



Endovascular Neurosurgery Through Clinical Cases

By Aristotelis P. Mitsos

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Endovascular neurosurgery is a recently introduced but rapidly evolving medical field, which uses minimally invasive interventions to treat major life-threatening vascular lesions of the Central Nervous System. Although its history counts less than 15 years of worldwide acceptance, it has rapidly displaced the traditional open neurosurgical techniques, being nowadays the first treatment choice for brain aneurysms and vascular malformations. Thus, the experience of each neuroendovascular center and performer is invaluable, offering the base for learning and teaching the new generation of interventionalists as well as for the evolvement of the method itself.

This book presents the basic principles of endovascular neurosurgery starting from clinical cases. Through this close-to-clinical-reality-process, the reader will be able to more thoroughly understand the pathophysiology of the brain and spine vascular lesions as well as the decision-making strategy, related to the indications, endovascular methods and results, finding suggestions and solutions to his/her clinical questions and problems. Besides chapters devoted to CNS vascular embryology and anatomy, clinical cases organized in groups based on the treated lesions are introduced: ruptured and unruptured cerebral aneurysms of the anterior and posterior circulation, side-wall and bifurcation aneurysms, arteriovenous malformations (AVM), dural arteriovenous fistulae (dAVF), arterial stenosis and angioplasty as well as spinal vascular lesions. A separate chapter is devoted to the organization and necessary equipment of the angio room and the department offering neuroendovascular service.

This volume will be of interest to neurosurgeons, interventional neuroradiologists, vascular surgeons, neurologists and ICU physicians as well as health care providers who are involved in the diagnosis and management of the vascular lesions of the brain and spine.

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Editorial Review

Review

“This book presents personal case illustrations of commonly used endovascular procedures for various arteriovenous malformations of the brain and the spine. ... It is appropriate for interventional neuroradiologists and neurosurgical trainees as well as established practitioners. It also can be helpful for neurologists and diagnostic neuroradiologists. ... The book is handy, to the point, and carries the weight of years of experience.” (Ramsis Farid Ghaly, Doody's Book Reviews, May, 2015)

From the Back Cover

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About the Author

Aristotelis P. Mitsos is a Lt Colonel of Hellenic Army and a Consultant Neurosurgeon with an expertise in Endovascular Neurosurgery. He has a Master of Science Degree from the University of Oxford, UK (2006) in Endovascular Neurosurgery and Interventional Neuroradiology; he is the Head of the Neuroendovascular Department in 401 Athens General Army Hospital, offering neuroendovascular services in more than 150 patients every year.

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