#### DORSAL HAND SURFACE ANATOMY

DORSAL HAND SURFACE ANATOMY IS A FASCINATING AND ESSENTIAL TOPIC FOR ANYONE INTERESTED IN MEDICINE,
PHYSIOTHERAPY, SPORTS SCIENCE, OR EVEN ART. UNDERSTANDING THE ANATOMY OF THE DORSAL SURFACE OF THE HAND
PROVIDES CRUCIAL INSIGHTS INTO HOW THE HAND FUNCTIONS, HOW INJURIES CAN IMPACT MOVEMENT, AND HOW MEDICAL
PROFESSIONALS DIAGNOSE AND TREAT CONDITIONS. THIS ARTICLE EXPLORES THE DETAILED STRUCTURES THAT MAKE UP THE
DORSAL HAND, INCLUDING BONES, JOINTS, MUSCLES, TENDONS, BLOOD VESSELS, NERVES, AND SKIN. READERS WILL LEARN ABOUT
THE CLINICAL SIGNIFICANCE OF THE DORSAL HAND SURFACE, COMMON ANATOMICAL VARIATIONS, AND PRACTICAL TIPS FOR
IDENTIFYING LANDMARKS. WHETHER YOU ARE A STUDENT, PRACTITIONER, OR ENTHUSIAST, THIS COMPREHENSIVE GUIDE WILL
DEEPEN YOUR KNOWLEDGE OF DORSAL HAND SURFACE ANATOMY, HELPING YOU RECOGNIZE ITS IMPORTANCE IN HEALTH, INJURY
PREVENTION, AND REHABILITATION.

- Overview of Dorsal Hand Surface Anatomy
- BONY STRUCTURES OF THE DORSAL HAND
- JOINTS OF THE DORSAL HAND
- Muscles and Tendons on the Dorsal Surface
- Nerves of the Dorsal Hand Surface
- BLOOD VESSELS ON THE DORSAL HAND
- Skin and Surface Landmarks
- CLINICAL SIGNIFICANCE OF DORSAL HAND SURFACE ANATOMY
- COMMON ANATOMICAL VARIATIONS
- PRACTICAL TIPS FOR IDENTIFYING DORSAL HAND STRUCTURES

## OVERVIEW OF DORSAL HAND SURFACE ANATOMY

THE DORSAL HAND SURFACE ANATOMY ENCOMPASSES THE STRUCTURES VISIBLE AND PALPABLE ON THE BACK OF THE HAND. THIS AREA INCLUDES INTRICATE NETWORKS OF BONES, JOINTS, MUSCLES, TENDONS, NERVES, AND BLOOD VESSELS, ALL PROTECTED BY A LAYER OF SKIN. THE DORSAL SURFACE IS CRUCIAL FOR HAND FUNCTION, ALLOWING FOR EXTENSION, ABDUCTION, AND FINE MOTOR CONTROL. UNDERSTANDING ITS ANATOMY AIDS IN INJURY ASSESSMENT, SURGICAL PLANNING, AND REHABILITATION. THE DORSAL HAND DIFFERS FROM THE PALMAR SIDE IN BOTH FUNCTION AND VULNERABILITY, MAKING ITS STUDY VITAL FOR COMPREHENSIVE HAND CARE.

## BONY STRUCTURES OF THE DORSAL HAND

#### CARPAL BONES

THE CARPAL BONES FORM THE WRIST AND ARE PALPABLE ON THE DORSAL HAND SURFACE NEAR THE BASE. THESE EIGHT BONES ARE ARRANGED IN TWO ROWS, CONTRIBUTING TO WRIST STABILITY AND FLEXIBILITY. ON THE DORSAL SIDE, THE SCAPHOID AND LUNATE ARE ESPECIALLY SIGNIFICANT AS THEY ARE COMMONLY INVOLVED IN INJURIES.

#### METACARPAL BONES

METACARPALS ARE THE FIVE LONG BONES THAT EXTEND FROM THE WRIST TO THE FINGERS. THEY ARE PALPABLE ALONG THE DORSAL HAND, FORMING THE HAND'S FRAMEWORK AND SUPPORTING THE FINGERS. FRACTURES AND DEFORMITIES OF THESE BONES CAN BE EASILY IDENTIFIED ON THE DORSAL SURFACE.

#### **PHALANGES**

EACH FINGER CONTAINS THREE PHALANGES (PROXIMAL, MIDDLE, DISTAL), WHILE THE THUMB HAS TWO. THE KNUCKLES VISIBLE ON THE DORSAL HAND MARK THE LOCATIONS OF THESE BONES. THE ARRANGEMENT OF PHALANGES ALLOWS FOR COMPLEX FINGER MOVEMENTS AND FLEXIBILITY.

- SCAPHOID
- LUNATE
- TRIQUETRUM
- PISIFORM
- TRAPEZIUM
- TRAPEZOID
- CAPITATE
- HAMATE
- METACARPALS I-V
- PHALANGES (PROXIMAL, MIDDLE, DISTAL FOR FINGERS; PROXIMAL, DISTAL FOR THUMB)

# JOINTS OF THE DORSAL HAND

# METACARPOPHALANGEAL (MCP) JOINTS

THE MCP JOINTS CONNECT METACARPALS TO PHALANGES, FORMING THE KNUCKLES VISIBLE ON THE DORSAL HAND. THESE JOINTS ALLOW FOR FLEXION, EXTENSION, ABDUCTION, AND ADDUCTION OF THE FINGERS. SWELLING OR DEFORMITY HERE CAN INDICATE TRAUMA OR ARTHRITIS.

## INTERPHALANGEAL JOINTS

EACH FINGER HAS TWO INTERPHALANGEAL JOINTS (PROXIMAL AND DISTAL), WHILE THE THUMB HAS ONE. THESE JOINTS ARE PALPABLE AND VISIBLE ON THE DORSAL SURFACE, FACILITATING FINE FINGER MOVEMENTS. THEIR ANATOMY IS CRUCIAL FOR HAND DEXTERITY.

## CARPOMETACARPAL (CMC) JOINTS

THE CMC JOINTS LIE AT THE BASE OF THE METACARPALS, CONNECTING THEM TO THE CARPAL BONES. THESE JOINTS CONTRIBUTE TO THE HAND'S RANGE OF MOTION AND STABILITY, ESPECIALLY IN THE THUMB, WHICH HAS A UNIQUE SADDLE-SHAPED CMC JOINT.

## MUSCLES AND TENDONS ON THE DORSAL SURFACE

#### EXTENSOR MUSCLES

THE DORSAL HAND SURFACE IS PRIMARILY ASSOCIATED WITH EXTENSOR MUSCLES, WHICH STRAIGHTEN THE FINGERS AND WRIST. KEY MUSCLES INCLUDE THE EXTENSOR DIGITORUM, EXTENSOR INDICIS, AND EXTENSOR DIGITI MINIMI. THESE MUSCLE TENDONS ARE CLEARLY VISIBLE AND PALPABLE, ESPECIALLY DURING FINGER EXTENSION.

#### **EXTENSOR TENDONS**

EXTENSOR TENDONS TRAVERSE THE DORSAL HAND, CONNECTING MUSCLES TO BONES AND ENABLING FINGER AND WRIST EXTENSION. THE EXTENSOR RETINACULUM, A THICK BAND AT THE WRIST, SECURES THESE TENDONS IN PLACE, PREVENTING BOWSTRINGING DURING MOVEMENT.

#### DORSAL INTEROSSEI MUSCLES

LOCATED BETWEEN THE METACARPAL BONES, THE DORSAL INTEROSSEI MUSCLES ABDUCT THE FINGERS AND ASSIST WITH FINE MOTOR CONTROL. THEIR TENDONS CAN BE FELT WHEN SPREADING THE FINGERS APART.

- 1. EXTENSOR DIGITORUM
- 2. EXTENSOR INDICIS
- 3. EXTENSOR DIGITI MINIMI
- 4. EXTENSOR POLLICIS LONGUS AND BREVIS
- 5. Dorsal interossei

## NERVES OF THE DORSAL HAND SURFACE

#### RADIAL NERVE BRANCHES

THE RADIAL NERVE SUPPLIES SENSATION TO MOST OF THE DORSAL HAND, ESPECIALLY THE THUMB, INDEX, AND MIDDLE FINGERS.

ITS SUPERFICIAL BRANCHES CAN BE INJURED DURING TRAUMA, LEADING TO LOSS OF SENSATION OR PAIN ON THE DORSAL SURFACE.

#### **ULNAR NERVE BRANCHES**

THE DORSAL BRANCH OF THE ULNAR NERVE PROVIDES SENSATION TO THE LITTLE FINGER AND ADJACENT SIDE OF THE RING FINGER. DAMAGE TO THIS NERVE IMPACTS TACTILE FEEDBACK AND FINE MOTOR CONTROL IN THESE AREAS.

#### MEDIAN NERVE CONTRIBUTION

THE MEDIAN NERVE HAS A LIMITED ROLE IN THE DORSAL HAND, MAINLY AFFECTING THE TIPS OF THE INDEX AND MIDDLE FINGERS. ITS INVOLVEMENT IS MORE PRONOUNCED ON THE PALMAR SIDE.

## BLOOD VESSELS ON THE DORSAL HAND

#### DORSAL METACARPAL ARTERIES

THE DORSAL METACARPAL ARTERIES BRANCH FROM THE RADIAL AND ULNAR ARTERIES, SUPPLYING BLOOD TO THE DORSAL HAND AND FINGERS. THESE VESSELS ARE ESSENTIAL FOR TISSUE HEALTH AND HEALING FOLLOWING INJURY.

#### DORSAL VENOUS NETWORK

A PROMINENT DORSAL VENOUS NETWORK IS VISIBLE ON THE BACK OF THE HAND, ESPECIALLY IN LEAN INDIVIDUALS. THIS NETWORK IS COMMONLY USED FOR INTRAVENOUS ACCESS AND BLOOD SAMPLING.

- DORSAL METACARPAL ARTERIES
- DORSAL VENOUS NETWORK
- RADIAL ARTERY BRANCHES
- Ulnar artery branches

## SKIN AND SURFACE LANDMARKS

#### SKIN CHARACTERISTICS

THE SKIN ON THE DORSAL HAND IS THINNER AND MORE MOBILE THAN ON THE PALMAR SIDE. IT CONTAINS FEWER SWEAT GLANDS AND IS MORE PRONE TO BRUISING AND INJURY. THE SKIN'S ELASTICITY AND TEXTURE ARE IMPORTANT FOR HAND MOVEMENT AND SENSATION.

#### VISIBLE LANDMARKS

PROMINENT ANATOMICAL LANDMARKS ON THE DORSAL HAND INCLUDE KNUCKLES (MCP JOINTS), TENDONS DURING EXTENSION,

AND THE DORSAL VENOUS NETWORK. THESE FEATURES ASSIST CLINICIANS AND ARTISTS IN LOCATING UNDERLYING STRUCTURES.

#### CREASES AND LYMPHATIC DRAINAGE

DORSAL HAND CREASES MARK JOINT LOCATIONS AND ARE USED TO ASSESS SWELLING AND JOINT MOVEMENT. LYMPHATIC VESSELS IN THE SKIN AID IN IMMUNE DEFENSE AND FLUID BALANCE.

## CLINICAL SIGNIFICANCE OF DORSAL HAND SURFACE ANATOMY

#### INJURY ASSESSMENT

Understanding dorsal hand anatomy enables accurate assessment of fractures, tendon injuries, nerve damage, and joint disorders. Observing surface changes helps diagnose underlying conditions quickly.

#### SURGICAL APPROACHES

SURGEONS RELY ON DORSAL HAND SURFACE ANATOMY FOR INCISIONS, TENDON REPAIRS, AND FRACTURE FIXATION. KNOWLEDGE OF VESSEL AND NERVE LOCATIONS MINIMIZES COMPLICATIONS AND IMPROVES OUTCOMES.

#### REHABILITATION AND THERAPY

THERAPISTS USE DORSAL HAND ANATOMY TO GUIDE EXERCISES, SPLINTING, AND RECOVERY AFTER INJURY. RECOGNIZING TENDON AND JOINT POSITIONS ENHANCES REHABILITATION STRATEGIES.

## COMMON ANATOMICAL VARIATIONS

#### VESSEL PATTERNS

VARIATIONS IN THE DORSAL VENOUS NETWORK AND ARTERIAL BRANCHING ARE COMMON. SOME INDIVIDUALS HAVE MORE PROMINENT VEINS OR ALTERNATIVE VESSEL COURSES, IMPACTING PROCEDURES LIKE IV INSERTION.

#### **TENDON CONFIGURATIONS**

EXTENSOR TENDONS MAY VARY IN NUMBER OR ATTACHMENT POINTS, AFFECTING FINGER MOVEMENT AND SUSCEPTIBILITY TO INJURY.

#### BONY DIFFERENCES

BONE SIZE, SHAPE, AND ALIGNMENT CAN DIFFER DUE TO GENETICS OR PREVIOUS TRAUMA, INFLUENCING THE APPEARANCE AND FUNCTION OF THE DORSAL HAND.

## PRACTICAL TIPS FOR IDENTIFYING DORSAL HAND STRUCTURES

## PALPATION TECHNIQUES

Use gentle pressure to locate bones, tendons, and joints on the dorsal surface. Moving fingers or wrist while palpating highlights extensor tendons and knuckle positions.

#### VISUAL CUES

LOOK FOR SURFACE LANDMARKS LIKE VISIBLE VEINS, KNUCKLE PROMINENCES, AND TENDON OUTLINES. THESE CUES ASSIST IN IDENTIFYING UNDERLYING ANATOMY DURING EXAMINATION OR ARTWORK.

#### FUNCTIONAL MOVEMENTS

OBSERVING FINGER EXTENSION, ABDUCTION, AND SPREADING REVEALS MUSCLE AND TENDON ACTIVITY ON THE DORSAL HAND. THESE FUNCTIONAL TESTS ARE USEFUL FOR CLINICAL ASSESSMENT AND REHABILITATION PLANNING.

# QUESTIONS AND ANSWERS ABOUT DORSAL HAND SURFACE ANATOMY

## Q: WHAT STRUCTURES ARE VISIBLE ON THE DORSAL HAND SURFACE?

A: THE DORSAL HAND SURFACE SHOWS BONES (METACARPALS, PHALANGES), EXTENSOR TENDONS, KNUCKLES, AND THE DORSAL VENOUS NETWORK. THESE STRUCTURES ARE EASILY IDENTIFIED DURING HAND MOVEMENT AND EXAMINATION.

## Q: WHICH NERVES SUPPLY SENSATION TO THE DORSAL HAND?

A: Sensation on the dorsal hand is mainly supplied by the radial nerve and the dorsal branch of the ulnar nerve, with the median nerve contributing minimally to the tips of some fingers.

## Q: WHY IS THE DORSAL HAND ANATOMY IMPORTANT IN CLINICAL PRACTICE?

A: Understanding dorsal hand anatomy is crucial for diagnosing injuries, planning surgeries, and guiding rehabilitation. It helps identify fractures, tendon ruptures, nerve injuries, and vascular conditions.

## Q: WHAT VESSELS FORM THE DORSAL VENOUS NETWORK?

A: THE DORSAL VENOUS NETWORK CONSISTS OF INTERCONNECTED VEINS ON THE BACK OF THE HAND, DRAINING BLOOD FROM THE FINGERS AND HAND TO LARGER VEINS IN THE FOREARM.

## Q: How can you identify extensor tendons on the dorsal hand?

A: EXTENSOR TENDONS BECOME PROMINENT WHEN THE FINGERS ARE EXTENDED OR SPREAD APART. THEY CAN BE PALPATED AND VISUALIZED AS RAISED LINES RUNNING FROM THE WRIST TO THE FINGERS.

## Q: WHAT ARE COMMON INJURIES INVOLVING THE DORSAL HAND SURFACE?

A: COMMON INJURIES INCLUDE METACARPAL FRACTURES, EXTENSOR TENDON RUPTURES, LACERATIONS, AND NERVE COMPRESSION SYNDROMES. THESE CAN AFFECT HAND FUNCTION AND REQUIRE TARGETED TREATMENT.

## Q: ARE THERE ANATOMICAL VARIATIONS IN DORSAL HAND SURFACE ANATOMY?

A: YES, VARIATIONS OCCUR IN VESSEL PATTERNS, TENDON CONFIGURATIONS, AND BONE STRUCTURE. THESE DIFFERENCES CAN INFLUENCE CLINICAL PROCEDURES AND THE APPEARANCE OF THE HAND.

## Q: WHAT ROLE DO DORSAL INTEROSSEI MUSCLES PLAY?

A: Dorsal interossei muscles, located between metacarpals, are responsible for finger abduction and contribute to fine motor control and grip strength.

## Q: WHY IS THE SKIN ON THE DORSAL HAND MORE VULNERABLE TO INJURY?

A: THE SKIN ON THE DORSAL HAND IS THINNER AND LESS PADDED THAN THE PALMAR SURFACE, MAKING IT MORE SUSCEPTIBLE TO CUTS, BRUISES, AND ENVIRONMENTAL DAMAGE.

# Q: How does knowledge of dorsal hand surface anatomy assist in rehabilitation?

A: RECOGNIZING ANATOMICAL STRUCTURES ON THE DORSAL HAND HELPS THERAPISTS DESIGN EFFECTIVE EXERCISES, APPLY SPLINTS, AND MONITOR RECOVERY FROM INJURIES OR SURGERIES.

## **Dorsal Hand Surface Anatomy**

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# **Dorsal Hand Surface Anatomy: A Comprehensive Guide**

Understanding the intricate anatomy of the dorsal hand surface is crucial for healthcare professionals, artists, and anyone interested in the human body's complex design. This comprehensive guide delves into the detailed anatomy of the dorsal hand, exploring its bones, muscles, tendons, nerves, and vasculature. We'll break down the complex structures into easily

digestible sections, ensuring a thorough understanding for readers of all levels. Prepare to uncover the fascinating world of dorsal hand surface anatomy!

# **H2: Bony Framework of the Dorsal Hand**

The foundation of the dorsal hand is its skeletal structure. This primarily comprises the carpal bones (eight small bones arranged in two rows), the metacarpals (five long bones forming the palm), and the phalanges (14 bones making up the fingers).

H3: Carpal Bones: The proximal row consists of the scaphoid, lunate, triquetrum, and pisiform. The distal row includes the trapezium, trapezoid, capitate, and hamate. Their precise arrangement and articulation allow for the hand's remarkable dexterity.

H3: Metacarpals & Phalanges: The metacarpals articulate with the carpal bones proximally and with the phalanges distally. Each finger (excluding the thumb) consists of three phalanges: proximal, middle, and distal. The thumb possesses only two phalanges: proximal and distal. Understanding the articulation points between these bones is key to comprehending hand movement.

## H2: Muscles and Tendons of the Dorsal Hand

The dorsal hand surface showcases a complex interplay of muscles and tendons responsible for finger extension, wrist extension, and abduction.

H3: Extensor Tendons: Numerous extensor tendons traverse

the dorsal hand, originating primarily from the forearm muscles. These include the extensor digitorum, extensor indicis, extensor digiti minimi, extensor carpi radialis longus, extensor carpi radialis brevis, and extensor carpi ulnaris. These tendons are crucial for finger and wrist extension, allowing actions like straightening the fingers and extending the wrist backward. Their arrangement and interaction create the characteristic ridges and depressions visible on the dorsal hand surface.

H3: Intrinsic Hand Muscles: While the majority of the dorsal hand's powerful extensor muscles are extrinsic (originating in the forearm), several intrinsic muscles contribute to fine motor control and hand positioning. These are generally smaller muscles located within the hand itself. Their detailed anatomy is often explored further in advanced anatomical studies.

# **H2: Neurovascular Supply of the Dorsal Hand**

The dorsal hand receives its sensory and motor innervation from various nerves and its blood supply from a network of arteries and veins.

H3: Dorsal Sensory Nerves: The dorsal cutaneous branches of the radial nerve primarily provide sensory innervation to the dorsal hand. This nerve is crucial for feeling sensations like touch, temperature, and pain on the back of the hand. Its specific branches innervate different regions of the hand, creating overlapping sensory zones. H3: Dorsal Arterial Supply: The dorsal hand's arterial supply originates from the dorsal carpal arch, which is formed by branches of the radial and ulnar arteries. This arch ensures a robust blood supply to the hand, sustaining its complex functions. The veins mirror the arterial arrangement, facilitating efficient blood drainage.

# **H2: Clinical Relevance of Dorsal Hand Anatomy**

A thorough understanding of dorsal hand anatomy is vital in various clinical settings.

H3: Fracture Diagnosis and Treatment: Radiographic interpretation and surgical intervention for fractures of the carpal bones, metacarpals, and phalanges require detailed knowledge of the dorsal hand's bony anatomy.

H3: Tendon Injuries: Many athletic and occupational injuries involve the extensor tendons, requiring precise diagnosis and rehabilitation strategies based on a comprehensive understanding of their anatomy and biomechanics.

H3: Nerve Compression Syndromes: Conditions like carpal tunnel syndrome, although primarily affecting the palmar side, can have implications for the dorsal hand, requiring a holistic understanding of the neurovascular structures.

## **Conclusion**

The dorsal hand surface, although often overlooked, boasts a complex and fascinating anatomy. From its intricate skeletal structure to its sophisticated network of muscles, tendons, nerves, and blood vessels, the dorsal hand plays a crucial role in our daily lives. This detailed exploration provides a strong foundation for understanding this remarkable region of the human body, benefiting healthcare professionals, artists, and anyone fascinated by the human form's intricacies.

# **FAQs**

- 1. What is the difference between the dorsal and palmar surfaces of the hand? The dorsal surface refers to the back of the hand, while the palmar surface is the palm. They differ significantly in their bony structure, musculature, and neurovascular supply.
- 2. Which nerve is primarily responsible for sensation on the dorsal hand? The dorsal cutaneous branch of the radial nerve is the primary sensory nerve for the dorsal hand.
- 3. What are the common injuries affecting the dorsal hand? Common injuries include fractures of the carpal bones and metacarpals, tendon injuries (especially extensor tendon injuries), and sprains.
- 4. How does understanding dorsal hand anatomy aid in surgical procedures? Accurate knowledge of bony landmarks, tendon pathways, and neurovascular structures is crucial for successful surgical interventions such as fracture repair, tendon reconstruction, and nerve decompression.
- 5. Are there any anatomical variations in the dorsal hand? Like all anatomical structures, minor variations can exist in the dorsal hand's bones, muscles, and nerves. These variations usually do not impact function significantly.

dorsal hand surface anatomy: Gross Anatomy: The Big Picture, Second Edition, SMARTBOOKTM David A. Morton, K. Bo Foreman, Kurt H. Albertine, 2011-06-14 Get the BIG PICTURE of Gross Anatomy in the context of healthcare – and zero-in on what you really need to know to ace the course and board exams! Gross Anatomy: The Big Picture is the perfect bridge between review and textbooks. With an emphasis on what you truly need to know versus "what's nice to know," it features 450 full-color illustrations that give you a complete, yet concise, overview of essential anatomy. The book's user-friendly presentation consists of text on the left-hand page and beautiful full-color illustrations on the right-hand page. In this way, you get a "big picture" of anatomy principles, delivered one concept at a time — making them easier to understand and retain. Striking the perfect balance between illustrations and text, Gross Anatomy: The Big Picture features: High-yield review questions and answers at the end of each chapter Numerous summary tables and figures that encapsulate important information 450 labeled and explained full-color illustrations A final exam featuring 100 Q&As Important clinically-relevant concepts called to your attention by convenient icons Bullets and numbering that break complex concepts down to easy-to-remember points

dorsal hand surface anatomy: Musculoskeletal Diseases 2021-2024 Juerg Hodler, Rahel A.

Kubik-Huch, Gustav K. von Schulthess, 2021 This open access book focuses on imaging of the musculoskeletal diseases. Over the last few years, there have been considerable advances in this area, driven by clinical as well as technological developments. The authors are all internationally renowned experts in their field. They are also excellent teachers, and provide didactically outstanding chapters. The book is disease-oriented and covers all relevant imaging modalities, with particular emphasis on magnetic resonance imaging. Important aspects of pediatric imaging are also included. IDKD books are completely re-written every four years. As a result, they offer a comprehensive review of the state of the art in imaging. The book is clearly structured with learning objectives, abstracts, subheadings, tables and take-home points, supported by design elements to help readers easily navigate through the text. As an IDKD book, it is particularly valuable for general radiologists, radiology residents, and interventional radiologists who want to update their diagnostic knowledge, and for clinicians interested in imaging as it relates to their specialty.

dorsal hand surface anatomy: Orthopedics of the Upper and Lower Limb K. Mohan Iyer, Wasim S. Khan, 2020-07-07 The second edition of this book provides a practical guide to the latest diagnostic and therapeutic techniques in orthopedics for both the upper and lower limb. Extensively revised chapters provide detailed step-by-step instructions on how to perform basic clinical and surface, anatomy examinations on joints including the hand, elbow and ankle. The application of relevant surgical procedures and post-operative management techniques are also detailed. New topics covered include cruciate ligament injuries, and robot assisted surgery. Orthopedics of the Upper and Lower Limb is an ideal resource for trainees and junior surgeons seeking an easy to follow clinical manual on how to successfully diagnose and treat patients with orthopedic disorders affecting both limbs. It is also of use to the experienced practitioner seeking a detailed resource on the latest advances in the field.

**dorsal hand surface anatomy:** *Encyclopedia of Biometrics* Stan Z. Li, 2009-08-27 With an A-Z format, this encyclopedia provides easy access to relevant information on all aspects of biometrics. It features approximately 250 overview entries and 800 definitional entries. Each entry includes a definition, key words, list of synonyms, list of related entries, illustration(s), applications, and a bibliography. Most entries include useful literature references providing the reader with a portal to more detailed information.

**dorsal hand surface anatomy: Postgraduate Orthopaedics** Paul A. Banaszkiewicz, Deiary F. Kader, 2012-08-16 The must-have book for candidates preparing for the oral component of the FRCS (Tr and Orth).

dorsal hand surface anatomy: Pocket Tutor Surface Anatomy Richard Tunstall, S Ali Mirjalili, 2019-10-31 Titles in the Pocket Tutor series give practical guidance at a highly-affordable price on subjects that medical students, foundation doctors and a range of other practitioners need help with 'on the go'. The highly-structured, bite-size content helps novices combat the fear factor associated with day-to-day clinical training, and provides a handy reference that students and junior doctors can carry with them at all times. Pocket Tutor Surface Anatomy is an indispensable guide to a subject that is increasingly important on today's medical courses and a crucial preamble to the study of clinical skills and procedures, indeed to the study of all medicine and surgery. Key Features: Logical, sequential content: introduction to the principles of living anatomy, then chapters devoted to individual regions, with each sub-region illustrated by specially commissioned photographs featuring ghosted underlying structures Each region (e.g. Upper Limb) described in a consistent manner: Introduction & Core Features which focuses on Arteries & Veins, Nerves & Dermatomes and Core Landmarks; then for each subregion (e.g. Shoulder & Arm) Bones Joints & Ligaments, Muscles Tendons & Regions, and Neurovascular & Lymph Changes to second edition: New chapter on paediatric surface anatomy highlights the anatomical differences in children and how they vary during development 15+ new and improved radiological images match surface markings to underlying structures More sites of nerve injury, surgical incision lines and normal/pathological variation added to surface anatomy photos correlate anatomical landmarks to clinical practice Chapters reordered from head to toe to provide a more logical and accessible ordering of content

Previous edition (9781907816178) published 2012.

dorsal hand surface anatomy: Emergency Orthopedics Handbook Daniel Purcell, Sneha A. Chinai, Brandon R. Allen, Moira Davenport, 2019-04-04 This handbook provides a comprehensive, yet succinct guide to the evaluation, diagnosis, and treatment of various musculoskeletal/extremity disorders in the emergency department. It covers a wide variety of common patient presentations, advanced imaging interpretation, proper anesthetic implementation, and associated extremity reduction/immobilization techniques. Richly illustrated, it assists clinical decision making with high-yield facts, essential figures, and step-by-step procedural instruction. Emergency Orthopedics Handbook is an indispensable resource for all medical professionals that manage emergent orthopedic, musculoskeletal, and local extremity injury care.

dorsal hand surface anatomy: Lister's The Hand Paul John Smith, Paul Smith, Graham Lister, 2002 The new edition of this classic text describes in detail the diagnostic techniques of all disorders of the hand and wrist, and the indications for surgery (or other treatment) for each disorder. The only book available on diagnosis and indications for hand surgery, it covers injury, reconstruction, compression, inflammation, swelling, congenital disorders, and more. In addition, it is extensively cross-referenced to the current edition of Green's OPERATIVE HAND SURGERY, so that once a diagnosis has been reached, the reader may refer to the relevant section of Green for full operative details. With nearly 1,400 black-and-white photos and over 100 line illustrations, Lister's THE HAND, 4TH EDITION provides a detailed and thorough review of all aspects of the diagnosis and indications for treatment in hand surgery.

**dorsal hand surface anatomy:** <u>Anatomy and Physiology</u> J. Gordon Betts, Peter DeSaix, Jody E. Johnson, Oksana Korol, Dean H. Kruse, Brandon Poe, James A. Wise, Mark Womble, Kelly A. Young, 2013-04-25

dorsal hand surface anatomy: Handbook of Upper Extremity Examination Roger Pillemer, 2021-11-20 In addition to complementary radiographic imaging, the physical exam is an essential diagnostic element for the orthopedic surgeon. As such, learning to perform this exam thoroughly is of utmost importance to medical students, residents and interns on an orthopedic rotation and in later practice. This practical text succinctly presents all of the necessary information regarding the physical examination of the upper extremity. The hand, wrist, elbow and shoulder are discussed in dedicated thematic sections, with each section comprised of three main chapters. The initial chapter describes the musculoskeletal anatomy and function of the joint, presenting the tests themselves along with the rationale for performing them. The second chapter presents the systematic examinations carried out in every case, and the third chapter describes examinations for specific conditions relating to the joint, including tendinopathies, osteoarthritis, neurological conditions, deformities, and more. Plentiful bullet points and color images throughout the text describe and illustrate each test and physical sign. Convenient and user-friendly, Handbook of Upper Extremity Examination is a valuable, portable guide to this all-important diagnostic tool for students and practitioners alike.

dorsal hand surface anatomy: Outpatient Regenerative Medicine Mario Goisis, 2019-06-05 This book is unique in focusing expressly on regenerative medicine in the aesthetic field. With the aid of more than 400 color pictures, it provides step-by-step descriptions of procedures that can be performed easily in the private practice. The number of people pursuing anti-aging and cosmetic procedures in order to achieve a youthful, healthy, or simply improved aspect is continually increasing. At the same time the available techniques and materials have undergone rapid innovation in terms of both safety and quality. The practitioner no longer looks just at the correction or camouflage of an unwanted feature but rather also aims to address the aging process itself. Regenerative medicine appears to provide a unique and unlimited opportunity in this context. Autologous fat grafting, adipose-derived stem cells, and autologous platelet-rich plasma represent just some of the attractive options that can be used for volume restoration and facial rejuvenation.

**dorsal hand surface anatomy:** *Atlas of Living & Surface Anatomy for Sports Medicine with DVD E-Book* Philip F. Harris, Craig Ranson, 2016-07-02 This title is a comprehensive, highly

illustrated atlas of human living and surface anatomy for effective physical examination of sports injuries. It covers normal surface and living human anatomy on a regional basis in sufficient depth to facilitate effective physical examination and manipulative techniques. Full colour photographs of anatomy and skeletal parts show how to locate and identify structures. - Detailed methodology on how to locate structures, how to palpate them, how to test muscle actions and joint movements and how to detect derangements. - The inclusion of photographs of relevant bony structures and prosections of specific parts of the body to assist in identifying features in the living subject is a unique feature. - Problem-solving case studies employing knowledge of living anatomy. - Full colour throughout.

dorsal hand surface anatomy: Foot and Ankle Sports Orthopaedics Victor Valderrabano, Mark Easley, 2017-02-08 This book provides a comprehensive review of the diagnosis, management and treatment of sports injuries to the foot and ankle. The editors have assembled a list of contributors at the top of their field to define the medical management, treatment and surgery for the most common and highly debilitating sports injuries. Currently, foot and ankle injuries are the most common musculoskeletal injuries, thus this book fills the clear need for a state-of-the art resource that focuses upon this growing area of orthopaedic practice. Foot and Ankle Sports Orthopaedics is highly relevant to orthopaedic surgeons, sports orthopaedic surgeons and medical professionals dealing with sports injuries around the F&A. With clear and didactic information and superb illustrations, this book will prove to be an indispensable learning tool for readers seeking expert guidance to further their surgical skills in this area.

**dorsal hand surface anatomy: Human Anatomy** Leslie Klenerman, 2015 An understanding of the structure and function of the human body is vital for anyone studying the medical and health sciences. In this book, Leslie Klenerman provides a clear and accessible overview of the main systems of the human anatomy, illustrated with a number of clear explanatory diagrams.

dorsal hand surface anatomy: Hand Trauma in Clinical Practice Prateush Singh, 2019-04-02 This book comprehensively covers hand trauma from initial presentation to management. Material is presented in an easy to follow practically applicable way, bridging the gap between what trainees encounter during training and what is encountered in a busy emergency department. Topics covered include upper limb anatomy, soft tissue injuries and infections, hand fractures, anaesthesia, and referrals from primary care, with detailed guides provided on how to successfully perform techniques such as digit replantation, extravasation, and locoregional flaps. Hand Trauma in Clinical Practice systematically describes a variety of categories of hand trauma, and plastic and orthopaedic surgical techniques. Therefore, it represents a valuable resource for practising and trainee plastic surgeons, orthopaedic surgeons, and emergency care specialists.

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illustrating the topic. Review questions and illustrations at the end of each chapter provide users with an opportunity to assess their knowledge and easily study.

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Includes 20 new illustrations of palpable and visible anatomy. - Revised text now more closely tied in with the text and with increasing emphasis on clinical examination of the body.

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detailed, well-illustrated glossary explaining the more commonly used terms in electrodiagnostic medicine. This book will appeal to novice and experienced neurologists, students, clinical neurophysiology technicians, and rehabilitation physicians. It represents a logical extension of the volumes on the median nerve recently published by Springer.

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tissue topics, congenital anomalies and pediatric plastic surgery, head and neck surgery, aesthetic surgery, breast surgery, body contouring, hand surgery, and trunk and lower extremity surgery.

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studies on stem cells, tissue engineering and new field of reconstructive transplantation such as e.g. face, hand or larynx transplants. This approach is relatively novel and introduced to plastic surgery within past decade. Thus there is an urgent need to facilitate access to this new knowledge which was not traditionally a part of plastic surgery curriculum. The most efficient way of introducing these new approaches is via presentation of pertinent to different fields (stem cell, transplantation, nerve regeneration, tissue engineering) experimental models which can be used as a tool to develop technologies of interest by different groups of surgeons. These surgical specialities which will be interested and benefit from the book include: plastic and reconstructive surgeons, microsurgeons, hand surgeons, orthopaedic surgeons, neurosurgeons and transplant surgeons.

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Allan B. Wolfson, Gregory W. Hendey, Louis J. Ling, Carlo L. Rosen, Jeffrey J. Schaider, Ghazala Q.
Sharieff, 2012-09-11 Organized for easy reference, this comprehensive, concise, and clinically
focused text covers all aspects of emergency medicine. Chapters follow a consistent, structured
format—clinical presentation, differential diagnosis, evaluation, management, and disposition with
highlighted critical interventions and common pitfalls. In this edition, the Pain and Pain
Management section is now at the front of the book, since a large percentage of emergency
department patients present with pain-related complaints. The Trauma section now follows the
High-Risk Chief Complaint section. A new two-color design will help readers find critical elements of
each chapter easily. A companion Website will include the fully searchable text, more than 400
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