

jay dicharry anatomy for runners

jay dicharry anatomy for runners is a pivotal topic for those aiming to enhance their running form and prevent injuries. Understanding the intricate anatomy of the body as it relates to running can significantly improve performance and longevity in the sport. Jay Dicharry, a renowned physical therapist and author, emphasizes the importance of biomechanics in running, providing insights into how anatomical structures function during movement. This article delves into the key components of Dicharry's anatomy model for runners, explores how to apply these concepts to improve running efficiency, and discusses injury prevention strategies. With a focus on practical applications, this guide aims to equip runners with the knowledge necessary to optimize their physical capabilities.

- Understanding Jay Dicharry's Approach
- The Anatomy of Running
- Key Muscles Involved in Running
- Biomechanics and Gait Analysis
- Injury Prevention Strategies
- Practical Applications for Runners
- Conclusion

Understanding Jay Dicharry's Approach

Jay Dicharry's approach to running anatomy is rooted in the understanding that efficient movement relies on a well-functioning musculoskeletal system. He integrates principles of biomechanics with practical rehabilitation strategies to help runners enhance their performance while reducing the risk of injury. Dicharry's work highlights the interconnectedness of the body's systems and the importance of optimizing each component for better running mechanics.

His methodology involves assessing the runner's movement patterns, identifying any dysfunctions, and implementing targeted interventions. By considering the entire kinetic chain—from the feet to the core—Dicharry provides a comprehensive framework for understanding how anatomical structures contribute to running efficiency.

The Role of Biomechanics

Biomechanics plays a crucial role in understanding how forces interact with the body during running. Dicharry emphasizes that proper alignment and movement patterns can prevent overuse injuries and enhance performance. Key concepts include:

- Force production and absorption

- Joint angles during different phases of the running gait
- Ground reaction forces and their impact on the body

By applying these biomechanical principles, runners can learn to adjust their form, making it more efficient and less prone to injury.

The Anatomy of Running

To fully grasp Jay Dicharry's anatomy for runners, it is essential to understand the key anatomical structures involved in running. This includes bones, muscles, tendons, and ligaments that work together to facilitate movement.

The primary bones involved are:

- Pelvis
- Femur
- Tibia
- Fibula
- Metatarsals

These bones provide the framework for muscle attachments and movement. Each muscle group plays a significant role in propulsion, stability, and shock absorption during running.

Key Muscles Involved in Running

The following muscles are particularly important for runners:

- **Quadriceps:** These muscles are crucial for knee extension and play a key role in propelling the body forward.
- **Hamstrings:** Responsible for knee flexion, they also assist in stabilizing the pelvis.
- **Calves (Gastrocnemius and Soleus):** Vital for push-off and absorbing impact during landing.
- **Glutes:** Essential for hip extension and maintaining pelvic stability.
- **Core Muscles:** Including the rectus abdominis and obliques, they help stabilize the torso during running.

Understanding the functions of these muscles can help runners focus on strengthening them, thereby improving overall running efficiency.

Biomechanics and Gait Analysis

Gait analysis is a vital component of understanding running biomechanics. By examining the way a runner moves, it is possible to identify inefficiencies or potential injury risks. Dicharry advocates for both static and dynamic assessments to get a full picture of a runner's biomechanics.

During gait analysis, several factors are evaluated:

- Stride length and frequency
- Foot strike pattern (heel, midfoot, forefoot)
- Knee and hip angles during different phases of the gait cycle

By analyzing these factors, runners can receive personalized feedback on their form, enabling them to make necessary adjustments for improvement.

Incorporating Technology

Advancements in technology have made it easier for runners to analyze their gait. Tools such as motion capture systems and pressure sensors can provide detailed insights into running mechanics. Dicharry encourages the use of technology to obtain objective data, which can guide training interventions and rehabilitation strategies.

Injury Prevention Strategies

Injury prevention is a primary focus of Jay Dicharry's work. Runners are often susceptible to overuse injuries due to repetitive stress on the body. By understanding anatomy and biomechanics, runners can implement strategies to minimize their risk.

Some effective injury prevention strategies include:

- Strength training to enhance muscle stability and endurance
- Flexibility exercises to maintain joint mobility
- Proper footwear selection to support the foot's biomechanics
- Gradual increase in training volume to avoid overtraining
- Regular cross-training to improve overall fitness without excessive impact

Integrating these strategies into a training regimen can lead to a healthier, more sustainable running practice.

Practical Applications for Runners

Understanding Jay Dicharry's anatomy for runners can significantly impact

training and performance. Runners can apply the knowledge gained from this framework in several practical ways:

- Regularly assess running form and make adjustments based on biomechanical principles.
- Incorporate strength and conditioning workouts focused on key muscle groups.
- Use technology for gait analysis to receive feedback on running mechanics.
- Implement a comprehensive warm-up and cool-down routine to enhance flexibility and reduce injury risk.

By taking a proactive approach to their anatomy and biomechanics, runners can enhance their performance and enjoy a longer, healthier running career.

Conclusion

Understanding the anatomy of running through the lens of Jay Dicharry's work provides valuable insights for runners looking to improve their performance and reduce injury risk. By emphasizing biomechanics, recognizing the importance of key muscles, and applying effective injury prevention strategies, runners can create a strong foundation for success. As the sport evolves, incorporating scientific principles into training regimens will continue to empower runners to reach their goals while maintaining their health.

Q: What is Jay Dicharry's main philosophy regarding running anatomy?

A: Jay Dicharry emphasizes that efficient running mechanics rely on a well-functioning musculoskeletal system, where understanding biomechanics is crucial for performance enhancement and injury prevention.

Q: How can gait analysis help runners?

A: Gait analysis helps runners identify inefficiencies in their running form, allowing for tailored adjustments to improve performance and reduce the risk of injury.

Q: What are some common injuries runners face?

A: Common injuries include plantar fasciitis, runner's knee, IT band syndrome, and Achilles tendinitis, often resulting from overuse and improper biomechanics.

Q: How important is strength training for runners?

A: Strength training is vital for runners as it enhances muscle stability, endurance, and overall performance while reducing the risk of injuries.

Q: What should runners consider when selecting footwear?

A: Runners should consider their foot type, gait mechanics, and the type of terrain they will be running on to choose appropriate footwear that supports their biomechanics.

Q: How can flexibility exercises benefit runners?

A: Flexibility exercises help maintain joint mobility, allowing for a greater range of motion during running and reducing the risk of injuries related to tight muscles.

Q: What role do the glutes play in running?

A: The glutes are essential for hip extension and maintaining pelvic stability, which is crucial for an efficient running stride and overall balance.

Q: How can runners gradually increase training volume safely?

A: Runners should follow the 10% rule, gradually increasing their weekly mileage by no more than 10% to prevent overuse injuries.

Q: Why is cross-training important for runners?

A: Cross-training improves overall fitness and endurance without the repetitive impact of running, helping to prevent injuries and promote recovery.

Q: What are the benefits of a comprehensive warm-up and cool-down routine?

A: A proper warm-up prepares the muscles for activity, while a cool-down helps with recovery, flexibility, and reducing muscle soreness after a run.

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jay dicharry anatomy for runners: *Anatomy for Runners* Jay Dicharry, 2012-12-12 Running has become more and more popular in recent years, with thousands of people entering marathons, buying new running shoes with the latest technology, and going for a daily jog, whether on the track or on a treadmill. Unfortunately, with running comes injuries, as a result of wrong information and improper training. Author Jay Dicharry was tired of getting the same treatments from doctors that didn't heal his joint and muscle pain from running, so he decided to combine different fields of clinical care, biomechanical analysis, and coaching to help you avoid common injuries and become the best runner you can be. Along with clear and thorough explanations of how running influences the body, and how the body influences your running, this book answers many of the common questions that athletes have: Do runners need to stretch? What is the best way to run? What causes injuries? Which shoes are best for running? Is running barefoot beneficial? The mobility and stability tests will assess your form, and the corrective exercises, along with step-by-step photos, will improve your core and overall performance, so that you can train and run with confidence, knowing how to avoid injuries!

jay dicharry anatomy for runners: *Running Rewired* Jay Dicharry, 2017-12-13 In *Running Rewired*, America's leading endurance sports physical therapist and coach shares a program for runners to become stronger, faster, and more durable. Jay Dicharry distills cutting-edge biomechanical research into 15 workouts any runner can slot into their training program to begin seeing real results in about 6 weeks. For better or worse, your body drives your running form. *Running Rewired* will show you how to shed old injuries, mobility problems, weaknesses and imbalances and rewire your body-brain movement patterns. You'll rebuild your movement and transform your running within one season. Through his work with athletes at REP Lab and top university sports performance clinics, Dicharry has found that strength training alone is inadequate for runners. To develop the four essential movement skills required for faster, safer running, runners must practice better movement as they build strength. In *Running Rewired*, you'll use 11 self-tests for joint mobility, posture stability, rotation, and alignment 83 exercises to fix blocks, move with precision, build strength, and improve power 15 rewire workouts to amplify any training plan from 5K to ultramarathon Dicharry's *Running Rewired* combines the best of real-world coaching and a physical therapy approach to strength and mobility for better running. You'll find your personal best running form and become a faster, more durable runner.

jay dicharry anatomy for runners: *Running Rewired* Jay Dicharry, 2024-04-30 For better or worse, your body drives your running form. *Running Rewired* will show you how to shed old injuries, mobility problems, weaknesses, and imbalances and rewire your body-brain movement patterns. You'll rebuild your dynamics and transform your running within one season. The rebuilding process targets the four essential skills required for faster, safer running. Runners must practice quality movement as they build strength for their sport --

jay dicharry anatomy for runners: *Unbreakable Runner* T.J. Murphy, MacKenzie, 2014-09-22 A New York Times Best Seller! Men's Journal Health Book of the Year In *Unbreakable Runner*, CrossFit Endurance founder Brian MacKenzie and journalist T.J. Murphy examine long-held beliefs about how to train, tearing down those traditions to reveal new principles for a lifetime of healthy, powerful running. *Unbreakable Runner* challenges conventional training tenets such as high mileage and high-carb diets to show how reduced mileage and high-intensity training can make runners stronger, more durable athletes and prepare them for races of any distance. Distance runners who want to invigorate their training, solve injuries, or break through a performance plateau can gain power and resilience from MacKenzie's effective blend of run training and whole-body strength and conditioning. CrossFitters who want to conquer a marathon, half-marathon, or ultramarathon will find endurance training instruction with 8- to 12-week programs that combine CrossFit™ workouts

with run-specific sessions. Unbreakable Runner includes CrossFit-based training programs for race distances from 5K to ultramarathon for beginner, intermediate, and advanced runners. Build a better running body with this CrossFit Endurance-based approach to running training.

jay dicharry anatomy for runners: *Running Smart* Mariska van Sprundel, 2021-09-14 A science writer and recreational runner explores the science behind popularly held beliefs about shoes, injuries, nutrition, runner's high, and more. Conventional wisdom about running is passed down like folklore (and sometimes contradicts itself): the right kind of shoe prevents injury--or running barefoot, like our prehistoric ancestors, is best; eat a high-fat diet--and also carbo load before a race; running cures depression--but it might be addictive; running can save your life--although it can also destroy your knee cartilage. Often it's hard to know what to believe. In *Running Smart*, Mariska van Sprundel, a science journalist and recreational runner who has had her fair share of injuries, sets out to explore the science behind such claims. In her quest, van Sprundel reviews the latest developments in sports science, consults with a variety of experts, and visits a sports lab to have her running technique analyzed. She learns, among other things, that according to evolutionary biology, humans are perfectly adapted to running long distances (even if our hunter-gatherer forebears suffered plenty of injuries); that running sets off a shockwave that spreads from foot to head, which may or may not be absorbed by cushioned shoes; and that a good sports bra controls the ping pong-like movements of a female runner's breasts. She explains how the body burns fuel, the best foods to eat before and after running, and what might cause runner's high. More than fifty million Americans are runners (and a slight majority of them are women). This engaging and enlightening book will help both novice and seasoned runners run their smartest.

jay dicharry anatomy for runners: *Run for Your Life* Mark Cucuzzella, MD, 2019-04-30 A straightforward, easy-to-follow look at the anatomy, biomechanics, and nutrition of running. Dr. Cucuzzella aims to improve the fitness and well-being of all, from the uninitiated to beginners to veterans who still have new tricks to learn (Amby Burfoot, Boston Marathon winner, writer at large for *Runner's World* magazine, and author of *The Runner's Guide to the Meaning of Life*). Despite our natural ability and our human need to run, each year more than half of all runners suffer injuries. Pain and discouragement inevitably follow. Cucuzzella's book outlines the proven, practical techniques to avoid injury and reach the goal of personal fitness and overall health. With clear drawings and black-and-white photographs, the book provides illustrated exercises designed to teach healthy running, along with simple progressions and a running schedule that shows the reader how to tailor their training regimen to their individual needs and abilities.

jay dicharry anatomy for runners: *Runner's World Your Best Stride* Jonathan Beverly, Editors of *Runner's World* Maga, 2017-06-13 Run the Way You Were Born to Run Every runner wants a smooth, light, powerful, and resilient stride. But there isn't one ideal form all runners should try to emulate. Instead, research and experience show that people can run effectively in a wide variety of patterns with some universal elements. In lively, accessible prose, author Jonathan Beverly details his search for common ground among physical therapists, podiatrists, biomechanics researchers, and coaches, and reveals how individual runners can apply those principles and improve their performance, avoid injury, and enhance their enjoyment on the run. With specific, illustrated exercises that show how to counteract tight muscles from excessive sitting, improve limited arm mobility from hunching over electronic devices, strengthen your feet for better balance, and improve speed by lengthening your stride, *Runner's World Your Best Stride* is an approachable guide to human movement and a practical tool for improved running performance.

jay dicharry anatomy for runners: *Anatomy for Runners* Jay Dicharry, 2012-08-01

jay dicharry anatomy for runners: *The Runner's World Big Book of Running for Beginners* Jennifer Van Allen, Bart Yasso, Amby Burfoot, Pamela Nisevich Bede, 2014-04-01 Every day, people are reaching their get-up-or-give-up moments and resolving to change. And they're realizing that running is the simplest, cheapest, and most effective way to lose weight, gain confidence, and relieve stress. For newcomers, the obstacles are fierce. There are fears of pain and embarrassment. There are schedules jam-packed with stressful jobs, long commutes, endless

meetings, and sticky-fingered toddlers. The Runner's World Big Book of Running for Beginners provides all the information neophytes need to take their first steps, as well as inspiration for staying motivated. The book presents readers with tips for smart nutrition and injury prevention and includes realistic training plans that enable beginning runners to achieve gradual progress (by gearing up for a 30-minute run, a 5-K, or even a 5-miler). Above all, it will show newbies just how fun and rewarding the sport can be, thanks to the help of several real runner testimonials.

jay dicharry anatomy for runners: Rebuilding Milo Aaron Horschig, Kevin Sonthana, 2021-01-19 Every athlete who spends time in the weight room eventually deals with pain/injury that leaves them frustrated and unable to reach their highest potential. Every athlete ought to have the ability to take the first steps at addressing these minor injuries. They shouldn't have to wait weeks for a doctor's appointment, only to be prescribed pain medications and told to "take two weeks off lifting" or, even worse, to "stop lifting so heavy." Dr. Aaron Horschig knows your pain and frustration. He's been there. For over a decade, Dr. Horschig has been a competitive weightlifter, and he understands how discouraging it is to tweak your back three weeks out from a huge weightlifting competition, to have knee pain limit your ability to squat heavy for weeks, and to suffer from chronic shoulder issues that keep you from reaching your goals. Rebuilding Milo is the culmination of Dr. Horschig's life's work as a sports physical therapist, certified strength and conditioning specialist, and Olympic weightlifting coach. It contains all of the knowledge he has amassed over the past decade while helping some of the best athletes in the world. Now he wants to share that knowledge with you. This book, designed by a strength athlete for anyone who spends time in the weight room, is the solution to your struggles with injury and pain. It walks you through simple tests and screens to uncover the movement problem at the root of your pain. After discovering the cause of your injury, you'll be able to create an individualized rehab program as laid out in this book. Finally, you'll be on the right path to eliminate your pain and return to the activities you love.

jay dicharry anatomy for runners: SpeedRunner Pete Magill, 2018-05-01 The speed you need to outspurt the competition, juke your opponent on the field or court, set personal records, and achieve peak performance. In SpeedRunner, celebrated running coach Pete Magill reveals his 4-week training plan to make any athlete into a faster runner, no matter the sport, age, gender, experience, or goals. In every sport that includes running, the difference between the best and the rest is tenths of a second. From team sports like football, soccer, basketball, and baseball to individual sports like distance running, track, and triathlon, faster leg speed makes champions. By targeting the neuromuscular system and strengthening muscle and connective tissue, Magill's SpeedRunner program builds speed, strength, endurance, agility, coordination, balance, proprioception, and explosive power so athletes can excel. Developed over decades of experience coaching athletes of all ages from short sprints to the marathon, Magill's SpeedRunner program is your key to speed. Magill has led his club to two dozen US National Masters Championships in road running and cross country. As a 5-time USA Masters Cross Country Runner of the Year and multiple American and world age-group record holder himself, Magill is proof that his training methods are effective. Along with its core 4-week program, SpeedRunner offers speed only training, once-a-week speed work for distance runners, and single-day sessions focused on injury prevention and whole-body strength. SpeedRunner will make you faster, stronger, quicker—no matter your sport!

jay dicharry anatomy for runners: Correr con eficacia (Color) Jay Dicharry, 2020-02-26 Para bien o para mal, tu cuerpo determina tu forma de correr. Viejas lesiones, problemas de movilidad, el cansancio y el desgaste se manifiestan en el modo en que te mueves al correr. El programa Correr con eficacia aborda tales aspectos, te vuelve más fuerte y te entrena para correr mejor los kilómetros que tienes por delante. El autor, el fisiólogo del deporte y especialista en biomecánica Jay Dicharry adaptará tu cuerpo y cerebro para que corras mejor. En el libro se presentan 15 sesiones de entrenamiento para ponerse en forma para el inicio de la temporada, adquirir precisión y mejorar tu rendimiento y forma de correr. Jay es, cómo os lo diría, el mejor. Su programa me preparó para el éxito en los Juegos Olímpicos de Río. Kate Grace, mediodondista

olímpica Jay Dicharry integra la ciencia del movimiento del cuerpo con sus amplios conocimientos sobre los corredores y sus problemas para mejorar tu mecánica y hacer de ti un corredor mejor. Jonathan Beverly, autor de *Rung strong, stay hungry* y de *Your best stride*. Con el plan metódico de Jay pasé de no poder correr a establecer una marca personal de maratón en el Campeonato del Mundo de Ironman. Linsey Corbin, pentacampeona de Ironman

jay dicharry anatomy for runners: Entfesselt laufen Jay Dicharry, 2020-05-04 Ihre körperliche Fitness ist die Grundlage Ihrer Laufform. Stabilität, körperliche Stärke und Mobilität sind essenzielle Voraussetzungen für Höchstleistungen auf der Laufstrecke. In diesem Buch verarbeitet der Autor seine langjährige Coaching-Erfahrung mit Laufsportathleten und verknüpft sie mit hochmodernen biomechanischen Forschungsergebnissen. In 15 speziell entwickelten Workouts beschreibt Jay Dicharry, wie Sie alte Verletzungen, Mobilitätsprobleme, Haltungsschwächen und Unausgeglichenheiten in den Griff bekommen und Ihre Bewegungsmuster sowohl auf kognitiver als auch körperlicher Ebene neu verkabeln können. Um die grundlegenden Bewegungsfähigkeiten zu entwickeln, die für ein schnelleres und sichereres Laufen notwendig sind, müssen Sie als Sportler nicht nur kräftiger werden, sondern vor allem auch Ihre Bewegungsabläufe besser kontrollieren. Durch Selbsttests und spezielle Übungen, die sich auf diese konkreten Fähigkeiten konzentrieren, wird Ihr Körper beginnen, Unausgeglichenheiten zu korrigieren und sich neue, verbesserte Gewohnheiten anzueignen. Selbsttests, mit denen Sie Ihre Gelenkmobilität, die Stabilität Ihrer Haltung, Drehbewegungen und Ausrichtung überprüfen können. 83 Übungen, um Blockaden in den Griff zu bekommen, präzisiere Bewegungen auszuführen, Kraft aufzubauen und Ihre Stärke zu verbessern. 15 gezielt zusammengestellte Entfesselt-Laufen-Workouts, um dauerhaft effektiv an Stärke, Stabilität und Schnelligkeit zu gewinnen. Jay Dicharrys Entfesselt-Laufen-Programm ist eine in der Praxis erfolgreich erprobte Methode, mit der sich Athleten optimal auf die beim Laufen entstehenden Belastungen und Herausforderungen vorbereiten können. Darüber hinaus gibt dieses Buch aber auch interessierten Sportlern aus den Bereichen Athletik, Kraftsport, Crosstraining oder Klettern zahlreiche Übungen und wertvolle Tipps an die Hand, damit sie effektiver trainieren und nachhaltig ihre Leistung steigern können.

jay dicharry anatomy for runners: Courir léger - Light Feet Running Solarberg Séhel, 2015-03-19 Vous souhaitez progresser en optimisant votre technique de course ? Ce livre est pour vous. Courir léger propose une approche nouvelle — accessible et enthousiasmante — pour adopter une foulée plus fluide, plus naturelle, plus respectueuse du corps : la foulée médio-pied. Ce geste technique, inspiré des meilleurs coureurs d'endurance et validé par la biomécanique, tend à réduire les blessures, améliore l'efficacité et transforme radicalement les sensations de course. Pas besoin d'être un athlète de premier plan pour en bénéficier. À travers une approche théorique et pratique, avec des conseils concrets, des schémas clairs et un plan de transition progressif, Solarberg Séhel accompagne chaque coureur — débutant ou confirmé — vers une foulée plus légère, plus efficiente et moins traumatisante. Vous découvrirez : • Les éléments clés de la technique de course (posture, cadence, etc.) • Où et comment poser votre pied au sol • Comment impliquer activement le buste et les bras dans la foulée • Comment utiliser des chaînes musculaires plus longues • Comment aborder techniquement les descentes • Des conseils pour prévenir les douleurs aux mollets • Comment analyser votre foulée sur vidéo • Les exercices de musculation spécifiques • Les clés pour réussir sa transition Un guide de référence, recommandé par les kinés, plébiscité par les pratiquants. Ancien triathlète, Solarberg SÉHEL se passionne depuis plus de vingt-cinq ans pour la technique de la course à pied et de la natation. Auteur, formateur et conférencier, il a conseillé des centaines de coureurs et d'athlètes dans l'optimisation de leur foulée. À travers ses blogs, ses conférences et ateliers, il transmet une vision pragmatique et accessible du mouvement, fondée sur l'écoute du corps et le plaisir en guidant chacun vers son geste juste.

jay dicharry anatomy for runners: Musculoskeletal and Sports Medicine For The Primary Care Practitioner, Fourth Edition Richard B. Birrer, Francis G. O'Connor, Shawn F. Kane, 2016-01-06 Primary care practitioners are often the first medical professionals to see patients after an injury, making it critical for them to stay up to date on the latest developments in sports

medicine. Musculoskeletal and Sports Medicine for the Primary Care Practitioner contains the most current information on major topics in sports science and clinical medicine. It is a valuable resource for primary care physicians and allied health professionals who practice, teach, and hold specialty certifications in sports medicine and related fields. The book discusses key concepts related to the diagnosis, treatment, and prevention of sports injuries. This edition adds new sections on pro-inflammatory treatments, field-side acupuncture, and brief musculoskeletal ultrasound as well as a new chapter on wellness and video illustrations of important musculoskeletal maneuvers at www.crcpress.com/9781482220117. The book follows the Strength of Recommendation Taxonomy (SORT), which addresses the quality, quantity, and consistency of evidence. It recommends levels of patient-oriented evidence to assist physicians in their diagnoses. Also included is a link to videos that demonstrate important musculoskeletal maneuvers used in sports medicine. As exercise and sports move beyond the realm of leisurely activity to a necessary component of good health, this book has become an important resource for all those involved in sports medicine.

jay dicharry anatomy for runners: Alles wat je wilt weten over hardlopen Mariska van Sprundel, 2022-11-15 De hardloopwereld staat bol van de overgeleverde wijsheden over schoenen, voeding, blessures en gezondheid. Goede schoenen zouden pijntjes voorkomen en marathons zijn ongezond voor het hart. Maar wat is feit en wat is fictie? Wetenschapsjournalist Mariska van Sprundel is na haar zoveelste blessure vastberaden de wetenschap achter hardlopen te ontrafelen. In Alles wat je wilt weten over hardlopen onderzoekt Van Sprundel de wisselwerking tussen hardlopen en ons lichaam aan de hand van de nieuwste ontwikkelingen uit de sportwetenschap. Haar persoonlijke zoektocht leidt langs internationale universiteiten, bewegingslabs, hardloopwinkels en DNA-tests. Haar bevindingen leiden tot inzichten waar elke beginnende of gevorderde loper mee uit de voeten kan. In deze nieuwe editie gaat Mariska van Sprundel uitgebreid in op herstelstrategieën, zijn de nieuwste inzichten rond schoenen verwerkt en neemt ze technologie om overbelasting te meten onder de loep. Het fascinerende van dit boek is dat je leest over werkelijk alles rond het hardlopen dat ooit wetenschappelijk onderzocht is, maar nog fascinerender vind ik dat blijkt dat je gewoon zelf moet gaan lopen om uit te vinden wat voor jou waar is. – Dolf Jansen Mariska van Sprundel, die al jaren voor Runner's World schrijft, hield alle loperswaarheden nu eens goed tegen het licht. Wat is er waar van alles wat lopers denken te weten? Met wetenschappers & experts zocht ze het uit. Een ontzettend leerzaam boek voor elke loper. – Olivier Heimel, hoofdredacteur Runner's World

jay dicharry anatomy for runners: La Bible du squat Aaron Horschig, Kevin Sonthana, Travis Neff, David Pellier, 2020-11-20 Le guide ultime pour maîtriser le squat et trouver votre force optimale Aaron Horschig a consacré sa carrière à aider les athlètes non seulement à réduire douleurs et blessures liées à l'entraînement, mais aussi à exprimer leur plein potentiel. Après avoir développé des techniques uniques et faciles à mettre en action pour s'entraîner avec les meilleurs mouvements, le Dr Horschig partage dans ce livre ses connaissances essentielles. Traduit pour la première fois en français, La Bible du squat vous permettra de : - vous entraîner en toute sécurité ; - cibler et traiter correctement vos douleurs et blessures ; - optimiser votre technique de squat ; - exploiter votre puissance optimale. Changez votre approche de l'entraînement et découvrez votre incroyable potentiel !

jay dicharry anatomy for runners: Die Squat-Bibel Aaron Horschig, 2018-06-09 Die Kniebeuge ist die wichtigste Übung im Kraft- und Athletiktraining und wenn es darum geht, die Gelenkmobilität in Hüfte und Knie sowie die Körperhaltung zu verbessern. Dabei sind zahlreiche Muskeln und Gelenke gleichzeitig im Einsatz: von den Oberschenkeln über das Gesäß und den Rücken bis zu Schultern und Armen. Wirft man jedoch einen Blick in Fitnessstudios, sieht man viele Trainierende – egal, ob erfahren oder unerfahren –, die die Kniebeuge selbst ohne Gewicht technisch mangelhaft ausführen. Der ehemalige Profigewichtheber Dr. Aaron Horschig, der das Bewegungsmuster der Kniebeuge als Olympiateilnehmer im Gewichtheben perfektioniert hat, zeigt, wie jeder durch kleine Veränderungen in der Körperhaltung schmerzfrei, sicher und technisch perfekt trainieren und maximale Leistung erbringen kann. Bildfolgen zeigen, wie die perfekte

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