

ASIS IN ANATOMY

ASIS IN ANATOMY REFERS TO THE ANATOMICAL STRUCTURE KNOWN AS THE ANTERIOR SUPERIOR ILIAC SPINE, A PROMINENT FEATURE OF THE HUMAN PELVIS. THIS STRUCTURE PLAYS A CRUCIAL ROLE IN VARIOUS ANATOMICAL AND PHYSIOLOGICAL FUNCTIONS, SERVING AS AN IMPORTANT LANDMARK FOR MEDICAL PRACTITIONERS AND STUDENTS ALIKE. UNDERSTANDING THE ASIS IS ESSENTIAL FOR COMPREHENDING PELVIC ANATOMY, ITS RELATIONSHIPS WITH SURROUNDING STRUCTURES, AND ITS SIGNIFICANCE IN CLINICAL PRACTICES. THIS ARTICLE WILL DELVE INTO THE DEFINITION AND DESCRIPTION OF THE ASIS, ITS ROLE IN ANATOMY, CLINICAL SIGNIFICANCE, AND ITS IMPLICATIONS IN VARIOUS MEDICAL FIELDS. WE WILL ALSO EXPLORE HOW THE ASIS IS UTILIZED IN PHYSICAL EXAMINATIONS AND SURGICAL PROCEDURES.

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DEFINITION OF ASIS IN ANATOMY

UNDERSTANDING THE ANTERIOR SUPERIOR ILIAC SPINE

THE ANTERIOR SUPERIOR ILIAC SPINE (ASIS) IS A BONY PROMINENCE LOCATED AT THE ANTERIOR END OF THE ILIAC CREST OF THE PELVIS. IT CAN BE PALPATED EASILY THROUGH THE SKIN, MAKING IT A SIGNIFICANT ANATOMICAL LANDMARK. THE ASIS SERVES AS THE ORIGIN FOR SEVERAL MUSCLES, INCLUDING THE SARTORIUS AND THE TENSOR FASCIAE LATAE, WHICH ARE INVOLVED IN HIP AND KNEE MOVEMENTS. THE PROMINENCE OF THE ASIS IS DUE TO THE ATTACHMENT OF THE ILIAC FASCIA AND LIGAMENTS, WHICH CONTRIBUTE TO ITS STRUCTURAL INTEGRITY.

LOCATION AND IDENTIFICATION

THE ASIS IS FOUND ON BOTH SIDES OF THE PELVIS, APPROXIMATELY AT THE LEVEL OF THE L4 VERTEBRA. IT IS POSITIONED Laterally to the PUBIC SYMPHYSIS AND SUPERIOR TO THE ACETABULUM. CLINICIANS OFTEN USE THE ASIS AS A REFERENCE POINT FOR VARIOUS MEASUREMENTS, SUCH AS PELVIC WIDTH AND LEG LENGTH DISCREPANCIES. ITS PALPABLE LOCATION MAKES IT AN ESSENTIAL FEATURE IN BOTH PHYSICAL ASSESSMENTS AND ANATOMICAL STUDIES.

ROLE OF ASIS IN PELVIC ANATOMY

PELVIC STRUCTURE AND FUNCTION

THE ASIS PLAYS A VITAL ROLE IN MAINTAINING THE STRUCTURAL INTEGRITY OF THE PELVIS. IT FORMS PART OF THE PELVIC GIRDLE, WHICH SUPPORTS THE WEIGHT OF THE UPPER BODY AND PROVIDES A BASE FOR THE LOWER LIMBS. THE PELVIC GIRDLE'S DESIGN ALLOWS FOR FLEXIBILITY AND STABILITY WHILE ACCOMMODATING THE MOVEMENTS NECESSARY FOR LOCOMOTION AND DAILY ACTIVITIES.

MUSCLE ATTACHMENTS AND MOVEMENTS

SEVERAL IMPORTANT MUSCLES ATTACH TO THE ASIS, CONTRIBUTING TO VARIOUS MOVEMENTS OF THE HIP AND THIGH. THESE INCLUDE:

- **SARTORIUS:** THIS MUSCLE, WHICH IS THE LONGEST IN THE BODY, ORIGINATES AT THE ASIS AND ASSISTS IN FLEXING, ABDUCTING, AND Laterally rotating the hip.
- **TENSOR FASCIAE LATAE:** THIS MUSCLE HELPS STABILIZE THE HIP AND KNEE DURING MOVEMENT AND ALSO ORIGINATES FROM THE ASIS.
- **ILIOPSOAS:** THOUGH PRIMARILY ATTACHED TO THE ILIAC FOSSA, THIS MUSCLE GROUP IS INFLUENCED BY THE ASIS THROUGH ITS ROLE IN PELVIC ALIGNMENT.

THE ASIS'S INVOLVEMENT WITH THESE MUSCLES IS CRUCIAL FOR ACTIVITIES SUCH AS RUNNING, WALKING, AND CLIMBING.

CLINICAL SIGNIFICANCE OF ASIS

LANDMARK IN PHYSICAL ASSESSMENT

THE ASIS SERVES AS A SIGNIFICANT LANDMARK DURING PHYSICAL EXAMINATIONS. CLINICIANS OFTEN UTILIZE IT AS A REFERENCE POINT FOR MEASURING PELVIC TILT AND ASSESSING ALIGNMENT ISSUES. FOR INSTANCE, DISCREPANCIES IN ASIS HEIGHT CAN INDICATE CONDITIONS SUCH AS SCOLIOSIS OR LEG LENGTH DISCREPANCIES.

ROLE IN DIAGNOSTIC IMAGING

IN DIAGNOSTIC IMAGING, THE ASIS IS USED AS A REFERENCE POINT IN VARIOUS RADIOLOGICAL ASSESSMENTS. IT AIDS IN THE ACCURATE POSITIONING OF PATIENTS FOR PELVIC X-RAYS, CT SCANS, AND MRIs. UNDERSTANDING THE LOCATION OF THE ASIS IS CRITICAL FOR INTERPRETING IMAGES, ESPECIALLY WHEN ASSESSING FRACTURES OR DEGENERATIVE CHANGES IN THE PELVIC REGION.

IMPLICATIONS IN PHYSICAL EXAMINATION

ASSESSMENT OF PELVIC ALIGNMENT

DURING A PHYSICAL EXAMINATION, THE ASIS IS OFTEN ASSESSED FOR PELVIC ALIGNMENT. ASYMMETRY BETWEEN THE ASIS ON THE LEFT AND RIGHT SIDES CAN INDICATE UNDERLYING MUSCULOSKELETAL ISSUES. CLINICIANS MAY PERFORM A VISUAL INSPECTION OR UTILIZE TOOLS LIKE A LEVELING DEVICE TO EVALUATE THE POSITION OF THE ASIS RELATIVE TO OTHER ANATOMICAL LANDMARKS.

FUNCTIONAL TESTING

THE ASIS IS ALSO INVOLVED IN VARIOUS FUNCTIONAL TESTS THAT ASSESS HIP AND LOWER LIMB FUNCTION. THESE TESTS MAY INCLUDE RANGE OF MOTION ASSESSMENTS AND STRENGTH EVALUATIONS OF THE MUSCLES THAT ATTACH AT THE ASIS. UNDERSTANDING THE ROLE OF THE ASIS IN THESE TESTS HELPS CLINICIANS IDENTIFY POTENTIAL AREAS OF DYSFUNCTION AND DEVELOP APPROPRIATE TREATMENT PLANS.

ASIS IN SURGICAL PROCEDURES

GUIDING SURGICAL APPROACHES

THE ASIS IS AN IMPORTANT LANDMARK DURING SURGICAL PROCEDURES INVOLVING THE PELVIS AND LOWER EXTREMITIES. SURGEONS OFTEN REFERENCE THE ASIS FOR INCISIONS IN HIP SURGERIES, SUCH AS TOTAL HIP ARTHROPLASTY OR HIP FRACTURE REPAIRS. ACCURATE IDENTIFICATION OF THE ASIS ENSURES PROPER ALIGNMENT AND ORIENTATION OF SURGICAL INSTRUMENTS.

UTILIZATION IN MINIMALLY INVASIVE TECHNIQUES

IN MINIMALLY INVASIVE SURGICAL TECHNIQUES, THE ASIS CAN SERVE AS A GUIDE FOR TROCAR PLACEMENT, ENSURING THAT INSTRUMENTS ARE INSERTED AT THE CORRECT ANGLES. THIS IS PARTICULARLY CRUCIAL IN LAPAROSCOPIC SURGERIES WHERE PRECISION IS PARAMOUNT. SURGEONS RELY ON THE ASIS TO FACILITATE SAFE ACCESS TO THE PELVIC CAVITY WHILE MINIMIZING DAMAGE TO SURROUNDING TISSUES.

CONCLUSION

IN SUMMARY, THE ANTERIOR SUPERIOR ILIAC SPINE (ASIS) IS AN ESSENTIAL ANATOMICAL STRUCTURE THAT PROVIDES VALUABLE INSIGHTS INTO PELVIC ANATOMY AND FUNCTION. ITS ROLE AS A LANDMARK IN PHYSICAL EXAMINATIONS, DIAGNOSTIC IMAGING, AND SURGICAL PROCEDURES UNDERSCORES ITS CLINICAL SIGNIFICANCE. UNDERSTANDING THE ASIS'S ANATOMY AND ITS ASSOCIATIONS WITH SURROUNDING STRUCTURES IS CRUCIAL FOR HEALTHCARE PROFESSIONALS IN VARIOUS FIELDS. AS WE CONTINUE TO EXPLORE THE COMPLEXITIES OF HUMAN ANATOMY, THE ASIS WILL REMAIN A FOCAL POINT FOR BOTH EDUCATION AND CLINICAL PRACTICE.

Q: WHAT IS THE ASIS IN ANATOMY?

A: THE ASIS, OR ANTERIOR SUPERIOR ILIAC SPINE, IS A PROMINENT BONY PROJECTION LOCATED AT THE ANTERIOR END OF THE ILIAC CREST OF THE PELVIS. IT SERVES AS AN IMPORTANT ANATOMICAL LANDMARK AND A SITE FOR MUSCLE ATTACHMENTS.

Q: HOW IS THE ASIS USED IN CLINICAL PRACTICE?

A: CLINICIANS USE THE ASIS AS A REFERENCE POINT FOR ASSESSING PELVIC ALIGNMENT, MEASURING LEG LENGTHS, AND GUIDING SURGICAL PROCEDURES. IT PLAYS A CRUCIAL ROLE IN PHYSICAL EXAMINATIONS AND DIAGNOSTIC IMAGING.

Q: WHAT MUSCLES ATTACH TO THE ASIS?

A: THE PRIMARY MUSCLES THAT ATTACH TO THE ASIS INCLUDE THE SARTORIUS AND THE TENSOR FASCIAE LATAE, BOTH OF WHICH ARE INVOLVED IN HIP AND KNEE MOVEMENTS.

Q: WHY IS THE ASIS IMPORTANT FOR PHYSICAL THERAPISTS?

A: THE ASIS IS IMPORTANT FOR PHYSICAL THERAPISTS AS IT AIDS IN ASSESSING PELVIC ALIGNMENT, IDENTIFYING MUSCULOSKELETAL ISSUES, AND GUIDING TREATMENT PLANS FOR PATIENTS WITH HIP AND LOWER LIMB DYSFUNCTION.

Q: CAN THE ASIS INDICATE LEG LENGTH DISCREPANCIES?

A: YES, DISCREPANCIES IN THE HEIGHT OF THE ASIS CAN INDICATE LEG LENGTH DISCREPANCIES, WHICH CAN AFFECT POSTURE AND GAIT.

Q: WHAT IS THE SIGNIFICANCE OF THE ASIS IN SURGICAL PROCEDURES?

A: THE ASIS IS SIGNIFICANT IN SURGICAL PROCEDURES AS IT SERVES AS A LANDMARK FOR INCISIONS AND INSTRUMENTATION, PARTICULARLY IN HIP SURGERIES AND MINIMALLY INVASIVE TECHNIQUES.

Q: HOW DO HEALTHCARE PROFESSIONALS PALPATE THE ASIS?

A: HEALTHCARE PROFESSIONALS PALPATE THE ASIS BY LOCATING THE ILIAC CREST AND MOVING ANTERIORLY UNTIL THEY FEEL THE BONY PROMINENCE, ALLOWING FOR ASSESSMENT AND MEASUREMENT.

Q: IS THE ASIS MORE PROMINENT IN SOME INDIVIDUALS THAN OTHERS?

A: YES, THE PROMINENCE OF THE ASIS CAN VARY AMONG INDIVIDUALS DUE TO FACTORS SUCH AS BODY COMPOSITION, MUSCLE DEVELOPMENT, AND ANATOMICAL VARIATIONS.

Q: HOW DOES THE ASIS RELATE TO PELVIC STABILITY?

A: THE ASIS CONTRIBUTES TO PELVIC STABILITY BY SERVING AS AN ATTACHMENT POINT FOR MUSCLES THAT STABILIZE THE PELVIS AND SUPPORT MOVEMENT DURING ACTIVITIES SUCH AS WALKING AND RUNNING.

Q: WHAT IMAGING TECHNIQUES UTILIZE THE ASIS AS A LANDMARK?

A: IMAGING TECHNIQUES SUCH AS X-RAYS, CT SCANS, AND MRIS UTILIZE THE ASIS AS A LANDMARK FOR ACCURATE POSITIONING AND INTERPRETATION OF PELVIC AND HIP STRUCTURES.

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asis in anatomy: Nerves: Anatomy, Exposures, and Techniques Amgad S. Hanna, 2025-05-10 *Anatomy and Exposures of Spinal Nerves*, first edition was published in 2015. This book is a comprehensive illustrated surgical guide to operative exposures of nerves. Each chapter is devoted to a particular nerve and describes its origin, anatomical relations and variabilities, branches, surgical approaches, and clinical significance. The text is concise and easy to read, complemented by informative color photos from dissections and surgical procedures. Importantly, this book is accompanied by videos of different approaches. The book will be especially valuable for residents and fellows in training and candidates for oral board and maintenance of certification (MOC) examinations. It is also designed to provide a quick illustrated review for surgeons unfamiliar with a procedure. It should take less than 10 minutes to review each approach, including watching the video. After a very successful first edition, and translation to Chinese and Russian, this second edition provides an update that includes many advances in the field of nerve surgery, especially with newer surgical techniques. Chapters on neonatal brachial plexus injury, nerve transfers for spinal cord injury, lower extremity nerve transfers, transposition of the lateral femoral cutaneous nerve, surgery for torticollis and spasticity, multiple pain procedures including percutaneous nerve stimulation, and secondary orthopedic reconstructions have been added. A whole section on nerve fundamentals was added and includes histology, electrodiagnostics, ultrasound, and magnetic resonance imaging. This edition will provide the reader with an even more comprehensive yet concise manual of the essentials of nerve surgery.

asis in anatomy: Applied Anatomy for Anaesthesia and Intensive Care Andy Georgiou, Chris Thompson, James Nickells, 2014-10-02 Concise anatomical text and descriptions of procedures are supported by high-quality, anatomical illustrations linked to clinical images.

asis in anatomy: Normal Ultrasound Anatomy of the Musculoskeletal System Enzo Silvestri, Alessandro Muda, Luca Maria Sconfienza, 2012-04-17 The book provides a comprehensive description of the ultrasound anatomy of the musculoskeletal system and clear guidance on the technique. Ultrasound images are coupled with anatomic pictures explaining probe positioning and scanning technique for the various joints of the musculoskeletal system: shoulder, elbow, hand and wrist, hip, knee, foot, and ankle. For each joint there is also a brief explanation of normal anatomy as well as a list of tricks and tips and advice on how to perform the ultrasound scan in clinical practice. This book will be an excellent practical teaching guide for beginners and a useful reference for more experienced sonographers.

asis in anatomy: Anatomy and Exposures of Spinal Nerves Amgad S. Hanna, 2015-04-23 This book is a comprehensive illustrated surgical guide to operative exposures of the spinal nerves, also known as peripheral nerves. Each chapter is devoted to a particular nerve and describes the origin, anatomic relations, branches, surgical approaches, and clinical significance. The text is

concise and easy to read and is complemented by informative color photos from cadaveric dissections and surgical procedures. A separate chapter on technical notes identifies surgical pearls relating to techniques such as nerve suturing and nerve transfers. Importantly, unlike other peripheral nerve atlases, this book is accompanied by videos of different approaches. The book will be especially valuable for residents and fellows in training and candidates for oral board and MOC examinations. It is also designed to provide a quick illustrated review for surgeons unfamiliar with a procedure. Most videos are less than 5 minutes long, and it should take less than 10 minutes to review each approach, including watching the video. *Anatomy and Exposures of Spinal Nerves* will effectively fill a gap caused by the absence of a peripheral nerve surgeon from many neurosurgery training programs.

asis in anatomy: *Dance Anatomy and Kinesiology* Karen Clippinger, 2023-10-04 Karen Clippinger's first two editions of *Dance Anatomy and Kinesiology* were hailed as the standard in the field. This third edition builds on that success by retaining its scientific perspective while making the material even more accessible to students and teachers and by bringing in a significant amount of new material. What's New? In an effort to further enhance learning, *Dance Anatomy and Kinesiology* offers a wealth of new material and tools to make this edition the best yet: Nearly 300 anatomical illustrations—now in full color to clearly show muscle movements and technique considerations, setting the book apart from others in its field A new introductory chapter to cover basic terminology all in one place A new recurring Understanding Check element that helps students demonstrate their grasp of the material before moving on An updated suite of online instructor and student ancillaries to support the text New interactive art and table activities that aid with identifying bones and muscles and learning muscle actions, delivered online through HKPropel More diverse dance styles addressed throughout the book and represented in photographs The instructor guide features a sample syllabus and course outline, chapter outlines, lab assignments, and sample tests. An expanded presentation package provides more PowerPoint slides and additional graphics, now in color, that reinforce each chapter's key points. In this edition, the number of slides has increased from 285 to more than 600, and the presentation package now contains over 100 photos. Through HKPropel, students have access to interactive Understanding Check activities, flash cards, practice quizzes with automatic feedback, and 19 video clips that demonstrate technique and offer correction guidance. The final chapter is revised to provide a summary and applications, including more practical content in the form of summary figures or tables for bones, joints, muscle actions, and alignment evaluation, as well as sample mat exercises for dance conditioning. And throughout the book, Clippinger has updated content to simplify, add more practical material, and share best practices for injury prevention and rehabilitation. Primary Focus The third edition of the book retains its emphasis on presenting the anatomical and kinesiological material that is essential for dancers to understand. The text includes descriptions of joint structure, key muscles, movement analysis, sample strength and flexibility exercises, common alignment problems, select joint mechanics, and special considerations for dance for each region of the body. The third edition still features the Concept Demonstration and Dance Cues special elements. The former provides movement experiences for dancers to better understand potentially difficult concepts, while the latter helps the dancer reflect on the anatomical basis of commonly used cues used in teaching dance technique. Empowers Instructors and Dancers This new edition of *Dance Anatomy and Kinesiology* will give teachers a clearer picture of the anatomical and kinesiological factors that aid in generating technique cues and identifying technique problems, and it will help them become more effective and empower dancers to realize their potential and artistic vision. Note: A code for accessing HKPropel is not included with this ebook but may be purchased separately.

asis in anatomy: *Diagnostic Ultrasound: Musculoskeletal - E-Book* James F. Griffith, 2025-03-08
Selected for 2025 Doody's Core Titles® in Radiologic Technology Develop a solid understanding of ultrasound and evolving musculoskeletal ultrasound practices with this multiple award-winning point-of-care reference in the popular *Diagnostic Ultrasound* series. Written by leading experts in the field, the third edition of *Diagnostic Ultrasound: Musculoskeletal* offers detailed, clinically

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asis in anatomy: *Anatomy Trains E-Book* Thomas W. Myers, 2020-03-19 Get a multi-dimensional understanding of musculoskeletal anatomy with *Anatomy Trains: Myofascial Meridians for Manual Therapists & Movement Professionals*, 4th Edition. This hugely successful, one-of-a-kind title continues to center on the application of anatomy trains across a variety of clinical assessment and treatment approaches — demonstrating how painful problems in one area of the body can be linked to a silent area away from the problem, and ultimately giving rise to new treatment strategies. This edition has been fully updated with the latest evidence-based research and includes new coverage of anatomy trains in motion using Pilates-evolved movement, anatomy trains in horses and dogs, and the updated fascial compendium on elements, properties, neurology, and origins of the fascial system. It also offers a new, larger library of videos, including animations and webinars with the author. In all, this unique exploration of the role of fascial in healthy movement and postural distortion is an essential read for physical therapists, massage therapists, craniosacral therapists, yoga instructors, osteopathologists, manual therapists, athletic and personal trainers, dance instructors, chiropractors, acupuncturists, and any professional working in the field of movement. - Revolutionary approach to the study of human anatomy provides a holistic map of myoanatomy to help improve the outcomes of physical therapies that are traditionally used to manage pain and other musculoskeletal disorders. - Relevant theory descriptions are applied to all common types of movement, posture analysis, and physical treatment modalities. - Intuitive content organization allows students to reference the concept quickly or gain a more detailed understanding of any given area according to need. - Section on myofascial force transmission in gait dynamics is written by guest author James Earls. - Robust appendices discuss the relevance of the Anatomy Trains concept to the work of Dr Louis Schultz (Meridians of Latitude), Ida Rolf (Structural Integration), and correspondences with acupuncture meridians. - New photos and images of fascial tissues, adhesions, and layers provide a better understanding of text content. - Revised and expanded content reflects the most up-to-date research and latest evidence for the scientific basis of common clinical findings. - New, larger library of videos includes animations and webinars with the author. - New Anatomy Trains in Motion section by guest author Karin Gurtner uses Pilates-evolved movement to explore strength and plasticity along myofascial meridians. - New addition: *Anatomy Trains in Quadrupeds* (horses and dogs) is mapped for equine and pet therapies by Rikke Schultz, DVM, Tove Due, DVM, and Vibeke Elbrønd, DVM, PhD. - New appendix: Updated fascial compendium on elements, properties, neurology, and origins of the fascial system. - NEW! enhanced eBook version is included with print purchase, which allows students to access all of the text, figures, and references from the book on a variety of devices.

asis in anatomy: The Secrets of Artistic Anatomy Yuki Toy, 2025-09-26 <p>Unlock the secrets of human anatomy through this engaging, richly illustrated guide that makes understanding the human form accessible, inspiring, and fun.</p> <p><i>The Secrets of Artistic Anatomy</i> transforms the complex world of human anatomy into an accessible, visually engaging, and fun learning experience. Written by accomplished artist and medical illustrator Yuki Toy, this book offers artists a unique approach to understanding the human form.</p> <p>Key features include:</p> • Comprehensive coverage of human anatomy • Full-color illustrations • Practical drawing techniques and tutorials for all skill levels • Fascinating anatomical trivia and insights • An entertaining, accessible, and lighthearted tone <p>Created for visual artists, animators, and design professionals, the book bridges technical anatomical knowledge with artistic expression. Toy doesn't just present information; she tells stories that make complex concepts approachable. Being both an expressive artist and a medical illustrator, Toy brings a unique combination of artistic skill and scientific precision as she explores the human body through detailed chapters on:</p> • The skeleton system and gestures • Arms, leg, and torso mechanics and muscle groups • Hands and feet details • Head and neck anatomy <p>Beautifully illustrated and packed with practical information, <i>The Secrets of Artistic Anatomy</i> is more than an instructional reference book—it's a journey into understanding the human body's remarkable design. Whether you're a student or a professional, this book will be a versatile resource for anyone fascinated by human anatomy.</p>

asis in anatomy: Classic Human Anatomy Valerie L. Winslow, 2008-12-23 After more than thirty years of research and teaching, artist Valerie Winslow has compiled her unique methods of drawing human anatomy into one groundbreaking volume: *Classic Human Anatomy*. This long-awaited book provides simple, insightful approaches to the complex subject of human anatomy, using drawings, diagrams, and reader-friendly text. Three major sections—the skeletal form, the muscular form and action of the muscles, and movement—break the material down into easy-to-understand pieces. More than 800 distinctive illustrations detail the movement and actions of the bones and muscles, and unique charts reveal the origins and insertions of the muscles. Packed with an extraordinary wealth of information, *Classic Human Anatomy* is sure to become a new classic of art instruction.

asis in anatomy: Merrill's Atlas of Radiographic Positioning and Procedures - E-Book Bruce W. Long, Jeannean Hall Rollins, Barbara J. Smith, 2015-01-01 With more than 400 projections presented, *Merrill's Atlas of Radiographic Positioning and Procedures* remains the gold standard of radiographic positioning texts. Authors Eugene Frank, Bruce Long, and Barbara Smith have designed this comprehensive resource to be both an excellent textbook and also a superb clinical reference for practicing radiographers and physicians. You'll learn how to properly position the patient so that the resulting radiograph provides the information needed to reach an accurate diagnosis. Complete information is included for the most common projections, as well as for those less commonly requested. UNIQUE! Collimation sizes and other key information are provided for each relevant projection. Comprehensive, full-color coverage of anatomy and positioning makes *Merrill's Atlas* the most in-depth text and reference available for radiography students and practitioners. Coverage of common and unique positioning procedures includes special chapters on trauma, surgical radiography, geriatrics/pediatrics, and bone densitometry, to help prepare you for the full scope of situations you will encounter. Numerous CT and MRI images enhance your comprehension of cross-sectional anatomy and help you prepare for the Registry examination. Bulleted lists provide clear instructions on how to correctly position the patient and body part when performing procedures. Summary tables provide quick access to projection overviews, guides to anatomy, pathology tables for bone groups and body systems, and exposure technique charts. Frequently performed projections are identified with a special icon to help you focus on what you need to know as an entry-level radiographer. Includes a unique new section on working with and positioning obese patients. Offers coverage of one new compensating filter. Provides collimation

sizes and other key information for each relevant projection. Features more CT and MRI images to enhance your understanding of cross-sectional anatomy and prepare you for the Registry exam. Offers additional digital images in each chapter, including stitching for long-length images of the spine and lower limb. Standardized image receptor sizes use English measurements with metric in parentheses. Depicts the newest equipment with updated photographs and images.

asis in anatomy: Kinetic Anatomy Robert S. Behnke, Jennifer Plant, 2021-07-06 This text teaches readers the vocabulary of human anatomy, describes the essentials of human anatomy for movement, and provides readers with the knowledge needed to pursue healthy living--

asis in anatomy: Merrill's Atlas of Radiographic Positioning and Procedures Bruce W. Long, Jeannean Hall Rollins, Barbara J. Smith, 2015-02-25 More than 400 projections make it easier to learn anatomy, properly position the patient, set exposures, and take high-quality radiographs! With Merrill's Atlas of Radiographic Positioning & Procedures, 13th Edition, you will develop the skills to produce clear radiographic images to help physicians make accurate diagnoses. It separates anatomy and positioning information by bone groups or organ systems - using full-color illustrations to show anatomical anatomy, and CT scans and MRI images to help you learn cross-section anatomy. Written by radiologic imaging experts Bruce Long, Jeannean Hall Rollins, and Barbara Smith, Merrill's Atlas is not just the gold standard in radiographic positioning references, and the most widely used, but also an excellent review in preparing for ARRT and certification exams! UNIQUE! Collimation sizes and other key information are provided for each relevant projection. Comprehensive, full-color coverage of anatomy and positioning makes Merrill's Atlas the most in-depth text and reference available for radiography students and practitioners. Coverage of common and unique positioning procedures includes special chapters on trauma, surgical radiography, geriatrics/pediatrics, and bone densitometry, to help prepare you for the full scope of situations you will encounter. Numerous CT and MRI images enhance your comprehension of cross-sectional anatomy and help you prepare for the Registry examination. Bulleted lists provide clear instructions on how to correctly position the patient and body part when performing procedures. Summary tables provide quick access to projection overviews, guides to anatomy, pathology tables for bone groups and body systems, and exposure technique charts. Frequently performed projections are identified with a special icon to help you focus on what you need to know as an entry-level radiographer. NEW! Coverage of the latest advances in digital imaging also includes more digital radiographs with greater contrast resolution of pertinent anatomy. NEW positioning photos show current digital imaging equipment and technology. UPDATED coverage addresses contrast arthrography procedures, trauma radiography practices, plus current patient preparation, contrast media used, and the influence of digital technologies. UPDATED Pediatric Imaging chapter addresses care for the patient with autism, strategies for visit preparation, appropriate communication, and environmental considerations. UPDATED Mammography chapter reflects the evolution to digital mammography, as well as innovations in breast biopsy procedures. UPDATED Geriatric Radiography chapter describes how to care for the patient with Alzheimer's Disease and other related conditions.

asis in anatomy: Surgical anatomy of the lateral transpsoas approach to the lumbar spine E-Book R. Shane Tubbs, Rod J. Oskouian Jr., Joe Iwanaga, Marc Moisi, 2019-11-20 Surgical anatomy of the lateral transpsoas approach to the lumbar spine E-Book

asis in anatomy: Dance Anatomy and Kinesiology, 2E Clippinger, Karen, 2015-11-09 Dance Anatomy and Kinesiology, Second Edition, retains its scientific perspective while offering greater accessibility to a wider audience. The streamlined approach makes the content more accessible in a single undergraduate course, and the text comes with a suite of online ancillaries.

asis 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.

asis in anatomy: Hip and Pelvis Injuries in Sports Medicine Carlos A. Guanche, 2012-03-28 Authored by the foremost experts in the field, this comprehensive clinical reference covers the diagnosis and treatment of hip and pelvis injuries seen in sports medicine practices. The book details the physical examination and radiology of the hip and pelvis and describes techniques for treating all the important problems encountered in athletes. Of special note is the thorough coverage of problems that occur before a hip replacement is needed. The book provides detailed information on hip intra-articular disease along with all of the bony and soft tissue injuries around the hip joint. Other conditions covered include stress fractures, adductor injuries, sports hernias, and hamstring injuries. Treatment methods described include both arthroscopic and open procedures. The book is profusely illustrated and includes color throughout.

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