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### Education Information

Expertise In Medicine, Hacettepe University, Tıp Fakültesi, Cerrahi Tıp Bilimleri Bölümü, Turkey 1987 - 1994

Expertise In Medicine, Hacettepe University, Tıp Fakültesi, Cerrahi Tıp Bilimleri Bölümü, Turkey 1987 - 1994

### Advising Theses

BERKER M., Temporal lobe epilepsi modelinde grup ı metabotropik glutamat reseptör ekspresyonu üzerine lakozamid'in etkisi, Doctorate, B.BİLGİNER(Student), 2016

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Creating a neuroanatomy education model with augmented reality and virtual reality simulations of white matter tracts**  
Gurses M. E., GÖKALP GÜRSES E., Gecici N. N., Gungor A., BERKER M., Ivan M. E., Komotar R. J., Cohen-Gadol A. A., Ture U.  
JOURNAL OF NEUROSURGERY, no.3, pp.865-874, 2024 (SCI-Expanded)
- II. **Repeat endoscopic endonasal transsphenoidal surgery for residual or recurrent cushing's disease: safety, feasibility, and success**  
HANALIOĞLU Ş., GÜRSES M. E., Gecici N. N., Baylarov B., IŞIKAY A. İ., Gurlek A., BERKER M.  
PITUITARY, no.3, pp.259-268, 2024 (SCI-Expanded)
- III. **Quantitative assessment and objective improvement of the accuracy of neurosurgical planning through digital patient-specific 3D models**  
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- IV. **Enabling personalization of a robotic surgery procedure via a surgery training simulator**  
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ROBOTICA, vol.41, pp.869-884, 2023 (SCI-Expanded)
- V. **Endonasal endoscopic approach for sellar metastatic pathologies: a national observation**  
KAHILOĞULLARI G., Bayatli E., Geyik M., ÇABUK B., BETON S., Gunaldi O., Tanriverdi O., ÇETİNALP N. E., TARKAN Ö., Yildirim A. E., et al.  
BRITISH JOURNAL OF NEUROSURGERY, vol.37, no.2, pp.206-212, 2023 (SCI-Expanded)
- VI. **Development and Validation of a Novel Methodological Pipeline to Integrate Neuroimaging and Photogrammetry for Immersive 3D Cadaveric Neurosurgical Simulation**  
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FRONTIERS IN SURGERY, vol.9, 2022 (SCI-Expanded)
- VII. **Do antimicrobial stewardship programs improve the quality of care in ICU patients diagnosed with**

**infectious diseases following consultation? Experience in a tertiary care hospital**

GÜRSOY G., UZUN Ö., METAN G., YILDIRIM M., BAHAP M., DEMİRKAN S. K., TOPELI A., AKINCI S. B., TOPÇUOĞLU M. A., BERKER M., et al.

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- VIII. **The Past, Present, and Future Statuses of Formerly Classified "Atypical Pituitary Adenomas": A Clinicopathological Assessment of 101 Cases in a Cohort of More than 1,000 Pure Endoscopically Treated Patients in Single Center**  
Bal E., Kulac I., Ayhan S., Soylemezoglu F., BERKER M.  
JOURNAL OF NEUROLOGICAL SURGERY PART B-SKULL BASE, vol.82, 2021 (SCI-Expanded)
- IX. **Human-Robot Interfaces of the NeuRoboScope: A Minimally Invasive Endoscopic Pituitary Tumor Surgery Robotic Assistance System**  
DEDE M. İ. C., KİPER G., AYAV T., ÖZDEMİREL B., TATLICIOĞLU E., HANALIOĞLU Ş., Isikay I., BERKER M.  
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- X. **The Effect of Training, Used-Hand, and Experience on Endoscopic Surgery Skills in an Educational Computer-Based Simulation Environment (ECE) for Endoneurosurgery Training**  
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- XI. **The Underlying Reasons of the Navigation Control Effect on Performance in a Virtual Reality Endoscopic Surgery Training Simulator**  
ÇAĞILTAY N., Ozcelik E., BERKER M., Dalveren G. G. M.  
INTERNATIONAL JOURNAL OF HUMAN-COMPUTER INTERACTION, vol.35, no.15, pp.1396-1403, 2019 (SCI-Expanded)
- XII. **Construct and face validity of the educational computer-based environment (ECE) assessment scenarios for basic endoneurosurgery skills**  
ÇAĞILTAY N., Ozcelik E., ŞENGÜL G., BERKER M.  
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- XIII. **A case of idiopathic granulomatous hypophysitis**  
Kutbay N. O., Berker M., Soylemezoglu F., ÖZİŞİK H., ŞARER YÜREKLİ B. P.  
HORMONES-INTERNATIONAL JOURNAL OF ENDOCRINOLOGY AND METABOLISM, vol.16, no.3, pp.331-332, 2017 (SCI-Expanded)
- XIV. **Endoscopic Endonasal Transsphenoidal Surgery, A Reliable Method for Treating Primary and Recurrent/Residual Craniopharyngiomas: Nine Years of Experience**  
BAL E., Oge K., BERKER M.  
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- XV. **Descriptive Analysis of Sphenovomerine Suture and Its Importance in Neurosurgery**  
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- XVI. **Splitting of the Optic Nerve by a Pituitary Macroadenoma**  
Hanalioglu S., Isikay I., BERKER M.  
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- XVII. **Reasons and results of endoscopic surgery for prolactinomas: 142 surgical cases**  
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- XVIII. **Early promising results for the endoscopic surgical treatment of Cushing's disease**  
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- XIX. **Treatment of acromegaly by endoscopic transsphenoidal surgery: surgical experience in 214 cases and cure rates according to current consensus criteria**  
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JOURNAL OF NEUROSURGERY, vol.119, no.6, pp.1467-1477, 2013 (SCI-Expanded)

- XX. **Thyrotropinoma and multinodular goiter: A diagnostic challenge for hyperthyroidism**  
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- XXI. **Management of cerebrospinal fluid leak during endoscopic pituitary surgery**  
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- XXII. **Complications of endoscopic surgery of the pituitary adenomas: analysis of 570 patients and review of the literature**  
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PITUITARY, vol.15, no.3, pp.288-300, 2012 (SCI-Expanded)
- XXIII. **Parenchymal lymphoma of the brain on initial MR imaging: A comparative study between primary and secondary brain lymphoma**  
Senocak E., Oguz K. K., Ozgen B., Mut M., Ayhan S., BERKER M., ÖZDEMİR P., Cila A.  
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- XXIV. **A Case of Intracranial Hypotension Complicated with Hydrocephalus**  
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TURKISH NEUROSURGERY, vol.20, no.4, pp.550-556, 2010 (SCI-Expanded)
- XXV. **Micro ct analysis of sellar floor in pituitary adenomas, especially in Cushing's disease**  
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- XXVIII. **Endovascular treatment of kissing aneurysms at the fenestrated basilar artery case report with literature review**  
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- XXIX. **Intradiscal disc herniations in the lumbar spine and a new classification of intradural disc herniations**  
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- XXX. **Pulmonary embolism in neurosurgical patients**  
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## Articles Published in Other Journals

- I. **The Resolution of Photophobia and Short-Lasting Unilateral Neuralgiform Headache Attacks with Conjunctival Injection and Tearing (SUNCT) Subsequent to Growth Hormone Adenoma Resection: Elucidating the Proposed Pathophysiological Mechanisms**  
DEMİREL ÖZBEK E., BERKER M., ÜNAL ÇEVİK İ.  
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- II. **Role of Hypofractionated Stereotactic Radiosurgery in Recurrent Pineal Parenchymal Tumors of Intermediate Differentiation: A Case Report and Review of the Literature**  
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- III. **Technology-enhanced surgical education: attitudes and perceptions of the endoscopic surgery community in Turkey**  
ÇAĞILTAY N., BERKER M.  
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- IV. **Juguler Foramen Schwannomaları**  
IŞIKAY A. İ., BERKER M.  
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- V. **The ultrastructure and immunohistochemistry of the septum pellucidum in a case of thalamic low grade astrocytoma with review of literature**  
ALDUR M. M., BERKER M., ÇELİK H. H., Sargon M. F., Ugur Y., Dagdeviren A.  
Neuroanatomy, vol.1, pp.7-11, 2002 (Scopus)

## Books & Book Chapters

- I. **Nöroşirürji Ders Kitabı**  
MUT AŞKUN M., İNCİ M. S., AKBAY A., BERKER M., ÖGE H. K., BİLGİNER B.  
Hacettepe Üniversitesi Yayınları, Ankara, 2017

## Refereed Congress / Symposium Publications in Proceedings

- I. **Simulations for surgical education: A case study for neurosurgery**  
BERKER M., ÇAĞILTAY N., IŞIKAY A. İ.  
INTED 2015 International Technology, Education and Development Conference, Madrid, Spain, 02 March 2015 - 04 March 2015
- II. **Conceptual Design of a Surgical Instrument-Guided Robotic Neuroendoscope Holder - NeuRoboScope**  
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- III. **Cerrahi aletlerle yönlendirilebilen robot yardımcı endoskop kontrol sistemi Neuroscope'xxun kavramsal tasarımı**  
IŞIKAY A. İ., HANALIOĞLU Ş., DEDE M. İ. C., BERKER M.  
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- IV. **Simülasyon teknolojisi ile zenginleştirilmiş endo-nöroşirürji eğitimi modeli: endoskopik hipofiz cerrahisi için örnek bir çalışma**  
ÇAĞILTAY N., HANALIOĞLU Ş., IŞIKAY A. İ., BERKER M.  
TND 29. Bilimsel Kongresi, Turkey, 17 - 21 April 2015, vol.25
- V. **Problems of Endoneurosurgeru Education: A cse study in Turkey**  
ÇAĞILTAY N., BERKER M., ÖZÇELİK E.  
INTED2105 International Technology, Education and Development Conference, Madrid, Spain, 2 - 04 March 2015
- VI. **PROBLEMS OF ENDONEUROSURGERY EDUCATION: A CASE STUDY IN TURKEY**  
ÇAĞILTAY N., BERKER M., ÖZÇELİK E.  
9th International Technology, Education and Development Conference (INTED), Madrid, Spain, 2 - 04 March 2015, pp.1410-1420
- VII. **SIMULATIONS FOR SURGICAL EDUCATION: A CASE STUDY FOR ENDONEUROSURGERY**  
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9th International Technology, Education and Development Conference (INTED), Madrid, Spain, 2 - 04 March 2015, pp.1394-1400
- VIII. **Endoskopik transsfenoidal hipofiz cerrahisi: 56 Cushing vakasının sonuçları**

BERKER M., IŞIKAY A. İ., GÜRLEK Ö. A., BAYRAKTAR M., SÖYLEMEZOĞLU A. F.

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**IX. Sellar ve parasellar bölge cerrahisi komplikasyonları - önlemler ve çözüm önerileri**

BERKER M., HAZER ROSBERG D. B., IŞIKAY A. İ., YÜCEL Ö. T., ALDUR M. M.

TND 24. Bilimsel Kongresi, Turkey, 14 - 18 May 2010, vol.20, pp.75

**X. IMAGING FEATURES IN PARENCHYMAL LYMPHOMATOUS MASSES IN BRAIN: PRIMARY CNS LYMPHOMA OR SYSTEMIC INVOLVEMENT OF THE BRAIN?**

Mut M., Oguz K. K., Ayhan S., Soylemezoglu F., BERKER M.

3rd Quadrennial Meeting of the World-Federation-of-Neuro-Oncology/6th Meeting of the Asian-Society-for-Neuro-Oncology, Yokohama, Japan, 11 - 14 May 2009, vol.11, pp.969

**XI. IMAGING FEATURES IN PARENCHYMAL LYMPHOMATOUS MASSES IN BRAIN: PRIMARY CNS LYMPHOMA OR SYSTEMIC INVOLVEMENT OF THE BRAIN?**

Mut M., Oguz K. K., AYHAN S., Soylemezoglu F., BERKER M.

8th Congress of the European-Association-for-Neuro-Oncology (EANO), Barcelona, Spain, 12 - 14 September 2008, vol.10, pp.1086

## Metrics

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