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Research Areas

Medicine, Health Sciences, Surgery Medicine Sciences, Nervous System Surgery

Academic Titles / Tasks

Associate Professor, Recep Tayyip Erdogan University, Tıp Fakültesi, Cerrahi Tıp Bilimleri Bölümü, 2018 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **New Evidence for Regulatory Role of Trigeminal Ganglion on the Intraocular Pressure Following Subarachnoid Hemorrhage**
Findik H., Kanat A., Aydin M. D., Guvercin A. R., Ozmen S.
JOURNAL OF NEUROLOGICAL SURGERY PART A-CENTRAL EUROPEAN NEUROSURGERY, vol.85, no.02, pp.137-141, 2024 (SCI-Expanded)
- II. **New experimental finding of dangerous autonomic ganglia changes in cardiac injury following subarachnoid hemorrhage; a reciprocal culprit-victim relationship between the brain and heart**
AYDIN M. D., KANAT A., Sahin B., ŞAHİN M. H., ERGENE Ş., DEMİRTAŞ R.
INTERNATIONAL JOURNAL OF NEUROSCIENCE, vol.134, no.2, pp.91-102, 2024 (SCI-Expanded)
- III. **Interaction between Neurogenic Pulmonary Edema and Thoracic 3 DRG Degeneration Following Spinal Subarachnoid Hemorrhage; First Experimental Study.**
Sirinoglu D., Sarıgül B., Kanat A., Aydin M. D., Demirtas R.
Journal of neurological surgery. Part A, Central European neurosurgery, 2023 (SCI-Expanded)
- IV. **Overlooked evidence for transmission deficit of pupillary light reflex can be secondary to trigeminal nerve ganglion degeneration following subarachnoid hemorrhage; preliminary experimental study.**
Sahin M. H., Kanat A., Karadag M. K., Akyuz M. E., Keles O. N., Gundogdu O. L., Findik H., Aydin M. D., Gel M. S., Daltaban I. S.
Neurological research, pp.1-9, 2023 (SCI-Expanded)
- V. **Could the Cerebral Involvement of COVID-19 Disease be Related to Microstructural Changes that are not Reflected in Conventional MRI Images?**
Celiker F., Kanat A., Turan A., Beyazal M., Burakgazi G., Hursoy N., Gundogdu H., Polat H. B.
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- VI. **The Enigma of Basilar Artery Dissections Secondary to Vasospasm following Subarachnoid Hemorrhage; Exploration of the Unknown Effect of Superior Cervical Ganglia: A Preliminary Experimental Study.**
Zeynal M., Sahin M. H., Kanat A., Karadag M. K., Sipal S. A., Ergene S., Aydin M. D.
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- VII. **Interesting negative correlation between transorbital optic nerve sheath diameter and Evans' index values; can it be predictive for failure of endoscopic third ventriculostomy?**
Guvercin A. R., Besir A., Kanat A., Yazar U., Findik H.
INTERNATIONAL JOURNAL OF NEUROSCIENCE, vol.133, no.7, pp.812-818, 2023 (SCI-Expanded)
- VIII. **Deposition and characterization of the Ag nanoparticles on absorbable surgical sutures at the cryogenic temperatures**
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APPLIED PHYSICS A: MATERIALS SCIENCE AND PROCESSING, vol.129, pp.128-138, 2023 (SCI-Expanded)
- IX. **From Nose to Lumbar Spinal Cord - Reduced Sperm Numbers Occur by Olfactory Bulbectomy-Related Onuf's Nucleus Degeneration: New Experimental Evidence for Kallmann Syndrome.**
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Neuroendocrinology, vol.113, no.10, pp.1051-1058, 2023 (SCI-Expanded)
- X. **Biomechanical analysis of odontoid and transverse atlantal ligament in humans with ponticulus posticus variation under different loading conditions: Finite element study.**
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Injury, vol.53, pp.3879-3886, 2022 (SCI-Expanded)
- XI. **Does the anesthesia technique of cesarean section cause persistent low back pain after delivery? A retrospective analysis**
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- XII. **Important Finding for COVID-19 Pandemic; Hydrocephalus producing effect of Vaporised Alcohol Disinfectant.**
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- XIII. **The relationship between mean platelet volume and the mortality of patient severe head trauma; first study**
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- XIV. **How does the side of lumbar disc herniation influence the psoas muscle size at the L4-5 level in patients operated for unilateral hip arthroplasty?**
Guvercin Y., KANAT A., GÜNDOĞDU H., Abdioglu A. A., GÜVERCİN A. R., BALIK M. S.
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- XV. **Protective Felix Culpa Effect of Superior Sympathetic Cervical Ganglion Degenerations on Prevention of Basilar Artery Spasm After Subarachnoid Hemorrhage: A Preliminary Experimental Study**
Sahin B., Kanat A., Karadag M. K., Demirtas R., Aydin M. D.
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- XVI. **Comment on Bunmaprasert et al. Reducible Nonunited Type II Odontoid Fracture with Atlantoaxial Instability: Outcomes of Two Different Fixation Techniques. Int. J. Environ. Res. Public Health 2021, 18, 7990 Comment**
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- XVII. **Letter to the Editor Regarding "Kissing Aneurysms: Radiological and Surgical Difficulties in 30 Operated Cases and a Proposed Classification".**
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World neurosurgery, vol.160, pp.120-121, 2022 (SCI-Expanded)

- XVIII. **Introducing a new possible predisposing risk factor for odontoid type 2 fractures after cervical trauma; Ponticulus posticus anomaly of C1 vertebra**
Ozdemir B., Kanat A., Durmaz S., Ersegun Batcik O., Gundogdu H.
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- XIX. **Important interaction between urethral taste bud-like structures and Onuf's nucleus following spinal subarachnoid hemorrhage: A hypothesis for the mechanism of dysorgasmia**
Caglar O., AYDIN M. D., Aydin N., AHISKALIOĞLU A., KANAT A., Aslan R., ÖNDER A.
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- XX. **Asymmetric Cross Sectional Area Size of the Psoas Muscle Seems to be a Key Feature in Patients with L4-5 Lumbar Disc Herniations**
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- XXI. **Important interaction between urethral taste bud-like structures and Onuf's nucleus following spinal subarachnoid hemorrhage: A hypothesis for the mechanism of dysorgasmia**
Interacción importante entre las estructuras de tipo papila gustativa de la uretra y el núcleo de Onuf tras hemorragia subaracnoidea espinal: una hipótesis para el mecanismo de la disorgasmia
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- XXII. **Some Interesting Points of Competition of X-Ray using during the Greco-Ottoman War in 1897 and Development of Neurosurgical Radiology: A Reminiscence**
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- XXIII. **Estimating basilar artery upper rupture limit by dangerous alarming diameter of arteries (DADA) following bilateral common carotid artery ligation; a new theorem**
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- XXIV. **The Influence of Music on Neurosurgical Cases: A Neglected Knowledge.**
Gasenzer E. R., Kanat A., Nakamura M.
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- XXVI. **First histopathological bridging of the distance between Onuf & nucleus and substantia nigra after olfactory bulbectomy-new ideas about the urinary dysfunction in cerebral neurodegenerative disease: an experimental study**
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- XXVIII. **A new experimental evidence that olfactory bulb lesion may be a causative factor for substantia nigra degeneration; preliminary study**
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- XXIX. **COVID-19 infection produces subarachnoid hemorrhage; acting now to understand its cause: A short communication**
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- XXX. **Recrudescence of the syringomyelia after surgery of Chiari malformation type 1 with duraplasty**
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BRITISH JOURNAL OF NEUROSURGERY, vol.34, no.6, pp.697-700, 2020 (SCI-Expanded)
- XXXI. **Letter to the Editor Regarding the Manuscript of "The Longest Angiographic and Clinical Follow-Up of Microsurgically Treated Giant Intracranial Aneurysms: Experience with 70 Cases"**
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- XXXII. **Important aspect of hypoglossal nerve injury following gunshot wound; Can the clivus has a role? A case report**
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- XXXIV. **New Histopathologic Evidence for the Parasympathetic Innervation of the Kidney and the Mechanism of Hypertension Following Subarachnoid Hemorrhage**
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- XXXV. **Controversy about the protective role of volume in the frontal sinus after severe head trauma: larger sinus equates with higher risk of death**
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- XXXVI. **What Are We Missing From Asymmetric Relationship Between the Retinal Nerve Fiber Layer Thickness Profiles and Sphenoid Sinus Volume?**
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- XXXVII. **Rationalization of Using the MR Diffusion Imaging in B12 Deficiency**
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- XXXIX. **Describing a New Mechanism of Retinal Detachment Secondary to Ophthalmic Artery Vasospasm Following Subarachnoid Hemorrhage: An Experimental Study**
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- XL. **In Reply to Letter to the Editor Regarding "Transorbital Ultrasonographic Measurement of Optic Nerve Sheath Diameter for Intracranial Midline Shift in Patients with Head Trauma"**
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- XLI. **What Are We Missing From Asymmetric Relationship Between the Retinal Nerve Fiber Layer Thickness Profiles and Sphenoid Sinus Volume?**
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- XLIII. **Water-Filled Vesicles of Choroid Plexus Tumors**
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- XLIV. **The Effect of Neuroscientists on the Studies of Autonomic Nervous System Dysfunction Following Experimental Subarachnoid Hemorrhage**
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- XLV. **First emerging objective experimental evidence of hearing impairment following subarachnoid haemorrhage; Felix culpa, phonophobia, and elucidation of the role of trigeminal ganglion**
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- XLVI. **Our Final Response Concerning the Article Entitled "Aneurysm Clip Compression Technique in the Surgery of Aneurysms with Hard/Calcified Neck"**
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- XLVII. **Toward understanding the causes of blood pH irregularities and the roles of newly described binuclear neurons of carotid bodies on blood pH regulation during subarachnoid hemorrhage: Experimental study**
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- XLVIII. **Brachial Artery Vasospasm Caused by Cervical Dorsal Root Ganglion Degeneration After Subarachnoid Hemorrhage: An Experimental Study**
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- XLIX. **Paradoxic Relations between Basilar Artery Reconfiguration and Superior Cervical Ganglia Ischemia After Bilateral Common Carotid Artery Ligation**
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- L. **Rationalization of Using the MR Diffusion Imaging in B12 Deficiency**
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- LI. **Spinal Subarachnoid Hemorrhage Induced Intractable Miotic Pupil. A Reminder of Ciliospinal Sympathetic Center Ischemia Based Miosis: An Experimental Study**
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- LII. **In Reply to the Reply to the Letter to the Editor Regarding "Aneurysm Clip Compression Technique in the Surgery of Aneurysms with Hard/Calcified Neck"**
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- LIIL. **In Reply to 'Second Response to Second Criticism Concerning Our Article Entitled "Aneurysm Clip Compression Technique in the Surgery of Aneurysms with Hard/Calcified Neck"'**
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- LIV. **In Reply to "Hypothesis on the Origin of Dance: Mirror Neuron System and Imitation From Movement Disorders"**
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- LV. **Unpublished Neuropathologic Mechanism Behind the Muscle Weakness/Paralysis and Gait Disturbances Induced by Sciatic Nerve Degeneration After Spinal Subarachnoid Hemorrhage: An**

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- LVI. **Shunt dependency following aSAH**
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- LVII. **How Reliable Is Pupillary Evaluation Following Subarachnoid Hemorrhage? Effect of Oculomotor Nerve Degeneration Secondary to Posterior Communicating Artery Vasospasm: First Experimental Study**
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- LVIII. **A New Technique in Surgical Management of the Giant Cerebral Hydatid Cysts**
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- LIX. **Unilateral Isolated Hypoglossal Nerve Palsy Caused by Gunshot Injury**
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- LX. **Nontraumatic Intradiploic Epidermoid Cyst and Older Age: Association or Causality?**
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- LXII. **Analyzing of dark past and bright present of neurosurgical history with a picture of musicians**
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- LXIII. **The sooth beneath the taste roses in the urethra and first description of neuro-morpho-chemical mechanism of penile erectile posture in males: an experimental study**
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- LXIV. **Letter to the Editor Regarding "Predictors of Shunt-Dependent Hydrocephalus After Aneurysmal Subarachnoid Hemorrhage? A Systematic Review and Meta-Analysis"**
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- LXV. **Rationalization of the Irrational Neuropathologic Basis of Hypothyroidism-Olfaction Disorders Paradox: Experimental Study**
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- LXVI. **New Evidence for Causal Central Mechanism of Hyperglycemia in Subarachnoid Hemorrhage Secondary to Ischemic Degenerative Disruption of Circuitry Among Insular Cortex, Nodose Ganglion, and Pancreas: Experimental Study.**
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- LXVIII. **A New Determinant of Poor Outcome After Spontaneous Subarachnoid Hemorrhage: Blood pH and**

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LXIX. Neurosurgery and Music; Effect of Wolfgang Amadeus Mozart

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LXX. First Report of Awake Craniotomy of a Famous Musician: Suprasellar Tumor Surgery of Pianist Clara Haskil in 1942

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LXXI. IN REPLY TO THE LETTER TO THE EDITOR REGARDING "RESTORATION OF ANTERIOR VERTEBRAL HEIGHT BY SHORT-SEGMENT PEDICLE SCREW FIXATION WITH SCREWING OF FRACTURED VERTEBRA FOR THE TREATMENT OF UNSTABLE THORACOLUMBAR FRACTURES"

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