core/spine, explaining treatment and rehabilitation approaches in detail. Furthermore, sufficient sport science information is presented to provide the clinical reader with extensive knowledge of tennis biomechanics and the physiological aspects of training and rehabilitation. Medical issues in tennis players, such as nutrition and hydration, are also discussed, and a closing section focuses on other key topics, including movement dysfunction, periodization, core training, and strength and conditioning specifics. The expansive list of worldwide contributors and experts coupled with the comprehensive and far-reaching chapter provision make this the highest-level tennis medicine book ever published.

pre op acl exercises: Psychology of Sport Injury Brewer, Britton W., Redmond, Charles, 2016-11-02 Written by a sport psychology consultant and an athletic trainer, Psychology of Sport Injury provides a thorough explanation of the elements and effects of sport injuries along with up-to-date research and insights for practical application.

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