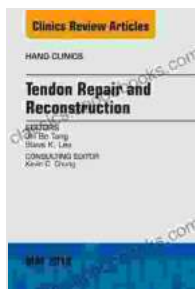


Tendon Repair and Reconstruction: Unraveling the Secrets of Hand Movement

Tendons, the resilient yet delicate cords that connect muscles to bones, play a pivotal role in our ability to move and manipulate the world around us. In the intricate mechanics of the hand, tendons serve as the essential conduits for transmitting muscle force to the bones, enabling us to perform a vast repertoire of motions, from delicate finger movements to powerful grasps.

Anatomy of a Tendon

Each tendon is a specialized connective tissue composed primarily of collagen fibers, arranged in a parallel configuration to provide exceptional tensile strength. This fibrous structure allows tendons to withstand the substantial forces generated by muscle contractions. Tendons are encased in a sheath of connective tissue called the tenosynovium, which lubricates and protects the tendon as it glides through its path.

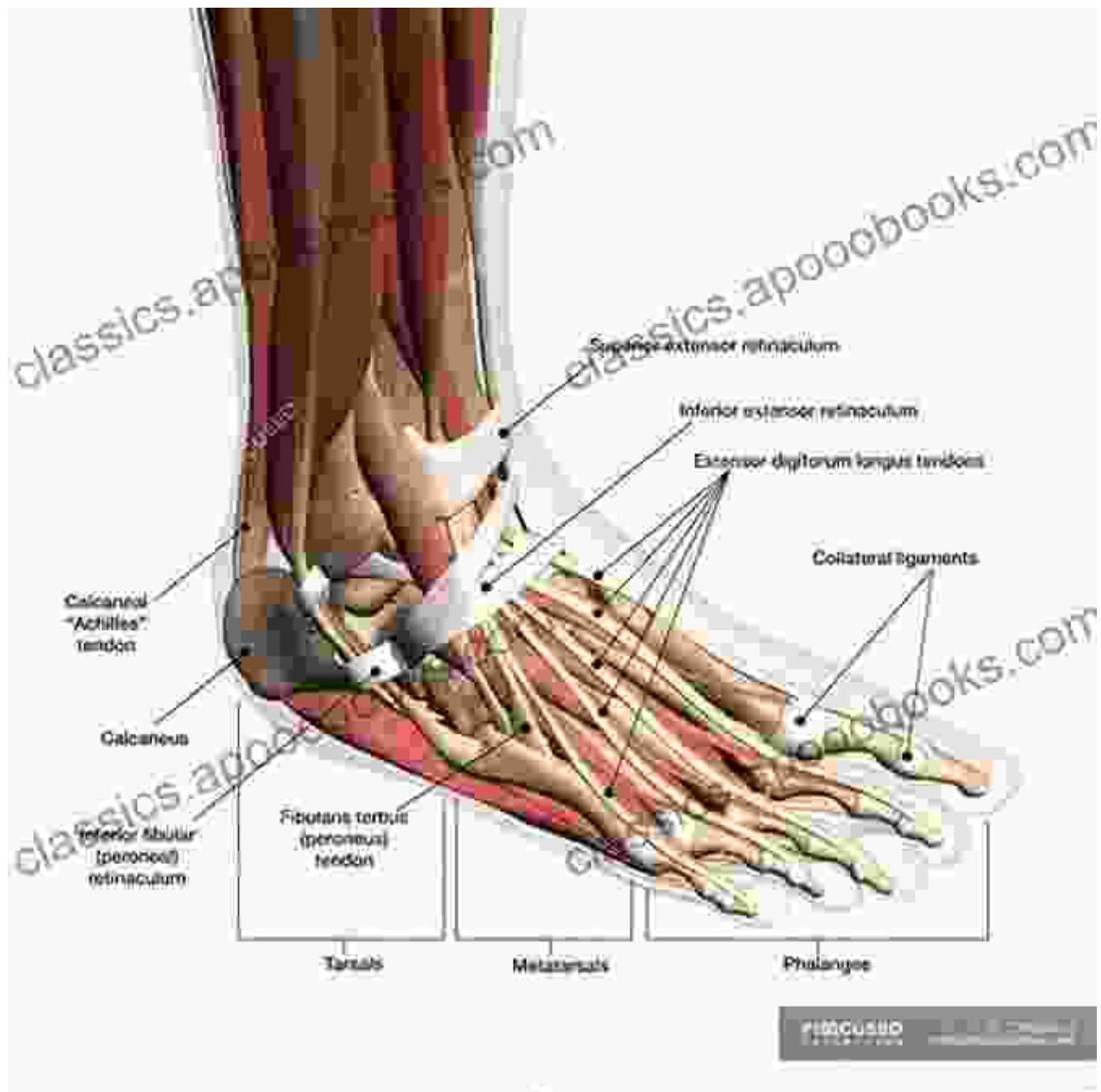


Tendon Repair and Reconstruction, An Issue of Hand Clinics (The Clinics: Orthopedics Book 29) by James Astor

★★★★★ 5 out of 5

Language : English
File size : 5342 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 315 pages





Functions of Tendons

The primary function of tendons is to transmit the force of muscle contractions to bones, enabling us to move our bodies. In the hand, tendons play a crucial role in:

- Finger flexion and extension

- Thumb opposition
- Wrist flexion and extension
- Supination and pronation of the forearm

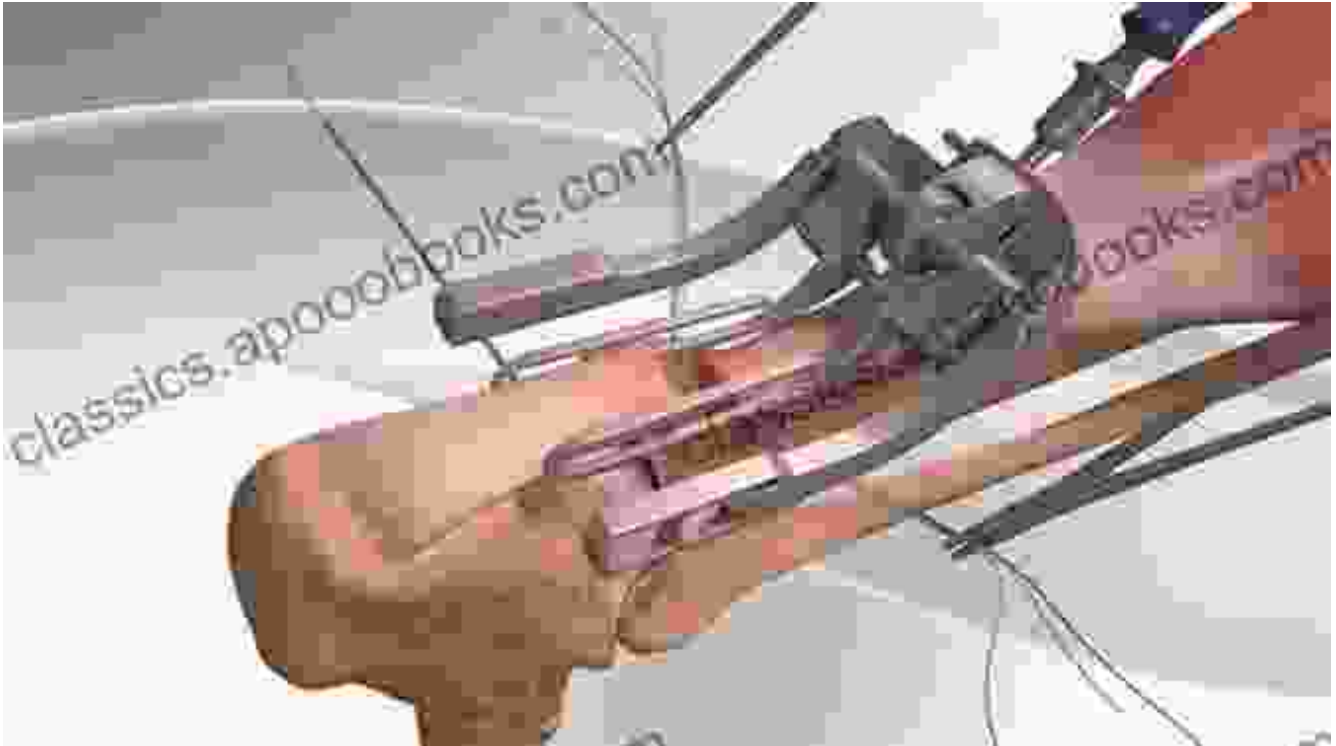
Common Tendon Injuries

Due to the repetitive and demanding nature of hand movements, tendons are prone to various types of injuries, including:

- **Tendonitis:** Inflammation of a tendon, often caused by overuse or repetitive strain.
- **Tendon rupture:** A complete or partial tear of a tendon, usually occurring due to sudden forceful exertion.
- **Tenosynovitis:** Inflammation of the tenosynovium, leading to pain and stiffness.

Tendon Repair and Reconstruction

When tendons are injured, surgical intervention may be necessary to restore function and prevent further damage. Tendon repair involves suturing the torn ends of the tendon together, while tendon reconstruction entails using other tissues to replace or reinforce a damaged tendon.



Tendon Repair Surgery

Tendon repair and reconstruction procedures are complex and require specialized surgical expertise. Hand surgeons are trained to perform these surgeries with precision and care, ensuring optimal outcomes for patients.

The Hand Clinics: Center of Excellence for Tendon Surgery

The Hand Clinics, a renowned center of excellence in hand surgery, offers comprehensive care for tendon injuries and disFree Downloads. Our team of highly skilled and experienced hand surgeons utilizes cutting-edge techniques and advanced technology to provide personalized treatment plans for each patient.

At The Hand Clinics, we understand the profound impact of tendon injuries on hand function and quality of life. We are committed to providing

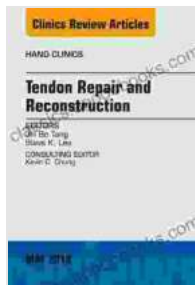
compassionate and evidence-based care to restore function, alleviate pain, and empower our patients to regain their active lifestyles.

Why Choose The Hand Clinics?

- **Board-Certified Hand Surgeons:** Our surgeons are certified by the American Board of Orthopaedic Surgery and specialize exclusively in hand surgery.
- **Advanced Surgical Techniques:** We employ the latest surgical techniques and technologies, including minimally invasive surgery and arthroscopic surgery.
- **Comprehensive Care:** We offer a full spectrum of services, from diagnosis and treatment planning to post-operative rehabilitation.
- **Patient-Centered Approach:** We prioritize patient satisfaction and work closely with our patients to develop individualized treatment plans.
- **Exceptional Outcomes:** Our surgeons have a proven track record of successful tendon repair and reconstruction procedures, restoring function and improving hand health.

Tendons are the unsung heroes of hand movement, enabling us to perform countless tasks with precision and dexterity. When tendons are injured, it is essential to seek timely medical attention to diagnose and treat the condition effectively. The Hand Clinics offer comprehensive tendon repair and reconstruction services, providing patients with the opportunity to regain full function and enjoy an active, pain-free life.

To learn more about tendon injuries and treatment options, or to schedule a consultation with our team of hand surgeons, please visit our website or call us at [phone number].



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