



2024 Neurology Fundamental 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: [2024 Neurology Fundamental Advanced Skills](#)

1. Recognize slight mentation changes in critical neurologic patients with an understanding of potential physiological concerns such changes indicate	2. Recognize primary medical reasons for secondary neurological changes (e.g., endocrine disorders, vitamin deficiencies, or non-neurologic congenital diseases)
3. Recognize clinical signs of and understand treatment options for commonly seen neurotoxins	4. Recognize and treat common side effects of opioid pain management
5. Safely administer anticonvulsant medications	6. Appropriate patient positioning both in and out of the operating room for neurosurgical patients
7. Scrub in and provide surgical assistance for neurosurgical procedures	8. Properly set up for, assist with or perform arthrocentesis and demonstrate appropriate handling of samples for analysis
9. Properly set up for and assist with muscle and nerve biopsy procedures and demonstrate appropriate handling of samples for analysis	10. Calculate prescribed doses of contrast materials (e.g., iohalamate meglumine, iohexol, gadolinium, etc.)
11. Calculate, administer, and appropriately monitor cytarabine chemotherapy, including proper handling, required personal protective equipment, and knowledge of patient care and expected side effects	12. Recognize special nutritional or feeding considerations and calculate daily caloric needs for neurologic patients
13. Properly set up for and monitor mechanical ventilation for neurologic patients	14. Place and maintain central lines and/or jugular catheters
15. Place and maintain arterial catheters	16. Explain and perform basic rehabilitative techniques and principles utilized in caring for the neurologically impaired patient
17. Measure and fit neurological devices (e.g., wheelchairs, prostheses, various harnesses, and/or other assistive devices), and educate clients on appropriate use of such devices	18. Recognize potential postoperative complications (e.g., wound infection, wound dehiscence, seroma formation) and discuss them with clients