



**Self-Assessment Examination for Residents (SAE-R)  
Content Outline**

Topic	Total Items
<b>1. Brain Disorders</b>	<b>13</b>
<ul style="list-style-type: none"> <li>A. Traumatic brain injury</li> <li>B. Non-traumatic brain disorder</li> <li>C. Parkinsons and Alzheimers disease</li> <li>D. Secondary conditions and complications</li> <li>E. Brain tumors</li> <li>F. Neuropsychological testing</li> <li>G. Brain anatomy</li> <li>H. Adult Cerebral palsy</li> </ul>	
<b>2. Electrodiagnosis</b>	<b>13</b>
<ul style="list-style-type: none"> <li>A. Instrumentation and sites for nerve stimulation and needle insertion</li> <li>B. Entrapment neuropathies</li> <li>C. Radiculopathy</li> <li>D. Peripheral neuropathy</li> <li>E. Neuromuscular disorders</li> <li>F. Myopathy</li> <li>G. General neuromuscular anatomy</li> <li>H. Neuromuscular physiology               <ul style="list-style-type: none"> <li>I. Use of history and exam to guide study</li> <li>J. Unusual nerve conduction studies (blink reflex, repetitive nerve stimulation, etc.)</li> </ul> </li> </ul>	
<b>3. Pain Rehabilitation</b>	<b>13</b>
<ul style="list-style-type: none"> <li>A. Acute and chronic opioid management (addiction, tolerance, physical dependence, drug testing and surveillance)</li> <li>B. Axial and peripheral pain procedures</li> <li>C. Multidisciplinary management of pain</li> <li>D. Soft tissue disorders including myofascial pain and fibromyalgia</li> <li>E. Medication and rehabilitation therapeutics for pain management</li> <li>F. Management of nociception and neuropathic pain</li> <li>G. Common pain syndromes (Headache, cancer, CRPS, fibromyalgia, whiplash)</li> </ul>	



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<b>4. Rehabilitation and Functional Management</b>	<b>13</b>
<ul style="list-style-type: none"> <li>A. Physical agents (Heat, cold, hydrotherapy, electrostimulation, ultrasound)</li> <li>B. Therapeutic Exercise and manipulation</li> <li>C. Modalities</li> <li>D. Orthotics (upper and lower limb and spinal)</li> <li>E. Adaptive devices and mobility aids (Positional orthoses, reachers, universal cuff, walker, cane, etc.)</li> <li>F. Equipment and devices (Adaptive equipment, Assistive technology, and seating systems)</li> <li>G. Rehabilitation therapeutics by discipline</li> <li>H. Therapy prescriptions for specific conditions</li> </ul>	
<b>5. Medical Management</b>	<b>12</b>
<ul style="list-style-type: none"> <li>A. Cardiac rehabilitation including issues in disabled population</li> <li>B. Pulmonary rehabilitation</li> <li>C. Cancer rehabilitation</li> <li>D. Burn rehabilitation</li> <li>E. Rehabilitation issues following solid organ transplant</li> <li>F. Rehabilitation issues in HIV disease</li> <li>G. Wound care management</li> <li>H. Geriatric issues including falls and fall prevention <ul style="list-style-type: none"> <li>I. Preventative care</li> </ul> </li> <li>J. Patient and family counselling (treatment risks, benefits, outcomes, and prognosis)</li> </ul>	
<b>6. Musculoskeletal Disorders</b>	<b>12</b>
<ul style="list-style-type: none"> <li>A. Relevant anatomy and biomechanical issues</li> <li>B. Musculoskeletal disorders/injuries (age and impairment effects)</li> <li>C. Sports Medicine</li> <li>D. Indications and contraindications for interventional management</li> <li>E. Spinal Disorders</li> <li>F. Osteoarthritis and Rheumatoid arthritis management</li> <li>G. Spondyloarthropathy</li> <li>H. Other arthritis <ul style="list-style-type: none"> <li>I. Collagen disease</li> </ul> </li> <li>J. Acute and chronic trauma/overuse</li> <li>K. Osteoporosis</li> </ul>	



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<b>7. Nerve and Muscle Disorders</b> <i>(Diagnosis and management not related to electrodiagnosis.)</i>	<b>12</b>
<ul style="list-style-type: none"> <li>A. Motor neuron disease</li> <li>B. Acquired and hereditary neuropathies (focal and peripheral)</li> <li>C. Neuromuscular junction disorders</li> <li>D. Inflammatory and other myopathies</li> <li>E. Muscular dystrophies/disorders</li> <li>F. Durable medical equipment, therapeutics and technology to maximize function</li> <li>G. Secondary conditions of neuromuscular disorders (scoliosis, skin, pulmonary, pain, dysphagia, cardiac disease, contractures, etc.)</li> </ul>	
<b>8. Pediatrics</b>	<b>12</b>
<ul style="list-style-type: none"> <li>A. Limb deficiency</li> <li>B. Cerebral palsy</li> <li>C. Spinal dysraphism</li> <li>D. Spinal cord injury</li> <li>E. Acquired Brain injury/disorders</li> <li>F. Common Neuromuscular and musculoskeletal disorders</li> <li>G. Orthotics and prosthetics</li> <li>H. Childhood development</li> <li>I. Aging with congenital or childhood onset disabilities</li> </ul>	
<b>9. Amputation, Prosthetics, and Gait</b>	<b>13</b>
<ul style="list-style-type: none"> <li>A. General post-amputation and pre-prosthetic management</li> <li>B. Upper and lower limb prosthetics</li> <li>C. Management of secondary complications( phantom and residual limb pain, contracture, skin, bone overgrowth, neuroma and verrucous hyperplasia)</li> <li>D. Risk factors for amputation, determination of level of amputation and limb preservation</li> <li>E. Management of diabetic foot conditions and peripheral arterial disease</li> <li>F. Gait, gait analysis and relevant biomechanics</li> <li>G. Prosthetic prescription with knowledge of components (functional classification (e.g. K levels) and patient-specific needs)</li> <li>H. Technology advances in prosthetic design</li> </ul>	
<b>10. Spinal Cord Injury</b>	<b>12</b>
<ul style="list-style-type: none"> <li>A. Acute and chronic management</li> <li>B. Management of neurogenic bowel and bladder</li> </ul>	



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<ul style="list-style-type: none"> <li>C. Management of secondary conditions and complications (Respiratory, spasticity, pressure ulcers, spasticity, autonomic dysfunction, VTE, HO, sexual dysfunction, pain, syrinx, osteoporosis)</li> <li>D. Multiple sclerosis</li> <li>E. Basic spine and spinal cord anatomy</li> <li>F. Advanced treatments and technology</li> <li>G. Predict functional outcomes and prognosis based on impairment</li> </ul>	
<b>11. Stroke</b>	<b>13</b>
<ul style="list-style-type: none"> <li>A. Basic functional organization and vascular supply to brain</li> <li>B. Correlate impairments with stroke location and syndromes</li> <li>C. Expected pattern, timing and prognosis of recovery</li> <li>D. Risk factors of recurrent stroke and prevention management</li> <li>E. Treatment interventions for management of acute and chronic stroke</li> <li>F. Management and prevention of secondary complications (cognitive and communication deficits; motor and sensory impairments; bowel and bladder dysfunction; shoulder dysfunction, pain, VTE, dysphagia, depression, spasticity, etc.)</li> </ul>	
<b>12. Spasticity</b>	<b>12</b>
<ul style="list-style-type: none"> <li>A. Spasticity complications due neurologic disorders</li> <li>B. Differentiate spasticity from other types of increased muscle tone</li> <li>C. Positive and negative effects of spasticity on positioning, function and quality of life</li> <li>D. Therapy interventions to manage spasticity</li> <li>E. Pharmacology of oral and injectable medications used for spasticity.</li> <li>F. Intrathecal management of spasticity</li> <li>G. Surgical interventions to manage spasticity</li> <li>H. Indications, strengths and limitations to guide injections (anatomic, ultrasound, emg and electrical stimulation)</li> <li>I. Comprehensive spasticity management issues</li> </ul>	
<b>TOTAL</b>	<b>150</b>