

Advances And Technical Standards In Neurosurgery Vol 38

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Advances And Technical Standards In Neurosurgery Vol 38

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LOZANO WOODARD

Advances and Technical Standards in Neurosurgery Springer

This series, sponsored by the European Association of Neurosurgical Societies, has already become a classic. In general, one volume is published per year. The Advances section presents fields of neurosurgery and related areas in which important recent progress has been made. The Technical Standards section features detailed descriptions of standard procedures to assist young neurosurgeons in their post-graduate training. The contributions are written by experienced clinicians, and are reviewed by all members of the Editorial Board.

Advances and Technical Standards in Neurosurgery Springer

There are two important reasons for commencing this new series of publications entitled "Advances and Technical Standards in Neurosurgery": 1. the lack of any organized common European postgraduate training system for young neurosurgeons and 2. the language barriers, which impede the exchange of neurosurgical findings in Europe more than in other parts of the world. The fact that the English language is well on the way to becoming the international medium at European scientific conferences is a great asset in terms of mutual understanding. Therefore the Editors have decided to publish all contributions in English, regardless of the native language of the authors. All contributions are submitted to the entire editorial board before publication of any volume. Our series is not intended to compete with the publications of original scientific papers in other neurosurgical journals. Our intention is, rather, to present fields of neurosurgery and related areas in which important recent advances have been made. The contributions will be written by specialists in the given fields and will constitute the first part of each volume.

Advances and Technical Standards in Neurosurgery Springer Science & Business Media

This volume of *Advances and Technical Standards in Neurosurgery* is devoted entirely to the spine. Like other volumes in the series, it presents important recent progress in the field and offers detailed descriptions of standard procedures to assist young neurosurgeons. Among the advances considered are approaches to spinal navigation, including intraoperative imaging based navigation, and concepts of spinal robotics. The value of sagittal balance as a parameter for the neurosurgeon is examined, and a novel surgical approach to longitudinal pathologies within the spinal canal is presented. Developments in surgery for kyphosis are also discussed, with a focus on pedicle subtraction osteotomy. The technical standards section critically reviews the latest evidence

regarding cervical disc arthroplasty and pedicle-based non-fusion stabilization devices. The book concludes by discussing the treatment of craniocervical junction instability as a result of juvenile chronic arthritis.

Advances and Technical Standards in Neurosurgery Springer Science & Business Media

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Advances and Technical Standards in Neurosurgery Springer Science & Business Media

No special field of surgery dealing with the cranial nerves exists today. This is not surprising in view of the characteristics of this group of morphologically and topographically heterogeneous nerves. Morphologically we must differentiate between central nerves (I, II and VIII) and the so-called peripheral nerves (nn. III to VII and IX to XII), in which post-lesion regeneration is quite different. Anatomotopographically we must consider an intracranial and an extracranial part of each cranial nerve. For practical reasons at operation, further subdivisions of the intracranial course of cranial nerves are to be distinguished in the anterior, middle and posterior cranial fossae as well as within the petrous bone. This underscores the extensive tasks awaiting surgeons operating in the ventral part of the brain and facial skull as well as in the more dorsal part of the skull and neck. This very wide field cannot be covered by a single surgical discipline alone. In our opinion, considerable progress has been made in surgery of the cranial nerves only in recent years. This may be explained by the increased mastery of microsurgical techniques by all surgeons interested in the surgery of the base of the skull as well as with the initiation of more interdisciplinary consultation and jointly performed operations. Possibilities of future development can be discerned in the text. The base of the skull separating the extra- and intracranial part of cranial nerves should not be a barrier but a connecting link.

Advances and Technical Standards in Neurosurgery Springer Science & Business Media

This volume of *Advances and Technical Standards in Neurosurgery* covers some important new developments in functional neurosurgery and endovascular therapy. In the Technical Standards section a variety of topics are considered, including optic pathway gliomas, pineal lesions, cavernous sinus meningiomas and the eternal problem of minor and repetitive head injury. Endovascular

treatment of a variety of lesions is now common practice and the state of the art in endovascular treatment for acute ischemic stroke is reviewed. An appraisal of the evidence on whether there is a place for microsurgical vascular decompression for essential hypertension raises interesting questions. The volume is completed by contributions on neurosurgical treatment of cluster headaches and occipital nerve stimulation.

Advances and Technical Standards in Neurosurgery Springer Science & Business Media

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This volume reviews standard treatments for spinal dural arteriovenous fistulas, examining the anatomy of arteries and veins of the sylvian fissure, as well as microsurgical advances and the development of modern therapeutic strategies in intracranial meningiomas. The advances section presents a strategy for minimizing hearing loss after stereotactic radiosurgery for vestibular schwannomas, as well as a description of the mode of action and biology of ALA, including its interaction with tumor cells and the limits of this method. A dedicated chapter addresses the essential question of the limits (and merits) of various tractography techniques and of their importance for non-specialists, who may be tempted to use them uncritically. A further chapter examines molecular markers, which have become standard in neuropathological reports on intracranial tumors, reviewing the prognostic and predictive value of these modern molecular markers in gliomas. Additional chapters round out the coverage, offering a comprehensive overview of standard and advanced techniques.

Advances and Technical Standards in Neurosurgery Springer Science & Business Media

The latest in this already classic series presents recent progress and detailed descriptions of standard procedures, to assist young neurosurgeons in their post-graduate training. With contributions from experienced European and American clinicians.

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native language of the authors. All contributions are submitted to the entire editorial board before publication of any volume for scrutiny and suggestions for revision. Our series is not intended to compete with the publications of original scientific papers in other neurosurgical journals. Our intention is, rather, to present fields of neurosurgery and related areas in which important recent advances have been made. The contributions are written by specialists in the given fields and constitute the first part of each volume.

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Advances and Technical Standards in Neurosurgery Vol. 30 Springer

This dedicated volume in the series *Advances and Technical Standards in Neurosurgery (ATSN)* provides a comprehensive approach to diseases of the craniovertebral junction (CVJ) and their management based on the multidisciplinary cooperation of neurosurgeons, anatomists, neuroradiologists, and neuroanesthesiologists. The contributing authors represent the most renowned clinical and surgical experts from Europe and beyond. The main topics highlighted are embryology, normal and abnormal development of the CVJ, including the related vessels, modern radiological contributions to diagnosis, genetic and metabolic factors which may impact on the surgical strategies, the opportunities offered by traditional operative techniques, and the recently introduced minimally invasive and endoscopic surgical modalities. Special emphasis is also placed on the evolution of the principles of surgical treatment as matured during the past decade by experiences in the still open field of pediatric neurosurgery.

Advances and Technical Standards in Neurosurgery Springer Science & Business Media
Targeted at clinicians and residents, this series has already become a classic, with one volume published each year. The *Advances* section presents fields of neurosurgery and related areas in which important recent progress has been made. The *Technical Standards* section features detailed descriptions of standard procedures to assist young neurosurgeons in their post-graduate training. The contributions have been written by experienced clinicians and are reviewed by all members of the editorial board.

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