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Titolo	Neurological Aspects of Spinal Cord Injury / / edited by Norbert Weidner, Rüdiger Rupp, Keith E. Tansey
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-46293-8
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (VIII, 770 p. 102 illus., 61 illus. in color.)
Disciplina	616.8
Soggetti	Neurology Rehabilitation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Part 1 Basics: Epidemiology -- Neuroanatomy -- Pattern of Neurological Dysfunction -- Natural Disease Course -- Part 2 Non-traumatic spinal cord injury: Ischemia -- Neuroimmunology -- Cord Compression (metastasis, hemorrhage, empyema, spondylodiscitis) -- CNS tumors (glioma, ependymoma) -- Pearls: myelopathy -- Part 3 Diagnostics: Blood/CSF workup -- Spinal Cord Imaging -- Spinal Cord Neurophysiology -- Part 4 Neurological Complications: Pain -- Spasticity -- Syringomyelia -- Neurogenic respiratory failure -- Part 5 Autonomic nervous system dysfunction: Neuro Internal Medicine (cardiovasc, endocrine) -- Neurourology -- Neurogastroenterology -- Part 6 Therapy: Neurorehabilitation – upper extremity restauration -- Neurorehabilitation – lower extremity restauration -- Neuroregeneration -- Neuroprotection -- Neuroprosthetics -- Translation – relevance of SCI animal models -- Translation - clinical trial design.
Sommario/riassunto	This clinically focused book aims to cover for the first time all of the neurological aspects relevant to the diagnosis and treatment of spinal cord disease. Furthermore, innovative neurorestorative therapeutic strategies - aiming for repair of the damaged spinal cord and/or reorganization of the remaining nervous system - with significant potential for translation into clinical routine are presented. The book

covers a comprehensive list of topics, including epidemiology, neuroanatomy, etiology of compressive and non-compressive spinal cord injury, imaging, neurophysiology, neurological sequelae, and complications with emphasis on dysfunction of the autonomic nervous system. Both clinically established and preclinical therapies are discussed in detail. The book is suited for trainees and practicing clinicians including neurologists, spine surgeons, rehabilitation specialists, neuroradiologists, and occupational/physical therapists; it will also be of value to neuroscientists involved in research into spinal cord disease.