

## Part I Certification Examination Outline

### Approximate Target Weights

#### Class 1: Type of Problem/Organ System

##### A. Neurologic Disorders (30%)

1. Stroke
2. Spinal Cord Injury
3. Traumatic Brain Injury
4. Neuropathies
  - a) Mononeuropathies
  - b) Polyneuropathies
  - c) Carpal Tunnel Syndrome
  - d) Other Entrapment Neuropathies
5. Other Neurologic Disorders
  - a) Multiple Sclerosis
  - b) Motor Neuron Disease
  - c) Poliomyelitis
  - d) AIDP
  - e) Cerebral Palsy
  - f) Spina Bifida
  - g) Duchenne Muscular Dystrophy
  - h) Myotonic Muscular Dystrophy
  - i) Inflammatory Myopathies
  - j) Other Myopathies
  - k) Thoracic Outlet Syndrome
  - l) Plexopathy
  - m) Radiculopathy
  - n) Parkinson Disease
  - o) Other Neuromuscular Disorders

##### B. Musculoskeletal Medicine (32%)

1. Arthritis
  - a) Rheumatoid Arthritis
  - b) Osteoarthritis
  - c) Collagen Disease
  - d) Spondyloarthropathy
  - e) Other Arthritis

##### 2. Soft Tissue & Orthopedic Problems

- a) Acute Trauma
- b) Chronic Trauma/Overuse
- c) Complex Regional Pain Syndrome Type I (Reflex Sympathetic Dystrophy)
- d) Fibromyalgia/Myofascial Pain
- e) Burns
- f) Fractures
- g) Osteoporosis
- h) Spinal Disorders
- i) Strains/Sprains
- j) Tendinitis/Bursitis
- k) Orthopedic/Rheumatology
- l) Other Soft Tissue Disease

##### C. Amputation (5%)

1. Upper Extremity
2. Lower Extremity

##### D. Medical Rehabilitation (8%)

1. Cardiovascular
  - a) Ischemic Heart Disease
  - b) Peripheral Arterial Disease
  - c) Venous Disease
  - d) Vascular Disorders
  - e) Lymphedema
  - f) Other Cardiovascular
2. Pulmonary Disease
  - a) COPD
  - b) Impaired Ventilation
  - c) Other Pulmonary Problems
3. GU / GI Disorders
  - a) Neurogenic Bladder
  - b) Renal Impairment/Failure
  - c) Neurogenic Bowel
  - d) Sexuality and Reproductive Issues
  - e) Other GU/GI Disorders

##### D. Medical Rehabilitation, cont'd

4. Cancer
5. Infectious Disease
6. Endocrine/Metabolic (Incl. Diabetes)
7. Transplant

##### E. Rehabilitation Problems & Outcomes (15%)

1. Physical Complications
  - a) Spasticity
  - b) Contracture
  - c) Hydrocephalus
  - d) Seizures
  - e) Pressure Injuries
  - f) Posture/Balance Disorders
  - g) Abnormal Gait
  - h) Dysphagia/Aspiration
  - i) Bed Rest/Deconditioning
  - j) Paralysis/Weakness
  - k) Heterotopic Ossification
  - l) Other Physical Complications
2. Cognitive/Sensory Dysfunction
  - a) Speech and Language Disorders
  - b) Visual Dysfunction
  - c) Cognitive Disorders
  - d) Sleep Disorders
  - e) Other Cognitive/Sensory Dysfunction
3. Psychiatric/Psychological Problems
  - a) Depression
  - b) Substance Abuse
  - c) Dementia/Pseudodementia
  - d) Disorders of Consciousness
  - e) Other Psych. Problems
4. Pain
5. Other

##### F. Basic Sciences (10%)

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## Class 2: Focus of Question / Patient Management

### A. Patient Evaluation & Diagnosis (31%)

1. Physical Exam, Signs & Symptoms
2. Diagnosis & Etiology
3. Diagnostic Procedures
  - a) Cardiopulmonary Assess/Stress Test
  - b) Gait Analysis
  - c) Urodynamics
  - d) Lab Studies
  - e) Medical Imaging
  - f) Neuropsychological Evaluation
  - g) Other Diagnostic Procedures
4. Functional Evaluation
5. Prognosis (Incl. Outcome Measures)

### B. Electrodiagnosis (15%)

1. General Electrodiagnosis
2. Instrumentation
3. Nerve Conduction
4. Electromyography
5. Neuromuscular Transmission
6. H Reflex/F Wave

### C. Patient Management (32%)

1. Clinical Decision Making (Incl. Ethics)
2. Physical Agents
  - a) Heat/Cryotherapy
  - b) Electrostimulation
  - c) Ultrasound
3. Therapeutic Exercise & Manipulation
  - a) Motor Control
  - b) Mobility and Range of Motion
  - c) Strength and Endurance
  - d) Manipulation and Massage
  - e) Traction/Immobilization

### 4. Pharmacologic Interventions

- a) Analgesics
- b) Antiseizure and Antispasmodics
- c) Antibiotics
- d) Psychopharmacologies
- e) Anti-inflammatory
- f) Other Medications

### 5. Procedural/Interventional

- a) Nerve Blocks
- b) Anesthetic Injections
- c) Surgery
- d) Other Procedural/Interventional

### 6. Behavioral/Psychological Modalities

- a) Behavior Modification
- b) Psychotherapy/Counseling
- c) Education
- d) Biofeedback

### D. Equipment & Assistive Technology (10%)

1. Prosthetics
2. Orthotics
3. Other Rehabilitation Technology
  - a) Shoes
  - b) Functional Electrical Stimulation
  - c) Transcutaneous Electrical Nerve Stimulation
  - d) Augmentative Communication
  - e) Ventilation
  - f) Wheelchairs/Seating
  - g) Other Devices

### E. Applied Sciences (12%)

1. Anatomy
  - a) Central Nervous System
  - b) Peripheral Nerves
  - c) Head/Neck
  - d) Shoulder
  - e) Arm
  - f) Wrist
  - g) Hand
  - h) Hip
  - i) Knee
  - j) Leg

### 1. Anatomy, cont'd

- k) Ankle
- l) Foot
- m) Muscle
- n) Bone
- o) Back/Spine: General
- p) Spine: Cervical
- q) Spine: Thoracic
- r) Spine: Lumbosacral
- s) Other Anatomy

### 2. Physiology

- a) Neurophysiology
- b) Neuromuscular
- c) Cardiovascular
- d) Pulmonary
- e) Genitourinary
- f) Gastrointestinal
- g) Skin and Connective Tissue
- h) Bone and Joints
- i) Autonomic Nervous System
- j) Endocrine

### 3. Pathology/Pathophysiology

- a) Neurophysiology
- b) Neuromuscular
- c) Cardiovascular
- d) Pulmonary
- e) Genitourinary
- f) Gastrointestinal
- g) Skin and Connective Tissue
- h) Bone and Joints
- i) Autonomic Nervous System
- j) Endocrine

### 4. Kinesiology/Biomechanics

### 5. Epidemiology/Risk Factors

### 6. Nutrition

### 7. Pharmacology

### 8. Research & Statistics

### 9. Growth & Development