

Χαρακτηριστικά:

- Offers useful insights on the anesthetic management of neurosurgical and neurologic patients
- Discusses related issues, such as the evidence-based practice of neuroanesthesia, sterilization techniques, biostatistics, and ethical issues
- Includes new chapters on neurocritical care, including stroke and intracerebral hemorrhage
- Provides a vital resource for trainees, clinicians, and researchers in the fields of neuroanesthesia, neurocritical care, neurosurgery, and neurology

Περιεχόμενα:

1. Essentials of Neuroanatomy
2. Understanding Neuroembryology
3. Essentials of Neurophysiology
4. Understanding Blood Brain Barrier
5. Essentials of Neuropharmacology
6. Understanding Anesthetic Neurotoxicity and Neuroprotection 2 - Perioperative Neurosciences
7. Pre-anesthetic evaluation
8. Positions in Neurosurgery
9. Structural organization of neurosurgical operation theatre
10. Structural organization of neuroradiology suite 3 - Neuromonitoring
11. Invasive Neuromonitoring
12. Non-invasive Neuromonitoring 4 - Neurosurgery
13. Supratentorial surgery
14. Infratentorial surgery
15. Epilepsy surgery
16. Pituitary surgery
17. Cerebral aneurysm surgery
18. Cerebrovascular surgery
19. Spinal surgery
20. Neuroendoscopic surgery
21. Functional neurosurgery 5 - Neurotrauma
22. Traumatic brain injury
23. Traumatic spine surgery 6 - Neurocritical Care
24. Essentials of Neurocritical care 7 - Neurology
25. Neuromuscular disorders
26. Stroke
27. Intracranial hemorrhage 8 - Neuroradiology
28. Essentials of Neuroradiology
29. Interventional neuroradiology 9 - Transfusion
30. Fluid transfusion in neurologic patients
31. Blood and blood products transfusion in neurologic patients 10 - Complex situations in Neuroanesthesia

32. Pediatric neurosurgery
33. Geriatric neurosurgery
34. Pregnancy and neurosurgery
35. Robotic neurosurgery
36. Neurologic patient for non-neurologic surgery
37. Brain - organ crosstalk
38. Electroconvulsive therapy
39. Circulatory arrest
40. Intraoperative Cardio-Pulmonary Resuscitation
41. Cerebral resuscitation after cardiac arrest
42. Postoperative cognitive dysfunction 11 - Pain
43. Craniotomy and pain management
44. Spine surgery and pain management
45. Trigeminal neuralgia
46. Failed back syndrome 12 - Coexisting Issues
47. Neuroanesthesia and Coexisting diabetes mellitus
48. Neuroanesthesia and Coexisting hypertension
49. Neuroanesthesia and Coexisting renal problems
50. Neuroanesthesia and Coexisting coagulation problems
51. Neuroanesthesia and Coexisting transplanted organ 13 - Ethical Issues
52. Ethical issues in perioperative neurosciences
53. Understanding Brain death
54. Managing Organ donation 14 - Sterilization and disinfection
55. Sterilization and disinfection including Universal precautions 15 - Recent advances
56. Neuroprotective strategies
57. Recent trends in perioperative neurosciences
58. Artificial Intelligence in perioperative neurosciences
59. Simulations in clinical neurosciences