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| * + 1. Elderly  1. Techniques for the measurement of gait and posture 2. Normal and pathological gait 3. Treatment of gait and postural abnormalities 4. Biomechanical and theoretical approaches to gait and posture 5. Mathematical models of joint and muscle mechanics 6. Neurological and musculoskeletal function in gait and posture 7. The evolution of upright posture and bipedal locomotion 8. Adaptations of carrying loads 9. Walking on uneven surfaces 10. Climbing stairs 11. Running and performing other movements 12. Spinal biomechanics during usual activities 13. Psychometric properties of commonly-used outcome measurements in neurological disorders including MS, CVA, Parkinson 14. Posture and gait evaluations by single- and dual-task paradigms in neurological disorders including MS, CVA, Parkinson. 15. Association between cognitive-balance function in elderly populations.     * 1. Electro physical Agents   TENS  Neuromuscular electrical stimulation  IDC  Galvanic current  Laser  Ultrasound  Thermal agents including hot pack and infrared  Ultraviolet  Diathermy  Microwave   * + 1. Measurement   Reliability and validity of outcome measures including, kinetic and kinematic  Responsiveness of outcome measures including, kinetic and kinematic  Accuracy of diagnostic measures including, kinetic and kinematic measurement  Electromyographic Measurements to explore movement Disorders   * + 1. Mental Health   Cognitive therapy in patients with mental health disorders  Alzheimer and dementia   * + 1. Musculoskeletal   Posture and gait evaluation by single- and dual-task paradigms in musculoskeletal injured patients including low back pain, ACL-injured patients, and ankle injuries.  Psychometric properties of commonly used outcome measurements in musculoskeletal injured patients.  Physiotherapy for musculoskeletal disorders  Diagnostic and therapeutic processes  Patient centered care  Guidelines for musculoskeletal therapeutics and theoretical models that support developments in assessment  Diagnosis, clinical reasoning, and interventions   * + 1. Neurology   CNS autoimmune diseases  Traumatic brain injury  Spinal cord injury  Guillain barre syndrome  Amyotrophic lateral sclerosis (als)  Neuro-oncology  Mechanisms of neurodegenerative diseases  Alzheimer’s disease and other dementias  Parkinson’s disease  Huntington’s disease  Cerebral disorders  Motor neuron diseases  Epilepsy  Psychiatric disorders Association between cognitive-balance function in neurological disorders  Stroke Rehabilitation  Cognitive disorders   * + 1. Orthopedics   Post-operative rehabilitation  Spinal column disorders  Peripheral joint disorders  Osteoarthritis  Fractures  Sport-related injuries  Traumatic injuries  Overuse injuries  Interventional studies for clinical practice guidelines in musculoskeletal disorders including peripheral joints and vertebral column  Rehabilitation Developments in Sport Medicine   * + 1. Pediatrics   Cerebral palsy  Erb palsy  Motor delay  Down syndrome  Duchenne syndrome  Spina bifida  Cognitive disorders  Neurodevelopmental disorders  Neuromuscular conditions  Musculoskeletal conditions  Cardiorespiratory conditions  Developmental conditions  Pediatric exercise science   * + 1. Respiratory   COPD disease  Asthma  Bronchiectasis  Pneumonia  Airway clearance techniques  Active cycle of breathing techniques   * + 1. Rheumatology   Therapeutic methods (exercise, splinting, hydrotherapy, surgery)  Osteoarthritis  Rheumatoid arthritis  Ankylosing spondylitis  Lupus erythematosus  Polymyositis  Scleroderma   * + 1. Women's Health   Physical therapy for women’s health  Musculoskeletal disorders following pregnancy  Pelvic health of children and adults  Musculoskeletal, urological, gynecological systems as well biomechanical foundations and psychosocial aspects   * + 1. Tele-rehabilitation     2. Physical Conditioning     3. Professional Development     4. Service Delivery |