

Section 1- Neuroscience in anaesthetic practice

- 1: Neural mechanisms of anaesthetics, *Andrew McKinstry-Wu and Max Kelz*
- 2: Intracranial pressure, *Harald Stefanits, Andrea Reinprecht, and Klaus Ulrich Klein*
- 3: Cerebral physiology, *Stefan Bittner, Kerstin Göbel and Sven. G. Meuth*
- 4: Monitoring anaesthetic depth, *Michael Avidan and Jamie Sleigh*
- 5: Autonomic nervous system, *David B. Glick, Gerald Glick, and Erica J. Stein*
- 6: Neuromuscular junction, *Christiane G. Stäuble, Heidrun Fink, and Manfred Blobner*
- 7: Principles of neuroprotection, *Sophia C. Yi, Brian P. Lemkuil, and Piyush Patel*
- 8: Neurotoxicity of general anaesthetics, *Margaret K. Menzel Ellis and Ansgar Brambrink*
- 9: Neurobiology of acute and chronic pain, *Adrian Pichurko and Richard Harris*

Section 2 - Clinical Neuroanaesthesia

- 10: Neurologic emergencies , *Ross P. Martini and Ines P. Koerner*
- 11: Neurophysiologic monitoring for neurosurgery, *Antoun Koht, Laura B. Hemmer, J. Richard Toleikis, and Tod B. Sloan*
- 12: Brain trauma, *Anne Sebastiani and Kristin Engelhard*
- 13: Supratentorial craniotomy for mass lesion, *Shaun E. Gruenbaum and Federico Bilotta*
- 14: Posterior fossa craniotomy, *Tasha L. Welch and Jeffrey J. Pasternak*
- 15: Cerebrovascular surgery, *Deepak Sharma and David R. Wright*
- 16: Interventional neuroradiology, *Nathan Manning, Katherine M. Gelber, Michael Crimmins, Philip M. Meyers, and Eric J. Heyer*
- 17: Pituitary and neuroendocrine surgery, *Douglas A. Colquhoun and Edward C. Nemergut*
- 18: Hydrocephalus and associated surgery, *Paola Hurtado and Neus Fàbregas*
- 19: Awake craniotomy, epilepsy and functional neurosurgery, *Lashmi Venkatraghavan and Pirjo Manninen*
- 20: Complex spine surgery, *Ehab Farag and Zeyd Ebrahim*
- 21: Spine trauma, *Timur M. Urakov and Michael Y. Wang*
- 22: Paediatric neurosurgery, *Sulpicio G. Soriano and Craig D. McClain*
- 23: Basics of neurocritical care, *Magnus Teig and Martin Smith*

Section 3 - Neurologic patients undergoing Non-neurologic surgery

- 24: Cerebrovascular disease, *Robert Sanders and Corey Amlong*
- 25: Dementia, *Phillip E. Vlisides and Zhongcong Xie*
- 26: Epilepsy, *Adam D. Niesen, Adam K. Jacob, and Sandra L. Kopp*
- 27: Parkinson s disease, *M. Luke James and Ulrike Hoffmann*
- 28: Major psychiatric disease, *Laszlo Vutskits*