

## CHAPTER 21: DRUGS FOR NEUROMUSCULAR DISORDERS

### ★ **CENTRALLY ACTING MUSCLE RELAXANTS**

- *CYCLOBENZAPRINE (AMRIX, FLEXERIL)*

### ★ **DIRECT ACTING ANTIPASMODICS**

- *DANTROLENE SODIUM (DANTRIUM)*
- *NONDEPOLARIZING BLOCKERS*
- *DEPOLARIZING BLOCKERS*

### BODY SYSTEMS CONTRIBUTING TO MUSCLE MOVEMENTS

- *NERVOUS, MUSCULAR, ENDOCRINE & SKELETAL SYSTEMS ARE ALL INVOLVED IN MOVEMENT!*
  - *THIS MAKES MOVEMENT DISORDERS VERY DIFFICULT TO TREAT.*
  - *BODY MOVEMENT DEPENDS ON INTACT NEURAL PATHWAYS, PROPER FUNCTIONING OF MUSCLES, BONES, JOINTS WHICH IN TURN DEPEND ON MINERALS IN THE BLOODSTREAM LIKE SODIUM, POTASSIUM & CALCIUM.*

### NON-PHARMACOLOGICAL THERAPY TO TREAT MUSCLE SPASMS/SPASTICITY

**MUSCLE SPASMS-** INVOLUNTARY CONTRACTIONS OF MUSCLE OR GROUP OF MUSCLES. TONIC (SINGLE PROLONGED CONTRACTION) OR CLONIC (MULTIPLE RAPIDLY REPEATING CONTRACTIONS)

**SPASTICITY-** MUSCLE GROUPS REMAIN IN STATE OF CONTRACTION, USUALLY FROM CNS DAMAGE. MUSCLES BECOME STIFF WITH INCREASED MUSCLE TONE.

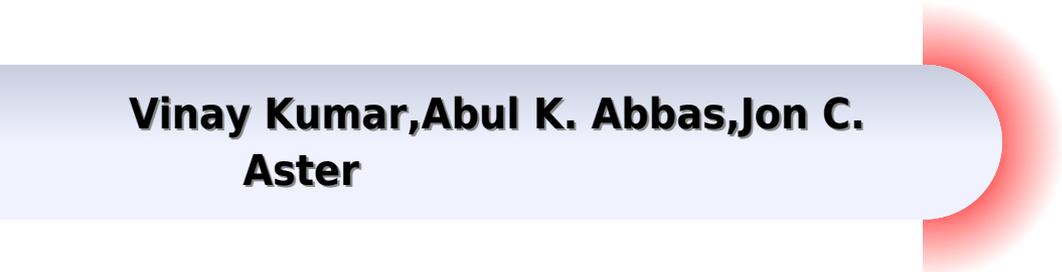
- *SIGNS/SYMPTOMS= MILD → SEVERE PAIN; EXAGGERATED DEEP TENDON REFLEXES; MUSCLE SPASMS; SCISSORING (INVOLUNTARY CROSSED LEGS); FIXED JOINTS.*

<b>NON PHARMACOLOGICAL TX FOR SPASTICITY</b>
<i>1. MUSCLE STRENGTHENING TO PREVENT CONTRACTURES</i>
<i>2. MUSCLE GROUP STRENGTHENING EXERCISES</i>
<i>3. REPETITIVE MOTION EXERCISES FOR IMPROVEMENT OF ACCURACY</i>
<i>4. EXTREME CASES SURGERY TO RELEASE TENDONS/ OR SEVER THE NERVE-MUSCLE PATHWAY</i>

<b>NON-PHARMACOLOGICAL TX FOR MUSCLE SPASMS</b>
<i>1. IMMOBILIZATION OF AFFECTED MUSCLE</i>
<i>2. APPLY HEAT OR COLD</i>
<i>3. HYDROTHERAPY</i>
<i>4. THERAPEUTIC ULTRASOUND</i>
<i>5. SUPERVISED EXERCISES</i>
<i>6. MASSAGE</i>
<i>7. MANIPULATION</i>

# Chapter 21 Neuromuscular System Disorders

**Vinay Kumar, Abul K. Abbas, Jon C.  
Aster**



## **Chapter 21 Neuromuscular System Disorders:**

**Robbins Basic Pathology** Vinay Kumar, Abul K. Abbas, Jon C. Aster, 2013-01-01 This medical textbook's unbeatable author team helps you efficiently master the core concepts you need to know for your courses and USMLE exams. New interior design with a more modern look. Artwork revised and updated for a more modern look and more three-dimensional feel. Targeted Therapy boxes included provides clinical information on appropriate therapy related to the disease under discussion. All photomicrographs and gross photos reviewed and improved to ensure excellent quality.

**Crash Course Neurology and Ophthalmology - E-BOOK** Rubika Balendra, Lakhan Ajmeria, 2024-03-09 Crash Course your effective every day study companion PLUS the perfect antidote for exam stress. Save time and be assured you have the essential information you need in one place to excel on your course and achieve exam success. A winning formula now for over 25 years having sold over 1 million copies and translated in over 8 languages each series volume has been fine-tuned and fully updated with a full colour layout tailored to make your life easier. Especially written by senior students or junior doctors those who understand what is essential for exam success with all information thoroughly checked and quality assured by expert Faculty Advisers the result is books that exactly meet your needs and you know you can trust. Each chapter guides you succinctly through the full range of curriculum topics in the UKMLA syllabus integrating clinical considerations with the relevant basic science and avoiding unnecessary or confusing detail. A range of text boxes help you get to the hints, tips and key points you need fast. A fully revised self-assessment section matching the latest exam formats is included to check your understanding and aid exam preparation. The accompanying enhanced downloadable eBook completes this invaluable learning package. Series volumes have been honed to meet the requirements of today's medical students although the range of other health students and professionals who need rapid access to the essentials of neurology and ophthalmology will also love the unique approach of Crash Course. Whether you need to get out of a fix or aim for a distinction Crash Course is for you. Crash Course Neurology and Ophthalmology For UKMLA and Medical Exams Sixth Edition integrates ophthalmology into the popular neurology title combining two interconnecting fields in one thorough overview. It serves as an invaluable revision resource for medical finals. Additionally this new edition includes essential chapters on neurological emergencies and functional neurological disorders along with the latest updates on neurology guidelines. Fully aligned to UKMLA requirements with key conditions and presentations highlighted in handy checklists save valuable revision time and be confident you have the syllabus covered. Written by senior students and recent graduates those closest to what is essential for exam success. Quality assured by leading Faculty Advisors ensures complete accuracy of information. Features the ever-popular Hints and Tips boxes and other useful aide m moires distilled wisdom from those in the know. Updated self-assessment section matching the latest exam formats confirm your understanding and improve exam technique fast.

**Clinical Neurophysiology** Devon I. Rubin, Jasper R. Daube, 2016 A summary of all aspects of clinical neurophysiology. The text reviews the basics before considering the

assessment of diseases by anatomical system and going on to explain how clinical neurophysiologic techniques are used in the clinical assessment of diseases of the nervous system

**Egan's Fundamentals of Respiratory Care** Donald F. Egan, Craig L. Scanlan, Robert L. Wilkins, James K. Stoller, 1999 The 10th Edition of this text delivers a comprehensive introduction to the field of respiratory care including the latest advances and trends in professional practice today This new edition explains the role of respiratory therapists RTs scientific bases for treatment and clinical applications In depth discussions progress from the principles of respiratory care to applied anatomy and physiology patient assessment discussion of specific respiratory illnesses basic therapy acute and critical care and preventive and long term care For use in preparation for the NBRC examination From back cover

Harrison's Principles of Internal Medicine 20/E (Vol.1 & Vol.2) (ebook) Dennis L. Kasper, Anthony S. Fauci, Stephen L. Hauser, Dan L. Longo, J. Larry Jameson, Joseph Loscalzo, 2018-02-06 Publisher's Note There is a new edition of Harrison's Principles of Internal Medicine The 21st edition contains the most timely and comprehensive updates from the world's top experts MASTER MODERN MEDICINE Introducing the Landmark Twentieth Edition of the Global Icon of Internal Medicine The definitive guide to internal medicine is more essential than ever with the latest in disease mechanisms updated clinical trial results and recommended guidelines state of the art radiographic images therapeutic approaches and specific treatments hundreds of demonstrative full color drawings and practical clinical decision trees and algorithms Recognized by healthcare professionals worldwide as the leading authority on applied pathophysiology and clinical medicine Harrison's Principles of Internal Medicine gives you the informational foundation you need to provide the best patient care possible Essential for practice and education the landmark 20th Edition features Thoroughly revised content covering the many new breakthroughs and advances in clinical medicine that have occurred since the last edition of Harrison's Chapters on acute and chronic hepatitis management of diabetes immune based therapies in cancer multiple sclerosis cardiovascular disease HIV and many more deliver the very latest information on disease mechanisms diagnostic options and the specific treatment guidance you need to provide optimal patient care State of the art coverage of disease mechanisms Harrison's focuses on pathophysiology with rigor and with the goal of linking disease mechanisms to treatments Improved understanding of how diseases develop and progress not only promotes better decision making and higher value care but also makes for fascinating reading and improved retention Harrison's summarizes important new basic science developments such as the role of mitochondria in programmed and necrotic cell death the immune system's role in cancer development and treatment the impact of telomere shortening in the aging and disease processes and the role of the microbiome in health and disease Understanding the role of inflammation in cardiovascular disease the precise mechanisms of immune deficiency in HIV AIDS prions and misfolded proteins in neurodegenerative diseases and obesity as a predisposition to diabetes are just a few examples of how this edition provides essential pathophysiology information for health professionals All new sections covering a wide range of new and emerging areas of

vital interest to all healthcare professionals New sections include Sex and Gender based Issues in Medicine Obesity Diabetes Mellitus and Metabolic Syndrome and Consultative Medicine Plus a new Part covering cutting edge topics in research and clinical medicine includes great new chapters on the role of Epigenetics in Health and Disease Behavioral Strategies to Improve Health Genomics and Infectious Diseases Emerging Neuro Therapeutic Technologies and Telomere Function in Health and Disease and Network System Medicine Important and timely new chapters such as Promoting Good Health LGBT Health Systems of Healthcare Approach to Medical Consultation Pharmacogenomics Antimicrobial Resistance Worldwide Changes in Patterns of Infectious Diseases Neuromyelitis Optica and more offer the very latest definitive perspectives on must know topics in medical education and practice Updated clinical guidelines expert opinions and treatment approaches from world renowned editors and authors contribute to the accuracy and immediacy of the text material and pres

*Pharmacology and Physiology for Anesthesia E-Book* Hugh C. Hemmings, Talmage D. Egan, 2018-10-19 Pharmacology and physiology are the foundation of every anesthesia provider's training and clinical competency Pharmacology and Physiology for Anesthesia Foundations and Clinical Application 2nd Edition delivers the information you need in pharmacology physiology and molecular cellular biology keeping you current with contemporary training and practice This thoroughly updated edition is your one stop comprehensive overview of physiology and rational anesthetic drug selection and administration perfect for study review and successful practice Contains new chapters on Special Populations anesthetic pharmacology in obesity geriatrics and pediatrics Oral and Non IV Opioids Thermoregulation Physiology and Pharmacology of Obstetric Anesthesia Chemotherapeutic and Immunosuppressive Drugs and Surgical Infection and Antimicrobial Drugs Incorporates entirely new sections on Physics Anatomy and Imaging Includes new information on consciousness and cognition pharmacodynamics the immune system and anti inflammatory drugs Features user friendly tables figures and algorithms including 100 new illustrations all presented in full color and designed to help explain complex concepts Helps you understand the molecular mechanism of drug actions and identify key drug interactions that may complicate anesthesia with dedicated sections on these areas Expert Consult™ eBook version included with purchase which allows you to search all of the text figures and references from the book on a variety of devices Pilbeam's Mechanical Ventilation J M Cairo, PhD, RRT, 2015-10-13 Learn everything you need to safely and compassionately care for patients requiring ventilator support with Pilbeam's Mechanical Ventilation Physiological and Clinical Applications 6th Edition Known for its simple explanations and in depth coverage of patient ventilator management this evidence based text walks readers through the most fundamental and advanced concepts surrounding mechanical ventilation and guides them in properly applying these principles to patient care This new edition features a completely revised chapter on ventilator graphics additional case studies and clinical scenarios plus all the reader friendly features that promote critical thinking and clinical application like key points AARC clinical practice guidelines and critical care concepts that have helped make this text a household name

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Diseases of the nervous system, Psychiatry Frederick Tice,1975

Critical Thinking in Respiratory Care Shelley C. Mishoe,2001-06 This basic text teaches respiratory therapy content in a framework that promotes students decision making skills The problem based learning approach relies on clinical cases and a systematic method in which students may develop a deep and broad understanding of respiratory care content on sound clinical decision making Topics covered include communication and negotiation skills patient assessment and writing care plans patient education and ethical and cost considerations

Diseases of the Nervous System in Childhood Jean Aicardi,2009-03-16 This new edition is comprehensively updated whilst retaining both the popular problem solving approach and its familiar organisation and style Notable advances receive careful coverage from molecular genetics and imaging technology to new diseases and important treatment developments

Correlative Neuroanatomy and Functional Neurology Joseph G. Chusid,Joseph John McDonald,1956

**Nelson Textbook of Pediatrics** Waldo Emerson Nelson,Richard E. Behrman,Robert Kliegman,1992 Discussing in detail the field of pediatrics this book covers sections on topics such as ethics AIDS drug differentiations and pathologic tests

**Essentials of Clinical Pharmacology in Nursing** Bradley R. Williams,Charold Lee Morris Baer,1998 Concise presentation of basic pharmacologic information for the student Units 1 and 2 address fundamentals of pharmacology and drug administration Units 3 16 group drugs by therapeutic classification with each chapter covering pharmacokinetics pharmacodynamics pharmacotherapeutics adverse drug reactions and nursing process steps in administering drugs Additional chapters cover dosage measurements and calculations administration routes and techniques uncategorized drugs and more Disk has questions and exercises for self study

**Handbook of Pediatrics**

Henry K. Silver, C. Henry Kempe, Henry B. Bruyn, 1983      Correlative Neuroanatomy & Functional Neurology, 1962  
**Correlative Neuroanatomy and Functional Neurology** Joseph J. McDonald, Joseph G. Chusid, 1962      **Metabolic and Deficiency Diseases of the Nervous System** P. J. Vinken, G. W. Bruyn, Harold L. Klawans, 1976      **Neuroscience Nursing**, 1994 NEUROSCIENCE NURSING provides current and comprehensive information about adult neuroscience patient management for practicing neuroscience medical surgical critical care and emergency nurses Encompassing a neurosurgical holistic view this text discusses psychosocial aspects associated with neurologic conditions and disorders The nursing process appears throughout the text and emphasizes high risk nursing diagnoses pathways for recovery standards of care and patient and family teaching Separate sections discuss legal issues and the future of neuroscience nursing      **Metal Ions in Biological Systems** Helmut Sigel, 1990      *Walsh and Hoyt's Clinical Neuro-ophthalmology* Frank Burton Walsh, Neil R. Miller, 1985

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