



American Board of Psychiatry and Neurology, Inc.

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

CERTIFICATION EXAMINATION IN NEUROMUSCULAR MEDICINE

2020 Content Blueprint

(December 18, 2019)

| Number of questions: 200 | |
|---|-------------|
| 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 A. Mononeuropathy (cranial, somatic, etc.) B. Mononeuropathy multiplex C. Axonal (drugs/toxins, paraneoplastic, infectious, inflammatory, hereditary, sarcoid, amyloid, porphyria, diabetes, etc.) D. Demyelinating/dysmyelinating disorders (inflammatory, infectious/postinfectious, hereditary, toxic, diabetes, paraprotein, paraneoplastic, etc.) E. Dorsal root ganglia (diabetes, nutritional, toxin, metabolic, inflammatory, hereditary, etc.) F. Autonomic (diabetes, amyloid, hereditary, etc.) | 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% |
| TOTAL | 100% |

Note: A more detailed content outline is shown below.



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2020 Content Outline

| Content Areas | |
|---------------|---|
| 01. | Motor neuron disease (ALS, SMA, infectious/ postinfectious, paraneoplastic, focal) |
| 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 |



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| | viii. Nutritional management |
| | c. Surgery |
| | d. Quality of life |
| 2. | Ethics/professionalism |
| 3. | Counseling |
| | a. Initial |
| | b. End of life |
| 02. | Root (cervical/thoracic/L-S [disc, spondylosis, tumor]) |
| 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 |



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| | 3. | Counseling |
| 03. | | Plexus (brachial/lumbosacral [inflammatory, infectious, neoplastic, trauma, congenital, hereditary, other]) |
| | 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 |
| 04. | | Nerve |
| | A. | Mononeuropathy (cranial, somatic, etc.) |
| | B. | Mononeuropathy multiplex |
| | C. | Axonal (drugs/toxins, paraneoplastic, infectious, inflammatory, |



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| D. | hereditary, sarcoid, amyloid, porphyria, diabetes, etc.) Demyelinating/dysmyelinating disorders (inflammatory, infectious/postinfectious, hereditary, toxic, diabetes, paraprotein, paraneoplastic, etc.) |
| E. | Dorsal root ganglia (diabetes, nutritional, toxin, metabolic, inflammatory, hereditary, etc.) |
| F. | Autonomic (diabetes, amyloid, hereditary, etc.) |
| 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 |



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| | iv. | Quality of life |
| | b. | Ethics/professionalism |
| | c. | Counseling |
| 05. | | NMJ (MG, LEMS, botulism, toxins, congenital MG) |
| | A. | Clinical |
| | 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 |
| 06. | | Muscle (dystrophies [DMD, Becker, FSHD, LGD, myotonic, OPMD], inflammatory [PM, DM, IBM, sarcoid, HIV], metabolic/endocrine, toxic [statins], critical illness, |



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| congenital, mitochondrial, channelopathies, rhabdomyolysis [NMS, etc.], hyperCKemia, floppy infant) | |
| 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 (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 |



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| a. | End of life |
| 3. | Counseling |