

exercises for popliteal tendonitis

Exercises for Popliteal Tendonitis: Effective Ways to Relieve Pain and Restore Mobility

Exercises for popliteal tendonitis are essential for anyone dealing with this often-overlooked knee condition. Popliteal tendonitis refers to inflammation or irritation of the popliteal tendon, a crucial structure located behind the knee that helps stabilize the joint during movement. When this tendon becomes inflamed, it can cause pain, swelling, and difficulty with walking or bending the knee. Fortunately, a well-designed exercise regimen tailored to this condition can significantly aid recovery, reduce discomfort, and prevent future flare-ups.

In this article, we'll explore the best exercises for popliteal tendonitis, explain why they matter, and provide helpful tips to ensure you perform them safely and effectively.

Understanding Popliteal Tendonitis and Its Impact

Before diving into the exercises, it's important to understand what popliteal tendonitis involves. The popliteal tendon connects the popliteus muscle to the femur, and it plays a vital role in unlocking the knee from a fully straightened position during walking or running. Overuse, repetitive strain, or sudden trauma can lead to inflammation in this tendon, resulting in pain behind the knee and sometimes swelling or stiffness.

Because the tendon is deep and less commonly injured than other knee tendons, popliteal tendonitis can be tricky to diagnose and treat. However, targeted strengthening and stretching exercises can help restore function by reducing tension on the tendon and improving flexibility around the knee joint.

Why Exercises Are Crucial for Popliteal Tendonitis Recovery

Many people initially rest or avoid movement when experiencing knee pain, but complete inactivity can sometimes prolong recovery. Exercises specifically designed for popliteal tendonitis encourage blood flow to the injured area, promote healing, and prevent muscle imbalances. Strengthening the muscles surrounding the knee—like the quadriceps, hamstrings, and calves—can also help take pressure off the inflamed tendon.

Additionally, flexibility exercises can reduce stiffness in the knee and improve overall joint mobility, making daily activities less painful. The key is to follow a gradual, progressive exercise program that respects your pain threshold and avoids further aggravation.

Key Benefits of Exercise for Popliteal Tendonitis

- **Reduces inflammation:** Gentle movements encourage circulation and healing.
- **Strengthens supportive muscles:** Balanced muscles stabilize the knee joint and reduce tendon stress.
- **Improves flexibility:** Stretching helps prevent stiffness and improves range of motion.
- **Prevents recurrence:** Regular exercise helps maintain tendon health and resilience.

Effective Stretching Exercises to Relieve Popliteal Tendonitis

Stretching plays a pivotal role in managing tendonitis because tight muscles can increase strain on the tendon. Below are some gentle stretches focused on the muscles around the knee:

1. Hamstring Stretch

Tight hamstrings can pull excessively on the knee joint, making tendon irritation worse. To stretch your hamstrings:

- Sit on the floor with one leg extended straight and the other bent inward.
- Slowly lean forward from your hips toward the extended leg, keeping your back straight.
- Hold the stretch for 20-30 seconds without bouncing, then switch legs.

Doing this stretch daily helps reduce tension behind the knee and supports the popliteal tendon.

2. Calf Stretch

The calf muscles attach near the knee and can influence knee mechanics. To perform a calf stretch:

- Stand facing a wall and place your hands on it for support.
- Step one foot back, keeping it straight and the heel on the ground.
- Bend the front knee slightly and lean forward until you feel a stretch in the calf of the back leg.
- Hold for 20-30 seconds and repeat on the other side.

This stretch improves ankle flexibility as well, which indirectly benefits the knee.

3. Quadriceps Stretch

Strengthening and maintaining the flexibility of the quadriceps can stabilize the knee. To stretch your quadriceps:

- Stand near a wall or sturdy object for balance.
- Bend one knee, bringing your heel toward your buttocks.
- Grab your ankle with your hand and gently pull to feel a stretch along the front of your thigh.
- Hold for 20-30 seconds, then switch legs.

Avoid overstretching or any movement that causes sharp pain near the tendon.

Strengthening Exercises to Support the Popliteal Tendon

Strengthening exercises focus on muscles that help take load off the popliteal tendon and improve knee stability.

1. Straight Leg Raises

This exercise strengthens the quadriceps without bending the knee:

- Lie flat on your back with one leg bent and the other straight.

- Tighten the thigh muscles of the straight leg and slowly lift it about 12 inches off the ground.
- Hold for a few seconds, then lower it slowly.
- Repeat 10-15 times on each leg.

Straight leg raises are gentle yet effective for rebuilding strength after injury.

2. Clamshell Exercise

This exercise targets the hip abductors, which contribute to knee alignment:

- Lie on your side with your knees bent at a 45-degree angle.
- Keeping your feet together, lift the top knee as high as possible without rotating your pelvis.
- Hold briefly, then lower the knee back down.
- Perform 15 repetitions on each side.

Proper hip strength reduces knee stress and supports tendon healing.

3. Heel Raises

Strengthening the calves can improve overall lower leg function:

- Stand with feet hip-width apart near a wall or chair for support.
- Slowly rise onto your toes as high as possible.
- Hold for a second, then lower your heels back down.
- Repeat 15-20 times.

This exercise enhances calf endurance and reduces compensatory movements affecting the knee.

Incorporating Low-Impact Cardio for Rehabilitation

Once acute pain subsides, low-impact cardiovascular activities can maintain fitness without overloading the tendon. Swimming and cycling are excellent options because they promote knee movement while minimizing joint stress.

Using a stationary bike with low resistance encourages popliteal tendon mobility and strengthens surrounding muscles. Just be sure to adjust the seat height to avoid excessive knee bending, which might irritate the tendon.

Tips for Safely Performing Exercises for Popliteal Tendonitis

When managing popliteal tendonitis through exercise, safety and gradual progression are paramount. Here are a few helpful tips:

- **Warm up first:** Always begin with light aerobic activity or gentle stretching to prepare your muscles and tendons.
- **Avoid sharp pain:** Mild discomfort is normal, but stop any exercise that causes sharp or worsening pain behind the knee.
- **Progress slowly:** Increase repetitions and intensity gradually to prevent flare-ups.
- **Use proper form:** Incorrect technique can strain the tendon further, so consider guidance from a physical therapist.
- **Incorporate rest:** Allow time for healing between exercise sessions to reduce inflammation.

When to Seek Professional Help

If you experience persistent pain, swelling, or instability despite performing exercises, it's important to consult a healthcare professional. A physical therapist can design a personalized rehabilitation program and may use additional treatments such as manual therapy or modalities to accelerate recovery.

In some cases, diagnostic imaging like an MRI may be needed to rule out other knee injuries that mimic popliteal tendonitis symptoms.

Exercises for popliteal tendonitis can be a game changer in managing pain and restoring knee function. With patience and consistent effort, you can regain strength and flexibility that supports long-term tendon health. Remember, listening to your body and progressing carefully will help you avoid setbacks and get back to your favorite activities sooner.

Frequently Asked Questions

What are the best exercises for popliteal tendonitis recovery?

The best exercises for popliteal tendonitis recovery include gentle stretching of the hamstrings and calves, strengthening exercises for the popliteus muscle such as resisted knee flexion and internal rotation, and low-impact activities like cycling and swimming to maintain mobility without aggravating the tendon.

How can stretching help with popliteal tendonitis?

Stretching helps by improving flexibility around the knee joint, reducing tension on the popliteal tendon, and promoting better blood flow to the injured area, which can aid in faster healing and reduce pain.

Are strengthening exercises important for treating popliteal tendonitis?

Yes, strengthening exercises for the muscles around the knee, especially the popliteus muscle, help stabilize the knee joint, reduce strain on the tendon, and prevent recurrence of popliteal tendonitis.

Can I do weight-bearing exercises with popliteal tendonitis?

Weight-bearing exercises should be introduced gradually and only once pain has decreased. Low-impact weight-bearing exercises like partial squats and step-ups can be beneficial, but high-impact activities should be avoided until full recovery.

Is rest necessary alongside exercises for popliteal tendonitis?

Yes, rest is crucial in the initial stages to reduce inflammation and pain. Exercises should be gentle and progressively increased based on tolerance to avoid overloading the tendon.

What role does eccentric training play in managing popliteal tendonitis?

Eccentric training, which involves lengthening the muscle under tension, can help strengthen the popliteus tendon and improve its load capacity, making it a valuable component in rehabilitation protocols for popliteal tendonitis.

Are there any specific exercises to avoid with popliteal tendonitis?

Yes, high-impact activities, deep knee bends, heavy squats, and twisting motions that aggravate the knee should be avoided during the active phase of popliteal tendonitis to prevent worsening the condition.

How often should exercises be performed for effective popliteal tendonitis treatment?

Exercises should typically be performed daily or every other day, depending on pain levels and guidance from a healthcare professional, with gradual progression in intensity to promote healing without causing further injury.

Additional Resources

Exercises for Popliteal Tendonitis: A Professional Review of Rehabilitation Strategies

Exercises for popliteal tendonitis have become a focal point in both clinical rehabilitation and sports medicine due to the increasing recognition of this condition among athletes and active individuals. Popliteal tendonitis, an inflammation of the tendon of the popliteus muscle located at the back of the knee, often manifests as pain and instability, challenging patients and practitioners alike. Understanding the best exercise protocols is crucial for effective recovery, reducing recurrence, and restoring full knee function.

Understanding Popliteal Tendonitis and Its Impact

Popliteal tendonitis arises primarily from overuse, repetitive knee flexion-extension activities, or acute trauma. The popliteus muscle plays a critical role in stabilizing the knee joint, particularly during rotational movements and unlocking the knee from full extension. When the tendon becomes inflamed, patients typically experience localized pain behind the knee, swelling, and sometimes a sensation of instability. These symptoms can severely limit daily activities and athletic performance.

Rehabilitation through targeted exercises is often the cornerstone of treatment, as it addresses muscle imbalances, improves tendon resilience, and restores biomechanical

function. However, the challenge lies in selecting exercises that promote healing without exacerbating symptoms.

Key Principles Behind Exercises for Popliteal Tendonitis

Before delving into specific exercises, it is important to recognize the foundational principles guiding rehabilitation:

- **Progressive loading:** Controlled and gradual increase in tendon load encourages collagen synthesis and tendon remodeling.
- **Range of motion (ROM) restoration:** Preserving or regaining normal knee mobility reduces stiffness and prevents compensatory movement patterns.
- **Muscle strengthening:** Particularly of the popliteus and surrounding stabilizers like the hamstrings, quadriceps, and calf muscles, which support knee stability.
- **Neuromuscular control:** Enhancing proprioception and coordination to prevent re-injury.

These principles emphasize a comprehensive approach, combining flexibility, strength, and motor control rather than isolated muscle work.

Initial Phase: Pain Management and Gentle Mobility

Early-stage rehabilitation focuses on minimizing inflammation and pain. During this phase, exercises are carefully selected to avoid aggravating the tendon.

- **Passive and Active-Assisted Range of Motion:** Gentle knee flexion and extension movements within a pain-free range help maintain joint mobility.
- **Isometric Contractions:** Static contractions of the quadriceps and hamstrings can be performed without joint movement, reducing tendon strain while maintaining muscle activation.
- **Calf Stretching:** Tight calf muscles can increase stress on the posterior knee; thus, gentle stretching may alleviate some symptoms.

These interventions are often accompanied by modalities such as ice application and non-steroidal anti-inflammatory drugs (NSAIDs), guided by medical professionals.

Intermediate Phase: Strengthening and Endurance Building

Once pain subsides, the focus shifts toward rebuilding strength and endurance in the popliteal tendon and associated musculature. This phase typically includes eccentric and concentric exercises.

- **Resisted Knee Flexion:** Using resistance bands or light weights, patients perform knee flexion exercises to strengthen the hamstrings and popliteus indirectly.
- **Terminal Knee Extension with Resistance:** Engaging the quadriceps through controlled extension movements stabilizes the knee and supports the tendon.
- **Single-Leg Balance Drills:** These exercises improve neuromuscular control and proprioception, critical for preventing recurrent injury.

Incorporating low-load, high-repetition exercises during this phase optimizes tendon healing by promoting collagen alignment and vascularization.

Advanced Phase: Functional and Sport-Specific Conditioning

The final stage of rehabilitation aims to return the patient to full activity and prevent future episodes. Here, exercises mimic real-life or sport-specific demands.

- **Plyometric Drills:** Controlled jumping and landing exercises enhance dynamic knee stability.
- **Rotational Movements:** Since the popliteus controls knee rotation, exercises involving pivoting and twisting under supervision are crucial.
- **Agility Training:** Ladder drills and cone exercises reintegrate complex movement patterns.

At this point, careful monitoring is necessary to prevent overload, as premature return to high-impact activities can precipitate relapse.

Comparisons with Other Tendonitis

Rehabilitation Protocols

While popliteal tendonitis shares characteristics with other posterior knee pathologies such as hamstring tendinopathy or posterior cruciate ligament (PCL) injuries, its rehabilitation warrants specific attention due to the unique function of the popliteus muscle. Unlike the more commonly addressed quadriceps tendonitis, exercises for popliteal tendonitis prioritize rotational stability and posterior knee control.

Studies comparing eccentric exercise protocols for various tendinopathies suggest that tendon-specific loading, adjusted to the anatomical and functional demands of the affected tendon, yields superior outcomes. Consequently, incorporating rotational strengthening and proprioceptive drills is more emphasized in popliteal tendonitis rehabilitation.

Role of Therapeutic Modalities in Complementing Exercise

In addition to active exercises, adjunct therapies such as ultrasound, laser therapy, and dry needling are sometimes employed to accelerate recovery. However, evidence remains mixed regarding their efficacy. The consensus in clinical practice highlights that while these modalities may offer symptomatic relief, the cornerstone of effective treatment remains progressive, targeted exercise.

Common Challenges and Considerations in Exercise Prescription

Rehabilitation for popliteal tendonitis must navigate several challenges:

- **Patient Compliance:** The gradual nature of tendon healing requires patience, and adherence to exercise regimens can be difficult, especially in athletes eager to return to sport.
- **Individual Variability:** Differences in anatomy, activity level, and severity of tendonitis necessitate personalized exercise programs rather than one-size-fits-all protocols.
- **Risk of Overuse:** Because the condition often arises from repetitive stress, careful monitoring is essential to avoid exacerbation during rehabilitation.

Addressing these issues requires collaboration between physical therapists, physicians, and patients to optimize recovery outcomes.

Incorporating Technology and Monitoring Tools

Emerging technologies such as wearable sensors and motion analysis software are increasingly utilized to objectively assess knee mechanics during rehabilitation exercises. These tools allow clinicians to fine-tune exercise intensity and form, thereby enhancing the safety and effectiveness of exercises for popliteal tendonitis.

Summary of Effective Exercises for Popliteal Tendonitis

A practical overview of exercises frequently recommended includes:

1. **Isometric Hamstring Holds:** Performed lying prone, holding knee flexion against resistance without movement.
2. **Resisted Knee Flexion with Resistance Bands:** Gradually increasing resistance to build strength.
3. **Single-Leg Stance with Knee Rotation:** Enhances neuromuscular control and popliteus activation.
4. **Seated Calf Raises:** Strengthen gastrocnemius, indirectly supporting the knee.
5. **Wall Slides:** Controlled knee flexion-extension against a wall to restore ROM.

These exercises should be performed within pain-free limits, progressively increasing intensity under professional supervision.

In summary, exercises for popliteal tendonitis are a nuanced blend of mobility, strength, and neuromuscular control strategies designed to restore knee function and prevent future injury. The complexity of this tendon's role in knee biomechanics necessitates a tailored approach, emphasizing gradual progression and functional relevance. When integrated thoughtfully into rehabilitation programs, these exercises offer a pathway to effective healing and sustained joint health.

[Exercises For Popliteal Tendonitis](#)

exercises for popliteal tendonitis: Therapeutic Exercise Michael Higgins, 2011-04-19

Here's the text that builds a strong foundation in the science of sports medicine, and teaches you to apply that knowledge to the planning, development, and implementation of therapeutic exercise

programs for specific dysfunctions for all joints of the body. You'll begin with an introduction to the science behind rehabilitation and the application of specific techniques. Then, for each joint, guided decision-making, chapter-specific case studies, lab activities and skill performance help you meet all of the competencies for therapeutic exercise required by the NATA.

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exercises for popliteal tendonitis: *Manual Therapy for Musculoskeletal Pain Syndromes* Cesar Fernandez de las Penas, Joshua Cleland, Jan Dommerholt, 2015-04-28 A pioneering, one-stop manual which harvests the best proven approaches from physiotherapy research and practice to

assist the busy clinician in real-life screening, diagnosis and management of patients with musculoskeletal pain across the whole body. Led by an experienced editorial team, the chapter authors have integrated both their clinical experience and expertise with reasoning based on a neurophysiologic rationale with the most updated evidence. The textbook is divided into eleven sections, covering the top evidence-informed techniques in massage, trigger points, neural muscle energy, manipulations, dry needling, myofascial release, therapeutic exercise and psychological approaches. In the General Introduction, several authors review the epidemiology of upper and lower extremity pain syndromes and the process of taking a comprehensive history in patients affected by pain. In Chapter 5, the basic principles of the physical examination are covered, while Chapter 6 places the field of manual therapy within the context of contemporary pain neurosciences and therapeutic neuroscience education. For the remaining sections, the textbook alternates between the upper and lower quadrants. Sections 2 and 3 provide state-of-the-art updates on mechanical neck pain, whiplash, thoracic outlet syndrome, myelopathy, radiculopathy, peri-partum pelvic pain, joint mobilizations and manipulations and therapeutic exercises, among others. Sections 4 to 9 review pertinent and updated aspects of the shoulder, hip, elbow, knee, the wrist and hand, and finally the ankle and foot. The last two sections of the book are devoted to muscle referred pain and neurodynamics. - The only one-stop manual detailing examination and treatment of the most commonly seen pain syndromes supported by accurate scientific and clinical data - Over 800 illustrations demonstrating examination procedures and techniques - Led by an expert editorial team and contributed by internationally-renowned researchers, educators and clinicians - Covers epidemiology and history-taking - Highly practical with a constant clinical emphasis

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the volume, investigating the use of guidelines, standards and quality improvement initiatives in the management of post-operative pain, and discussing the expert medicolegal report.

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Harald Breivik, Michael Nicholas, William Campbell, Toby Newton-John, 2008-09-26 Largely reorganised and much expanded in this second edition, Practice and Procedures brings together in a single volume general methods of pain assessment and presents the wide range of therapies that can be provided by a range of health care disciplines. Authored by a multidisciplinary team of experts, chapters can stand alone for readers looking

exercises for popliteal tendonitis: Davidson's Principles and Practice of Medicine

E-Book Ian D Penman, Stuart H. Ralston, Mark W.J. Strachan, Richard Hobson, 2022-06-20 Well over two million medical students, doctors and other health professionals around the globe have owned a copy of Davidson's Principles and Practice of Medicine since it was first published over 70 years ago. Now in its 24th Edition, this thoroughly updated textbook describes the pathophysiology and clinical features of the most frequently encountered conditions in the major specialties of adult medicine, and explains how to recognise, investigate, diagnose and manage them. Taking its origins from Sir Stanley Davidson's much-admired lecture notes, Davidson's has endured because it keeps pace with how modern medicine is taught and provides a wealth of trusted information in an easy-to-read, concise and beautifully illustrated format. Key features: - Part 1 'Fundamentals of Medicine' - provides an account of the principles of genetics, immunology, infectious diseases, population health, oncology and pain management, along with a discussion of the core principles behind clinical decision-making and good prescribing. - Part 2 'Emergency and Critical Care Medicine' - covers medical emergencies in poisoning, envenomation and medicine in austere environments, as well as common presentations in acute medicine and the recognition and management of the critically ill. - Part 3 'Clinical Medicine'- covers the major medical specialties, each thoroughly revised and brought fully up to date. A new section on COVID-19 has been added and the impact of this infection is described throughout the book. - Clinical Examination overviews - extended and updated to summarise the main elements for each system. - Presenting Problems sections - provide a clear pathway for the assessment of and approach to the most common complaints in each specialty. - Practice Point summaries - detail the practical skills that medical students and junior doctors must acquire. - Emergency boxes - emphasise the core knowledge needed to manage acutely ill patients. - In Old Age, In Pregnancy and In Adolescence boxes - highlight differences in the practice of medicine in these patient groups, and illustrate the interfaces between medical, obstetric and paediatric services. - The text is extensively illustrated - with over 1000 diagrams, clinical photographs, and radiology and pathology images. - The global perspective is enhanced by an International Advisory Board of experts from 11 countries and by leading authors from around the world. The complete, downloadable eBook version is included with your (print copy) purchase - for easy access on your portable device, anytime, anywhere! Now enhanced with: - NEW interactive self-assessment material - over 150 Questions and Answers test your understanding of chapter key points and aid efficient exam preparation Davidson's will serve readers everywhere as a core text that integrates medical science with clinical medicine, conveying key knowledge and practical advice in a highly accessible and readable format. **REVIEWS** Beautifully constructed with superb clarity of style - Davidson's continues to provide for students, doctors and other health professionals a sound basis for the practice of medicine. Royal Society of Medicine and Society of Authors Medical Book Awards This book comes through where others fail: an excellent textbook, easy to read and superb value. British Medical Journal

exercises for popliteal tendonitis: Sports Injuries

Lars Peterson, Per A.F.H. Renstrom, Scott Lynch, 2024-01-25 As more people realize the cardiovascular, metabolic and muscular benefits that regular physical activity provides, the risk for potential injury also increases. To provide successful treatment, all persons involved in the management of injuries must have a thorough understanding of the healing process of the various tissues and also be familiar with the demands of different types of sports. Written by three world-renowned experts, Sports Injuries, Fifth Edition, comprehensively

covers the prevention, treatment and rehabilitation of sports injuries. Essential reading for all athletes, coaches/trainers, physiotherapists, nurses and doctors, the updated edition of this highly popular and well-established textbook skillfully integrates scientific background and evidence with practical application. Updated topics covered include: Individual risk factors for sports injuries Effects of physical inactivity on the tissues Head and face injuries in sport Cervical, thoracic and abdominal injuries in sport Back and spine injuries in sport Leg, knee and thigh injuries Outdoor activities during extreme conditions Ethical considerations in sports and exercise medicine Injuries in sport for the disabled, growing and aging athletes Richly illustrated with more than 600 color drawings and photographs, this book covers injuries resulting from the full range of international sports. For each type of injury examined, it details the symptoms, mechanism of injury, diagnosis, treatment, rehabilitation protocols and key points – clearly stating what both non-medical and medical professionals should do in each case of injury. This easy-to-follow textbook features a glossary of key terms and protocols with rehabilitation exercises to provide readers with a solid understanding about how to effectively treat, rehabilitate and prevent sports injuries. This book will be of key reading to academics and students of sport medicine, sport injury, physiotherapy and sports rehabilitation as well as related disciplines.

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exercises for popliteal tendonitis: *Tendinopathy* Kentaro Onishi, Michael Fredericson, Jason

L. Dragoo, 2021-06-09 This comprehensive office guide will provide up-to-date diagnostic and management information for various tendinopathies seen in the clinic. Opening chapters discuss the basic science of tendons: physiology, pathophysiology and biomechanics, including mechano-transduction. Subsequent chapters focus anatomically on both the upper and lower extremities, from the rotator cuff to the wrist and hand, and from the groin and gluteus down to the foot and ankle. Each of these chapters follows a concise, easy-to-use format, consisting of an introduction followed by clinical presentation, physical examination, imaging and radiographic grading, and treatment strategies both surgical and non-surgical, including indications for surgical referral. The concluding chapters present emerging mechanical, orthobiologic and chemical in-office procedures as well as emerging operative techniques. Practical and user-friendly, Tendinopathy will be an excellent resource for sports medicine specialists, orthopedic surgeons, physical therapy and rehabilitation specialists, and any other clinicians treating these common athletic injuries.

exercises for popliteal tendonitis: Knee Arthroscopy and Knee Preservation Surgery

Seth L. Sherman, Jorge Chahla, Robert F. LaPrade, Scott A. Rodeo, 2024-09-19 This major reference works 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.

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