

2023 AIMVT Neurology Advanced Skills Reference List

This is **NOT** the list you will submit with your application. Use this only as a reference.

The submission form can be found here: [Neurology Skills List](#)

1. Take an accurate neurological history.	2. Proper handling and restraint of neurological patients.
3. Assist with and/or perform gait and movement assessments.	4. Assist with and/or perform a neurological examination.
5. Neuroanatomically localize to the brain.	6. Neuroanatomically localize to the spine.
7. Neuroanatomically localize to the peripheral nervous system.	8. Perform emergency triage and care of neurologic patients.
9. Recognize slight mentation changes in critical neurologic patients.	10. Recognize clinical signs of and understand treatment options for commonly seen neurotoxins.
11. Recognize primary medical reasons for secondary neurological changes (e.g. endocrine disorders, vitamin deficiencies, or non-neurologic congenital diseases).	12. Understand basic seizure control principles.
13. Calculate loading doses and maintenance doses for the following anticonvulsant medications: phenobarbital, potassium bromide, levetiracetam. Case Logs citing this skill must include the calculations performed.	14. Safely administer anticonvulsant medications.
15. Calculate, prepare and administer a constant rate infusion (CRI) of anticonvulsant medications. Case Logs citing this skill must include the calculations performed.	16. Recognize pain and treat appropriately.
17. Calculate, prepare, and administer a constant rate infusion (CRI) of analgesic medication, and monitor the neurologic patient receiving the infusion. Case Logs citing this skill must include the calculations performed.	18. Recognize and treat common side effects of opioid pain management.
19. Calculate and administer proper analgesic medications pre-, intra- and post-operatively, including epidural injections and nerve blocks. Case Logs citing this skill must include calculations performed.	20. Implement anesthetic protocols, including appropriate monitoring, for neurologic patients (e.g. intervertebral disc disease, fibrocartilaginous embolism, vertebral fracture, craniotomy, atlantoaxial subluxation).
21. Appropriate patient positioning both in and out of the operating room for neurosurgical patients.	22. Scrub in and provide surgical assistance for neurosurgical procedures.
23. Assist with cerebrospinal fluid taps and demonstrate appropriate handling of samples for analysis. Case Logs citing this skill must include the manner of sample preparation (i.e., slide preparation, tubes used, other submission information).	24. Assist with arthrocentesis and demonstrate appropriate handling of samples for analysis. Case Logs citing this skill must include the manner of sample preparation (i.e., slide preparation, tubes used, other submission information).
25. Assist with muscle and nerve biopsies and demonstrate appropriate handling of samples for analysis. Case Logs citing this skill must include the manner of sample preparation (i.e., slide preparation, tubes used, other submission information).	26. Perform brainstem auditory evoked response (BAER) exams.
27. Prepare for and assist with electrodiagnostic procedures (e.g. electroencephalogram, electromyelogram, nerve conduction velocity).	28. Appropriate positioning to obtain diagnostic quality spinal radiographs.
29. Appropriate positioning to obtain diagnostic quality myelograms / computed tomography scans.	30. Appropriate positioning to obtain diagnostic quality magnetic resonance imaging scans.
31. Calculate prescribed doses of contrast materials (e.g. iohalamate meglumine, iohexol, gadolinium). Case Logs citing this skill must include calculations performed.	32. Basic ability to read spinal radiographs, myelograms / computed tomography scans, and magnetic resonance imaging scans.
33. Manage a non-ambulatory patient (e.g. bladder management, circulation, nutrition).	34. Place and maintain closed urinary collection systems.
35. Calculate, administer, and appropriately monitor cytarabine chemotherapy, including proper handling, required personal protective equipment, and knowledge of patient care and expected side effects. Case Logs citing this skill must include calculations performed.	36. Recognize special nutritional or feeding considerations and calculate daily caloric needs for neurologic patients. Case Logs citing this skill must include formulas used and the calculations performed.

37. Set up and monitor mechanical ventilation for neurologic patients.	38. Place and maintain central lines and/or jugular catheters.
39. Place and maintain arterial catheters and/or perform arterial blood sampling.	40. Explain and perform basic rehabilitative techniques and principles utilized in caring for the neurologically impaired patient.
41. Measure and fit neurological devices (e.g. wheelchairs, prostheses, various harnesses), and educate clients on appropriate use of such devices.	42. Communicate to clients the important factors involved in the care and management of patients with brain disease.
43. Communicate to clients the important factors involved in the care and management of patients with upper motor neuron disease.	44. Communicate to clients the important factors involved in the care and management of patients with lower motor neuron disease.
45. Recognize potential postoperative complications (e.g. wound infection, wound dehiscence, seroma formation) and discuss them with clients.	