

itb foam roller exercises

itb foam roller exercises are a crucial component of any routine aimed at alleviating pain, improving mobility, and preventing injury, particularly for runners, cyclists, and those experiencing iliotibial band syndrome. The iliotibial (IT) band is a thick band of fibrous tissue that runs along the outside of your thigh, from your hip to your shinbone. When this band becomes tight or inflamed, it can cause significant discomfort and hinder athletic performance. Foam rolling is a highly effective self-myofascial release technique that targets these tight muscles and connective tissues. This comprehensive guide will delve into the most effective IT band foam roller exercises, their benefits, proper technique, and how to integrate them into your regular fitness regimen. We will explore specific movements, variations, and essential considerations for maximizing your results and achieving pain-free movement.

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Understanding the IT Band and Its Issues

The Anatomy and Function of the IT Band

The iliotibial band, often referred to as the IT band, is a robust fascial structure that originates from the tensor fasciae latae muscle in the hip and the gluteus maximus muscle, extending down the lateral aspect of the thigh to insert on the tibia (shinbone) via Gerdy's tubercle. Its primary role is to provide stability to the knee and hip, assisting in abduction and external rotation of the hip and contributing to knee extension. It acts as a crucial stabilizer during gait and locomotion, absorbing shock and ensuring smooth movement of the leg.

Despite its strength and resilience, the IT band is susceptible to overuse and irritation, especially in individuals who engage in repetitive lower body movements. Conditions like iliotibial band syndrome (ITBS) are common, characterized by inflammation and pain along the outside of the thigh and around the knee joint. This often arises from a combination of muscle imbalances, improper training techniques, and biomechanical inefficiencies.

Common Causes of IT Band Tightness and Pain

Several factors can contribute to tightness and subsequent pain in the IT band. Muscle imbalances are a primary culprit, with weakness in the hip abductors (gluteus medius and minimus) and external rotators often leading to increased strain on the IT band. Weak glutes mean the IT band has to compensate, becoming overloaded. Poor biomechanics, such as overpronation of the foot or a leg length discrepancy, can also place undue stress on the IT band.

Furthermore, overuse and repetitive motions, particularly in endurance sports like running and cycling, are major contributors. Sudden increases in training volume or intensity without adequate recovery can exacerbate pre-existing tightness. Poor form during exercise, inadequate warm-up and cool-down protocols, and even prolonged sitting with crossed legs can contribute to a tight IT band over time. Understanding these root causes is essential for effectively addressing IT band issues.

Benefits of Foam Rolling the IT Band

Myofascial Release and Pain Reduction

Foam rolling, a form of self-myofascial release (SMR), works by applying sustained pressure to the IT band and surrounding muscles. This pressure helps to break down adhesions and scar tissue that may have formed due to overuse or injury. By releasing these restrictions, foam rolling can significantly alleviate pain and discomfort associated with IT band syndrome and general muscle tightness. The process encourages blood flow to the area, promoting healing and reducing inflammation, which are key to pain management and recovery.

Improved Flexibility and Range of Motion

Tightness in the IT band can restrict hip and knee movement, impacting athletic performance and everyday activities. Regular foam rolling can help to lengthen the fascia and muscle fibers, restoring elasticity and flexibility. This improved range of motion allows for more efficient movement patterns, reducing the risk of compensatory injuries and enhancing overall athletic capability. Whether you're an athlete seeking to improve your stride or someone looking to move more freely, IT band foam rolling can be a game-changer.

Enhanced Athletic Performance and Injury Prevention

By addressing IT band tightness and promoting healthy tissue function, foam rolling plays a vital role in both performance enhancement and injury prevention. When the IT band is supple and free from restrictions, the muscles of the hip and leg can function optimally.

This leads to improved power transfer, better stride mechanics for runners, and more efficient pedaling for cyclists. Furthermore, by preventing the development of chronic tightness and inflammation, foam rolling significantly reduces the likelihood of debilitating injuries like ITBS, allowing for consistent training and competition.

Essential Equipment: Choosing the Right Foam Roller

Types of Foam Rollers

Foam rollers come in various densities, textures, and shapes, each offering a different experience.

- **Standard Density (Smooth):** These are typically white and are the softest option, ideal for beginners or those with extreme sensitivity. They provide a gentler massage.
- **Medium Density (Smooth or Textured):** Often blue or green, these offer a firmer pressure and are suitable for most users who have some experience with foam rolling.
- **High Density (Smooth or Textured):** Black foam rollers are the firmest and provide the deepest tissue massage. They are best for experienced users who need to target stubborn knots and adhesions.
- **Textured Rollers:** These feature bumps or ridges designed to mimic the fingers of a massage therapist, providing more targeted pressure.

For targeting the IT band specifically, a roller with a moderate to firm density is generally recommended, as the IT band is a thick and often resilient structure. A smooth surface is usually preferred for the direct rolling of the IT band itself, while textured rollers might be beneficial for adjacent muscles like the glutes and quadriceps.

Considerations for IT Band Rolling

When selecting a foam roller for IT band exercises, consider your individual needs and experience level. Beginners might benefit from starting with a smoother, less dense roller to gradually acclimate their tissues. As you become more accustomed to the sensation, you can progress to firmer or textured options for deeper release. The length of the roller is also a factor; a standard 36-inch roller is versatile, while shorter 12-inch or 18-inch rollers are more portable and can be useful for specific muscle groups. For IT band rolling, a standard length is typically sufficient to support your body comfortably.

Key IT Band Foam Roller Exercises Explained

The Classic IT Band Roll

This is the foundational exercise for addressing IT band tightness. Lie on your side with the foam roller positioned beneath your outer thigh, starting just above the knee. Support your upper body with your forearms, keeping your core engaged. Your legs can be stacked or the top leg can be placed on the floor in front for added stability. Slowly roll from just above the knee up towards the hip. Pause and hold on any particularly tender spots for 20-30 seconds, applying steady pressure.

To increase the pressure, you can lift your supporting leg off the ground, allowing more of your body weight to press into the roller. Conversely, if the pressure is too intense, you can ease off by placing more weight on your supporting hand or foot. Focus on a slow and controlled movement, ensuring you cover the entire length of the IT band. Repeat this on the other leg.

Quadriceps and Glute Integration

While the IT band itself is the primary focus, the muscles that attach to it, particularly the quadriceps and glutes, often contribute to its tightness. Therefore, incorporating rolling of these adjacent muscle groups is highly beneficial. For the quadriceps, lie face down with the foam roller positioned beneath your thighs. Roll from just above the knee to the hip, shifting your body slightly to target different parts of the quad.

For the glutes, sit on the foam roller with your legs extended. Cross one leg over the opposite knee, creating a figure-four position. Lean into the hip of the crossed leg, rolling slowly over the gluteal muscles. You can experiment with different angles and hand placements to find the most tender or tight areas. Releasing tension in the quads and glutes can significantly reduce the pull and strain on the IT band.

Hip Flexor and Hamstring Roll

Tight hip flexors can also contribute to IT band issues by altering pelvic alignment and gait mechanics. To roll the hip flexors, kneel with the foam roller placed beneath the front of your hip. You may need to adjust your position to find the correct spot. Gently roll the area. For hamstrings, sit with the roller beneath your thighs and use your hands to support yourself, rolling from the knee to the glutes. Incorporating these areas ensures a more holistic approach to lower body mobility and can indirectly alleviate IT band stress.

Proper Technique for IT Band Foam Rolling

Positioning and Pressure Control

The correct positioning is paramount for effectively and safely rolling the IT band. As described in the classic IT band roll, you should be lying on your side with the roller positioned directly under the outer thigh. The key is to apply pressure directly to the IT band, which runs along the side of your leg. Avoid rolling directly over the bony prominences of your knee or hip. Control the pressure by adjusting how much body weight you place on the roller. If it's too intense, use your arms and the non-rolling leg to reduce the load. If it's not intense enough, you can stack your legs or lift the top leg higher.

Movement and Breathing

Foam rolling should be a slow and deliberate process. Avoid rapid, bouncing motions. Instead, move slowly and steadily along the length of the muscle group. When you encounter a particularly tight or tender spot, often referred to as a "trigger point," hold the pressure on that spot for 20-30 seconds, or until you feel the tightness begin to release. During this process, focus on deep, diaphragmatic breathing. Inhaling helps to prepare the tissue, and exhaling allows the muscles to relax and release. Conscious breathing enhances the effectiveness of the myofascial release.

Duration and Frequency Guidelines

For individuals experiencing IT band pain or tightness, performing IT band foam roller exercises on a daily basis can be highly beneficial. A typical session might involve rolling each leg for 1-2 minutes, with an additional 30 seconds spent on any particularly sore areas. For general maintenance and injury prevention, rolling 3-5 times per week is usually sufficient. It's important to listen to your body; excessive or overly aggressive rolling can cause bruising or increased inflammation. Consistency is key, and finding a rhythm that works for you is more important than arbitrary time limits.

Integrating IT Band Foam Roller Exercises into Your Routine

Pre-Workout Activation and Warm-up

Foam rolling before exercise can serve as an excellent dynamic warm-up, preparing the muscles for activity. Instead of static stretching, which can temporarily reduce muscle power, rolling helps to increase blood flow and muscle pliability. Spend a few minutes rolling your IT bands, quads, and glutes to ensure your muscles are ready for your workout. This can help to improve your range of motion and reduce the immediate onset of muscle soreness, allowing you to perform at your best from the start.

Post-Workout Recovery and Cool-down

After a strenuous workout, your muscles will be fatigued and potentially tight. Foam rolling post-exercise aids in recovery by helping to clear metabolic waste products and reduce muscle soreness (DOMS). It can also help to restore muscle length and prevent the development of chronic tightness that might otherwise occur. Dedication time to rolling the IT band and other key muscle groups after training is an investment in your long-term athletic health and ability to perform consistently.

As Part of a Comprehensive Flexibility Program

Foam rolling is most effective when integrated into a broader flexibility and mobility program. This should include a combination of dynamic stretching, static stretching (performed thoughtfully and at appropriate times), and strengthening exercises. For IT band issues, a strong emphasis on strengthening the glutes and hip abductors is crucial. Foam rolling addresses the myofascial component, while targeted strengthening corrects underlying muscle imbalances, creating a more robust and effective approach to managing IT band health.

Precautions and When to Seek Professional Help

When to Modify or Avoid Foam Rolling

While foam rolling is generally safe and effective, there are instances when modifications or complete avoidance are necessary. If you experience sharp, shooting pain during or after rolling, stop immediately. Avoid rolling directly over acute injuries, open wounds, or recent surgical sites. If you have certain medical conditions, such as severe osteoporosis, deep vein thrombosis, or varicose veins, consult with your doctor before starting a foam rolling routine. Pregnant individuals should also seek medical advice. Over-rolling or applying excessive pressure can sometimes lead to bruising or increased inflammation, so it's important to be mindful of your body's signals.

Recognizing Signs That Require Professional Attention

While foam rolling can alleviate many IT band-related issues, it's not a substitute for professional medical care when needed. If your pain is severe, persistent, or worsening despite consistent foam rolling and self-care measures, it's time to seek professional help. Other signs that warrant medical attention include significant swelling, redness, or warmth around the affected area, numbness or tingling sensations, or a noticeable inability to bear weight on the affected leg. A physical therapist, sports medicine physician, or certified athletic trainer can provide a proper diagnosis and develop a personalized treatment plan.

Q: How often should I perform IT band foam roller exercises?

A: For general maintenance and injury prevention, aim to foam roll your IT bands 3-5 times per week. If you are experiencing significant tightness or pain associated with IT band syndrome, daily rolling might be beneficial, but always listen to your body and avoid overdoing it.

Q: What is the correct pressure to use when rolling my IT band?

A: The pressure should be firm enough to feel a release in the tight tissue but not so intense that it causes sharp or unbearable pain. You should feel a "good hurt" or discomfort that gradually subsides. Adjust the pressure by changing how much body weight you place on the roller.

Q: Can foam rolling my IT band help with knee pain?

A: Yes, IT band foam roller exercises can significantly help with knee pain, especially if the pain is related to IT band syndrome. By releasing tightness in the IT band and surrounding muscles, you can reduce the friction and inflammation that often contribute to lateral knee pain.

Q: Should I roll directly on the bone or the muscle?

A: You should aim to roll the soft tissues, meaning the muscles and fascia, not directly on the bone. For the IT band, this means rolling along the outer side of your thigh, avoiding direct pressure on the bony parts of your hip and knee.

Q: What is the difference between rolling the IT band and rolling the quadriceps or glutes?

A: The IT band is a thick band of connective tissue, and rolling it is about releasing adhesions and tightness in that specific structure. Rolling the quadriceps and glutes targets the muscles themselves, which are often tight and can contribute to IT band strain. A comprehensive approach often includes rolling all these areas.

Q: How long should I hold a tender spot when foam rolling my IT band?

A: When you find a particularly tender or tight spot on your IT band, hold the pressure on that area for about 20-30 seconds, or until you feel a release in tension. Continue to breathe deeply during this sustained pressure.

Q: Can I use a massage ball instead of a foam roller for my IT band?

A: Yes, a massage ball (like a lacrosse ball) can be used for targeted release of trigger points within the IT band or associated muscles. However, a foam roller is generally better for covering larger areas and providing sustained pressure along the entire length of the IT band.

Q: Is it normal to experience soreness after foam rolling my IT band?

A: Mild soreness for a day or so after foam rolling is normal, especially if you are new to it or worked on particularly tight areas. However, if you experience sharp pain, significant bruising, or prolonged soreness that interferes with your daily activities, you might be applying too much pressure or rolling too aggressively.

Itb Foam Roller Exercises

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itb foam roller exercises: The Complete Running and Marathon Book DK, 2014-02-06 A one-stop guide for any aspiring runner including everything you need to know, whether you're doing your first run or your first marathon. The Complete Running and Marathon Book covers all the essential topics around running, and much more, from choosing the right footwear to eating right

and warming up. Are you aiming to run a race, such as a 5K, 10K, half marathon, or marathon? Train efficiently with one of the specific programs for your distance. Invaluable tips can help you to gain a vital competitive edge - whether you're competing against other runners or your own personal best - from goal-setting and motivation to running psychology and race tactics. Assess and develop your technique under clear no-nonsense guidance with detailed visuals to help you understand what your body is going through. Key pre- and post-run step-by-step stretches help you to protect yourself from injury and core and resistance-training exercises can help you to run faster and further. The Complete Running and Marathon Book is perfect for any new or aspiring runner looking to go the distance.

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itb foam roller exercises: Strength and Conditioning for Cyclists Phil Burt, Martin Evans, 2018-09-20 For a longer, healthier and more successful cycling career, follow Phil and Martin's strength and conditioning plan. Phil Burt and Martin Evans have worked with the world's best cyclists, including the Great Britain Cycling Team, devising and implementing highly effective off the bike training plans. Now, in Strength and Conditioning for Cyclists you can benefit from their wealth of knowledge and experience and apply it to make you a stronger, faster and more robust cyclist. Use the self-assessment, inspired by the Functional Movement Screening used by the Great Britain Cycling Team, to identify your strengths and weaknesses. Discover the mobility and strengthening movements that are most applicable to your needs, maximising effectiveness and avoiding wasted time. Learn how to devise your own personalised and progressive off the bike training plan, how to schedule it into your year and combine it most effectively with your cycling.

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information on how strength and conditioning will impact on you, the scientific evidence (in practical language) to support the claims, how much you can expect to gain and practical examples of how to implement the training. An indispensable practical guide, it looks at how to plan your strength and conditioning training throughout the calendar and how to incorporate this work into your regular triathlon training. It also provides a comprehensive resource of conditioning exercises, strength exercises and running drills, all of which are fully illustrated so you can guarantee great technique. This is the essential companion to anyone wishing to improve their triathlon results.

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itb foam roller exercises: Run Healthy Emmi Aguillard, Jonathan Cane, Allison L. Goldstein, 2023-02-02 If you are a serious runner, you are well aware of the aches and pains associated with the sport. Run Healthy: The Runner's Guide to Injury Prevention and Treatment was written to help you distinguish discomfort from injury. It provides the latest science-based and practical guidance for identifying, treating, and minimizing the most common injuries in track, road, and trail running. In Run Healthy, you'll learn how the musculoskeletal system functions and responds to training, and you'll see how a combination of targeted strength work, mobility exercises, and running drills can improve your running form and address the regions where injuries most often occur: feet and toes, ankles, knees, hips, and lower back. You'll learn how to identify, treat, and come back from the most common injuries runners face, including plantar fasciitis, Achilles tendinitis, shin splints, hamstring tendinitis and tendinopathy, and IT band syndrome. You'll also hear from 17 runners on how the techniques in this book helped them overcome injuries and get back to training and racing-quickly and safely. Plus, a detailed look into popular alternative therapies such as acupuncture, cupping, CBD, cryotherapy, and cleanses will help you separate fact from fiction so you can decide for yourself if any of these therapies are appropriate for you. If you're passionate about running, Run Healthy is essential reading. It's your ticket to running strong for many years to come.

itb foam roller exercises: The Athlete's Book of Home Remedies Jordan D. Metzl, MD, Mike

Zimmerman, 2012-03-13 Identify, treat, and—most important—prevent common debilitating sports injuries and medical conditions. Whether you're a hardcore competitor or a weekend warrior, this book belongs on your shelf. The Athlete's Book of Home Remedies is your go-to resource for safe, effective, do-it-yourself treatments whether you have a strain, sprain, or pain that you've never felt before. When you get hurt, you have fears. You have questions. Ice or heat? Should I see a doctor? Will I need surgery? This book answers those questions and allays those fears. Dr. Jordan Metzl, one of the nation's leading sports medicine physicians, breaks down all the information into easy-to-follow strategies for effective self-treatment—while letting you know in no uncertain terms when you should go see your own doctor, pronto. The book also answers other common training questions like, What should I eat to fuel my workouts? and What exercises can I do to prevent injury and perform at the next level? Understand: Metzl isn't just a doctor. He's an elite athlete, having completed 9 Ironman triathlons and 29 marathons. He understands the mind of the athlete, how psychologically devastating any injury can be, and what it takes to get you back in your game as quickly and safely as possible. In The Athletes Book of Home Remedies, you'll find:

- Eye-popping anatomical illustrations of each injury, detailed symptoms, how the injury happens, and how to fix it
- The secret system of the body that you can tap to boost performance and prevent injury

Concussions: What you need to know • The most annoying sports maladies ever—from athlete's foot to side stitches—cured! • The Iron Strength Workouts: Intense, total-body exercise routines for all fitness levels designed to build injury-proof athletes • Two comprehensive eating plans, each with a week's worth of meals engineered to fit the specific nutrition needs for endurance training or strength training • Dozens of sneaky tips for gaining an edge in any sport

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for practitioners who prescribe home exercise programs for musculoskeletal and sports injuries Presents foundational, intermediate, and more advanced exercises for each body region and condition based on the current literature to achieve desired outcomes Highly visual approach with over 400 photographs demonstrating each exercise effectively with step-by-step instructions Each chapter includes evidence-based recommendations and goals for advancement of the exercise program Includes digital access to the ebook for use on most mobile devices and computers

itb foam roller exercises: Manual Therapy for Musculoskeletal Pain Syndromes Cesar Fernandez de las Penas, Joshua Cleland, Jan Dommerholt, 2015-06-26 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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- A basic overview of healthy running, with emphasis on developing a strong kinetic chain
- The science behind improving your running form and performance
- Prescriptions for preventing and treating a multitude of running injuries and maladies
- Dozens of step-by-step stretches and exercises to help strengthen and increase the flexibility of key running muscles
- Useful information on proper nutrition and hydration
- And much more!

itb foam roller exercises: Athletic Training and Sports Medicine Chad Starkey, Glen Johnson, 2006 This comprehensive guide, written in co-operation with the American Academy of Orthopaedic Surgeons (AAOS), has been extensively revised. The Fourth Edition of *Athletic Training and Sports Medicine* is a multi-purpose, multi-course text that emphasizes the post-injury management techniques used by certified/licensed athletic trainers and physicians in management of orthopaedic injuries. The collaboration of athletic trainers, sports medicine physicians, and physical therapists

provides a balanced, in-depth review of common sports injuries, acute treatment, and rehabilitation as well as medical conditions that impact the entire body. In each chapter, following a description of the pathology, considerations are presented for immediate management, surgical/medical interventions, follow-up management (e.g., short-term bracing, immobilization), and factors influencing the patient's care.

itb foam roller exercises: Born to Run 2 Christopher McDougall, Eric Orton, 2022-12-06
From the best-selling author and renowned coach duo from Born to Run, a fully illustrated, practical guide to running for everyone from amateurs to seasoned runners, about how to eat, race, and train like the world's best. Whether you're ramping up for a race or recuperating from an injury, Born to Run 2 is a holistic program for runners of every stripe that centers on seven key themes: food, fitness, form, footwear, focus, fun, and family. The guide contains: On-the-run recipes for race-ready nutrition Training regimen to help get you in shape and achieve your running goals Corrective drills to perfect your form Helpful shoe recommendations Advice about how to bring more joy into running Suggestions for finding a running community Christopher McDougall and Eric Orton bring all the elements together into an integrated action plan—the 90-Day Run Free training schedule—that provides everything you need to prepare for a mile-long fun run or a 100-mile ultramarathon. Full of helpful illustrations and full-color photos of the iconic first Copper Canyons race, Born to Run 2 is the perfect training companion for anyone who wants to get inspired about the sport again and learn the proven techniques to run smoother, lighter, and swifter.

itb foam roller exercises: 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.

itb foam roller exercises: Triathletes in Motion Marc Evans, Jane M. Cappaert, 2014-06-17
Traditionally the focus of triathlon is on volume, intensity, and training periodization—doing particular workouts during the months, weeks, and days leading up to a race. But what if you could improve performance without logging extra distance on the road or in the water? That is the promise of Triathletes in Motion: Assessing Movement for World-Class Technique and Performance. In this book, Marc Evans introduces the Evans Assessment principle and makes the case that every triathlon training regimen should start with the physical assessments of movement. By looking carefully at movements during these assessments, you can detect limitations to mobility, flexibility, strength, and stability. These limiters cannot be corrected by traditional technique instruction alone, so Evans presents specific exercises and tests that address each one. The results are greater efficiency, fewer injuries, and faster performances. Whether you are a veteran triathlete seeking a performance breakthrough, a newer triathlete starting the training season, or a coach or member of a triathlon federation searching for that edge, training should start with Triathletes in Motion. This resource includes hundreds of tests and exercises to help triathletes swim, cycle, and run faster and more economically. Marc Evans was triathlon's first professional coach and has consulted, coached, collaborated with, and mentored some of the biggest names in the sport, including Dave Scott and Scott Tinley. His coauthor, Jane Cappaert, is a leading expert in sport biomechanics. Now they make their unique expertise available to everyone in Triathletes in Motion.

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