

BÖLÜM

29

SANTRAL SİNİR  
SİSTEMİ TÜMÖRLERİ

*Çağrı DAMAR<sup>1</sup>*

**Vaka 1:** Medulloblastom

**Vaka 2:** Pilositik Astrositom

**Vaka 3:** Ependimom

**Vaka 4:** Beyin Sapı Gliomu

**Vaka 5:** Atipik Teratoid Rabdoid Tümör

**Vaka 6:** Kraniofaringiom

**Vaka 7:** Hipotalamik hamartom

**Vaka 8:** Pleomorfik ksantoastrositom

**Vaka 9:** Spinal meningiom

**Vaka 10:** Miksopapiller ependimom

---

<sup>1</sup> Uzman doktor, Gaziantep Üniversitesi Tıp Fakültesi, Radyoloji Anabilim Dalı, Gaziantep, [cagridamar@hotmail.com](mailto:cagridamar@hotmail.com)

## KAYNAKÇA

1. Brandao LA, Young Poussaint T. Posterior Fossa Tumors. *Neuroimaging Clin N Am*. 2017; 27(1):1-37.
2. Drevelegas A, Chourmouzi D, Constantinides M, et al. Posterior Fossa Tumors. *Journal of Pediatric Neuro-radiology*. 2016;5(02):089-110.
3. Plaza MJ, Borja MJ, Altman N, et al. Conventional and advanced MRI features of pediatric intracranial tumors: posterior fossa and suprasellar tumors. *AJR Am J Roentgenol*. 2013; 200(5):1115-1124.
4. Poretti A, Meoded A, Huisman TA. Neuroimaging of pediatric posterior fossa tumors including review of the literature. *J Magn Reson Imaging*. 2012;35(1):32-47.
5. Koeller KK, Rushing EJ. From the archives of the AFIP: medulloblastoma: a comprehensive review with radiologic-pathologic correlation. *Radiographics*. 2003;23(6):1613-1637.
6. Poretti A, Meoded A, Cohen KJ, et al. Apparent diffusion coefficient of pediatric cerebellar tumors: a biomarker of tumor grade? *Pediatr Blood Cancer*. 2013;60(12):2036-2041.
7. Panigrahy A, Bluml S. Neuroimaging of pediatric brain tumors: from basic to advanced magnetic resonance imaging (MRI). *J Child Neurol*. 2009;24(11):1343-1365.
8. Barkovich AJ: Pediatric neuroimaging: Lippincott Williams & Wilkins; 2005.
9. Rumboldt Z, Camacho DL, Lake D, et al. Apparent diffusion coefficients for differentiation of cerebellar tumors in children. *AJNR Am J Neuroradiol*. 2006;7(6):1362-1369.
10. Jaremko JL, Jans LB, Coleman LT, et al. Value and limitations of diffusion-weighted imaging in grading and diagnosis of pediatric posterior fossa tumors. *AJNR Am J Neuroradiol*. 2010;31(9):1613-1616.
11. Korol K, Gargan L, Bowers DC, et al. Imaging characteristics of atypical teratoid-rhabdoid tumor in children compared with medulloblastoma. *AJR Am J Roentgenol*. 2008;190(3):809-814.
12. Goo HW, Ra YS. Advanced MRI for Pediatric Brain Tumors with Emphasis on Clinical Benefits. *Korean J Radiol*. 2017;18(1):194-207.
13. Moreno-Torres A, Martinez-Perez I, Baquero M, et al. Taurine detection by proton magnetic resonance spectroscopy in medulloblastoma: contribution to noninvasive differential diagnosis with cerebellar astrocytoma. *Neurosurgery*. 2004;55(4):824-829; discussion 9.
14. Brandao LA, Shiroishi MS, Law M. Brain tumors: a multimodality approach with diffusion-weighted imaging, diffusion tensor imaging, magnetic resonance spectroscopy, dynamic susceptibility contrast and dynamic contrast-enhanced magnetic resonance imaging. *Magn Reson Imaging Clin N Am*. 2013; 21(2):199-239.
15. Frühwald MC, Rutkowski S. Tumors of the central nervous system in children and adolescents. *Deutsches Arzteblatt international* 2011;108(22):390-397.
16. Khong PL, Kwong DL, Chan GC, et al. Diffusion-tensor imaging for the detection and quantification of treatment-induced white matter injury in children with medulloblastoma: a pilot study. *AJNR Am J Neuroradiol*. 2003;24(4):734-740.
17. Mabbott DJ, Noseworthy MD, Bouffet E, et al. Diffusion tensor imaging of white matter after cranial radiation in children for medulloblastoma: correlation with IQ. *Neuro Oncol*. 2006;8(3):244-252.
18. AlRayahi J, Zapotocky M, Ramaswamy V, et al. Pediatric brain tumor genetics: what radiologists need to know. *Radiographics*. 2018;38(7):2102-2122.
19. Gaudino S, Martucci M, Russo R, et al. MR imaging of brain pilocytic astrocytoma: beyond the stereotype of benign astrocytoma. *Childs Nerv Syst*. 2017;33(1):35-54.
20. Chourmouzi D, Papadopoulou E, Konstantinidis M, et al. Manifestations of pilocytic astrocytoma: a pictorial review. *Insights Imaging*. 2014;5(3):387-402.
21. Louis DN, Perry A, Reifenberger G, et al. The 2016 World Health Organization Classification of Tumors of the Central Nervous System: a summary. *Acta Neuropathol*. 2016;131(6):803-820.
22. Koeller KK, Rushing EJ. From the archives of the AFIP: pilocytic astrocytoma: radiologic-pathologic correlation. *Radiographics*. 2004;24(6):1693-1708.
23. Bing F, Kremer S, Lamalle L, et al. [Value of perfusion MRI in the study of pilocytic astrocytoma and hemangioblastoma: preliminary findings]. *J Neuroradiol*. 2009;36(2):82-87.
24. Yuh EL, Barkovich AJ, Gupta N. Imaging of ependymomas: MRI and CT. *Childs Nerv Syst*. 2009;25(10):1203-1213.
25. Tihan T, Zhou T, Holmes E, et al. The prognostic value of histological grading of posterior fossa ependymomas in children: a Children's Oncology Group study and a review of prognostic factors. *Mod Pathol*. 2008;21(2):165-177.
26. Rasalkar DD, Chu WC, Paunipagar BK, et al. Paediatric intra-axial posterior fossa tumours: pictorial review. *Postgrad Med J*. 2013;89(1047):39-46.
27. Ullrich NJ. Neurocutaneous Syndromes and Brain Tumors. *J Child Neurol*. 2016;31(12):1399-1411.

28. Farmer JP, Montes JL, Freeman CR, et al. Brainstem Gliomas. A 10-year institutional review. *Pediatr Neurosurg.* 2001;34(4):206-214.
29. Lobel U, Sedlacik J, Reddick WE, et al. Quantitative diffusion-weighted and dynamic susceptibility-weighted contrast-enhanced perfusion MR imaging analysis of T2 hypointense lesion components in pediatric diffuse intrinsic pontine glioma. *AJNR Am J Neuroradiol.* 2011;32(2):315-322.
30. Giussani C, Poliakov A, Ferri RT, et al. DTI fiber tracking to differentiate demyelinating diseases from diffuse brain stem glioma. *Neuroimage.* 2010;52(1):217-223.
31. Seymour ZA, Panigrahy A, Finlay JL, et al. Citrate in pediatric CNS tumors? *AJNR Am J Neuroradiol.* 2008;29(5):1006-1011.
32. Frappaz D, Schell M, Thiesse P, et al. Preradiation chemotherapy may improve survival in pediatric diffuse intrinsic brainstem gliomas: final results of BSG 98 prospective trial. *Neuro Oncol.* 2008;10(4):599-607.
33. Sabbagh AJ, Alaqeel AM. Focal brainstem gliomas. Advances in intra-operative management. *Neurosciences (Riyadh).* 2015;20(2):98-106.
34. Silva AHD, Aquilina K. Surgical approaches in pediatric neuro-oncology. *Cancer Metastasis Rev.* 2019;38(4):723-747.
35. Prabhu SP, Ng S, Vajapeyam S, et al. DTI assessment of the brainstem white matter tracts in pediatric BSG before and after therapy: a report from the Pediatric Brain Tumor Consortium. *Childs Nerv Syst.* 2011;27(1):11-8.
36. Meyers SP, Khademian ZP, Biegel JA, et al. Primary intracranial atypical teratoid/rhabdoid tumors of infancy and childhood: MRI features and patient outcomes. *AJNR Am J Neuroradiol.* 2006;27(5):962-971.
37. Arslanoglu A, Aygun N, Tekhtani D, et al. Imaging findings of CNS atypical teratoid/rhabdoid tumors. *AJNR Am J Neuroradiol.* 2004;25(3):476-480.
38. McCrea HJ, George E, Settler A, et al. Pediatric Suprasellar Tumors. *J Child Neurol.* 2016;31(12):1367-1376.
39. Yildiz AE, Oguz KK, Fitoz S. Suprasellar masses in children: Characteristic MR imaging features. *J Neuro-radiol.* 2016;43(4):246-259.
40. Salmela MB, Cauley KA, Andrews T, et al. Magnetic resonance diffusion tensor imaging of the optic nerves to guide treatment of pediatric suprasellar tumors. *Pediatr Neurosurg.* 2009;45(6):467-471.
41. Udaka YT, Packer RJ. Pediatric Brain Tumors. *Neurol Clin.* 2018;36(3):533-556.
42. Lee HS, Seol HJ, Kong DS, et al. Moyamoya syndrome precipitated by cranial irradiation for craniopharyngioma in children. *J Korean Neurosurg Soc.* 2011;50(6):535-7.
43. Saleem SN, Said AH, Lee DH. Lesions of the hypothalamus: MR imaging diagnostic features. *Radiographics.* 2007;27(4):1087-108.
44. Zamora C, Huisman TA, Izbudak I. Supratentorial Tumors in Pediatric Patients. *Neuroimaging Clin N Am.* 2017; 27(1):39-67.
45. Dang M, Phillips PC. Pediatric Brain Tumors. Continuum (Minneapolis). 2017;23(6, Neuro-oncology):1727-57.
46. Borja MJ, Plaza MJ, Altman N, et al. Conventional and advanced MRI features of pediatric intracranial tumors: supratentorial tumors. *AJR Am J Roentgenol.* 2013;200(5):W483-503.
47. Beall DP, Googe DJ, Emery RL, et al. Extramedullary intradural spinal tumors: a pictorial review. *Curr Probl Diagn Radiol.* 2007;36(5):185-98.
48. Merhemic Z, Stosic-Opincal T, Thurnher MM. Neuroimaging of Spinal Tumors. *Magn Reson Imaging Clin N Am.* 2016;24(3):563-79.
49. Pinter NK, Pfiffner TJ, Mechtler LL. Neuroimaging of spine tumors. *Handb Clin Neurol.* 2016;136:689-706.
50. Koeller KK, Rosenblum RS, Morrison AL. Neoplasms of the spinal cord and filum terminale: radiologic-pathologic correlation. *Radiographics.* 2000;20(6):1721-49.