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Titolo	Principles of neurological surgery // Richard G. Ellenbogen, MD, FACS, Professor and Chairman, Theodore S. Roberts Endowed Chair, Department of Neurological Surgery, University of Washington, Seattle, Washington, Laligam N. Sekhar, MD, FACS, FAANS, Professor and Vice Chairman, Neurological Surgery, Harborview Medical Center, University of Washington, Seattle, Washington, Neil D. Kitchen, MD, FRCS (SN), Consultant Neurosurgeon, National Hospital for Neurology and Neurosurgery, Queen Square, London, United Kingdom ; assistant editor, Harley Brito da Silva, MD, Department of Neurological Surgery, Harborview Medical Center, University of Washington, Seattle, Washington
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Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Revised edition of: Principles of neurological surgery / editors, Richard G. Ellenbogen, Saleem I. Abdulrauf ; associate editor, Laligam N. Sekhar. 3rd ed. ©2012.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Section 1: General overview. Landmarks in the history of neurosurgery -- Challenges in global neurosurgery -- Pearls for clinical evaluation of the nervous system -- Principles of modern neuroimaging -- Neuro anesthesia and monitoring for cranial and complex spinal surgery -- Surgical positioning, navigation, important surgical tools, craniotomy and closure of cranial and spinal wounds -- Section 2: Pediatric neurosurgery. Spinal dysraphism and tethered spinal cord -- Hydrocephalus in children -- Diagnosis and surgical options for craniosynostosis -- The Chiari malformations and syringomyelia -- Posterior fossa and brainstem tumors in children --

Craniopharyngiomas -- All other brain tumors in pediatrics -- Pediatric vascular disease and stroke -- Section 3: Vascular neurosurgery. Medical and surgical treatment of cerebrovascular occlusive disease -- Intracranial aneurysms, general principles of management (ruptured and unruptured) -- Surgery for anterior circulation aneurysms -- Surgery for posterior circulation aneurysms -- Complex intracranial aneurysms and bypasses for aneurysms -- Vascular malformations (arteriovenous malformations and rural arteriovenous fistulas) -- Cavernous malformations of the brain and spinal cord -- Spontaneous intracerebral hemorrhage -- Endovascular treatment of acute stroke and occlusive cerebrovascular disease -- Endovascular treatment of intracranial aneurysms -- Section 4: Trauma. Surgical Management of Closed Head Injury -- Critical Care Management of Neurosurgical Patients -- Penetrating Brain Injury -- Traumatic Skull and Facial Fractures -- Section 5: The spine. Injuries to the cervical spine -- Thoracolumbar spine fractures -- Intradural extramedullary and intramedullary spinal cord tumors -- Treatment of spinal metastatic tumors -- Spinal cord injury -- Craniovertebral junction: a reappraisal -- Degenerative spine disease (cervical) -- Degenerative spine disease (thoracolumbar) -- Pediatric and adult scoliosis -- Section 6: Tumors. High-grade gliomas -- Low-grade gliomas -- Metastatic brain tumors -- Convexity, and parasagittal vs. skull base meningiomas -- Tumors of the pineal region -- Cerebellopontine angle tumors -- Pituitary tumors: diagnosis and management -- Endoscopic approaches to ventricular tumors and colloid cysts -- Microsurgical approaches to the ventricular system -- Base tumors: evaluation and microsurgery -- Endoscopic approaches to skull base lesions -- Jugular foramen tumors: paraganglioma and schwannoma -- Section 7: Radiosurgery and radiotherapy. Application of current radiation delivery systems and radiobiology -- Radiosurgery of central nervous system tumors and arteriovenous malformations -- Proton beam therapy and particle beam radiotherapy for cranial and skull base tumors -- Section 8: Functional pain. Trigeminal neuralgia -- Spasticity: classification, diagnosis and management -- Surgery for temporal lobe epilepsy -- Extratemporal procedures and hemispherectomy for epilepsy -- Deep brain stimulation for movement disorders -- Stereotactic functional neurosurgery for mental health disorders, pain and epilepsy -- Section 9: Miscellaneous. Surgical management of infections of the central nervous system, cranium and of the spine -- Adult congenital CSF disorders -- Management of peripheral nerve injuries -- Entrapment neuropathies, peripheral nerve tumors -- Pre-hospital care of TBI patients.

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### Sommario/riassunto

Perfect for anyone considering or training in this challenging specialty, *Principles of Neurological Surgery, 4th Edition*, by Drs. Richard G. Ellenbogen, Laligam N. Sekhar, and Neil Kitchen, provides a clear, superbly illustrated introduction to all aspects of neurosurgery—from general principles to specific techniques. Thorough updates from leading authors ensure that you'll stay abreast of the latest advances in every area of neurosurgery, including pre- and post-operative patient care, neuroradiology, pediatric neurosurgery, neurovascular surgery, trauma surgery, spine surgery, oncology, pituitary adenomas, cranial base neurosurgery, image-guided neurosurgery, treatment of pain, epilepsy surgery, and much more.

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