

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.*

NON PHARMACOLOGICAL TX FOR SPASTICITY
<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>

NON-PHARMACOLOGICAL TX FOR MUSCLE SPASMS
<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

SB Merriam



Chapter 21 Neuromuscular System Disorders:

The Top Books of the Year Chapter 21 Neuromuscular System Disorders The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Chapter 21 Neuromuscular System Disorders : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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