

Rafet ÖZAY

MD. Prof.



Location: Lokman Hekim University Ankara Hospital

Department: Neurosurgery (Brain and Nerve Surgery)

Language: Turkish, English

Medical Field of Interest

Neurosurgery, Spinal Surgery, Peripheral Nerve Surgery, Neurotrauma and Traumatic Brain Injury, Chiari Malformation, Experimental Studies on Axonal Regeneration and Scar Tissue Formation, Minimally Invasive Spine Techniques, Cerebrovascular Disorders and Skull Base Surgery

Education

Year	Institution	Department
1987 - 1991	Gülhane Military Medical Academy	Faculty of Medicine
1993 – 1997	Uludağ University	Faculty of Medicine

Experience

Year	Institution	Department
1997 – 1998	Yozgat Aydıncık Central Health Center	General Practitioner
1998 – 2005	Uludağ University Faculty of Medicine	Research Assistant
2005 – 2006	Akşehir State Hospital	Specialist Doctor
2006 – 2010	Fatih University	Specialist Doctor
2010 – 2011	Beyhekim State Hospital	Specialist Doctor
2011 – 2012	Etlik Specialization Hospital	Chief Assistant
2012 – 2018	Dışkapı Yıldırım Beyazıt Training and Research Hospital	Chief Assistant
2018 – 2021	Dışkapı Yıldırım Beyazıt Training and Research Hospital	Associate Professor

2020 – 2024	Gülhane Military Medical Academy	Associate Professor
2021 – 2023	Gülhane Military Medical Academy	Associate Professor
2024 – 2025	Gülhane Military Medical Academy	Associate Professor
2025 -	Lokman Hekim University Ankara Hospital	Associate Professor
2025 – Still	Lokman Hekim University Ankara Hospital	MD Professor

Scientific Publications

- Özay R, Bekar A, Kocaeli H, Karlı N, Filiz G, Ulus IH. Citicoline improves functional recovery, promotes nerve regeneration, and reduces postoperative scarring after peripheral nerve surgery in rats. *Surg Neurol*. 2007 Dec;68(6):615-622. doi: 10.1016/j.surneu.2006.12.054. PMID: 18053855.
- Uzar E, Ozay R, Evliyaoglu O, Aktas A, Ulkay MB, Uyar ME, Ersoy A, Burakgazi AZ, Turkey C, Ilhan A. Hydroxycloquine-induced oxidative stress on sciatic nerve and muscle tissue of rats: a stereological and biochemical study. *Hum Exp Toxicol*. 2012 Oct;31(10):1066-73. doi: 10.1177/0960327111433183. Epub 2012 Jun 29. PMID: 22751197.
- Yavuz OY, Uras I, Tasbas B, Kaya M, Ozay R, Komurcu M. Value of anatomic landmarks in carpal tunnel surgery. *J Hand Surg Eur Vol*. 2013 Jul;38(6):641-5. doi: 10.1177/1753193412475124. Epub 2013 Jan 22. PMID: 23340759.
- Ozay R, Çetinalp N, Göçün P, Doruk E, Duz B. Resection of a huge tufted angioma of orbit and orbitocranial mesh reconstruction. *J Neurol Surg A Cent Eur Neurosurg*. 2013 Dec;74 Suppl 1:e193-7. doi: 10.1055/s-0033-1341415. Epub 2013 May 22. PMID: 23700166.
- Ozay R, Uzar E, Aktas A, Uyar ME, Gürer B, Evliyaoglu O, Cetinalp NE, Turkey C. The role of oxidative stress and inflammatory response in high-fat diet induced peripheral neuropathy. *J Chem Neuroanat*. 2014 Jan;55:51-7. doi: 10.1016/j.jchemneu.2013.12.003. Epub 2014 Jan 7. PMID: 24407112.
- Kahveci K, Doger C, Ornek D, Gokcinar D, Aydemir S, Ozay R. Perioperative outcome and costeffectiveness of spinal versus general anesthesia for lumbar spine surgery. *Neurol Neurochir Pol*. 2014;48(3):167-73. doi: 10.1016/j.pjnns.2014.05.005. Epub 2014 Jun 6. PMID: 24981180.
- Ozay R, Fesli R, Balkan S, Turkoglu E, Sekerci Z. Rapid resolution of an acute subdural hematoma in Dandy Walker syndrome. *Neurol India*. 2015 Mar-Apr;63(2):286. doi: 10.4103/0028-3886.156319. PMID: 25948011.
- Özay R, Aktaş A, Taşkapılıoğlu MÖ, Gürer B, Erdoğan B, Çağlar YŞ. Does glioblastoma cyst fluid promote sciatic nerve regeneration? *Neural Regen Res*. 2015 Oct;10(10):1643-9. doi: 10.4103/1673-5374.167764. PMID: 26692863; PMCID: PMC4660759.
- Özay R, Yavuz OY, Türkoğlu ME, Aktaş A, Yiğit F, Özdemir HM, Şekerci Z. The effects of ankaferd blood stopper and microporous polysaccharide hemospheres on epidural fibrosis in rat laminectomy model. *Acta Cir Bras*. 2015 Dec;30(12):799-805. doi: 10.1590/S0102-865020150120000002. PMID: 26735050.
- Özay R, Yavuz OY, Aktaş A, Yiğit F, Çetinalp NE, Özdemir HM, Şekerci Z. Effects of cepae extract, allantoin, and heparin mixture on developing and already formed epidural fibrosis in a rat laminectomy model. *Turk J Med Sci*. 2016 Jun 23;46(4):1233-9. doi: 10.3906/sag-1504-16. PMID: 27513430.
- Özay R, Doruk ED, Balkan MS, Ergüngör, MF, Treatment of Craniodiaphyseal Dysplasia Presenting with Chiari Type-I. *Arquivos Brasileiros de Neurocirurgia: Brazilian Neurosurgery* 2016; 35(03): 228-233. doi: 10.1055/s-0036-1586155.

- Ayvalık F, Ozay R, Turkoglu E, Balkan MS, Şekerci Z. Remote Cerebellar Hemorrhage Following Lumboperitoneal Shunt Insertion: A Rare Case Report. Surg J (N Y). 2016 Dec 1;
- Özay R, Balkan MS, Töngge Ç, Şekerci Z. Trans-nasal-trans-sphenoidal brain injury by a fencing foil: an unusual case report and brief literature review. J Sports Med Phys Fitness. 2017 Nov;57(11):1494-1498. doi: 10.23736/S0022-4707.17.07133-X. Epub 2017 Feb 22. PMID: 28229571.
- Özay R, Türkoğlu ME, Gürer B, Dolgun H, Evirgen O, Ergüder Bİ, Hayırlı N, Gürses L, Şekerci Z. The Protective Effect of Omeprazole Against Traumatic Brain Injury: An Experimental Study. World Neurosurg. 2017 Aug;104:634-643. doi: 10.1016/j.wneu.2017.04.136. Epub 2017 Apr 28. PMID: 28461271.
- Özay R, Ogur T, Durmaz HA, Turkoglu E, Caglar YS, Sekerci Z, Sorar M, Hanalioglu S. Revisiting Ligament-Sparing Lumbar Microdiscectomy: When to Preserve Ligamentum Flavum and How to Evaluate Radiological Results for Epidural Fibrosis. World Neurosurg. 2018 Jun;114:e378-e387. doi: 10.1016/j.wneu.2018.02.186. Epub 2018 Mar 9. PMID: 29530695.
- Doruk E, Ozay R, Sekerci Z, Durmaz HA, Gunes SO, Hanalioglu S, Sorar M. Cervico-medullary compression ratio: A novel radiological parameter correlating with clinical severity in Chiari type 1 malformation. Clin Neurol Neurosurg. 2018 Nov;174:123-128. doi: 10.1016/j.clineuro.2018.09.016. Epub 2018 Sep 10. PMID: 30236638.
- Senturk GC, Ozay R, Kul G, Altay FA, Kuzi S, Gurbuz Y, Tutuncu E, Eser T. Evaluation of Postoperative Meningitis: Comparison of Meningitis Caused by Acinetobacter spp. and Other Possible Causes. Turk Neurosurg. 2019;29(6):804-810. doi: 10.5137/1019-5149.JTN.25151-18.1. PMID: 31192440.
- Caglar S, Turkoglu E, Kertmen H, Gurer B, Bozkurt H, Ozay R, Hanalioglu S, Colpan E. Modified Insideoutside Occipito-Cervical Plate System: Preliminary Results. Asian J Neurosurg. 2019 JanMar;14(1):148-153. doi: 10.4103/ajns.AJNS_305_17. PMID: 30937026; PMCID: PMC6417361.
- Ozay R, Keskin E, Balkan MS, Aktas A, Akturk UD, Esener O, Akturk T, Hanalioglu S, Atabey C, Sekerci Z. Effects of Topically Applied Contractubex® on Epidural Fibrosis and Axonal Regeneration in Injured Rat Sciatic Nerve. Turk Neurosurg. 2023;33(3):437-446. doi: 10.5137/1019-5149.JTN.40989-22.2. PMID: 37222011. Ulusal Hakemli Dergilerde Yayımlanan Makaleler:
- Yılmazlar Selçuk, Özay Rafet, Hakyemez Bahattin (2006). Posttravmatik Siringomyeli Sendrom
- Uzar Ertuğrul, Kırbas İsmail, Özay Rafet, İlhan Atilla (2009). Öksürük Sonrası Karotid Arter Diseksiyonu bFibromuskuler Displazili Olgu. Türk Nöroloji Dergisi
- Özay Rafet, Çetinalp Nuri Eralp, Kalan Mehmet, Oğur Törel (2012). Anterior Servikal Diskektomi Sonrası Kemik Greft Dislokasyonu Ve Spontan Rezorbsiyonu Olgu Sunumu. Türk Nöroşirurji Dergisi
- Çetinalp Nuri Eralp, Özay Rafet, Doruk Ebru Doğan, Ergüngör Mehmet Fikret (2012). Epidural Hematomu Taklit Eden Akut Subdural Hematom Olgu Sunumu. Türk Nöroşirurji Dergisi
- Özay Rafet, Kalan Mehmet, Eryılmaz Fahri, Ayvalık Fatih, Şekerci Zeki (2014). Uzak Lateral Lomber Disk Hernilerinde Kolaylaştırılmış İntertransvers Yaklaşım. Türk Nöroşirurji Dergisi,
- Çetinalp Nuri Eralp, Özsoy Kerem Mashar, Çetinalp Sibel, Özay Rafet (2015). Footdrop An Unexpected Complication After Anterior Cervical Discectomy And Fusion Operation. Çukurova Medical Journal
- Yılmaz Erdal Reşit, Şahin Ömer Selçuk, Töngge Çağhan, Yaman Betül, Erbaş Yahya Cem, Bulut Süheyla Doğan, Özay Rafet (2016). Tümör Cerrahisi Sonrası Benign İntrakraniyal Menenjiyomlu Hastalarda Anksiyete ve Depresyon Değerlendirmesi. Orta Doğu Tıp Dergisi,
- Özay Rafet, Hanalioglu Şahin, Güneş Serra Özbal, Yaman Betül, Türkoğlu Mehmet Erhan, Ergün Behzat Rüçhan (2017). Alt Servikal Omurganın Travmatik Kırık ve Dislokasyonları: Tek Merkez Bulguları. Çukurova Tıp Dergisi.

- Özyay Rafet, Kertmen Hüseyin Hayri (2017). Diskojenik Bel Ağrısı ve Tedavi Yöntemleri. Türkiye Klinikleri J Neurosurg-Special Topics
- Özyay Rafet, Günaydın Ahmet, Hanalioğlu Şahin, Yaman Betül, Türkoğlu Mehmet Erhan, Atabey Cem (2017). Üst Servikal Vertebra Travmalarında Cerrahi Tedavi Sonuçları. Çukurova Tıp Dergisi Ulusal/Uluslararası Kitaplardaki Bölümler:
 - Ameliyat Sırasında Nöromonitarizasyon, Özyay Rafet, Töngge Çağhan, Pelikan Yayıncılık: ISBN: 978-605-9160-31-5, Basım Yılı:2016, Türkçe (Kitap Tercümesi)
 - Nöroşirürji Yeterlik Sınavlarına Hazırlık (2016), Özyay Rafet, Yaman Betül, US Akademi, ISBN:978-605-9358-05-7, Türkçe (Bilimsel Kitap)
 - Beynin Vasküler ve Sisternal Anatomisi (2020), Özyay Rafet, Hanalioğlu Şahin, US Akademi, Nöroşirürjinin Temelleri, ISBN: 978-605-9358-81-1, Türkçe (Bilimsel Kitap) Uluslararası Bilimsel Toplantılarda Sunulan ve Bildiri Kitaplarında (Proceedings) Basılan Bildiriler:
 - Özyay Rafet, Türkoğlu Mehmet Erhan, Gürer Bora, Dolgun Habibullah, Evirgen Oya, Ergüder Berrin İmge, Hayırlı Emine Nazlı, Gürses Levent, Şekerci Zeki (2015). The Effect Of Omeprazole After Traumatic Brain Injury in Rats. Congress Of Neurological Surgeons (Özet Bildiri)
 - Özyay Rafet, Türkoğlu Mehmet Erhan, Gürer Bora, Dolgun Habibullah, Evirgen Oya, Ergüder Berrin İmge, Hayırlı Emine Nazlı, Gürses Levent, Şekerci Zeki (2015). Therapeutic Effect Of Decorine Against Traumatic Brain Injury İn Rats. Congress Of Neurological Surgeons (Özet Bildiri)
 - Özyay Rafet, Yaman Betül, Türkoğlu Mehmet Erhan, Doruk Doğan Ebru, Oğur Törel, Şekerci Zeki (2016). How Oxidative Stress And Apoptosis Affects Prognostic Factors Of Glial Tumor. Eans 2016 Congress (Özet Bildiri)
 - Özyay Rafet, Oğur Törel, Durmaz Hasan Ali, Türkoğlu Mehmet Erhan, Çağlar Yusuf Şükrü, Şekerci Zeki (2016). Ligament Flavum Sparing Lumbar Disc Surgery For Preventing Epidural Fibrosis. Eans 2016 Congress (Özet Bildiri)
 - Özyay Rafet, Günaydın Ahmet, Alioğlu Şahin, Yaman Betül, Türkoğlu Mehmet Erhan, Atabey Cem (2017). Üst Servikal Vertebra Travmalarında Klinik ve Radyolojik Değerlendirmeler Sonrasında Cerrahi Tedavi Sonuçlarının Retrospektif İncelenmesi: Bir Klinik Deneyim. Uluslararası 12. Türk Omurga Kongresi (Özet Bildiri) Ulusal Bilimsel Toplantılarda Sunulan ve Bildiri Kitaplarında (Proceedings) Basılan Sözlü Sunumlar:
 - Özyay Rafet, Balkan Mehmet Serdar, Aktaş Abit, Aktürk Umut Doğu, Esener Osman Burak, Behzat, Aktürk Tülin, Hanalioğlu Şahin, Atabey Cem, Şekerci Zeki (2017). Topikal Olarak Uygulanan Contractubex'in hasarlanmış Rat Siyatik Sinirinde Epidural Fibrozis ve Aksonal Rejenerasyon Üzerine Etkileri. Türk Nöroşirürji Derneği 31. Bilimsel Kongresi, Sözlü Sunumlar,
 - Balkan Mehmet Serdar, Özyay Rafet, Türkoğlu Mehmet Erhan, Dolgun Habibullah, Aktürk Tülin, Aktaş Abit, Esener Osman Burak Behzat, Şekerci Zeki (2016). Ratlarda Periferik Sinir Hasarı ve Primer Onarımı sonrası İntraperitoneal Decorin Uygulanmasının Epinöral Skar Dokusu Ve Aksonal Rejenerasyon Üzerine etkileri. Türk Nöroşirürji Derneği 30. Bilimsel Kongresi, Sözlü Sunumlar
 - Doruk Ebru, Özyay Rafet, Şekerci Zeki, Durmaz Hasan Ali, Özbal Güneş Serra (2016). Tip 1 Chiari Malformasyonunda Herniye Olan Serebellartonsil Alanı Ve Foramen Magnum Yüzey Alanı Oranının radyoloji Ve Klinik Bulgular İle Korelasyonu. Türk Nöroşirürji Derneği 30. Bilimsel Kongresi, Sözlü Sunumlar

- Özyay Rafet, Türkoğlu Mehmet Erhan, Aktaş Abit, Balkan Mehmet Serdar, Aktürk Umut Doğu, Yiğit Funda, Aktürk Tülin, Şekerci Zeki (2017). Topikal Olarak Uygulanan Decorin'in Hasarlanmış Rat Siyatik Sinirinde Epidural Fibrozis ve Aksonal Rejenerasyon Üzerine Etkileri. Türk Nöroşirürji Derneği 31. Bilimsel Kongresi, Sözlü Sunumlar
- Özyay Rafet, Hanalioğlu Şahin, Özbal Güneş Serra, Yaman Betül, Türkoğlu Mehmet Erhan, Ergün Behzat Rüçhan (2017). Alt Servikal Omurganın Travmatik Kırık Ve Dislokasyonları: 27 Olguluk Seride Klinik Radyolojik özellikler, Cerrahi Teknik Ve Sonuçlar. Türk Nöroşirürji Derneği 31. Bilimsel Kongresi, Sözlü Sunumlar
- Beyin Ölümü Tanısında Serebral Anjiyografi ve Nöroşirürjinin Yeri: 46 Olguluk Tek Merkez Deneyimi, Hanalioğlu Şahin, Şahin Ömer Selçuk, Arslan Erkuş Birgül, Tursunoğlu Seher, Kaplan Ümmügülsüm, Koç Hasan, Pehlivan Tuğba, Özyay Rafet, Atabey Cem, Kertmen Hüseyin Hayri, Türkoğlu Mehmet Erhan, Çomoğlu Selim Selçuk, Türk Nöroşirürji Derneği 33. Bilimsel Kongresi, 11-14 Nisan 2019, Antalya
- Üst Servikal Travmalarda Posterior Enstrümantasyon: 50 Olguluk Seride Klinik Ve Radyolojik Sonuçların Değerlendirilmesi, Hanalioğlu Şahin, Türkoğlu Mehmet Erhan, Dinç Samet, Yaman Betül, Özyay Rafet, Günaydın Ahmet, Atabey Cem, Türk Nöroşirürji Derneği 33. Bilimsel Kongresi, 11-14 Nisan 2019, Antalya
- Tek Merkezli Olarak MRG Öncesi Dönemde Opere Edilmiş İntrakranial Meningiom'ların Klinik Sonuçlarının Günümüz Literatür Bulgularıyla Karşılaştırılması, GÜRSES Levent, ÖZAY Rafet, YILMAZ Erdal Reşit, EMRAHOĞLU, Muhammed Erkan, NOVA 2019 Sempozyumu, 21-22 Aralık 2019, İstanbul
- Kortikal Hassas Bölge Tümörlerinde Uyanık Kraniyotomi ve Vakalar ile Klinik Tecrübemiz, EMRAHOĞLU Muhammed Erkan, GÜLMEZ Ahmet, DİNÇ Samet, TÜRKOĞLU Mehmet Erhan, KERTMEN Hüseyin Hayri, ÖZAY Rafet, HANALIOĞLU Şahin, NOVA 2019 Sempozyumu, 21-22 Aralık 2019, İstanbul
- Chiari Malformasyonunda Alt Kranyal Sinir Tutulumunun Klinik Ve Radyolojik Parametreler İle Korelasyonunun Araştırılması, Dinç Samet, Özyay Rafet, Hanalioğlu Şahin, Turan Aynur, Türk Nöroşirürji Derneği 34. Bilimsel Kongresi, 30 Eylül-3 Ekim Kasım 2021, Antalya
- Servikal Laminoplastinin Fonksiyonel İyileşme ve Ağrıya Etkisi, Erçandırılı Aziz Kaan, Dolgun Habibullah, Yılmaz Erdal Reşit, Özyay Rafet, Kalan Mehmet, Uzunoğlu Inan, Türk Nöroşirürji Derneği 35. Bilimsel Kongresi, 24-27 Kasım 2022, Antalya

Graduate Thesis Advising

- Correlation of the Ratio of Cerebellar Tonsil and Foramen Magnum Surface Area with Clinical Findings in Type 1 Chiari Malformation, Ebru Doruk, (2015), University of Health Sciences.
- Effects of I.P. Decorin Application on Epineural Scar Tissue and Axonal Regeneration After Peripheral Nerve Injury and Primary Repair in Rats, Mehmet Serdar Balkan, (2016), University of Health Sciences.
- Investigation of the Correlation of Lower Cranial Nerve Involvement with Clinical and Radiological Parameters in Chiari Malformation, Samet Dinç, (2019), University of Health Sciences.
- Neuroprotective Effect of Dexpanthenol in an Experimental Head Trauma Model, Seda Akyıldız Altun, (2023), University of Health Sciences.

Teaching and Learning Activities

- Approach to the Patient with Head Trauma in the Emergency Department, Undergraduate/Turkish (2015-2016)
- Neurological Examination of the Upper and Lower Extremities; Motor Strength, Reflex and Sensory Examination, Undergraduate/Turkish (2015-2016)
- Classification, Pathophysiology, and Complications of Head Trauma, Undergraduate/Turkish (2015-2016)
- Current Treatment Approaches for Recurrent Malignant Gliomas, Undergraduate/Turkish (2016-2017)
- Cranial Dural Arteriovenous Fistulas (DAVFs): Symptomatology, Classification, Rupture Risks and Treatment, Residency/Turkish (2016-2017)
- Pediatric Hydrocephalus: Etiology, Diagnosis, Treatment, Challenges in Shunt Surgery and Long-Term Prognosis, Undergraduate/Turkish (2016-2017)
- Epilepsy Surgery:Diagnosis, Treatment and Prognosis, Undergraduate/Turkish (2016-2017)
- Mortality and Morbidity, Undergraduate/Turkish (26.09.2018)
- Mortality and Morbidity, Undergraduate/Turkish (31.10.2018)
- Mortality and Morbidity, Undergraduate/Turkish (26.12.2018)
- Mortality and Morbidity, Undergraduate/Turkish (30.01.2019)
- Mortality and Morbidity, Undergraduate/Turkish (27.02.2019)
- Mortality and Morbidity, Undergraduate/Turkish (24.04.2019)
- Mortality and Morbidity, Undergraduate/Turkish (29.05.2019)
- Mortality and Morbidity, Undergraduate/Turkish (26.06.2019)
- Mortality and Morbidity, Undergraduate/Turkish (28.08.2019)
- Case Presentantion Lectures, Undergraduate/Turkish (27.11.2019)
- Astrocytomas:Classifications and Characteristics, Undergraduate/Turkish (04.12.2019)
- Mortality and Morbidity, Undergraduate/Turkish (12.02.2020)
- Literature Review, Undergraduate/Turkish (06.05.2020)
- Neurosurgical Anatomy of the Brain, Undergraduate/Turkish (23.09.2020)
- Approach to Hydrocephalus, Undergraduate/Turkish (28.10.2020)
- Neuroembryology, Undergraduate/Turkish (18.11.2020)
- Literature Presentation, Undergraduate/Turkish (17.03.2021)
- Literature Presentation, Undergraduate/Turkish (19.05.2021)
- Principles of Neurosurgery Intensive Care, Undergraduate/Turkish (01.10.2021)
- Literature Presentation, Undergraduate/Turkish (22.10.2021)
- Approach to Cervical Trauma, Undergraduate/Turkish (28.01.2022)
- Chiari Malformasyonu ve Syrinx, Undergraduate/Turkish (01.04.2022)
- Literature Presentation, Undergraduate/Turkish (08.04.2022)
- Literature Presentation, Undergraduate/Turkish (03.06.2022)
- Basic Principles of Intraoperative Neuromonitoring, Undergraduate/Turkish (02.02.2024)

Scientific Meetings, Courses and Certificates

- Turkish Neurosurgical Society 37th Scientific Congress, 18-21 April 2024, Antalya
- LINNC (Live Interventional Neuroradiology, Neurosurgery and Neurology Course) Paris Course 2023, 5- 7 July 2023, Paris/France (International)
- Turkish Neurosurgical Society 36th Scientific, 27-30 April 2023, Antalya
- LINNC (Live Interventional Neuroradiology, Neurosurgery and Neurology Course) Paris Course 2022, 30 May– 1 June 2022, Paris/France (International)
- TND 31st Scientific Congress Attendance Certificate, Kaya Palazzo Hotel, Certificate, 29.03.2017 - 02.04.2017 (National)
- Lumbar Degenerative Spine Autumn Symposium, 2016, Antalya, Certificate, 20.10.2016 - 23.10.2016 (National)
- Turkish Neurosurgical Society 29th Scientific Congress, Kaya Palazzo Congress Center, Certificate, 17.04.2015 -21.04.2015 (National)
- Turkish Neurosurgical Society 28th Scientific Congress, Rixos Hotel Congress Center, Certificate, 04.04.2014 -08.04.2014 (National)
- Turkish Neurosurgical Society 27th Scientific Congress, Maritim Congress Center, Certificate 12.04.2013 -16.04.2013(National)
- Deep Brain Stimulation Symposium in Parkinson’s Disease, Ankara, Certificate, 23.03.2013 - 24.03.2013 (National)
- Turkish Neurosurgical Society 25th Scientific Congress, Maritim Congress Center/ Antalya, Certificate, 22.04.2011 -26.04.2011 (National)
- Turkish Neurosurgical Society 23rd Scientific Congress, Acapulca Resort Hotel/ Kyrenia, Certificate, 17.04.2009 -21.04.2009 (National)
- 9th National Pain Congress, Hilton Convention Senter, Certificate, 16.05.2007 19.05.2007 (National)
- Turkish Neurosurgical Society 21st Scientific Congress, Topkapı Palace Otel, Certificate, 20.04.2007 -24.04.2007 (National)
- Neurosurgery Board Certification (Written) Turkish, Neurosurgical Society Board, 2007
- Istanbul University Cerrahpaşa Faculty of Medicine 2nd Feyyaz Berkay Days, Symposium on Microneurosurgical Approach Techniques Applied in Cranial Lesions, Istanbul University Cerrahpaşa Faculty of Medicine, Certificate, 13.05.2004 -14.05.2004 (National)
- Certification Course on the Use and Care of Experimental Animals, Uludağ University Certificate, 04.01.2003 -04.01.2003 (National)
- TND 29th Scientific Congress, Endoscopic Skull Base Surgery Cadaver Course, Akdeniz University, Course, 21.04.2015 -21.04.2015 (National)
- Turkish Neurosurgical Society 29th Scientific Congress ‘Hands-on Microvascular Anastomosis Simulation,Course , Turkish Neurosurgical Society 29th Scientific Congress, Course, 17.04.2015 - 17.04.2015 (National)
- Marmara University Institute of Neurological Sciences Cadaver Course, Marmara University Institute of Neurological Sciences, Course, 21.11.2014 -22.11.2014 (National)
- Uludağ Neurosurgery Winter Symposium, 5th Uludağ Neurosurgery Winter Symposium Participation Certificate 2014, Karinna Hotel Course, 01.03.2014 -02.03.2014 (National)

- T.N.D. Endoscopic Skull Base Surgery Cadaver Course, Marmara University Faculty of Medicine, Course, 15.11.2013 -16.11.2013 (National)
- Training Program on Proper Clinical Use of Blood, Training Program on Proper Clinical Use of Blood, Ankara, Course, 03.07.2013 -05.07.2013 (National)
- Ankara University Faculty of Medicine Spinal Instrumentation Techniques Course, Ankara University Faculty of Medicine, Course, 22.06.2006 - 23.06.2006 (National)
- Uludağ University Faculty of Medicine Scientific Research Course, Uludağ University Faculty of Medicine, Course, 06.03.2004 -06.03.2004 (National)
- Turkish Neurosurgery Society Training Course, Term I Course, Altın Yunus / Çeşme, Course, 12.03.2002 -17.03.2002 (National)
- Basic and Advanced Life Support Course on Approach to the Trauma Patient, Uludağ University, Course, 30.05.2001 -31.05.2001 (National)
- 8th Anesthesia Winter Symposium Uludağ, Course, 16.12.1999 -19.12.1999 (Ulusal)