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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. **Enabling personalization of a robotic surgery procedure via a surgery training simulator**
Dede M. I. C., Buyukoztekin T., HANALIOĞLU Ş., Isikay I., BERKER M.
ROBOTICA, vol.41, pp.869-884, 2023 (SCI-Expanded)
- II. **Endonasal endoscopic approach for sellar metastatic pathologies: a national observation**
KAHILOĞULLARI G., Bayatlı 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)
- III. **Development and Validation of a Novel Methodological Pipeline to Integrate Neuroimaging and Photogrammetry for Immersive 3D Cadaveric Neurosurgical Simulation**
Hanalioglu S., Romo N. G., Mignucci-Jimenez G., Tunc O., GÜRSES M. E., Abramov I., Xu Y., Sahin B., Isikay I., TATAR İ., et al.
FRONTIERS IN SURGERY, vol.9, 2022 (SCI-Expanded)
- IV. **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., TOPELİ A., AKINCI S. B., TOPÇUOĞLU M. A., BERKER M., et al.
International Journal of Infectious Diseases, vol.115, pp.201-207, 2022 (SCI-Expanded)
- V. **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)
- VI. **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., TATLİCİOĞLU E., HANALIOĞLU Ş., Isikay I., BERKER M.
JOURNAL OF MEDICAL DEVICES-TRANSACTIONS OF THE ASME, vol.15, no.1, 2021 (SCI-Expanded)

- VII. **The Effect of Training, Used-Hand, and Experience on Endoscopic Surgery Skills in an Educational Computer-Based Simulation Environment (ECE) for Endoneurosurgery Training**
ÇAĞILTAY N., Ozcelik E., Isikay I., HANALIOĞLU Ş., SÜSLÜ A. E., Yucel T., BERKER M.
SURGICAL INNOVATION, vol.26, no.6, pp.725-737, 2019 (SCI-Expanded)
- VIII. **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)
- IX. **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.
SURGICAL ENDOSCOPY AND OTHER INTERVENTIONAL TECHNIQUES, vol.31, no.11, pp.4485-4495, 2017 (SCI-Expanded)
- X. **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)
- XI. **Endoscopic Endonasal Transsphenoidal Surgery, A Reliable Method for Treating Primary and Recurrent/Residual Craniopharyngiomas: Nine Years of Experience**
BAL E., Oge K., BERKER M.
WORLD NEUROSURGERY, vol.94, pp.375-385, 2016 (SCI-Expanded)
- XII. **Descriptive Analysis of Sphenovomerine Suture and Its Importance in Neurosurgery**
UYĞUN S., SÜRÜCÜ H. S., TATAR İ., ÖZGEN MOCAN B., TUNALI S., BERKER M.
JOURNAL OF CRANIOFACIAL SURGERY, vol.27, no.7, pp.1858-1861, 2016 (SCI-Expanded)
- XIII. **Splitting of the Optic Nerve by a Pituitary Macroadenoma**
Hanalioglu S., Isikay I., BERKER M.
WORLD NEUROSURGERY, vol.89, 2016 (SCI-Expanded)
- XIV. **Reasons and results of endoscopic surgery for prolactinomas: 142 surgical cases**
Akin S., Isikay I., Soylemezoglu F., Yucel T., Gurlek A., BERKER M.
ACTA NEUROCHIRURGICA, vol.158, no.5, pp.933-942, 2016 (SCI-Expanded)
- XV. **Early promising results for the endoscopic surgical treatment of Cushing's disease**
BERKER M., Isikay I., Berker D., BAYRAKTAR M., Gurlek A.
NEUROSURGICAL REVIEW, vol.37, no.1, pp.105-113, 2014 (SCI-Expanded)
- XVI. **Treatment of acromegaly by endoscopic transsphenoidal surgery: surgical experience in 214 cases and cure rates according to current consensus criteria**
Hazer D. B., Isik S., Berker D., Guler S., Gurlek A., Yucel T., BERKER M.
JOURNAL OF NEUROSURGERY, vol.119, no.6, pp.1467-1477, 2013 (SCI-Expanded)
- XVII. **Thyrotropinoma and multinodular goiter: A diagnostic challenge for hyperthyroidism**
Aksoy D. Y., Gedik A., Cinar N., Soylemezoglu F., BERKER M., GÜRLEK Ö. A.
JOURNAL OF RESEARCH IN MEDICAL SCIENCES, vol.18, no.11, pp.1008-1010, 2013 (SCI-Expanded)
- XVIII. **Management of cerebrospinal fluid leak during endoscopic pituitary surgery**
BERKER M., Aghayev K., Yucel T., Hazer D. B., Onerci M.
AURIS NASUS LARYNX, vol.40, no.4, pp.373-378, 2013 (SCI-Expanded)
- XIX. **Complications of endoscopic surgery of the pituitary adenomas: analysis of 570 patients and review of the literature**
BERKER M., Hazer D. B., Yucel T., Gurlek A., Cila A., Aldur M. M., Onerci M.
PITUITARY, vol.15, no.3, pp.288-300, 2012 (SCI-Expanded)
- XX. **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.

- European Journal of Radiology, vol.79, no.2, pp.288-294, 2011 (SCI-Expanded)
- XXI. **Micro ct analysis of sellar floor in pituitary adenomas, especially in Cushing's disease**
BERKER M., Hazer D. B., Çehreli M., Salmon P., AKÇA K., Tekdemir I.
Acta Endocrinologica, vol.6, no.4, pp.481-492, 2010 (SCI-Expanded)
- XXII. **A Case of Intracranial Hypotension Complicated with Hydrocephalus**
Ozisik P., BERKER M., Onal B.
TURKISH NEUROSURGERY, vol.20, no.4, pp.550-556, 2010 (SCI-Expanded)
- XXIII. **Microscopic and electrophysiological changes on regenerating sciatic nerves of rats treated with simvastatin**
Daglioglu E., BERKER M., Demirci M., Tuncel M., KARABULUT E., Erbeni A.
FOLIA NEUROPATHOLOGICA, vol.48, no.1, pp.49-56, 2010 (SCI-Expanded)
- XXIV. **Effects of pravastatin on cellular ultrastructure and hemorheology in rats after traumatic head injury**
Hazer D. B., BERKER M., Narin F., Ileri-Gurel E., Basak A. T., Seringec N., Kaymaz F., Dikmenoglu N., Tuncel M.
CLINICAL HEMORHEOLOGY AND MICROCIRCULATION, vol.46, no.1, pp.1-11, 2010 (SCI-Expanded)
- XXV. **Endovascular treatment of kissing aneurysms at the fenestrated basilar artery case report with literature review**
SAATCI I., CEKIRGE H., Karcaaltincaba M., BASGUN N., BERKER M., TIMURKAYNAK E., OZCAN O.
SURGICAL NEUROLOGY, vol.58, no.1, pp.54-58, 2002 (SCI-Expanded)
- XXVI. **Intracranial disc herniations in the lumbar spine and a new classification of intradural disc herniations**
Mut M., BERKER M., Palaoğlu S.
Spinal Cord, vol.39, no.10, pp.545-548, 2001 (SCI-Expanded)
- XXVII. **Pulmonary embolism in neurosurgical patients**
Inci S., ERBENGI A., BERKER M.
Surgical Neurology, vol.43, no.2, pp.123-129, 1995 (SCI-Expanded)

Articles Published in Other Journals

- I. **Role of Hypofractionated Stereotactic Radiosurgery in Recurrent Pineal Parenchymal Tumors of Intermediate Differentiation: A Case Report and Review of the Literature**
BEDÜK ESEN Ç. S., YAZICI G., BERKER M., Zorlu F.
CUREUS, vol.12, no.8, 2020 (ESCI)
- II. **Technology-enhanced surgical education: attitudes and perceptions of the endoscopic surgery community in Turkey**
ÇAĞILTAY N., BERKER M.
BMJ SIMULATION & TECHNOLOGY ENHANCED LEARNING, vol.5, no.1, pp.39-45, 2019 (ESCI)
- III. **Juguler Foramen Schwannomaları**
IŞIKAY A. İ., BERKER M.
Türk Nöroşirürji Dergisi, vol.26, no.1, pp.61-73, 2016 (Peer-Reviewed Journal)
- IV. **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.

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 2105
- II. **Conceptual Design of a Surgical Instrument-Guided Robotic Neuroendoscope Holder - NeuRoboScope**
HANALIOĞLU Ş., IŞIKAY A. İ., DEDE M. İ. C., BERKER M.
WFNS 2017 XVI. World Congress of Neurosurgery, Turkey, 20 - 25 August 2017, vol.27, pp.25
- III. **Cerrahi aletlerle yönlendirilebilen robot yardımcı endoskop kontrol sistemi Neuroscope'xxun kavramsal tasarımı**
IŞIKAY A. İ., HANALIOĞLU Ş., DEDE M. İ. C., BERKER M.
TND 31. Bilimsel Kongresi, Turkey, 29 March - 02 April 2017, vol.27, pp.73
- 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**
BERKER M., ÇAĞILTAY N., Isikay I.
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.
TND 24. Bilimsel Kongresi, Turkey, 14 - 18 May 2010, vol.20, pp.76
- 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 LYPHOMATOUS 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 LYPHOMATOUS MASSES IN BRAIN: PRIMARY CNS LYMPHOMA OR SYSTEMIC INVOLVEMENT OF THE BRAIN?**
Mut M., Oguz K. K., AYHAN S., Soeylemozglu F., BERKER M.
8th Congress of the European-Association-for-Neuro-Oncology (EANO), Barcelona, Spain, 12 - 14 September 2008, vol.10, pp.1086

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