



## American Board of Psychiatry and Neurology, Inc.

A Member Board of the American Board of Medical Specialties (ABMS)

### MAINTENANCE OF CERTIFICATION EXAMINATION IN NEUROMUSCULAR MEDICINE

#### 2020 Content Blueprint

(September 30, 2019)

| <b>Number of questions: 170</b> |   |             |
|---------------------------------|---|-------------|
| 1.                              | Motor neuron disease (ALS, SMA, infectious/ postinfectious, paraneoplastic, focal)  | 13-17%      |
| 2.                              | Root (cervical/thoracic/L-S [disc, spondylosis, tumor])   | 4-6%        |
| 3.                              | Plexus (brachial/lumbosacral [inflammatory, infectious, neoplastic, trauma, congenital, hereditary, other])   | 4-6%        |
| 4.                              | Nerve <ul style="list-style-type: none"> <li>A. Mononeuropathy (cranial, somatic, etc.)</li> <li>B. Mononeuropathy multiplex</li> <li>C. Axonal (drugs/toxins, paraneoplastic, infectious, inflammatory, hereditary, sarcoid, amyloid, porphyria, diabetes, etc.)</li> <li>D. Demyelinating/dysmyelinating disorders (inflammatory, infectious/postinfectious, hereditary, toxic, diabetes, paraprotein, paraneoplastic, etc.)</li> <li>E. Dorsal root ganglia (diabetes, nutritional, toxin, metabolic, inflammatory, hereditary, etc.)</li> <li>F. Autonomic (diabetes, amyloid, hereditary, etc.)</li> </ul> | 28-32%      |
| 5.                              | NMJ (MG, LEMS, botulism, toxins, congenital MG)   | 13-17%      |
| 6.                              | Muscle (dystrophies [DMD, Becker, FSHD, LGD, myotonic, OPMD], inflammatory [PM, DM, IBM, sarcoid, HIV], metabolic/endocrine, toxic [statins], critical illness, congenital, mitochondrial, channelopathies, rhabdomyolysis [NMS, etc.], hyperCKemia, floppy infant)   | 28-32%      |
| <b>TOTAL</b>                    |   | <b>100%</b> |

**Note:** A more detailed content outline is shown below.



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### MAINTENANCE OF CERTIFICATION EXAMINATION IN NEUROMUSCULAR MEDICINE

#### 2020 Content Outline

| <b>Content Areas</b>  |  |
|---|--|
| <b>01. Motor neuron disease (ALS, SMA, infectious/ postinfectious, paraneoplastic, focal)</b> |  |
| A. Clinical   |  |
| 1. Natural history/prognosis  |  |
| 2. Symptoms and physical findings   |  |
| 3. Anatomy  |  |
| 4. Epidemiology   |  |
| 4. Differential diagnosis   |  |
| B. Pathogenesis   |  |
| C. Diagnostic testing   |  |
| 1. Physiology/electrophysiology   |  |
| 2. Pathology (nerve, muscle, skin, other)   |  |
| 3. Genetics   |  |
| 4. Imaging  |  |
| 5. Laboratory testing   |  |
| 6. Immunology   |  |
| 7. Comorbidity screening  |  |
| D. Management—acute and chronic   |  |
| 1. Symptom management/disease modification  |  |
| a. Pharmacology   |  |
| b. Rehabilitation   |  |
| i. Exercise   |  |
| ii. Assistive devices   |  |
| iii. Assistive technology   |  |
| iv. Braces  |  |
| v. Physical therapy/occupational therapy  |  |
| vi. Pulmonary   |  |
| vii. Speech/swallowing  |  |
| viii. Nutritional management  |  |
| c. Surgery  |  |



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|            |      |  |
|------------|------|--|
|            | d.   | Quality of life  |
|            | 2.   | Ethics/professionalism   |
|            | 3.   | Counseling   |
|            | a.   | Initial  |
|            | b.   | End of life  |
| <b>02.</b> |      | <b>Root (cervical/thoracic/L-S [disc, spondylosis, tumor])</b>   |
|            | A.   | Clinical   |
|            | 1.   | Natural history/prognosis  |
|            | 2.   | Symptoms and physical findings   |
|            | 3.   | Anatomy  |
|            | 4.   | Epidemiology   |
|            | 5.   | Differential diagnosis   |
|            | B.   | Pathogenesis   |
|            | C.   | Diagnostic testing   |
|            | 1.   | Physiology/electrophysiology   |
|            | 2.   | Pathology (nerve, muscle, skin, other)   |
|            | 3.   | Genetics   |
|            | 4.   | Imaging  |
|            | 5.   | Laboratory testing   |
|            | 6.   | Immunology   |
|            | 7.   | Comorbidity screening  |
|            | D.   | Management—acute and chronic   |
|            | 1.   | Symptom management/disease modification  |
|            | a.   | Pharmacology   |
|            | b.   | Rehabilitation   |
|            | i.   | Exercise   |
|            | ii.  | Assistive devices/technology   |
|            | iii. | Braces   |
|            | iv.  | Physical therapy/occupational therapy  |
|            | v.   | Pulmonary  |
|            | c.   | Surgery  |
|            | d.   | Quality of life  |
|            | 2.   | Ethics/professionalism   |
|            | 3.   | Counseling   |
| <b>03.</b> |      | <b>Plexus (brachial/lumbosacral [inflammatory, infectious, neoplastic, trauma, congenital, hereditary, other])</b> |



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|            |   |
|------------|---|
| A.         | Clinical  |
| 1.         | Natural history/prognosis   |
| 2.         | Symptoms and physical findings  |
| 3.         | Anatomy   |
| 4.         | Epidemiology  |
| 5.         | Differential diagnosis  |
| B.         | Pathogenesis  |
| C.         | Diagnostic testing  |
| 1.         | Physiology/electrophysiology  |
| 2.         | Pathology (nerve, muscle, skin, other)  |
| 3.         | Genetics  |
| 4.         | Imaging   |
| 5.         | Laboratory testing  |
| 6.         | Immunology  |
| 7.         | Comorbidity screening   |
| D.         | Management—acute and chronic  |
| 1.         | Symptom management/disease modification   |
| a.         | Pharmacology  |
| b.         | Rehabilitation  |
| i.         | Exercise  |
| ii.        | Assistive devices/technology  |
| iii.       | Braces  |
| iv.        | Physical therapy/occupational therapy   |
| v.         | Pulmonary   |
| c.         | Surgery   |
| d.         | Quality of life   |
| 2.         | Ethics/professionalism  |
| 3.         | Counseling  |
| <b>04.</b> | <b>Nerve</b>  |
| <b>A.</b>  | <b>Mononeuropathy (cranial, somatic, etc.)</b>  |
| <b>B.</b>  | <b>Mononeuropathy multiplex</b>   |
| <b>C.</b>  | <b>Axonal (drugs/toxins, paraneoplastic, infectious, inflammatory, hereditary, sarcoid, amyloid, porphyria, diabetes, etc.)</b>                         |
| <b>D.</b>  | <b>Demyelinating/dysmyelinating disorders (inflammatory, infectious/postinfectious, hereditary, toxic, diabetes, paraprotein, paraneoplastic, etc.)</b> |



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|            |  |
|------------|--|
| <b>E.</b>  | <b>Dorsal root ganglia (diabetes, nutritional, toxin, metabolic, inflammatory, hereditary, etc.)</b> |
| <b>F.</b>  | <b>Autonomic (diabetes, amyloid, hereditary, etc.)</b>   |
| 1.         | Clinical   |
| a.         | Natural history/ prognosis   |
| b.         | Symptoms and physical findings   |
| c.         | Anatomy  |
| d.         | Epidemiology   |
| e.         | Differential diagnosis   |
| 2.         | Pathogenesis   |
| 3.         | Diagnostic testing   |
| a.         | Physiology/electrophysiology   |
| b.         | Pathology (nerve, muscle, skin, other)   |
| c.         | Genetics   |
| d.         | Imaging  |
| e.         | Laboratory testing   |
| f.         | Immunology   |
| g.         | Comorbidity screening  |
| 4.         | Management—acute and chronic   |
| a.         | Symptom management/disease modification  |
| i.         | Pharmacology   |
| ii.        | Rehabilitation   |
| aa.        | Exercise   |
| bb.        | Assistive devices/ technology  |
| cc.        | Braces/orthotics   |
| dd.        | Physical therapy/ occupational therapy   |
| ee.        | Cardiopulmonary  |
| ff.        | Speech/swallowing  |
| gg.        | Nutritional management   |
| iii.       | Surgery  |
| aa.        | Nerve biopsy   |
| iv.        | Quality of life  |
| b.         | Ethics/professionalism   |
| c.         | Counseling   |
| <b>05.</b> | <b>NMJ (MG, LEMS, botulism, toxins, congenital MG)</b>   |
| A.         | Clinical   |



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|            |  |
|------------|--|
| 1.         | Natural history/prognosis  |
| 2.         | Symptoms and physical findings   |
| 3.         | Anatomy  |
| 4.         | Epidemiology   |
| 5.         | Differential diagnosis   |
| B.         | Pathogenesis   |
| C.         | Diagnostic testing   |
| D.         | Management—acute and chronic   |
| 1.         | Symptom management/disease modification  |
| a.         | Pharmacology   |
| i.         | Cholinesterase inhibitors  |
| ii.        | Immunomodulation   |
| iii.       | IV Ig  |
| b.         | Plasma exchange  |
| c.         | Ventilatory support  |
| d.         | Surgery  |
| i.         | Thymectomy   |
| ii.        | Tracheotomy  |
| e.         | Rehabilitation   |
| i.         | Exercise   |
| ii.        | Assistive devices/technology   |
| iii.       | Physical therapy/occupational therapy  |
| iv.        | Pulmonary  |
| v.         | Speech/swallowing  |
| vi.        | Nutritional management   |
| f.         | Quality of life  |
| 2.         | Ethics/professionalism   |
| 3.         | Counseling   |
| <b>06.</b> | <b>Muscle (dystrophies [DMD, Becker, FSHD, LGD, myotonic, OPMD], inflammatory [PM, DM, IBM, sarcoid, HIV], metabolic/endocrine, toxic [statins], critical illness, congenital, mitochondrial, channelopathies, rhabdomyolysis [NMS, etc.], hyperCKemia, floppy infant)</b> |
| A.         | Clinical   |
| 1.         | Natural history/prognosis  |
| 2.         | Symptoms and physical findings   |
| 3.         | Anatomy  |



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|       |   |
|-------|---|
| 4.    | Epidemiology                            |
| 5.    | Differential diagnosis                  |
| B.    | Pathogenesis                            |
| C.    | Diagnostic testing                      |
| 1.    | Physiology/electrophysiology            |
| 2.    | Pathology (muscle, skin, other)         |
| 3.    | Genetics                                |
| 4.    | Imaging                                 |
| 5.    | Laboratory testing                      |
| 6.    | Ischemic lactate test                   |
| 7.    | Immunology                              |
| 8.    | Comorbidity screening                   |
| D.    | Management—acute and chronic            |
| 1.    | Symptom management/disease modification |
| a.    | Pharmacology                            |
| b.    | Rehabilitation                          |
| i.    | Exercise                                |
| ii.   | Assistive devices                       |
| iii.  | Assistive technology                    |
| iv.   | Braces                                  |
| v.    | Physical therapy/occupational therapy   |
| vi.   | Pulmonary                               |
| vii.  | Speech/swallowing                       |
| viii. | Nutritional management                  |
| c.    | Surgery                                 |
| i.    | Muscle biopsy                           |
| ii.   | Tendon release                          |
| d.    | Quality of life                         |
| 2.    | Ethics/professionalism                  |
| a.    | End of life                             |
| 3.    | Counseling                              |