

## **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*