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Nota di contenuto	Part I: History and Classifications -- 1. A History of the Chiari Malformations -- 2. Defining the Chiari Malformations: Past and Newer Classifications -- 3. Newer Subsets: Chiari 1.5 and Chiari 0 Malformations -- Part II: Embryology and Anatomy -- 4. Embryology of the Craniocervical Junction and Posterior Cranial Fossa -- 5. Embryology and Pathophysiology of the Chiari I and II Malformations -- 6. The Occipital Bone: Review of its Embryology and Molecular Development -- 7. The Proatlas -- 8. Development of the Atlas and its Variations -- 9. The Odontoid Process -- 10. Surgical Anatomy of the Craniocervical Junction Relevant to Chiari Malformations.-Part III: Pathology -- 11. Pathology of Chiari I and II Malformations -- 12. Research on the Pathophysiology of Chiari I-Related Symptoms and

Syringomyelia, with Emphasis on Dynamic MRI Techniques -- 13. The Chiari Malformations and Hydrocephalus -- 14. Cerebellar Tonsillar Ischemia and Cysts in the Chiari I Malformation -- 15. Syringomyelia and the Chiari Malformations -- 16. Non-Hindbrain-Related Syringomyelia -- 17. Chiari and Scoliosis -- 18. Associated Bony Malformations and Instability in the Chiari I Malformation.-19. Ventral Decompression for Chiari Malformations -- 20. Chiari I Malformation and Craniosynostosis -- Part IV: Epidemiology, Natural History, and Genetics -- 21. Epidemiology of Chiari I Malformation -- 22. Natural History of Chiari Malformations -- 23. Genetics of the Chiari I and II Malformations -- Part V: Diagnostics -- 24. Electrophysiological Diagnostics in Chiari Malformation -- 25. Radiology -- 26. Measurement of the Volume of the Posterior Cranial Fossa using MRI -- 27. Intraoperative Ultrasound in Chiari Type I Malformation -- 28. Advanced Imaging of Chiari I Malformations -- Part VI: Clinical Presentations -- 29. Clinical Presentation of Pediatric Chiari I Malformations -- 30. Benign Chiari I Malformation -- 31. Unusual Presentations of the Chiari I Malformation -- 32. Clinical Presentation Adult Chiari I -- 33. Acute and Sudden Presentations of the Chiari Malformations -- 34. Associated Disorders of Chiari Type I Malformations -- 35. Association Between Fibromyalgia, Chronic Fatigue, and the Chiari I Malformation -- 36. Symptoms of the Chiari II Malformation -- Part VII: Treatment, Outcomes, and Complications -- 37. Treatment of the Pediatric Chiari I Malformation -- 38. Treatment of the Adult Chiari I Malformation -- 39. Treatment of the Chiari II Malformation -- 40. Chiari Type II Malformation: Reversibility Following Myelomeningocele Closure.-41. Duraplasty Versus Non-dural Opening for the Treatment of Pediatric Chiari Malformation Type I.-42. Chiari Decompression Outcomes Using Ligamentum Nuchae Harvest and Duraplasty in Pediatric Patients with Chiari I Malformation -- 43. Complications of Chiari Surgery -- 44. Secondary Interventions for Chiari I Malformation -- 45. Outcomes for the Surgical Management of Chiari I and Chiari II Malformations -- Part VIII: Miscellaneous -- 46. Chiari-Like Malformation in Dogs -- 47. Experimental Models of Chiari Malformations -- 48. Predictive Analysis in Chiari Type I Malformation -- 49 -- Treatment Costs of Chiari Type I Malformation -- 50. A Multidisciplinary Clinic for the Management of Chiari I Malformations -- 51. Chiari Malformations: a Patient's Guide -- Part IX: Conclusions -- 52. Conclusions.

Sommario/riassunto

This unique, contemporary book is the successor edition of a ground-breaking, authoritative title devoted to the pathology and treatment of chiari malformations. Since an abundance of research and development has occurred after the publication of the Chiari Malformations this updated title meets the market need for a reference that reflects such advances in the field. Chiari Malformations, 2nd Edition is divided into nine sections. Opening sections feature chapters on general aspects, diagnostic features and clinical presentation. These are followed by sections on differential diagnosis, treatment and prognosis. Finally, the book closes with an extensive discussion on research, related pathologies and patient resources. Expertly written chapters are supplemented with numerous high-quality illustrations and images to aid in visual learning. An impressive, nuanced successor, Chiari Malformations, 2nd Edition, is an invaluable resource for neuroscientists and clinicians at all levels, as well as graduate students to specific research scientists studying this region.