

A new measure of spasticity and disordered muscle function in the context of motor control theory

Friday, April 14, 2023 at 17:00 h

Summary of the Lecture

The measurement of spasticity is an important clinical problem. Spasticity often occurs after neurological lesions, such as those occurring due to stroke resulting in hemiparesis. Neurological motor impairments are characterized by deficits in agonist-antagonist muscle activation in specific joints that may be explained by the inability of the damaged nervous system to regulate Tonic Stretch Reflex Thresholds (TSRTs) throughout the entire biomechanical ranges of muscles acting around a joint. In the upper limb, limitations in the regulation of TSRTs result in the subdivision of all-possible elbow or shoulder-elbow arm configurations into different spatial zones in which spasticity or weakness occur. They also describe the joint ranges in which intentional movements can be produced by the typical pattern of reciprocal activation of agonist and antagonist muscles, or only by the abnormal pattern of agonist-antagonist coactivation of antagonist muscles. Deficits in TSRT regulation also have implications for motor learning and recovery after neurological injury or disease. Remediation of these deficits is essential for the effective rehabilitation of upper limb movement. The TSRT is a biomarker of the angular location at which muscles are unable to relax and is a complementary measure of spasticity. The TSRT measure discriminates between different types of hypertonic disorders such as spasticity and rigidity. Deficits in TSRT regulation in specific joints may also be related to limitations in the ability of the CNS to find multiple adaptive solutions for tasks involving multiple degrees of freedom. This new method of determining the location of the TSRT in the angular range of the joint may provide additional information about spasticity to that obtained by muscle resistance measures commonly used in rehabilitation.

This lecture is framed under the Stroke-Poc project (ERA-NET Neuron call, funded by ISCIII (AES2022-PRTR) and FRO5).

Speaker:

Mindy F. Levin, PT, PhD

Affiliation and CV:

Mindy Levin is a Physical Therapist, Researcher and Professor in the School of Physical and Occupational Therapy (SPOT), Faculty of Medicine and Health Sciences at McGill University in Montreal, Canada. She was Research Scholar of the Quebec Health Research Fund (1992-2004) and held a Tier 1 Canada Research Chair in Motor Recovery and Rehabilitation (2005-2019). She is currently a Distinguished James McGill Professor. She has over 200 peer-reviewed publications. Her research focuses on elucidating the mechanisms underlying sensorimotor deficits and their recovery in patients with central nervous system lesions. She has a strong background in motor control theory and the translation of motor control and motor learning principles into clinical rehabilitation applications to improve the lives of people with neurological lesions. Amongst her research methodologies are new technologies such as virtual reality and robotics.

Organizers:

Grupo de Investigación iHealthy, Instituto de Investigación Sanitaria Aragón (IIS Aragón)

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Table of Contents Spasticity Disordered Motor Control

1. Understanding the eBook Spasticity Disordered Motor Control
 - The Rise of Digital Reading Spasticity Disordered Motor Control
 - Advantages of eBooks Over Traditional Books
2. Identifying Spasticity Disordered Motor Control
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Spasticity Disordered Motor Control
 - User-Friendly Interface

4. Exploring eBook Recommendations from Spasticity Disordered Motor Control
 - Personalized Recommendations
 - Spasticity Disordered Motor Control User Reviews and Ratings
 - Spasticity Disordered Motor Control and Bestseller Lists
5. Accessing Spasticity Disordered Motor Control Free and Paid eBooks
 - Spasticity Disordered Motor Control Public Domain eBooks
 - Spasticity Disordered Motor Control eBook Subscription Services
 - Spasticity Disordered Motor Control Budget-Friendly Options
6. Navigating Spasticity Disordered Motor Control eBook Formats
 - ePub, PDF, MOBI, and More
 - Spasticity Disordered Motor Control Compatibility with Devices
 - Spasticity Disordered Motor Control Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Spasticity Disordered Motor Control
 - Highlighting and Note-Taking Spasticity Disordered Motor Control
 - Interactive Elements Spasticity Disordered Motor Control
8. Staying Engaged with Spasticity Disordered Motor Control
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Spasticity Disordered Motor Control
9. Balancing eBooks and Physical Books Spasticity Disordered Motor Control
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Spasticity Disordered Motor Control
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Spasticity Disordered Motor Control
 - Setting Reading Goals Spasticity Disordered Motor Control
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Spasticity Disordered Motor Control
 - Fact-Checking eBook Content of Spasticity Disordered Motor Control
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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