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Education Information

Expertise In Medicine, Marmara University, School Of Medicine, Surgical Medical Sciences, Turkey 1998 - 2005

Undergraduate, Istanbul University, Istanbul Medical Faculty, İstanbul Tıp Pr., Turkey 1992 - 1998

Academic Titles / Tasks

Associate Professor, Acibadem Mehmet Ali Aydinlar University, School Of Medicine, Department Of Surgecal Sciences, 2012 - Continues

Assistant Professor, Acibadem Mehmet Ali Aydinlar University, School Of Medicine, Department Of Surgecal Sciences, 2009 - 2012

Academic and Administrative Experience

Head of Department, Acibadem Mehmet Ali Aydinlar University, School Of Medicine, Department Of Surgecal Sciences, 2023 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Susceptibility-Weighted MRI for Predicting NF-2 Mutations and S100 Protein Expression in Meningiomas**
Azamat S., Buz-Yalug B., Dindar S. S., Yilmaz Tan K., Ozcan A., CAN Ö., ERŞEN DANYELİ A., Pamir M. N., DİNÇER A., ÖZDUMAN K., et al.
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- II. **Identification of IDH and TERTp mutations using dynamic susceptibility contrast MRI with deep learning in 162 gliomas**
Buz-Yalug B., Turhan G., Cetin A. I., Dindar S. S., ERŞEN DANYELİ A., Yakicier C., Pamir M. N., ÖZDUMAN K., DİNÇER A., Ozturk-Isik E.
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- III. **Resection of the contrast-enhancing tumor in diffuse gliomas bordering eloquent areas using electrophysiology and 5-ALA fluorescence: evaluation of resection rates and neurological outcome-a systematic review and meta-analysis**

Peters D. R. R., Halimi F., ÖZDUMAN K., Levivier M., Conti A., Reyns N., Tuleasca C.

NEUROSURGICAL REVIEW, vol.46, no.1, 2023 (SCI-Expanded)

- IV. **Super-enhancer hijacking drives ectopic expression of hedgehog pathway ligands in meningiomas**
Youngblood M. W., Erson-Omay Z., Li C., Najem H., Coskun S., Tyrtova E., Montejo J. D., Miyagishima D. F., Barak T., Nishimura S., et al.
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- V. **Microsurgical resection of gliomas of the cingulate gyrus: a systematic review and meta-analysis**
Diaz S., Reyns N., Ozduman K., Levivier M., Schulder M., Tuleasca C.
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- VI. **Tumor heterogeneity and tumor-microglia interactions in primary and recurrent IDH1-mutant gliomas**
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CELL REPORTS MEDICINE, vol.4, no.11, 2023 (SCI-Expanded)
- VII. **Associating <i>IDH</i> and <i>TERT</i> Mutations in Glioma with Diffusion Anisotropy in Normal-Appearing White Matter**
Halilibrahimoğlu H., Polat K., Keskin S., Genç O., Aslan O., Öztürk-Işık E., Yakıcıer C., Danyeli A., Pamir M. N., Özduman K., et al.
AMERICAN JOURNAL OF NEURORADIOLOGY, vol.44, no.5, pp.553-561, 2023 (SCI-Expanded)
- VIII. **The parietooccipital interhemispheric transtentorial approach for pineal tumors**
Bozkurt B., Cevik O. M., Yayla A., Erşen Danyeli A., Unal C., Özduman K., Guduk M., Usseli M. İ., Pamir M. N.
JOURNAL OF CLINICAL NEUROSCIENCE, vol.110, pp.39-47, 2023 (SCI-Expanded)
- IX. **Optimum choice of MRA-sequences for Gamma Knife planning in AVM**
DİNÇER A., ÖZDUMAN K.
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- X. **Magnetic resonance spectroscopic correlates of progression free and overall survival in "glioblastoma, IDH-wildtype, WHO grade-4"**
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- XI. **The effect of tumor shape irregularity on Gamma Knife treatment plan quality and treatment outcome: an analysis of 234 vestibular schwannomas**
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- XII. **MEOX2 homeobox gene promotes growth of malignant gliomas**
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- XIII. **Information theory approaches to improve glioma diagnostic workflows in surgical neuropathology**
Cevik L., Landrove M. V., Aslan M. T., Khammad V., Garagorry Guerra F. J., Cabello-Izquierdo Y., Wang W., Zhao J., Becker A. P., Czeisler C., et al.
BRAIN PATHOLOGY, vol.32, no.5, 2022 (SCI-Expanded)
- XIV. **Correlation of anatomical involvement patterns of insular gliomas with subnetworks of the limbic system**
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- XV. **Oligosarcomas, IDH-mutant are distinct and aggressive**
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- XVI. **The reliability and interobserver reproducibility of T2/FLAIR mismatch in the diagnosis of IDH-mutant astrocytomas**
YENİÇERİ İ. Ö., Yildiz M. E., Ozduman K., Danyeli A. E., Pamir M. N., Dincer A.

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- XVII. **Associations of meningioma molecular subgroup and tumor recurrence.**
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Neuro-oncology, vol.23, no.5, pp.783-794, 2021 (SCI-Expanded)
- XVIII. **Sequential filtering for clinically relevant variants as a method for clinical interpretation of whole exome sequencing findings in glioma**
Ülgen E., Can Ö., Bilguvar K., Akyerli Boylu C., Kılıçturgay Yüksel Ş., Erşen Danyeli A., Sezerman O. U., Yakicier M. C., Pamir M. N., Özduman K.
BMC MEDICAL GENOMICS, vol.14, no.1, 2021 (SCI-Expanded)
- XIX. **Analysis of Mitochondrial DNA Control Region D-Loop in Gliomas: Result of 52 Patients**
Yuksel S. K., ÖZDUMAN K., Yilmaz E., PAMİR AKSOY N. A., AKYERLİ BOYLU C.
Turkish Neurosurgery, vol.31, no.3, pp.368-372, 2021 (SCI-Expanded)
- XX. **Mutations and Copy Number Alterations in IDH Wild-Type Glioblastomas Are Shaped by Different Oncogenic Mechanisms**
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- XXI. **Correlations between genomic subgroup and clinical features in a cohort of more than 3000 meningiomas**
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- XXII. **Mutations and copy number alterations in diffuse gliomas are shaped by different mechanisms**
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- XXIII. **Identification of IDH and TERTp mutation status using ^{1}H -MRS in 112 hemispheric diffuse gliomas.**
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Journal of magnetic resonance imaging : JMRI, vol.51, pp.1799-1809, 2020 (SCI-Expanded)
- XXIV. **Whole exome sequencing-based analysis to identify DNA damage repair deficiency as a major contributor to gliomagenesis in adult diffuse gliomas**
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- XXV. **Clinoidal meningiomas.**
Pamir M., Özduman K.
Handbook of clinical neurology, vol.170, pp.25-35, 2020 (SCI-Expanded)
- XXVI. **Current decision-making in meningiomas.**
Pamir M. N., Özduman K.
Handbook of clinical neurology, vol.169, pp.229-252, 2020 (SCI-Expanded)
- XXVII. **Elderly Patients with Intracranial Meningioma: Surgical Considerations in 228 Patients with a Comprehensive Analysis of the Literature.**
Ekşi M. Ş., Canbolat C., Akbas A., Ozmen B. B., Akpınar E., Usseli M. İ., Güngör A., Güdük M., Hacıhanefioglu M., Danyeli A., et al.
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- XXVIII. **Ventricular Meningiomas: Surgical Strategies and a New Finding That Suggest an Origin From the Choroid Plexus Epithelium.**
Güngör A., Danyeli A., Akbas A., Ekşi M. Ş., Güdük M., Özduman K., Pamir M. N.
World neurosurgery, vol.129, 2019 (SCI-Expanded)

- XXXIX. **Sphenoid Wing Meningiomas: Surgical Outcomes in a Series of 141 Cases and Proposal of a Scoring System Predicting Extent of Resection**
Güdük M., Özdoğan K., Pamir M. N.
WORLD NEUROSURGERY, vol.125, 2019 (SCI-Expanded)
- XXX. **Meningiomas Display a Specific Immunoexpression Pattern in a Rostrocaudal Gradient: An Analysis of 366 Patients**
Ulgen E., Bektasoglu P. K., Sav M. A., CAN Ö., ERŞEN DANYELİ A., Hizal D. B., Pamir M. N., ÖZDUMAN K.
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- XXXI. **Use of telomerase promoter mutations to mark specific molecular subsets with reciprocal clinical behavior in IDH mutant and IDH wild-type diffuse gliomas**
AKYERLİ BOYLU C., Yuksel S., CAN Ö., Erson-Omay E. Z., OKTAY Y., Cosgun E., Ulgen E., Erdemgil Y., Sav A., von Deimling A., et al.
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- XXXII. **Longitudinal analysis of treatment-induced genomic alterations in gliomas**
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- XXXIII. **Pterional and Unifrontal Approaches for the Microsurgical Resection of Olfactory Groove Meningiomas: Experience with 61 Consecutive Patients.**
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- XXXIV. **IDH-mutant glioma specific association of rs55705857 located at 8q24.21 involves MYC deregulation**
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- XXXV. **Integrated genomic characterization of IDH1-mutant glioma malignant progression**
Bai H., Harmanci A. S., Erson-Omay E. Z., Li J., Coskun S., Simon M., Krischek B., ÖZDUMAN K., Omay S. B., Sorensen E. A., et al.
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- XXXVI. **Somatic POLE mutations cause an ultramutated giant cell high-grade glioma subtype with better prognosis**
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- XXXVII. **Gliomların Moleküler Patogenezi**
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- XXXVIII. **Gliomların Patolojisi ve Moleküler Biyolojik Özellikleri**
OKTAY Y., AKYERLİ BOYLU C., YAKICIER M. C., ÖZDUMAN K., SAV M. A.
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- XXXIX. **Sporadic Spinal Hemangioblastomas Can be Effectively Treated by Microsurgery Alone**
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- XL. **Using intraoperative dynamic contrast-enhanced T1-weighted MRI to identify residual tumor in glioblastoma surgery**
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JOURNAL OF NEUROSURGERY, vol.120, no.1, pp.60-66, 2014 (SCI-Expanded)
- XLI. **Quantification of fibrin degradation products in glioma and meningioma patients**
CAN Ö., Erdemgil Y., Yildirim Z. Z., ÖZDUMAN K., Pamir M. N., Sav A., ÖZPINAR A.
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- XLII. **Intraoperative magnetic resonance spectroscopy for identification of residual tumor during low-**

grade glioma surgery Clinical article

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- XLIII. **Genomic Analysis of Non-NF2 Meningiomas Reveals Mutations in TRAF7, KLF4, AKT1, and SMO**
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- XLIV. **The Impact of German-Speaking Academicians on Higher Education in Turkey**
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- XLV. **LuIII parvovirus selectively and efficiently targets, replicates in, and kills human glioma cells.**
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- XLVI. **Oncolytic Virus Therapy for Glioblastoma Multifforme Concepts and Candidates**
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- XLVII. **Aneurysmal Subdural Hemorrhage Due To Pericallosal Artery Aneurysms**
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- XLVIII. **Current Status of Neurosurgery in Turkey**
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- XLIX. **Temporal Expression of Angiogenesis-Related Genes in Developing Neonatal Rodent Retina: A Novel in Vivo Model to Study Cerebral Vascular Development**
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- L. **First intraoperative, shared-resource, ultrahigh-field 3-Tesla magnetic resonance imaging system and its application in low-grade glioma resection Clinical article**
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- LI. **3-T ultrahigh-field intraoperative MRI for low-grade glioma resection.**
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- LII. **Peripheral immunization blocks lethal actions of vesicular stomatitis virus within the brain.**
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- LIII. **Viral strategies for studying the brain, including a replication-restricted self-amplifying delta-G vesicular stomatitis virus that rapidly expresses transgenes in brain and can generate a multicolor golgi-like expression.**
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- LIV. **Anterior clinoidal meningiomas: analysis of 43 consecutive surgically treated cases**
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- LV. **Systemic vesicular stomatitis virus selectively destroys multifocal glioma and metastatic carcinoma in brain.**
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- LVI. **Adenoviral-mediated gene transfer into the canine brain in vivo - Comments**
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- LVII. **Cytomegalovirus induces interferon-stimulated gene expression and is attenuated by interferon in the developing brain.**
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- LVIII. **Non-meningeal tumours of the cavernous sinus: A surgical analysis**
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- LIX. **The galenic venous system: Surgical anatomy and its angiographic and magnetic resonance venographic correlations**
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- LX. **Outcome determinants of pterional surgery for tuberculum sellae meningiomas**
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- LXII. **Experience of a single institution treating foramen magnum meningiomas.**
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- LXIII. **Long-term outcome after epilepsy surgery for focal cortical dysplasia.**
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- LXIV. **Clinicopathological review: Giant intraventricular cavernous malformation**
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- LXV. **Anatomic landmarks of the glossopharyngeal nerve: A microsurgical anatomic study**
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- LXVII. **Photo quiz**
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Articles Published in Other Journals

- I. **Gliom Gelişiminde Genetik Yatkınlığın Rolü**
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- II. **Meningiomların moleküler biyolojisi**
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- III. **Tumor-biology and current treatment of skull-base chordomas.**
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- IV. **Delayed intracerebral hemorrhage after ventriculoperitoneal shunting**
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- V. **Intradural rupture of cervical vertebral disc**
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Books & Book Chapters

- I. **Düşük Gradeli Gliomlar**
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in: Temel Nöroşirürji, Emel Avcı, Editor, Türk Nöroşirürji Derneği Yayınları, Ankara, pp.587-608, 2023
- II. **Kraniyal kordomalar**
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in: Temel Nöroşirürji Kitabı, Emel Avcı, Editor, Türk Nöroşirürji Derneği Yayınları, Ankara, pp.811-822, 2023
- III. **19-Perioperative management of patients with meningiomas**
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in: Meningiomas- A comprehensive text, Pamir MN, Black P, Fahlbusch R, Editor, Elsevier Science, Oxford/Amsterdam, Pennsylvania, pp.291-296, 2020

Refereed Congress / Symposium Publications in Proceedings

- I. **Central Neurocytoma Treatment From A Surgical Perspective**
YAŞAR A. H., BOZKURT B., ERŞEN DANYELİ A., GÜDÜK M., USSELİ M. İ., ÖZDUMAN K., PAMİR M. N.
The European Association of Neurosurgical Societies (EANS) Annual Congress 2023, Barcelona, Spain, 24 - 28 September 2023
- II. **VENTRAL FORAMEN MAGNUM MENİNGİOMLARINDA CERRAHİ YAKLAŞIM TÜMÖR BOYUTU VE VERTEBRAL ARTER ÇEVRELENMESİNE GÖRE BELİRLENİR**
Yayla A., Yaşar B., Orhun Ö., Bozkurt B., Usseli M. İ., Gündük M., Erşen Danyeli A., Özdoğan K., Pamir M. N.
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- III. **BEYİN SAPI KAVERNOMLARI: 27 VAKALIK SERİ İLE DENEYİMLER VE SONUÇLAR**
Zarbizade M., GÜDÜK M., USSELİ M. İ., BOZKURT B., ÖZDUMAN K., PAMİR M. N.
Türk Nöroşirürji Derneği 35. Bilimsel Kongresi, Antalya, Turkey, 24 November 2022, vol.32, pp.149
- IV. **CERRAHİ OLARAK TEDAVİ EDİLEN MENİNGİOMLAR ARASINDA ATIPIK VE ANAPLASTİK ORANI 2005-2022 YILLARI ARASINDA PROGRESİF OLARAK ARTMIŞTIR**
Zarbizade M., Orhun Ö., YAŞAR A. H., ERŞEN DANYELİ A., USSELİ M. İ., GÜDÜK M., BOZKURT B., PAMİR M. N., ÖZDUMAN K.
Türk Nöroşirürji Derneği 35. Bilimsel Kongresi, Antalya, Turkey, 24 November 2022, vol.32, pp.102
- V. **ERİŞKİN (DİFFÜZ ORTA HAT GLİOMU H3-K27M MUTANT) TÜMÖRÜ HASTALARINDA KLİNİK SAĞKALIM ANALİZ**
Yayla A., Orhun Ö., USSELİ M. İ., ERŞEN DANYELİ A., DİNÇER A., BOZKURT B., PAMİR M. N., ÖZDUMAN K.
Türk Nöroşirürji Derneği 35. Bilimsel Kongresi, Antalya, Turkey, 24 November 2022, vol.32, pp.105
- VI. **SANTRAL NÖROSİTOM SERİSİNİN KLİNİKOPATOLOJİK DETAYLARI**
Yaşar A. H., Usseli M. İ., Erşen Danyeli A., Gündük M., Bozkurt B., Özdoğan K., Pamir M. N.
Türk Nöroşirürji Derneği 35. Bilimsel Kongresi, Antalya, Turkey, 24 November 2022, vol.32, pp.107-108
- VII. **Tentorial Meningiomas: A Series of 111 Patients**

GÜDÜK M., BOZKURT B., USSELİ M. İ., ERŞEN DANYELİ A., ÖZDUMAN K., PAMİR M. N.

16th Asian Australasian Congress of Neurological Surgeons (AACNS), JERUSALEM, Israel, 05 September 2022

- VIII. **OLIGOSARCOMA, IDH-MUTANT IS A DISTINCT AGGRESSIVE TYPE**
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- IX. **Correlations of Single Voxel 1H-MRS Findings with Tumor Biology in Meningiomas.**
Saçlı-Bilmez B., Erşen Danyeli A., Ekşi M. Ş., Kübra T., Can Ö., Yakıcıer C., Pamir M. N., Dinçer A., Öztürk Işık E., Özduman K.
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- X. **H3K27M Mutant Difüz Gliomlar: Klinik, Anatomik ve Moleküler Varyasyonlar**
Erşen Danyeli A., Kök Y. B., İnce Ü., Yakıcıer C., Erdamar A. S., Tokat F., Barut S. P., Olcaysoy B., Tanrıkulu B., Özduman K., et al.
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- XI. **ASSOCIATIONS OF GENOMIC SUBGROUP WITH RECURRENCE IN LOW-GRADE MENINGIOMAS**
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25th Virtual Annual Scientific Meeting and Education Day of the Society-for-Neuro-Oncology (SNO), ELECTR NETWORK, 19 - 21 November 2020, pp.173
- XII. **ASSOCIATION OF RADIOMICS BASED TUMOR SHAPE IRREGULARITY MEASURES AND GAMMA KNIFE DOSE PLANNING INDICES IN VESTIBULAR SCHWANNOMAS**
Sumer E., Tek E., Sengoz M., PAMİR M. N., DİNÇER A., Ozcan A., ÖZDUMAN K., Ozturk-Isik E.
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- XIII. **Mutations and copy number alterations in diffuse gliomas are shaped by different mechanisms**
ÖZDUMAN K., Ulgen E., Karacan S., Gerlevik U., CAN Ö., Bilguvar K., Akyerli C., Yuksel Ş., Ersen-Danyeli A., Tihan T., et al.
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- XIV. **IDH-Mutant Gliomas Differ in Distribution of Mitochondrial Genomic Alterations**
Ozduman K., Yuksel Ş., Akyerli C., Bilguvar K., Ersen-Danyeli A., Yilmaz E., Pamir M. N.
Annual Scientific Meeting of the American-Association-of-Neurological-Surgeons (AANS), Massachusetts, United States Of America, 25 - 29 April 2020, pp.84
- XV. **MENINGIOMA WITH MULTIPLE DRIVERS: GENOMIC LANDSCAPE AND CLINICAL CORRELATIONS**
Li C., Tyrtova E., Youngblood M., Miyagishima D., Duran D., Montejo J., ÖZDUMAN K., Sheth A., Zhao A., Fomchenko E., et al.
24th Annual Scientific Meeting and Education Day of the Society-for-Neuro-Oncology (SNO) / 3rd SNO-SCIDOT Joint Conference on Therapeutic Delivery to the CNS, Arizona, United States Of America, 20 - 24 November 2019, pp.141
- XVI. **MENINGIOMA GENOMIC SUBGROUP AS A PREDICTOR OF POST-OPERATIVE PATIENT OUTCOMES: IMPLICATIONS FOR TREATMENT AND FOLLOW-UP**
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- XVII. **Outcome Analysis Among Meningioma Genomic Subgroups Identifies Decreased Recurrence Free Survival in PI3K Activated Tumors**
Youngblood M. W., Sheth A., Zhao A., Montejo J. D., Duran D., Li C., Tyrtova E., Ozduman K., Miyagishima D. F., Boetto J., et al.
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- XVIII. **IS THE PATHOLOGICAL-GRADE RELEVANT IN "IDH-WILD TYPE, TERT-MUTANT" DIFFUSE-GLIOMAS?**

AN ANALYSIS IN 147 PATIENTS

Danyeli A., Akyerli C., DİNÇER A., Cosgun E., Abacioglu U., PAMİR M. N., ÖZDUMAN K.

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- XIX. **SS-077-SPHENOID WING MENINGIOMAS: SURGICAL OUTCOMES IN A SERIES OF 141 CASES, AND PROPOSAL OF A SCORING SYSTEM PREDICTING EXTENT OF RESECTION**
GÜDÜK M., GÜNGÖR A., EKŞİ M. Ş., ERŞEN DANYELİ A., ÖZDUMAN K., PAMİR M. N.
Türk Nöroşirürji Derneği 33. Bilimsel Kongresi, Antalya, Turkey, 11 - 14 April 2019, vol.29, pp.163
- XX. **SS-090-WHO GRADE II VE III MENİNGİOMA SERİSİ ANALİZİ**
GÜDÜK M., EKŞİ M. Ş., GÜNGÖR A., ERŞEN DANYELİ A., ÖZDUMAN K., PAMİR M. N.
Türk Nöroşirürji Derneği 33. Bilimsel Kongresi, Antalya, Turkey, 11 - 14 April 2019, vol.29, pp.169
- XXI. **SS-120- ELDERLY PATIENTS WITH INTRACRANIAL MENINGIOMAS: PROS AND CONS OF SURGERY IN PATIENTS WITH ≥ 65-YEARS OF AGE**
EKŞİ M. Ş., CANBOLAT Ç., AKBAŞ A., AKPINAR E., GÜNGÖR A., GÜDÜK M., ERŞEN DANYELİ A., ÖZDUMAN K., PAMİR M. N.
Türk Nöroşirürji Derneği 33. Bilimsel Kongresi, Antalya, Turkey, 11 - 14 April 2019, vol.29, pp.181
- XXII. **Analysis of mutational processes in 23 adult hemispheric diffuse gliomas identifies DNA-damage repair deficiency as a major contributor to gliomagenesis**
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SUN H. İ., GÜDÜK M., ÖZDUMAN K., USSELİ M. İ., HACIHANEFİOĞLU M., PEKER S., PAMİR M. N.
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- XXV. **Results for Microsurgical Removal of Tentorial Meningiomas**
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- XXVIII. **PTERIONAL AND UNIFRONTAL APPROACH FOR THE MICROSURGICAL RESECTION OF OLFACTORY GROOVE MENINGIOMAS: EXPERIENCE WITH A SERIES OF 61 CONSECUTIVE PATIENTS**
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Memberships / Tasks in Scientific Organizations

Nöroonkoloji Derneđi, Chairman, 2023 - Continues, Turkey

Scientific Refereeing

FRONTIERS IN ONCOLOGY, SCI Journal, June 2022

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Scientific Research / Working Group Memberships

Acibadem Üniversitesi Beyin Tümör Araştırma Grubu, Acibadem Mehmet Ali Aydınlar University, Turkey,
<https://avesis.acibadem.edu.tr/koray.ozduman/iletisim>, 2012 - Continues

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