

neuroanatomy through clinical cases second edition

Neuroanatomy Through Clinical Cases Second Edition: A Deep Dive into Learning Neuroanatomy

Neuroanatomy through clinical cases second edition has truly transformed the way medical students and healthcare professionals approach the complex subject of neuroanatomy. Instead of simply memorizing structures and pathways, this book invites readers to engage with the material through real-world clinical scenarios, making the learning process both practical and memorable. If you've ever struggled to connect the dots between intricate neural circuits and the symptoms patients present with, this resource could be a game-changer.

Why Neuroanatomy Through Clinical Cases Second Edition Stands Out

Neuroanatomy is notoriously challenging because it integrates detailed anatomy with physiology and pathology. The second edition of this book refines its unique approach by weaving clinical cases directly into the anatomy lessons, helping learners visualize how disruptions in specific neural structures manifest in patients.

One of the key strengths of this book is its ability to contextualize neuroanatomy. Rather than isolating the brain's components, it consistently ties anatomy to clinical relevance. This method not only boosts retention but also enhances diagnostic reasoning—skills crucial for neurologists, neurosurgeons, and even general practitioners.

Interactive Learning Through Case Studies

Each chapter in the second edition presents clinical cases that mirror real-world neurological problems. Readers are encouraged to analyze symptoms, interpret diagnostic imaging, and understand the anatomical basis for each condition. This case-based approach promotes active learning rather than passive reading.

For example, a case might describe a patient with sudden onset weakness on one side of the body. As you work through the case, you explore the motor pathways, the brainstem anatomy, and the vascular territories involved. This integration of clinical details with neuroanatomy makes abstract concepts tangible.

What's New in the Second Edition?

Building on the success of the first edition, the second edition includes updated content reflecting advances in neuroscience and neuroimaging. It also offers enhanced illustrations, clearer diagrams,

and additional clinical cases covering a broader range of neurological disorders.

Improved Visual Aids

Understanding neuroanatomy heavily relies on spatial visualization. The revised edition incorporates high-quality, detailed images that simplify complex structures without sacrificing accuracy. These include MRI and CT scans alongside traditional anatomical drawings, which help bridge the gap between textbook learning and clinical practice.

Expanded Coverage of Neurological Disorders

The second edition takes a deeper dive into conditions such as stroke, multiple sclerosis, and neurodegenerative diseases. By exploring a wider spectrum of pathologies, it better prepares readers for diverse clinical scenarios. The inclusion of recent research findings also ensures that learners are up to date with evolving diagnostic and treatment strategies.

Who Can Benefit the Most from This Resource?

While neuroanatomy through clinical cases second edition is primarily targeted at medical students, its utility extends far beyond. Neuroscience residents, neurologists, physical therapists, and even psychologists interested in brain function will find immense value in its case-driven approach.

Medical Students

For students, the challenge often lies in seeing the relevance of detailed neuroanatomy to clinical practice. This book bridges that gap by presenting clinical vignettes that reinforce why understanding anatomy matters. It's especially useful during neuroanatomy courses or when preparing for board exams that emphasize clinical application.

Healthcare Professionals

Practicing clinicians can use this book as a refresher or reference tool. The clinical cases provide quick insights into the anatomical underpinnings of neurological symptoms, which can aid in diagnostic accuracy or patient education. Moreover, therapists working with neurological patients can deepen their understanding of brain-behavior relationships.

Tips for Maximizing Learning with Neuroanatomy

Through Clinical Cases Second Edition

To get the most out of this book, consider the following strategies:

- **Active Reading:** Don't just passively read the cases; pause to think through the questions posed and attempt to solve the diagnostic puzzles before reading the explanations.
- **Use Supplementary Materials:** Pair the book with neuroanatomy atlases or 3D brain models to reinforce spatial understanding.
- **Discuss Cases with Peers:** Form study groups to debate clinical scenarios and share insights, which can deepen comprehension.
- **Relate to Clinical Rotations:** When on neurology or neurosurgery rotations, try to connect patient cases you encounter with the book's examples.
- **Regular Review:** Neuroanatomy requires repeated exposure; revisit challenging cases or concepts periodically to solidify memory.

Integrating Neuroimaging and Neuroanatomy: A Key Feature

One aspect that sets the second edition apart is its emphasis on correlating neuroanatomical structures with neuroimaging findings. The ability to read and interpret MRI and CT scans is crucial for modern neurological diagnosis, and this book effectively bridges textbook anatomy with real clinical images.

By examining scans presented alongside cases, readers learn to identify lesions and understand their functional implications. This approach helps demystify neuroimaging and builds confidence in clinical decision-making.

Understanding Lesion Localization

A common stumbling block in neuroanatomy is localizing lesions based on patient symptoms. The clinical cases guide readers step-by-step through the logic of lesion localization, discussing how damage to specific brain regions affects motor, sensory, or cognitive functions.

For instance, a case might involve a patient with homonymous hemianopia (loss of half the visual field), leading to an exploration of the optic tract and visual cortex anatomy. This practical application cements knowledge far better than rote memorization.

Bridging Basic Science and Clinical Practice

Neuroanatomy through clinical cases second edition shines by seamlessly blending foundational neuroscience with clinical neurology. This makes it an excellent bridge between preclinical education and hands-on patient care, which is often a difficult transition for learners.

By integrating neurophysiology, pathology, and anatomy within the framework of clinical presentations, the book prepares readers to think like clinicians while understanding the underlying science.

Enhancing Critical Thinking Skills

Rather than simply absorbing facts, readers are encouraged to analyze and synthesize information. This cultivates critical thinking—a vital skill in neurology where symptoms can be subtle or overlapping. The clinical reasoning process modeled in the book serves as a template for approaching complex neurological problems in real life.

Final Thoughts on Neuroanatomy Through Clinical Cases Second Edition

If you're seeking a resource that goes beyond traditional neuroanatomy textbooks, the second edition of neuroanatomy through clinical cases is well worth exploring. Its engaging case-based format, updated content, and integration of neuroimaging create a rich learning experience. Whether you are a student aiming to excel in exams or a healthcare professional wanting to deepen your neuroanatomical knowledge, this book offers a practical and insightful guide to the brain's complexities.

Frequently Asked Questions

What are the main updates in the second edition of 'Neuroanatomy through Clinical Cases'?

The second edition includes updated clinical cases, enhanced imaging examples, revised neuroanatomical illustrations, and new content reflecting the latest advances in neuroanatomy and clinical neuroscience.

How does 'Neuroanatomy through Clinical Cases, Second Edition' help in understanding clinical neuroanatomy?

The book uses real clinical cases to illustrate neuroanatomical concepts, bridging the gap between theoretical knowledge and practical clinical application, which aids in better retention and understanding.

Who is the target audience for 'Neuroanatomy through Clinical Cases, Second Edition'?

The primary audience includes medical students, residents, neurologists, neurosurgeons, and other healthcare professionals interested in neuroanatomy and its clinical relevance.

Does the second edition of 'Neuroanatomy through Clinical Cases' include imaging studies?

Yes, the second edition incorporates enhanced imaging studies such as MRI and CT scans alongside clinical cases to help readers correlate neuroanatomical structures with imaging findings.

Are there any supplementary resources available with 'Neuroanatomy through Clinical Cases, Second Edition'?

Typically, the book offers supplementary online resources including quizzes, additional case studies, and interactive content to reinforce learning, though availability can vary by publisher.

Additional Resources

Neuroanatomy Through Clinical Cases Second Edition: A Comprehensive Review

neuroanatomy through clinical cases second edition stands as a pivotal resource in medical education, uniquely blending detailed neuroanatomical knowledge with real-world clinical applications. Since its initial publication, this textbook has garnered acclaim for its integrative approach, making the complexities of neuroanatomy accessible and relevant to medical students, residents, and practicing clinicians. The second edition continues this tradition, updating content to reflect advances in neuroscience while maintaining the clinical case-based methodology that distinguishes it from conventional anatomy texts.

In-depth Analysis of Neuroanatomy Through Clinical Cases Second Edition

Unlike traditional neuroanatomy textbooks that often focus solely on structural details, the second edition of *Neuroanatomy Through Clinical Cases* emphasizes the clinical relevance of anatomical knowledge. This approach is particularly valuable in bridging the gap between theoretical learning and practical diagnosis or treatment. Through carefully curated patient cases, the text invites readers to apply anatomical principles in the context of neurological symptoms, imaging findings, and pathophysiology.

One of the defining features of this edition is its comprehensive coverage of central and peripheral nervous system anatomy, enriched with high-quality illustrations and radiological images. These visuals are not merely supplementary but integral to understanding, facilitating spatial comprehension that is crucial for interpreting neuroimaging and clinical presentations. The integration of MRI and CT scans alongside anatomical diagrams enhances the learner's ability to

correlate neuroanatomical structures with clinical findings.

Updated Clinical Cases and Content

The second edition reflects significant updates from the first, incorporating new clinical cases that address emerging neurological conditions and diagnostic techniques. These cases cover a spectrum of disorders, from common pathologies like stroke and multiple sclerosis to rarer conditions such as brainstem syndromes and neurodegenerative diseases. Each case is presented with a patient history, neurological examination findings, diagnostic workup, and a discussion section that elucidates the underlying anatomy and clinical reasoning steps.

This edition also integrates advances in neuroimaging, acknowledging the increasing role of functional MRI and diffusion tensor imaging in clinical practice. Such inclusions are critical for learners aiming to stay current with modern diagnostic modalities. The text's emphasis on clinical reasoning and diagnostic problem-solving ensures that students develop not just rote memorization of anatomical facts but analytical skills necessary for patient care.

Pedagogical Strengths and Structure

The book's layout is thoughtfully designed for progressive learning. Each chapter begins with fundamental neuroanatomical concepts before delving into relevant clinical cases. This structure supports both novice learners needing foundational knowledge and more advanced readers seeking to deepen their clinical understanding. The use of summary tables, mnemonics, and review questions at chapter ends enhances retention and self-assessment.

Additionally, the inclusion of "Clinical Reasoning" sections encourages readers to think critically about patient presentations. These narrative elements simulate real-life diagnostic challenges, prompting learners to synthesize information and justify their clinical decisions. This pedagogical strategy aligns with current trends in medical education, which prioritize active learning and critical thinking.

Comparative Insights: Neuroanatomy Through Clinical Cases Versus Other Texts

When compared with other leading neuroanatomy textbooks such as "Gray's Anatomy" or "Netter's Atlas of Human Neuroscience," Neuroanatomy Through Clinical Cases second edition distinguishes itself through its clinical integration. While traditional texts excel in detailed anatomical illustrations and exhaustive descriptions, they often lack the contextual application that clinical cases provide. This makes the second edition particularly appealing for students preparing for clinical rotations or board exams where applied knowledge is paramount.

Conversely, some specialized neuroanatomy guides focus extensively on microscopic anatomy or neurophysiology but may not bridge these topics with clinical scenarios. The second edition's holistic approach, combining macro- and micro-anatomy with clinical correlations, offers a balanced

perspective that supports comprehensive learning.

Pros and Cons of the Second Edition

- **Pros:**

- Integration of clinical cases enhances practical understanding.
- High-quality illustrations and radiological images improve spatial learning.
- Updated content reflects recent advances in neuroimaging and neurology.
- Structured pedagogy supports learners at multiple levels.
- Encourages critical thinking through clinical reasoning exercises.

- **Cons:**

- Some readers may find the clinical cases complex without prior neuroanatomical background.
- The volume and density of information may be overwhelming for beginners.
- Limited focus on microscopic anatomy compared to dedicated neurohistology texts.

Relevance for Various Audiences

The utility of *Neuroanatomy Through Clinical Cases* second edition extends beyond medical students. Neurology residents, neurosurgery trainees, and allied health professionals involved in neurorehabilitation or radiology will find the cases and discussions valuable for honing diagnostic acumen. Furthermore, the book serves as an effective review tool for board examinations in neurology, neurosurgery, and physical medicine.

For educators, the clinical case format offers a dynamic teaching aid that can supplement lectures and small-group discussions. The cases can be used as prompts for problem-based learning sessions, fostering interactive engagement with the material.

Integration with Digital Resources

Recognizing the evolving landscape of medical education, the second edition is often accompanied by digital supplements, including online question banks and interactive case studies. These resources reinforce learning and provide opportunities for self-testing. The multimedia components, such as 3D neuroanatomy models and video lectures, cater to diverse learning preferences and enhance student engagement.

Conclusion: An Evolving Benchmark in Neuroanatomical Education

Neuroanatomy Through Clinical Cases second edition represents a significant advancement in the teaching and learning of neuroanatomy. By weaving clinical cases seamlessly with anatomical detail, it addresses the practical needs of contemporary medical education. Its balanced content, updated clinical relevance, and pedagogical innovations make it a standout resource for those seeking to master the complex but fascinating field of neuroanatomy.

As neurological sciences continue to evolve with technological and diagnostic innovation, resources like this second edition will remain crucial for training clinicians who must integrate anatomy, pathology, and patient care in their everyday practice.

[Neuroanatomy Through Clinical Cases Second Edition](#)

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neuroanatomy through clinical cases second edition: EPPP Fundamentals, Step One, Second Edition Anne L. Klee, Bret A. Moore, 2018-09-28 Aimed at helping students master the final hurdle to becoming a licensed, certified psychologist, the second edition of this authoritative content review for the EPPP is expanded to include 20% more content, the DSM-5, contributions from esteemed new authors, and an easily navigable mobile APP to enhance test-taking skills. Additional practice questions, along with well-honed test-taking strategies, further facilitate exam success. Written by expert professors, training directors, and practitioners in each subject area, this affordable resource includes over 320 sample questions in the eight content areas that will be included on the exam. The guide goes beyond merely “teaching the test” with rote memorization by addressing content in a stepwise, narrative, and review format. Questions are included at the end of each chapter to help students gauge mastery of all subject matter. New to the Second Edition: Expanded with 20% more content Includes detailed and updated diagnostic criteria from DSM-5

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neuroanatomy through clinical cases second edition: A Practical Approach to Neurophysiologic Intraoperative Monitoring, Second Edition Aatif M. Husain, 2014-12-11
“Because of its direct clinical applications, this is a good purchase for any neurological and neurosurgical library.” – Doody’s Reviews
“I would certainly recommend [this book] to any technologist who monitors in the operating room.” – American Journal of Electroneurodiagnostic Technology
This is a fundamental resource for physicians, technologists, and other health professionals who need to acquire state-of-the-art skills in neurophysiologic intraoperative monitoring (NIOM). It covers basic aspects of monitoring, describes the clinical and technical requirements for monitoring specific types of surgeries, and addresses the administrative aspects of running an NIOM service. The second edition has been updated to incorporate the vast amount of new information and techniques that have evolved since the publication of the first edition. This includes expanded coverage of each of the modalities used in monitoring (SEP, MEP, BAEP, EEG, and EMG) which are now discussed in individual chapters, training curriculum for neurophysiologists and technologists, policies and procedures for NIOM labs, and accreditation and certification. New applications and clinical innovations are interwoven throughout, and there is a completely new chapter on the use of NIOM in movement disorders surgery. Of value to practitioners at any level of experience, the book is now divided into three sections. The first section, Basic Principles, introduces the reader to the operating room environment, anesthetic considerations, and the various monitoring modalities. The second section, Clinical Methods, reviews the use of NIOM in specific types of surgeries. Many of these chapters are co-written by a neurophysiologist and technologist and present an overview of the particular surgery, relevant anatomy, monitoring modalities, data interpretation, warning criteria and technical considerations. A unique third section, Administrative Issues, has been added to this edition to address technical aspects of NIOM machines, remote monitoring, billing, ethical and legal issues, and training requirements for physicians and technologists. The final two chapters are devoted to setting up and maintaining an NIOM service and include sample policies and procedures. Key Features: Provides a wealth of current information on NIOM for day-to-day case management
Covers all modalities and practical applications of NIOM for specific surgeries
Contains detailed information on training, setup, billing, equipment, lab protocols, and running a service
Appeals to NIOM providers at every level
Combines the perspectives of physicians and technologists who together author surgical chapters

neuroanatomy through clinical cases second edition: McLean EMG Guide, Second Edition Samuel Chu, Prakash Jayabalan, Christopher J. Visco, 2019-04-10
Revised, updated, and expanded second edition of the premier learning guide for residents, McLean EMG Guide emphasizes skills and concepts required for success in mastering basic electrodiagnostic techniques. This step-by-step approach to performing and interpreting EMG and nerve conduction studies will prepare trainees, fellows, and attendings to meet the challenges encountered in daily practice with confidence. The book is broken into short formatted chapters covering instrumentation, basic nerve conduction and needle EMG techniques, interpretation, applications for common clinical problems, and a new chapter on ultrasound. The procedures are laid out as illustrated tables with specifics for lead placement, stimulation, sample waveforms, and photographs to guide electrodiagnostic set-ups. Clinical presentation, anatomy, recommended studies, normal values, pearls and tips, and key

findings are presented throughout in bulleted text for a thorough, more focused guidebook. Multiple choice questions and answers with rationales reinforce learning for those wishing to review concepts through self-guided assessment. Key Features Updates to all chapters with new figures and diagrams and more multiple-choice questions with answers Brand new chapter on the use of ultrasound with electrodiagnosis Checklists with key steps and takeaways for each study Clear, easy-to-understand tables and photos illustrate each set-up and study Codifies what you need to know to make a diagnosis in the EMG laboratory Print purchase includes on-line access to the full contents for mobile or desktop use

neuroanatomy through clinical cases second edition: *Basic Human Neuroanatomy: A Clinically Oriented Atlas* Craig Watson, 2012 The sixth edition of this popular neuroanatomy atlas retains valuable features of prior editions: low cost and presentation of clinically relevant material in a manner conducive to self-study and review. The book has four parts. The first is a review of the organization of the nervous system, emphasizing the cranial nerves. The second is a summary of the neuroanatomical pathways with accompanying diagrams. The third summarizes the vasculature of the CNS, supplemented by illustrations of the arteries and veins with angiograms placed opposite the illustrations. The fourth is an atlas of the human brain and spinal cord with CT and MRI scans placed opposite the brain sections. With this edition, Basic Human Neuroanatomy becomes essentially an electronic book, although it remains available in print. This allows most of the figures to be in color, and the book to be loaded onto any device that can display a PDF file. An associated website features additional learning material.

neuroanatomy through clinical cases second edition: *The Pocketbook for PACES* Rupa Bessant, 2012-05-31 This book provides an easily portable yet comprehensive guide to the PACES examination. It includes all of the most relevant clinical information for the PACES exam supplemented by tips supplied by the highly experienced chapter authors. The main aim of the book is to consolidate candidates' theoretical knowledge and help them apply it to the clinical examination scenario. In addition the book forms an excellent pocket reference for trainees in acute medicine, accident and emergency medicine, anaesthetics and critical care and general practice.

neuroanatomy through clinical cases second edition: *From the Ground Up* Theo St. Francis, Stephanie Comella, 2020-02-25 Every individual who endures a spinal cord injury leaves the hospital thinking the same thing: Now what? There is no agreed-upon protocol, or even set of best-practices, for how to reconnect a paralyzed body. Drawing from movement disciplines not usually associated with paralysis recovery, the authors, Theo St. Francis and Stephanie Comella, apply the science of biotensegrity and the innate capacity of the body to heal itself to the challenge of neurological reconnection. With fully-illustrated exercise descriptions, this clinical perspective is written for both those recovering from spinal cord injury and for their movement trainers. From the Ground Up is an in-depth exploration of how to claim ownership of the recovery journey, both inside and out.

neuroanatomy through clinical cases second edition: *Medical Neuroanatomy for the Boards and the Clinic* Jonathan Leo, 2022-01-01 This book provides medical students with the information to build skills that will aid them in studying for any level of their board exams. It also prepares students with the ability to look at a patient's neurological signs and symptoms, logically think through the various tracts, and determine where a lesion is located. Unique and comprehensive, this textbook specifically fills a gap in the literature for medical students studying for their board exams and those about to go on a neuro-related rotation. Written by a renowned professor with over 25 years of teaching experience specific to board exam preparation, chapters are crafted with the goal of aiding students in understanding concepts by explaining the reasoning behind signs and symptoms, rather than pure memorization. Medical Neuroanatomy for the Boards and the Clinic is the go-to book for students seeking a practical yet nuanced reference for board exam preparation.

neuroanatomy through clinical cases second edition: *The Integrated Nervous System* Walter J. Hendelman, Peter Humphreys, Christopher R. Skinner, 2017-07-12 This innovative

textbook is modelled on problem-based learning. It bridges the gap between academic neuroanatomy and clinical neurology and effectively takes the reader from the classroom to the clinic, so that learning can be applied in practice. This second edition has been updated and expanded to include many more clinical cases within both the book and the accompanying Web site. This book and the associated Web site will be of practical value to all the professionals who deal with people who have neurological conditions, as well as being invaluable to medical students and residents. This includes physiatrists (rehabilitation medicine specialists), physiotherapists, occupational therapists and speech therapists, and nurses who specialize in the care of neurological patients. We think that this text will also be of value for family physicians and specialists in internal medicine and pediatrics, all of whom must differentiate between organic pathology of the nervous system and other conditions.

neuroanatomy through clinical cases second edition: Gray's Anatomy For Students

Raveendranath Veeramani, Sunil Jonathan Holla, 2019-06-20 Gray's Anatomy for Students is a clinically oriented, student-friendly textbook of human anatomy. It allows students to learn anatomy within the context of many different curricular designs, and within ever-increasing time constraints. The artwork in this textbook presents the reader with a visual image that brings the text to life and presents views that will assist in the understanding and comprehension of the anatomy. - Each regional anatomy chapter consists of four consecutive sections: conceptual overview, regional anatomy, surface anatomy, and clinical cases. - The Second South Asia Edition of this textbook has two volumes: Volume One—The Body, Upper Limb, Lower Limb, Abdomen, Pelvis and Perineum; and Volume Two—Thorax, Back, Head and Neck, and Neuroanatomy. - New content has been added on the basis of updates in the Fourth International Edition, including the addition of a new chapter on neuroanatomy. - The innovative features of the First South Asia Edition such as Set Inductions, Outlines, and Flowcharts have been improved. - Students are encouraged to use online resources available on MedEnact. - A unique feature of this edition is that each chapter contains line diagrams, abbreviated as LDs, along with questions and answers. These line diagrams are sketches which are easy to draw during an examination and can help students to acquire anatomical concepts and do well in assessment. The questions and answers facilitate learning. - Competencies have been added in all the chapters since the curriculum is becoming competency based.

neuroanatomy through clinical cases second edition: Clinical Neuroscience for

Communication Disorders Margaret Lehman Blake, Jerry K. Hoepner, 2025-09-02 Clinical Neuroscience for Communication Disorders: Neuroanatomy and Neurophysiology, Second Edition offers a comprehensive and easy-to-understand introduction to neuroscience for undergraduates and beginning graduate students in the field of communication disorders. Designed with student learning in mind, this textbook introduces the neurologic underpinnings of systems involved in communication (speech, language, cognition, and hearing) and swallowing, from the nervous system to the anatomy of the head and neck. A highly readable writing style makes abstract and complex material accessible to students and provides just the right amount of information to challenge yet not overwhelm students. What sets this book apart is the extensive infusion of clinical application. Each chapter begins by tying the content to the everyday clinical applications for speech-language pathologists, audiologists, and related professionals and includes clinical cases to illustrate neural functions. In addition to coverage of the main systems, this text contains chapters devoted to neuroplasticity, communication, and cognition to move beyond basic anatomy to the key principles of contemporary neuroscience and application of the concepts discussed. Additionally, explicit connections are drawn between cranial nerves, the oral mechanism examination, and clinical swallowing assessment. The clinical cases cover a variety of both pediatric and adult scenarios designed to highlight the interconnectedness of neural systems and the complexity of neurologically-based communication disorders. The cases span the breadth of clinical practice—developmental and acquired disorders, pediatric and adult cases, and disorders of speech, language, cognition, and hearing—and are cross-referenced with each of the other chapters for improved understanding. New to the Second Edition: 50 new and revised illustrations Glossary of

definitions and etymologies of the bolded words in the text Learning objectives at the beginning of each chapter New content on health disparities Class activities for instructors Learning packets and study guides for students Key Features: More than 150 customized illustrations solidify connections between anatomy and physiology Clinical cases throughout the text and expanded versions of the cases in a stand-alone chapter illustrate clinical relevance of neuroanatomy and neurophysiology Bolded keywords highlight foundational concepts and terminology Boxes throughout the text offer an opportunity for applying learning through applications, exercises, glossaries of key terms, and clinical cases End-of-chapter summaries provide an overview of the key concepts within the chapter in plain language A bulleted list of key concepts concludes each chapter to reinforce learning outcomes References and further reading augment student learning Please note: Ancillary materials such as Study Guides, Activities/Exercises, and Case Studies are not included as with the print version of this book.

neuroanatomy through clinical cases second edition: Essential Clinical Neuroanatomy

Thomas H. Champney, 2015-06-12 Essential Clinical Neuroanatomy is an accessible introduction to regional and functional neuroanatomy, which cuts through the jargon to help you engage with the key concepts. Beautifully presented in full color, with hundreds of annotated illustrations and images, Essential Clinical Neuroanatomy begins with an introductory section on the regional aspects of the topic, then discusses each structure in detail in relation to function. Clinical examples are provided throughout, to reinforce the concepts learned and highlight their clinical relevance. Essential Clinical Neuroanatomy: Features a dedicated chapter on the use of imaging studies used in clinical neuroanatomy, including how to evaluate these images Highlights topics important to clinical medicine, but often neglected in other neuroanatomy texts, such as trauma, infection and congenital considerations All illustrations and images are oriented in the clinical view, so the correlation between drawings, photomicrographs and clinical imaging is standardized and there is a seamless transition between illustrations containing basic neuroanatomical information and the relevant clinical imaging The functional aspects of neuroanatomical structures are color-coded (green = sensory; red = motor; purple = autonomic), so that structure to function relationships can be more easily learned and retained Includes self-assessment and thought questions in every chapter Supported by a companion website at wileyessential.com/neuroanatomy featuring fully downloadable images, flashcards, and a self-assessment question bank with USMLE-compatible multiple-choice questions Essential Clinical Neuroanatomy is the perfect resource for medical and health science students taking a course on neuroanatomy, as part of USMLE teaching and as an on-going companion during those first steps in clinical practice.

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