

# ALP ÖZGÜN BÖRCEK

Pediatric Neurosurgeon, Prof. Dr. MD

[alpborcek@gmail.com](mailto:alpborcek@gmail.com)



00 90 533 634 37 51



Ankara, TURKEY



[alpborcek.com](http://alpborcek.com)



@pediatricneurosurgery



@alpborcek



## PERSONAL INFO

<b>Gender</b>	Male	<b>Foreign Language</b>	English (IELTS 7.5)
<b>Date of Birth</b>	07 Nov 1978		
<b>Birth Place</b>	Turkey		
<b>Marital Status</b>	Single		

## EDUCATION and ACADEMIC POSITIONS

<b>1996-2002</b>	Hacettepe University Faculty of Medicine, Ankara, Turkey
<b>2002-2009</b>	Gazi University Department of Neurosurgery , Ankara, Turkey
<b>2007-2008</b>	Hospital for Sick Children – Toronto - Canada
<b>2011-2015</b>	Full-Time Neurosurgeon in Gazi University Faculty of Medicine
<b>2015-2017</b>	Full-Time Pediatric Neurosurgeon in Gazi University Faculty of Medicine, Ankara, Turkey
<b>2015</b>	Decorated as Associate Professor
<b>Since 2017</b>	Head of Division of Pediatric Neurosurgery Division, Gazi University, Ankara, Turkey
<b>2022</b>	Decorated as Professor of Neurosurgery

## AWARDS

<b>2006</b>	AANS Pediatric Section Travelling Fellowship Award
<b>2007</b>	Gazi University Academic Publication Award
<b>2011</b>	Gazi University Academic Publication Award
<b>2013</b>	WFNS Traveling Neurosurgeon Award
<b>2014</b>	Gazi University Academic Publication Award
<b>2014</b>	Gazi University Scientific Project Award

## MEMBERSHIPS

Turkish Neurosurgical Society	International Society of Pediatric Neurosurgery
Pediatric Section of TNS	European Association of Neurological Societies
Neurooncology Section of TNS	Turkish Pediatric Oncology Society
Congress of Neurological Surgeons	Eurospine / AO Spine

## PROFESSIONAL EXPERTISE

Hydrocephalus	Congenital Spinal Anomalies
Neuroendoscopy	Craniosynostosis
Neurooncology	Gamma Knife Radiosurgery

## PROJECTS INVOLVED

Organisation	Project Name	Role	Status
Gazi University Scientific Research Projects	Intraoperative Magnetic Resonance Imaging in Cranial and Spinal Neurosurgical Diseases	RESEARCHER	COMPLETED
Gazi University Scientific Research Projects	Effects of O-Arm Device on Performance of Neurosurgery Residents	ARAŞTIRMACI	COMPLETED
Scientific And Technological Research Council Of Turkey	Surgical Navigation Project	MANAGER	COMPLETED
AO SPINE	Prognostic Factors and Therapeutic Effects of Surgical Treatment for Traumatic Spinal Column Injury with Spinal Cord Injury: A Prospective, Observational European Multi Center Study – SCI-POEM	RESEARCHER	COMPLETED
Gazi University Scientific Research Projects	Comparison of microsurgery and gamma knife radiosurgery on quality of life	RESEARCHER	COMPLETED
BioMarin Pharmaceutical Inc	Safety of application of intracerebral applicarion of BMN 250 in patients with MPS IIIB, Sanfilipo Syndrome Tip B)etiği ve Etkililiğinin Değerlendirildiği Faz 1/2 Açık Etiketli Doz Artırma Çalışması / 250-201	RESEARCHER	ONGOING
Presidency of the Republic of Turkey Digital Transformation Office	Brain project – AI applications in neurosurgery	MANAGER	ONGOING

## INTERNATIONAL PUBLICATIONS

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- 1 Börcek AÖ, Ergun E, Emmez H, Kurt G, Dogulu F, Baykaner MK. Anterior thoracic myelomeningocele presenting as a retromediastinal mass: Case report. . J Neurosurg. 2005; 103(1 Suppl – J Neurosurg Pediatric): 79-82.
- 2 Börcek AÖ, Emmez H, Dogulu F, Baykaner MK. Association of a Sylvian Arachnoid Cyst and Trigenocephaly in a Developing Child: Importance and Management. Child Nerv Sys 2006; 22(5): 530-2
- 3 Emmez H, Börcek AÖ, Dogulu F, Ceviker N. Ischemic Stroke Complicated by a Brain Abscess: A Case Report and Review of the Literature. Turk Neurosurg 2007; 17: 48 – 54
- 4 Kurt G, Börcek AÖ, Kardes O, Aydincak O, Ceviker N. Transcranial arrow injury: a case report. Ulus Travma Acil Cerrahi Derg 2007; 13: 241 – 243
- 5 Kurt G, Börcek AÖ, Cemil B, Uçankuş NL, Dogulu F, Baykaner MK. The effects of topical granulocyte-macrophage colony-stimulating factor on dural healing in rats after induced cerebrospinal fluid leakage. J Neurosurg Spine 2007 Oct; 7(4):419-22.
- 6 Ergun E, Börcek AÖ, Cemil B, Doğulu F, Baykaner MK. Should We Operate all Extradural Spinal Arachnoid Cysts? Report of a Case. Turk Neurosurg.2008;18(1):52-55
- 7 Kurt G, Ergün E, Cemil B, Börcek AÖ, Borcek P, Gülbahar O, Ceviker N. Neuroprotective effects of infliximab in experimental spinal cord injury. Surg Neurol 2009; 71(3): 332-6
- 8 Emmez H, Küçüködük I, Börcek AÖ, Kale A, Seçen E, Erbaş G, Yavuzer R, Baykaner MK. Effectiveness of skull models and surgical simulation: comparison of outcome between different surgical techniques in patients with isolated brachycephaly. Childs Nerv Syst 2009; 25(12):1605-12
- 9 Kurt G, Tonge M, Börcek AÖ, Karahacioglu E, Gürel O, Baykaner K, Çeviker N, Aykol S. Fractionated gamma knife radiosurgery for optic nerve tumors: a technical report. Turk Neurosurg. 2010 Apr;20(2):241-6.
- 10 Emmez H, Börcek AÖ, Kaymaz M, Kaymaz F, Durdağ E, Çivi S, Gülbahar Ö, Aykol Ş, Paşaoğlu A. Neuroprotective effects of gabapentin in experimental spinal cord injury. World Neurosurg. 2010; 73 (6): 729-34
- 11 Kurt G, Cemil B, Börcek AÖ, Börcek P, Akyürek N, Sepici A, Çeviker N. Infliximab administration reduces neuronal apoptosis on the optic pathways in a rabbit hydrocephalus model: a preliminary report. Br. J Neurosurg. 2010; 24 (3): 257-9
- 12 Emmez H, Yildirim Z, Kale A, Tönge M, Durdağ E, Börcek AÖ, Uçankuş LN, Doğulu F, Kiliç N, Baykaner MK. Anti-apoptotic and neuroprotective effects of alpha-lipoic acid on spinal cord ischemia-reperfusion injury in rabbits. Acta Neurochir (Wien). 2010; 152(9): 1591-600
- 13 Guven C, Börcek AÖ, Cemil B, Kurt G, Yıldırım Z, Uçankuş NL, Kılıç N, Çeviker N. Neuroprotective effects of infliximab in experimental spinal cord ischemic injury. J Clin Neurosci. 2010; 17 (12): 1563-7

- 14 Börcek AÖ, Durdağ E, Emmez H, Kurt G, Baykaner MK. Myogenic and melanotic differentiated medulloblastoma: case report. Turk Neurosurg. 2011; 21 (3): 438-42
- 15 Emmez H, Börcek AÖ, Durdağ E, Uyar PG, Kaymaz M, Aykol Ş. Immunomodulatory effectiveness of azithromycin in prevention of postlaminectomy epidural fibrosis. Neurol Res 2011; 33 (4): 344 – 8
- 16 Kale A, Börcek AÖ, Emmez H, Yıldırım Z, Durdağ E, Lortlar N, Kurt G, Doğulu F, Kılıç N. Neuroprotective effects of gabapentin on spinal cord ischemia-reperfusion injury in rabbits. J Neurosurg Spine. 2011; 15(3): 228 – 237
- 17 Börcek AÖ, Çivi S, Gölen M, Emmez H, Baykaner MK. An unusual ventriculoperitoneal shunt complication: spontaneous knot formation. Turk Neurosurg. 2012; 22 (2): 261-264
- 18 Kaymaz M, Börcek AÖ, Emmez H, Durdağ E, Paşaoğlu A. Effectiveness of single posterior decompressive laminectomy in symptomatic lumbar spinal stenosis: a retrospective study. Turk Neurosurg. 2012; 22 (4): 430 – 434
- 19 Nurata H, Yılmaz MB, Borcek AO, Oner AY, Baykaner MK. Retropharyngeal hematoma secondary to whiplash injury in childhood: a case report. Turk Neurosurg. 2012; 22(4): 521 – 523
- 20 Sönmez E, Börcek AÖ, Güven Ç, Hastürk AE. An iron rod stuck in the right motor cortex. Turk Neurosurg. 2012; 22(6): 772-4
- 21 Bagriacik EU, Baykaner MK, Yaman M, Sivrikaya G, Durdağ E, Emmez H, Fincan GO, Börcek AÖ, Seçen AE, Ercan S. Establishment of a Primary Pleomorphic Xanthoastrocytoma Cell Line: in vitro Responsiveness to Some Chemotherapeutics. Neurosurgery. 2012; 70 (1): 188 – 197
- 22 Börcek AÖ, Egemen E, Güngör G, Baykaner MK. Intracranial aneurysm in childhood and interrupted aortic arc. Childs Nerv System 2013; 29(1):11-5
- 23 Egemen E, Börcek AÖ, Karaaslan B, Baykaner MK. Trigeminal neuralgia associated with cerebellopontine angle lipoma in childhood. Pediatr Neurosurg 2012;48:306-309
- 24 Börcek AÖ, Ocal Ö, Emmez H, Zinnuroğlu M, Baykaner MK. Split Cord malformation: experience from a tertiary referral center. Pediatr Neurosurg 2012;48: 291-298
- 25 Börcek AO, Börcek P, Civi S, Emmez H, Sen A, Aykol S. Hyperbaric Oxygen in Epidural Fibrosis: Is There a Potential for Treatment? Turk Neurosurg 2013; 23: 607-610
- 26 Durdağ E, Kaymaz M, Börcek AÖ et al. Acute neuroprotective effects of alpha lipoic acid in experimental spinal cord injury. J Neurol SCI-TURK 2013; 30: 640-650
- 27 Börcek AÖ, Süner İH, Emmez H, Kaymaz M, Aykol Ş, Paşaoğlu A. Accuracy of pedicle screw placement in thoracolumbar spine with conventional open technique. Turk Neurosurg 2014; 24(3): 398-402
- 28 Börcek AO, Emmez H, Akkan KM, Ocal O, Kurt G, Aykol S, Karahacıoğlu E, Baykaner KM. Gamma Knife radiosurgery for arteriovenous malformations in pediatric patients. Childs Nerv Syst 2014; 30 (9): 1485-1492

- 29 Aykol Ş, Börcek AO, Emmez H, Öcal Ö, Paşaoğlu A. Results of radiosurgery for trigeminal neuralgia: Ankara experience. *Br J Neurosurg* Sep 2014. E pub.
- 30 Ucar M, Tokgoz N, Koc AM, Kilic K, Borcek AO, Oner AY, et al: Assessment of 3D T2-weighted high-sampling-efficiency technique (SPACE) for detection of cerebellar tonsillar motion: new useful sign for Chiari I malformation. *Clin Imaging* 39:42-50, 2015
- 31 Durdag E, Borcek PB, Ocal O, Borcek AO, Emmez H, Baykaner MK: Pathological evaluation of the filum terminale tissue after surgical excision. *Childs Nerv Syst*, 2015
- 32 Borcek AO, Civi S, Ocal O, Gulbahar O: Effects of tumor necrosis factor alpha blocker adalimumab in experimental spinal cord injury. *J Korean Neurosurg Soc* 57:73-76, 2015
- 33 Algin O, Ucar M, Ozmen E, Borcek AO, Ozisik P, Ocakoglu G, et al: Assessment of third ventriculostomy patency with the 3D-SPACE technique: a preliminary multicenter research study. *J Neurosurg*:1-9, 2015
- 34 Karaaslan B, Uçar M, Kulduk G, Börcek AÖ, Baykaner MK. Bilateral optic pathway ganglioglioma: The fifth case in the literature. *Ped Neurosurg* 2016;51(1):48-54. doi: 10.1159/000439541.
- 35 Derinkuyu BE, Ucar M, Borcek AO, Damar C, Oztunali C, Gul Alimli A, Boyunaga O. Non-infantile variant of desmoplastic ganglioglioma: Conventional and advanced MR imaging characteristics. *Neuroradiol J*. 2015 Jun;28(3):259-63. doi: 10.1177/1971400915595579.
- 36 Koc AM, Oner AY, Ucar M, Borcek AO. Intracranial Hemangiopericytoma in a Child: A Case Report with Magnetic Resonance Spectroscopy Findings. *Turk Neurosurg*. 2016;26(1):173-5. doi: 10.5137/1019-5149.JTN.8374-14.1
- 37 Alimli AG, Oztunali C, Boyunaga OL, Pamukcuoglu S, Okur A, Borcek AO. MRI and CT findings of isolated intracranial Rosai-Dorfman disease in a child. *Neuroradiol J*. 2016 Apr;29(2):146-9. doi: 10.1177/1971400915628020.
- 38 Çivi S, Emmez G, Dere ÜA, Börcek AÖ, Emmez H. Effects of quercetin on chronic constriction nerve injury in an experimental rat model. *Acta Neurochir (Wien)*. 2016; 158(5): 959-65. doi: 10.1007/s00701-016-2761-0
- 39 Karaaslan B, Ülkü G, Uçar M, Demirdağ TB, İnan A, Börcek AÖ. Intramedullary dermoid cyst mimicking holocord tumor: Should radical resection be mandatory? A case report. *Childs Nerv Syst* 2016; 32(11):2249-2253
- 40 Börcek AO, Bulduk EB, Çivi S, Emmez H, Kaymaz M. Spine Tango in Turkish: Development of a local registry System. *Turkish Neurosurgery* 2017; 27(2): 237-244.
- 41 Börcek AO, Uçar M, Karaaslan B. Simplest radiological measurement related to clinical success in endoscopic third ventriculostomy. *Clin Neurol Neurosurg* 2017; 152: 16-22
- 42 Aslan A, Börcek AO, Pamukcuoğlu S, Baykaner MK. Intracranial undifferentiated malign neuroglial tumor in Smith-Lemli-Opitz syndrome: A theory of a possible predisposing factor for primary brain tumors via a case report. *Childs Nerv Syst* 2017; 33(1): 171-177

- 43 Celtikci E, Celtikci P, Fernandes-Cabral DT, Ucar M, Fernandez-Miranda JC, Borcek AO. High-Definition Fiber Tractography in Evaluation and Surgical Planning of Thalamopeduncular Pilocytic Astrocytomas in Pediatric Population: Case Series and Review of Literature. *World Neurosurg*. 2017; 98:463-469
- 44 Şenköylü A, Zinnuroğlu M, Börcek A, Aktaş E, Güngör İ, Beyazova M. Comparison of multimodal intraoperative neurophysiological monitoring efficacy in early childhood and school aged children undergoing spinal surgery. *Acta Orthop Traumatol Turc*. 2017; 51(1):49-53
- 45 Ucar M, Guryildirim M, Tokgoz N, Kilic K, Borcek A, Oner Y, Akkan K, Tali T. Evaluation of aqueductal patency in patients with hydrocephalus: three-dimensional high-sampling-efficiency technique (SPACE) versus two-dimensional turbo spin echo at 3 Tesla. *Korean J Radiol*. 2014 Nov-Dec;15(6):827-35.
- 46 Celtikci E, Kaymaz AM, Akgul G, Karaaslan B, Emmez OH, Borcek A. Retrospective Analysis of 449 Intracranial Meningioma Patients Operated between years 2007 - 2013 in a Single Institute. *Turk Neurosurg*. 2018; 21(1):1-6. doi: 10.5137/1019-5149.JTN.17866-16.1
- 47 Emmez H, Börcek AÖ, Gönül İI, Bolay Belen H, Solaroğlu İ, Baykaner MK. The Effect of Hydrogen Sulphide on Experimental Cerebral Vasospasm. *Turk Neurosurg*. 2017; 27(3):374-379. doi: 10.5137/1019-5149.JTN.16101-15.1
- 48 Karaaslan B, Aslan A, Börcek AÖ, Kaymaz M. Clinical and surgical outcomes of upper lumbar disk herniations: a retrospective study. *Turkish Journal of Medical Sciences* 2017; 47 (4): 1157-1160 10.3906/sag-1604-113
- 49 Çeltikçi P, Çeltikçi E, Kaymaz M, Kurt G, Emmez H, Börcek AÖ. Utilization of bone wax as a marker for spatial orientation in intraoperative magnetic resonance imaging. *Clin Neuroradiology* 2018 Mar; 28(1):117-121
- 50 Yaltirik Bilgin E, Önal B, Emmez H, Akkan K, Ilgit E, Bilgin E, Cindil E, Borcek AÖ. Endovascular treatment of intracranial anterior circulation aneurysms with flow diverters: A single centre experience with mid and long term results. *Turk Neurosurg*. 2017 Jul. doi: 10.5137/1019-5149.JTN.20279-17.2
- 51 Aslan A, Kaya ZB, Bulduk EB, Öcal Ö, Uçar M, Erpolat OP, Kaymaz F, Börcek AÖ. Prophylactic Bevacizumab may mitigate radiation injury: An experimental study. *World Neurosurgery* 2018;116:e791-e800. doi: 10.1016/j.wneu.2018.05.094.
- 52 Damar Ç, Koç AM, Alımlı AG, Derinkuyu BE, Börcek AÖ, Tokgöz N. Cause of Paraparesia in Childhood: Spinal Chondrosarcoma. *Istanbul Med J* 2018; 19: 177-180
- 53 Suner HI, Kaya ZB, Bulduk EB, Börcek AO, Demirci H, Kartal B, Kaplanoğlu GT. Investigation of the effect of alemtuzumab in an experimental spinal cord trauma model in rats. *World Neurosurgery* 2019; 121: e723-e730 doi: 10.1016/j.wneu.2018.09.197
- 54 Börcek AO, Aslan A. Unexpected progression of tonsillar herniation in two pediatric cases with chiari malformation Type 1 and review of the literature. *Ped Neurosurg* 2019; 54(1): 51-56 doi: 10.1159/000495066

- 55 Öcal Ö, Börcek AO, Pasaoğlu Ö, Gündoğdu AC, Kaplanoğlu GT, Baykaner MK. Can Quercetin be an option for treatment of spinal cord injury? An experimental study. *Turk Neurosurg.* 2019; 29(2): 247-253. Doi: 10.5137/1019-5149.JTN23799-18.1
- 56 BörcekAO, Aslan A, Uçar M. Do we need to scan the whole neuroaxis for coexistent abnormalities in children with surgically treated occult spinal dysraphism? *ANZ Surg* 2019; 89(7-8):914-918 doi: 10.1111/ans.15164
- 57 Karaaslan B, Doğan E, Börcek AÖ. Management of Neonatal Facial Paralysis due to Cerebellopontine Angle Arachnoid Cyst: A Case Report. *Pediatr Neurosurg.* 2019; 54(4): 253-257. doi: 10.1159/000500762
- 58 Karaaslan B, Börcek AÖ, Uçar M, Aykol Ş. Can the Etiopathogenesis of Chiari Malformation Be Craniocervical Junction Stabilization Difference? Morphometric Analysis of Craniocervical Junction Ligaments. *World Neurosurg* 2019; 128: e1096-e1101 doi: 10.1016/j.wneu.2019.05.072
- 59 Börcek AÖ, Çeltikçi E, Aksoğan Y, Rousseau MJ. Clinical Outcomes of Stereotactic Radiosurgery for Cerebral Arteriovenous Malformations in Pediatric Patients: Systematic Review and Meta-Analysis. *Neurosurgery* 2019; 85(4): e629-e640 doi: 10.1093/neuros/nyz146
- 60 Börcek AO. Letter: Clinical Outcomes of Stereotactic Radiosurgery for Cerebral Arteriovenous Malformations in Pediatric Patients: Systematic Review and Meta-Analysis. *Neurosurgery.* 2019 Dec 1;85(6):E1130. doi: 10.1093/neuros/nyz366
- 61 Atici MA, Sağıroğlu S, Çeltikçi P, Uçar M, Börcek AO, Emmez H, Çeltikçi E. A Novel Deep Learning Algorithm for the Automatic Detection of High-Grade Gliomas on T2-Weighted Magnetic Resonance Images: A Preliminary Machine Learning Study. *Turk Neurosurg.* 2019 Aug 26. doi: 10.5137/1019-5149.JTN.27106-19.2
- 62 Karaaslan B, Doğan E, Abaylı SY, Börcek AÖ. Hyperbaric oxygen therapy in the treatment of malignant edema complication after arteriovenous malformation radiosurgery. *Undersea Hyperb Med.* 2019 Sep - Dec - Fourth Quarter;46(5):713-717.
- 63 Gulsuna B, Turkmen T, Börcek AO, Çeltikçi E. Fluorescein-guided excision of a pediatric intraparenchymal schwannoma presenting with seizure and neurogenic pulmonary edema. *Childs Nerv Syst.* 2019 Nov 30. doi: 10.1007/s00381-019-04438-z
- 64 Damar Ç, Derinkuyu BE, Olgaç Kiliçkaya MAB, Öztürk M, Öztunali Ç, Alimli AG, Boyunaga ÖL, Uçar M, Ezgü FS, Tümer L, Börcek AÖ, Siğirci A. Posterior Fossa Horns; A New Calvarial Finding of Mucopolysaccharidoses With Well-Known Cranial MRI Features *Turk J Med Sci.* 2020 Feb 3. doi: 10.3906/sag-1908-70
- 65 Aslan A, Kuzucu P, Karaaslan B, Börcek AÖ. Women in Neurosurgery: Gender Differences in Authorship in High-Impact Neurosurgery Journals Through the Last Two Decades *World Neurosurg.* 2020 Mar 19; 138:374-380. doi: 10.1016/j.wneu.2020.03.017
- 66 Aslan A, Börcek AÖ, Demirci H, Erdem MB. Cerebral Cavernous Malformation Presenting in Childhood: A Single-Centered Surgical Experience of 29 Cases *Clin Neurol Neurosurg.* 2020 Apr 10; 194:105830. doi: 10.1016/j.clineuro.2020.105830

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- 76 Duman EA, Sarıoğlu S, Çeltikçi P, Demirezen MU, Borcek AO, Emmez H, Çeltikçi E. Utilizing Deep Convolutional Generative Adversarial Networks for Automatic Segmentation of Gliomas: An Artificial Intelligence Study. *Turkish Neurosurgery* 2022 Jan; 32(1): 16-21. DOI10.5137/1019-5149.JTN.29217-20.2
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- 78 Sibar S, Karasu O, Gökberk E, Fındıkçioğlu K, Börcek AO. Comparison of the Results of Suture and Resorbable Plate-Screw Fixation in Craniosynostosis. *Ann Plast Surg* 2022 Oct; 89(4): 385 – 390. doi: 10.1097/SAP.0000000000003286.