

PALMAR IN ANATOMY

PALMAR IN ANATOMY IS A TERM THAT REFERS TO THE ASPECT OF THE HAND RELATED TO THE PALM. UNDERSTANDING THE PALMAR REGION IS CRUCIAL FOR VARIOUS FIELDS SUCH AS MEDICINE, PHYSIOTHERAPY, AND ANATOMY EDUCATION. THIS ARTICLE DELVES INTO THE ANATOMICAL STRUCTURES OF THE PALMAR REGION, INCLUDING ITS BONES, MUSCLES, NERVES, AND VASCULAR SUPPLY. WE WILL ALSO EXPLORE COMMON CONDITIONS AFFECTING THIS AREA AND THEIR CLINICAL SIGNIFICANCE. BY THE END OF THIS ARTICLE, READERS WILL HAVE A COMPREHENSIVE UNDERSTANDING OF THE PALMAR ASPECT OF ANATOMY.

- INTRODUCTION TO PALMAR ANATOMY
- BONE STRUCTURE OF THE PALMAR REGION
- MUSCLE ANATOMY OF THE PALM
- NERVOUS SUPPLY TO THE PALMAR AREA
- VASCULARIZATION OF THE PALMAR REGION
- COMMON CONDITIONS AFFECTING THE PALM
- CLINICAL RELEVANCE OF PALMAR ANATOMY
- CONCLUSION

INTRODUCTION TO PALMAR ANATOMY

THE PALMAR REGION REFERS SPECIFICALLY TO THE ANTERIOR ASPECT OF THE HAND, WHICH PLAYS A VITAL ROLE IN HAND FUNCTION, DEXTERITY, AND GRIP. THIS AREA IS COMPOSED OF VARIOUS ANATOMICAL STRUCTURES THAT CONTRIBUTE TO ITS FUNCTIONALITY. UNDERSTANDING THE PALMAR ANATOMY IS ESSENTIAL FOR HEALTHCARE PROFESSIONALS, PARTICULARLY THOSE SPECIALIZING IN ORTHOPEDICS, SURGERY, AND REHABILITATION. MOREOVER, THE INTRICATE DESIGN OF THE STRUCTURES WITHIN THE PALM ALLOWS FOR BOTH STRENGTH AND PRECISION IN MOVEMENTS. THIS SECTION PROVIDES AN OVERVIEW OF THE KEY COMPONENTS THAT CONSTITUTE THE PALMAR REGION OF THE HAND.

BONE STRUCTURE OF THE PALMAR REGION

THE PALMAR ASPECT OF THE HAND INCLUDES SEVERAL BONES THAT FORM THE SKELETAL FRAMEWORK. THE BONES OF THE HAND CAN BE DIVIDED INTO THREE MAIN GROUPS: THE CARPALS, METACARPALS, AND PHALANGES.

CARPALS

THE CARPAL BONES ARE EIGHT SMALL BONES FORMING THE WRIST AND THE PROXIMAL PART OF THE PALM. THEY ARE ARRANGED IN TWO ROWS: PROXIMAL AND DISTAL. THE PROXIMAL ROW INCLUDES THE SCAPHOID, LUNATE, TRIQUETRUM, AND PISIFORM BONES, WHILE THE DISTAL ROW COMPRISES THE TRAPEZIUM, TRAPEZOID, CAPITATE, AND HAMATE BONES. EACH OF THESE BONES HAS A SPECIFIC FUNCTION AND ARTICULATION THAT CONTRIBUTES TO THE OVERALL MOVEMENT OF THE HAND.

METACARPALS

THERE ARE FIVE METACARPAL BONES, ONE FOR EACH DIGIT. THESE LONG BONES CONNECT THE CARPAL BONES TO THE PHALANGES.

EACH METACARPAL HAS A BASE, SHAFT, AND HEAD. THE FIRST METACARPAL BONE, ASSOCIATED WITH THE THUMB, IS UNIQUE DUE TO ITS OPPOSABILITY, ALLOWING A WIDE RANGE OF MOTION NECESSARY FOR GRIPPING AND PINCHING.

PHALANGES

THE FINGERS CONTAIN A TOTAL OF FOURTEEN PHALANGES: THREE FOR EACH FINGER AND TWO FOR THE THUMB. THE PHALANGES ARE CATEGORIZED INTO PROXIMAL, MIDDLE, AND DISTAL PHALANGES. THE STRUCTURE OF THESE BONES SUPPORTS VARIOUS MOVEMENTS SUCH AS FLEXION, EXTENSION, AND OPPOSITION.

MUSCLE ANATOMY OF THE PALM

THE PALM IS HOME TO SEVERAL IMPORTANT MUSCLES THAT FACILITATE MOVEMENT AND GRIP. THESE MUSCLES CAN BE DIVIDED INTO INTRINSIC AND EXTRINSIC GROUPS.

INTRINSIC MUSCLES

INTRINSIC MUSCLES ORIGINATE AND INSERT WITHIN THE HAND ITSELF. THEY ARE CRITICAL FOR FINE MOTOR SKILLS AND INCLUDE:

- **THENAR MUSCLES:** RESPONSIBLE FOR THUMB MOVEMENT, INCLUDING ABDUCTION, OPPOSITION, AND FLEXION.
- **HYPOTHENAR MUSCLES:** CONTROL THE MOVEMENTS OF THE LITTLE FINGER.
- **LUMBRICALS:** ASSIST IN FLEXING THE METACARPOPHALANGEAL JOINTS WHILE EXTENDING THE INTERPHALANGEAL JOINTS.
- **INTEROSSEI:** LOCATED BETWEEN THE METACARPALS, THESE MUSCLES AID IN ABDUCTION AND ADDUCTION OF THE FINGERS.

EXTRINSIC MUSCLES

THE EXTRINSIC MUSCLES ORIGINATE FROM THE FOREARM AND EXTEND INTO THE HAND VIA TENDONS. THEY ARE PRIMARILY RESPONSIBLE FOR GROSS MOTOR MOVEMENTS OF THE HAND. MAJOR EXTRINSIC MUSCLE GROUPS INCLUDE:

- **FLEXOR MUSCLES:** FLEX THE FINGERS AND WRIST.
- **EXTENSOR MUSCLES:** EXTEND THE FINGERS AND WRIST.

NERVOUS SUPPLY TO THE PALMAR AREA

THE PALMAR REGION RECEIVES ITS NERVE SUPPLY FROM THE MEDIAN, ULNAR, AND RADIAL NERVES. EACH OF THESE NERVES PLAYS A DISTINCT ROLE IN SENSORY AND MOTOR FUNCTIONS.

MEDIAN NERVE

THE MEDIAN NERVE INNERVATES THE THENAR MUSCLES AND THE LATERAL TWO LUMBRICALS. IT PROVIDES SENSATION TO THE PALMAR SIDE OF THE THUMB, INDEX FINGER, MIDDLE FINGER, AND HALF OF THE RING FINGER. COMPRESSION OF THIS NERVE CAN LEAD TO CONDITIONS LIKE CARPAL TUNNEL SYNDROME.

ULNAR NERVE

THE ULNAR NERVE INNERVATES THE MAJORITY OF THE INTRINSIC MUSCLES OF THE HAND, INCLUDING THE HYPOTHENAR MUSCLES AND THE MEDIAL TWO LUMBRICALS. IT SUPPLIES SENSATION TO THE LITTLE FINGER AND THE ULNAR SIDE OF THE RING FINGER.

RADIAL NERVE

THE RADIAL NERVE PRIMARILY SUPPLIES THE EXTENSOR MUSCLES OF THE FOREARM AND DOES NOT PROVIDE SIGNIFICANT MOTOR INNERVATION TO THE PALM ITSELF. HOWEVER, IT IS CRUCIAL FOR WRIST AND FINGER EXTENSION.

VASCULARIZATION OF THE PALMAR REGION

THE BLOOD SUPPLY TO THE PALMAR AREA IS PRIMARILY PROVIDED BY THE RADIAL AND ULNAR ARTERIES, BOTH OF WHICH ORIGINATE FROM THE BRACHIAL ARTERY IN THE FOREARM.

RADIAL ARTERY

THE RADIAL ARTERY RUNS ALONG THE RADIAL SIDE OF THE WRIST AND PROVIDES BLOOD TO THE THUMB AND LATERAL ASPECT OF THE PALM. IT CONTRIBUTES TO THE FORMATION OF THE SUPERFICIAL PALMAR ARCH.

ULNAR ARTERY

THE ULNAR ARTERY TRAVELS ALONG THE ULNAR SIDE OF THE WRIST AND SUPPLIES THE MEDIAL ASPECT OF THE PALM. IT IS RESPONSIBLE FOR FORMING THE DEEP AND SUPERFICIAL PALMAR ARCHES, WHICH ENSURE AN ADEQUATE BLOOD SUPPLY TO THE FINGERS.

COMMON CONDITIONS AFFECTING THE PALM

SEVERAL CONDITIONS CAN AFFECT THE PALMAR REGION, LEADING TO PAIN, DYSFUNCTION, AND DECREASED MOBILITY. AWARENESS OF THESE CONDITIONS IS ESSENTIAL FOR DIAGNOSIS AND TREATMENT.

CARPAL TUNNEL SYNDROME

THIS CONDITION OCCURS WHEN THE MEDIAN NERVE IS COMPRESSED AT THE WRIST, LEADING TO SYMPTOMS LIKE NUMBNESS, TINGLING, AND WEAKNESS IN THE HAND.

DUPUYTREN'S CONTRACTURE

DUPUYTREN'S CONTRACTURE IS A CONDITION CHARACTERIZED BY THE THICKENING OF THE PALMAR FASCIA, RESULTING IN THE BENDING OF ONE OR MORE FINGERS TOWARDS THE PALM.

TRIGGER FINGER

THIS CONDITION INVOLVES THE LOCKING OR CATCHING OF A FINGER IN A BENT POSITION DUE TO INFLAMMATION OF THE TENDONS THAT FLEX THE FINGERS.

CLINICAL RELEVANCE OF PALMAR ANATOMY

UNDERSTANDING PALMAR ANATOMY IS CRUCIAL FOR VARIOUS HEALTHCARE PROFESSIONALS. SURGEONS NEED DETAILED KNOWLEDGE FOR PROCEDURES SUCH AS CARPAL TUNNEL RELEASE OR TENDON REPAIRS. PHYSICAL THERAPISTS OFTEN UTILIZE THIS KNOWLEDGE TO DEVELOP REHABILITATION PROGRAMS FOR PATIENTS RECOVERING FROM HAND INJURIES. ADDITIONALLY, ACCURATE ASSESSMENT OF HAND INJURIES OFTEN RELIES ON A THOROUGH UNDERSTANDING OF THE PALMAR STRUCTURES.

CONCLUSION

THE PALMAR REGION OF THE HAND IS COMPLEX AND INTEGRAL TO HAND FUNCTION. A COMPREHENSIVE UNDERSTANDING OF ITS ANATOMY, INCLUDING THE BONES, MUSCLES, NERVE SUPPLY, AND BLOOD VESSELS, IS ESSENTIAL FOR DIAGNOSING AND TREATING HAND-RELATED CONDITIONS. AS THE PALM PLAYS A CRITICAL ROLE IN DAILY ACTIVITIES AND OVERALL QUALITY OF LIFE, CONTINUED STUDY AND AWARENESS OF ITS ANATOMY REMAIN PARAMOUNT IN MEDICAL PRACTICE.

Q: WHAT IS THE PALMAR SURFACE OF THE HAND?

A: THE PALMAR SURFACE OF THE HAND, ALSO KNOWN AS THE PALM, IS THE ANTERIOR ASPECT WHERE THE FINGERS AND THUMB ARE LOCATED. IT CONTAINS VARIOUS ANATOMICAL STRUCTURES CRUCIAL FOR GRIPPING AND MANIPULATING OBJECTS.

Q: WHAT BONES ARE FOUND IN THE PALMAR REGION?

A: THE PALMAR REGION CONTAINS THE CARPAL BONES, METACARPALS, AND PHALANGES, WHICH TOGETHER FORM THE SKELETAL STRUCTURE NECESSARY FOR HAND FUNCTION.

Q: WHICH MUSCLES ARE RESPONSIBLE FOR THUMB MOVEMENT IN THE PALM?

A: THE THENAR MUSCLES ARE RESPONSIBLE FOR THUMB MOVEMENT IN THE PALM, ALLOWING FOR ACTIONS SUCH AS OPPOSITION, ABDUCTION, AND FLEXION.

Q: WHAT NERVES SUPPLY THE PALM?

A: THE PALM IS PRIMARILY SUPPLIED BY THE MEDIAN NERVE, ULNAR NERVE, AND RADIAL NERVE, EACH PROVIDING DIFFERENT SENSORY AND MOTOR FUNCTIONS.

Q: WHAT IS CARPAL TUNNEL SYNDROME?

A: CARPAL TUNNEL SYNDROME IS A CONDITION CAUSED BY COMPRESSION OF THE MEDIAN NERVE AT THE WRIST, LEADING TO SYMPTOMS SUCH AS PAIN, NUMBNESS, AND WEAKNESS IN THE HAND.

Q: HOW DOES THE VASCULARIZATION OF THE PALM OCCUR?

A: THE VASCULARIZATION OF THE PALM IS PROVIDED BY THE RADIAL AND ULNAR ARTERIES, WHICH FORM THE SUPERFICIAL AND DEEP PALMAR ARCHES TO SUPPLY BLOOD TO THE HAND.

Q: WHAT IS DUPUYTREN'S CONTRACTURE?

A: DUPUYTREN'S CONTRACTURE IS A CONDITION CHARACTERIZED BY THE THICKENING OF THE PALMAR FASCIA, CAUSING THE FINGERS TO BEND TOWARDS THE PALM, LEADING TO LIMITED HAND FUNCTION.

Q: WHAT IS THE FUNCTION OF THE INTEROSSEI MUSCLES IN THE PALM?

A: THE INTEROSSEI MUSCLES, LOCATED BETWEEN THE METACARPALS, FACILITATE THE ABDUCTION AND ADDUCTION OF THE FINGERS, CONTRIBUTING TO THE INTRICATE MOVEMENTS OF THE HAND.

Q: WHY IS UNDERSTANDING PALMAR ANATOMY IMPORTANT FOR HEALTHCARE PROFESSIONALS?

A: UNDERSTANDING PALMAR ANATOMY IS VITAL FOR HEALTHCARE PROFESSIONALS AS IT AIDS IN ACCURATE DIAGNOSIS, SURGICAL INTERVENTIONS, AND REHABILITATION STRATEGIES FOR HAND-RELATED CONDITIONS.

Q: WHAT ARE SOME COMMON INJURIES TO THE PALM?

A: COMMON INJURIES TO THE PALM INCLUDE SPRAINS, FRACTURES, TENDON INJURIES, AND CONDITIONS LIKE TRIGGER FINGER, WHICH CAN SIGNIFICANTLY IMPACT HAND FUNCTION.

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palmar in anatomy: [A Pocketbook Manual of Hand and Upper Extremity Anatomy: Primus Manus](#) Fraser J. Leversedge, Martin I. Boyer, Charles A. Goldfarb, 2012-03-28 Pocketbook of Hand and Upper Extremity Anatomy: Primus Manus features exquisitely detailed full-color photographs of dissections and line drawings of all major anatomic entities. The written descriptions of anatomy are in bulleted format to allow quick access to the material. The book also describes clinical correlations for major diseases and includes various mnemonic devices.

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covers both emergency and non-emergency procedures, including those used in the treatment of traumatic injuries and congenital deformities. Different procedures and treatment strategies are compared and illustrated by hundreds of drawings and intraoperative color photographs.

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palmar in anatomy: *Grabb's Encyclopedia of Flaps* Berish Strauch, Luis O. Vasconez, M.d., Elizabeth J. Hall-Findlay, Bernard T. Lee, 2009 Now in its thoroughly updated Third Edition, this classic work is the most comprehensive reference ever published on surgical flaps for reconstructing defects in the upper extremities. In clearly organized chapters, internationally recognized surgeons describe and illustrate every clinically proven flap option available for repairing every routine and unusual defect. Complementing the text are hundreds of clinical photographs and diagrams of anatomy, blood supply, flap design, and operative procedures. The book is extensively indexed and organized by anatomic region, and chapters follow a uniform format that clearly presents all the information needed on each flap. The Third Edition features new chapters by the original experts who have made landmark contributions to the recent literature. Many chapters from the previous edition have been completely revised. Wherever appropriate, the editors have added editorial comments to guide the reader in selection of flaps.

palmar in anatomy: *Introduction to Vascular Ultrasonography E-Book* John S. Pellerito, Joseph F. Polak, 2019-10-05 Focused content, an easy-to-read writing style, and abundant illustrations make *Introduction to Vascular Ultrasonography* the definitive reference on arterial and venous ultrasound. Trusted by radiologists, interventional radiologists, vascular and interventional fellows, residents, and sonographers through six outstanding editions, the revised 7th Edition covers all aspects of ultrasound vascular diagnosis, including peripheral veins and arteries, carotid and vertebral arteries, abdominal vessels, and transcranial Doppler. Step-by-step explanations, all highly illustrated, walk you through the full spectrum of ultrasound sonography practice, including all that's new in this quickly evolving field. - Organizes sections with quick reference in mind: clinical rationale, anatomy, examination technique, findings, and interpretation. - Includes 2,100 clinical ultrasound images and anatomic line drawings, including over 1,000 in full color. - Features new coverage of noninvasive image-guided procedures, robotic embolization, laser therapy, new Doppler ultrasound and color images, and guidance on promoting patient relationships. - Takes a clear, readable, and practical approach to interventions and underlying rationales for a variety of complex IR principles, such as the physics of Doppler ultrasound and hemodynamics of blood flow. - Contains extensive tables, charts, and graphs that clearly explain examination protocols, normal values, diagnostic parameters, and ultrasound findings.

palmar in anatomy: *Advances in the Biomechanics of the Hand and Wrist* F. Schuind, K.N. An, W.P. Cooney III, M. Garcia-Elias, 2013-06-29 William P. Cooney III, R. A. Berger, and K. N. An Orthopedic Biomechanics Laboratory Department of Orthopedic Surgery Mayo Clinic and Mayo Foundation Rochester, MN 55905, U. S. A. As surgeons struggle to find new insights into the complex diseases and deformities that involve the wrist and hand, new insights are being provided by applied anatomy, physiology and biomechanics to these important areas. Indeed, a fresh new interaction of disciplines has immersed in which anatomists, bioengineers and surgeons examine together basic functions and principles that can provide a strong foundation for future growth. Clinical interest in the hand and wrist are now at a peak on an international level. Economic implications of disability affecting the hand and wrist are recognized that have international scope

crossing oceans, cultures, languages and political philosophies. As with any struggle, a common ground for understanding is essential. NATO conferences such as this symposium on Biomechanics of the Hand and Wrist provides such a basis upon which to build discernment of fundamental postulates. As a start, basic research directed at studies of anatomy, pathology and pathophysiology and mechanical modeling is essential. To take these important steps further forward, funding from government and industry are needed to consider fundamental principles within the material sciences, biomechanical disciplines, applied anatomy and physiology and concepts of engineering modeling that have been applied to other areas of the musculoskeletal system.

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palmar in anatomy: Gross Anatomy, Neuroanatomy, and Embryology for Medical Students Jonathan Leo, 2025-05-27 This work is an essential resource for medical students seeking a deep, long-term understanding of anatomy. Combining and updating two of the author's previous Springer titles—one on gross anatomy and another on medical neuroanatomy—this book also includes a wealth of new material designed to support comprehensive learning. Rather than emphasizing rote memorization, this guide helps students grasp the most complex anatomical concepts they will encounter in their first year of medical school, with a focus on clinical application. Each topic is presented with real-world scenarios in mind, making it a valuable reference not only for preclinical students but also for third- and fourth-year trainees looking for a refresher during clinical rotations. The book is organized into three sections: Section One covers the gross anatomy of the head and neck, abdomen, thorax, pelvis and perineum, lower limb, upper limb, and back. Section Two presents clinical neuroanatomy in a lesion-based format, emphasizing diagnosis through signs and symptoms. Section Three explores embryology and organ system development, also with a clinical focus. Comprehensive, accessible, and richly illustrated, Gross Anatomy, Neuroanatomy, and Embryology for Medical Students: The Ultimate Survival Guide is a must-have companion for medical students navigating the challenging world of anatomy.

palmar in anatomy: Dupuytren's Disease Alfred Berger, Axel Delbrück, Peter Brenner, Rolf Hinzmann, 2012-12-06 In this volume a distinguished group of internationally renowned clinicians and basic researchers discuss the present state of knowledge of the etiology and pathogenesis of Dupuytren's contracture, a disease responsible for a considerable portion of disabilities within the working population all over the world. Although the riddle of how the contracture of the palmar fascia develops is still unsolved, the data on the pathobiochemistry and clinic of Dupuytren's Disease achieved in recent years has led to a better understanding of the biochemical and morphological processes underlying the deformation and malfunction of the afflicted tissues. Research in Dupuytren's Disease now enters the era of molecular medicine, which opens up new experimental means of studying the pathological changes which occur during the formation of the contracture on a molecular level. In particular, data are presented as to the role of specific biological macromolecules influencing the phenotype expression of the palmar fascia cells which are involved in autoimmune reactions and present both at the cell surface as well as in the extracellular matrix to regulate cell-to-cell and cell-to-matrix interactions. In vitro cell culture models to investigate fibro-cytic modulations are available and have been applied to study the effects of specific biological molecules on isolated cells from healthy palmar fascia and Dupuytren's contracture. Complementary evaluations of morphological, epidemiological, and clinical data contribute essentially to the present understanding of the etiology and pathogenesis of Dupuytren's Disease. This comprehensive and informative summary of the state of the art is completed by numerous references affixed to the individual contributions.

palmar in anatomy: *Hand and Wrist* James R. Doyle, 2006 Written by an outstanding hand surgeon, this volume of our Orthopaedic Surgery Essentials Series presents all the information residents need during hand and wrist surgery rotations or services. It can easily be read cover to cover during a rotation or used for quick reference before a patient workup or operation. The user-friendly, visually stimulating format features ample illustrations, bulleted lists, boxes, and tables. Coverage begins with hand and wrist anatomy and movement and proceeds to specific deformities, diseases, and injuries. Chapters are organized according to the venue in which disorders are usually first encountered—outpatient clinic or emergency department.

palmar in anatomy: *Soft Tissue Reconstruction for Digital Defects, An Issue of Hand Clinics* E-Book Sandeep J Sebastin, David MK Tan, 2019-12-03 This issue of Hand Clinics, guest edited by Drs. Sandeep Sebastin and David Tan, will cover key topics of importance for Soft Tissue Reconstruction for Digital Defects. This issue is one of four selected each year by our series consulting editor, Dr. Kevin Chung. Topics discussed in this issue will include: Vascular Anatomy of the Hand in relation to flaps, Adipofascial Flaps, Transposition and Rotation Flaps, Antegrade Flow Digital Artery Flaps, Retrograde Flow Digital Artery Flaps, Flaps based on Palmar Vessels, Dorsal Metacarpal Artery based Flaps, Digital Artery Perforator based Flaps, Free Flaps and Venous Flaps for Digital Reconstruction, Soft Tissue Coverage of the Digits and Hand, and a Metanalysis of the Complications of Hand Flaps, among others.

palmar in anatomy: *Fascia: The Tensional Network of the Human Body* Robert Schleip, Peter Huijing, Thomas W. Findley, 2013-02-26 This book is the product of an important collaboration between clinicians of the manual therapies and scientists in several disciplines that grew out of the three recent International Fascia Research Congresses (Boston, Amsterdam, and Vancouver). The book editors, Thomas Findley MD PhD, Robert Schleip PhD, Peter Huijing PhD and Leon Chaitow DO, were major organizers of these congresses and used their extensive experience to select chapters and contributors for this book. This volume therefore brings together contributors from diverse backgrounds who share the desire to bridge the gap between theory and practice in our current knowledge of the fascia and goes beyond the 2007, 2009 and 2012 congresses to define the state-of-the-art, from both the clinical and scientific perspective. Prepared by over 100 specialists and researchers from throughout the world, *Fascia: The Tensional Network of the Human Body* will be ideal for all professionals who have an interest in fascia and human movement - physiotherapists, osteopathic physicians, osteopaths, chiropractors, structural integration practitioners, manual therapists, massage therapists, acupuncturists, yoga or Pilates instructors, exercise scientists and personal trainers - as well as physicians involved with musculoskeletal medicine, pain management and rehabilitation, and basic scientists working in the field. - Reflects the efforts of almost 100 scientists and clinicians from throughout the world - Offers comprehensive coverage ranging from anatomy and physiology, clinical conditions and associated therapies, to recently developed research techniques - Explores the role of fascia as a bodywide communication system - Presents the latest information available on myofascial force transmission which helps establish a scientific basis for given clinical experiences - Explores the importance of fascia as a sensory organ - for example, its important proprioceptive and nociceptive functions which have implications for the generation of low back pain - Describes new imaging methods which confirm the connectivity of organs and tissues - Designed to organize relevant information for professionals involved in the therapeutic manipulation of the body's connective tissue matrix (fascia) as well as for scientists involved in basic science research - Reflects the increasing need for information about the properties of fascia, particularly for osteopaths, massage therapists, physiotherapists and other complementary health care professionals - Offers new insights on the fascial related foundations of Traditional Chinese Medicine Meridians and the fascial effects of acupuncture

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palmar in anatomy: DeLee and Drez's Orthopaedic Sports Medicine E-Book Mark D. Miller, Stephen R. Thompson, 2009-09-02 Here's the New Edition of the must-have reference in sports medicine! Covering all athletes throughout their lifespan, this 2-volume reference explores the pathophysiology, diagnosis, and treatment of the full spectrum of sports-related injuries and medical disorders. It provides the most clinically focused, comprehensive guidance available in any single source, with contributions from the most respected authorities in the field. Thoroughly revised and updated, you'll find state-of-the-art coverage in an all-new full-color format and access to the complete contents online, with video clips and more! Encompasses imaging techniques, the management of both adult and child/adolescent injuries, and sports-related fractures to help you meet for every clinical challenge. Includes coverage of important non-orthopaedic conditions in the management of the athlete for a complete guide to treatment. Integrates coverage of pediatric and

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