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Titolo	Pediatric Hydrocephalus [[electronic resource] /] / edited by Giuseppe Cinalli, M. Memet Özek, Christian Sainte-Rose
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ISBN	3-319-27250-0
Edizione	[2nd ed. 2019.]
Descrizione fisica	1 online resource (956 illus., 461 illus. in color. eReference.)
Disciplina	617.481
Soggetti	Neurosurgery Pediatrics Neurology Neuroradiology Neurosciences Neurology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	From the contents: History of Hydrocephalus and of its treatment -- Experimental Hydrocephalus: Models and study Methods -- Genetics of hydrocephalus -- Development of the cerebrospinal fluid pathways during embryonic and fetal life in humans -- Anatomy and histology of cerebral and spinal meninges -- The choroid plexus -- CSF circulation -- CSF hydrodynamics -- Molecular basis of Hydrocephalus -- Biomechanics of Hydrocephalus -- Pathology of Hydrocephalus -- Radiology of Hydrocephalus -- Classification and definition of Hydrocephalus -- Clinic of Hydrocephalus.-Prenatal Hydrocephalus -- Post haemorrhagic hydrocephalus in prematures -- Post haemorrhagic hydrocephalus in prematures -- Post haemorrhagic hydrocephalus in prematures -- Hydrocephalus and Myelomeningocele -- Hydrocephalus associated with cerebral malformations -- Hydrocephalus in posterior fossa tumors -- Hydrocephalus in suprasellar and basal ganglia tumors -- Hydrocephalus in pineal and tectal tumors -- Hydrocephalus and colloid cysts -- Hydrocephalus and spinal tumors -- Post-infectious Hydrocephalus -- Hydrocephalus in developing countries --

Multiloculated Hydrocephalus -- Hydrocephalus and Parasitosis -- Hydrocephalus and Dandy-Walker malformation -- Hydrocephalus and aqueductal stenosis -- Extraventricular intracisternal obstructive hydrocephalus -- Hydrocephalus and arachnoid cysts -- Hydrocephalus in Achondroplasia and venous hypertension -- CSF Hydrodynamics in Craniosynostosis -- Hydrocephalus and Neurofibromatosis -- Hydrocephalus and malformations of Cranio cervical junction -- Hydrocephalus and vein of Galen Malformation -- Post-traumatic Hydrocephalus -- Post tubercular Hydrocephalus -- Fetal surgery -- ICP Monitoring: Indications, Techniques, interpretation -- CSF hydrodynamics applied to the CSF shunt design -- Shunt hardware -- CSF shunt insertion: Surgical techniques -- Mechanical complications in CSF shunts -- CSF shunt infection -- Abdominal complications in shunts -- Slit ventricle syndromes -- Endoscopic anatomy -- Third Ventriculostomy -- Third Ventriculostomy and Choroid Plexus Coagulation -- Aqueductoplasty and Aqueductal stenting -- Septostomy and complex procedures -- Third ventriculostomy in shunt malfunction -- Radiological assessment before and after endoscopic third ventriculostomy -- Complications of third ventriculostomy -- Obstruction of third ventriculostomy -- Outcome analysis -- ETV under 2 years in Triventricular hydrocephalus -- Long term evaluation and QOL assessment of hydrocephalus outcome -- Growth and puberty in Hydrocephalus -- Hydrocephalus and Epilepsy -- Rehabilitation for hydrocephalic children -- Transitional care in pediatric neurosurgical patients -- Benign pericerebral collections in infants -- Syringomyelia in pediatric age -- Benign intracranial Hypertension in children.

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## Sommario/riassunto

Since the first edition of this book, the impressive development of neuroendoscopy has dramatically changed the surgical approach to hydrocephalus, the main pathology pediatric neurosurgeons worldwide have to deal with. This revised and updated second edition, written by worldwide leaders in the field, fully reflects this progress: not only existing chapters have been reviewed whenever required, but new ones have been added thus taking into consideration every aspect of hydrocephalus, even when associated with the rarest pathologies. The general part include now more data on history, biomechanics, circulation and molecular basis. Special consideration for fetal surgery has been added, whereas the section on neonatal hydrocephalus has been further developed. Section 4, on the different pathologies associated with hydrocephalus, has been significantly expanded. and is now amazingly detailed, as well as the section on shunt treatment. Infections are now dealt with in two different chapters, and special attention to shunt complications (the nightmare of every Pediatric Neurosurgeon.) is paid in five different chapters. A very complete overview of the endoscopic treatment, that will surely draw the reader's attention thanks to the wonderful full color images, is also included. Written by acknowledged experts in the field, this title is an indispensable tool for all those facing this pathology in their daily practice.

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