

Prof. Mehmet Dumlu AYDIN

Personal Information

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International Researcher IDs

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Education Information

Expertise In Medicine, Ataturk University, Tıp Fakültesi, Beyin Cerrahisi Anabilim Dalı, Turkey 1991 - 1996

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Health&Medicine, Emory University Neuroscience Lab, Emory University Aatlanta ABD, 2011

Health&Medicine, Maastricht University, Neuroscience, 2008

Dissertations

Expertise In Medicine, Mide Kanserleri Vagal Sinir İlişkileri, Atatürk Üniversitesi, Tıp Fakültesi, Beyin Cerrahisi Anabilim Dalı, 2017

Expertise In Medicine, BCCAL nun PCOMA ya etkisi, Sağlık Bilimleri Üniversitesi, Bakırköy Hastanesi, Beyin Cerrahisi, 2006

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Human Anatomy, Biophysics, Histology and Embryology, Surgery Medicine Sciences, Nervous System Surgery, Physics, Electromagnetism, Acoustics, Heat Transfer, Classical Mechanics and Fluid Dynamics, Acoustics, Natural Sciences

Academic Titles / Tasks

Professor, Ataturk University, Tıp Fakültesi, Cerrahi Tıp Bilimleri, 2011 - Continues

Academic and Administrative Experience

Courses

Kafa travmaları , Expertise In Medicine, 2023 - 2024
Posterior dolaşım anevrizmaları , Expertise In Medicine, 2023 - 2024
Glial tümörler , Expertise In Medicine, 2023 - 2024
Spinal tümörler , Expertise In Medicine, 2023 - 2024
Metastatik tümörler , Expertise In Medicine, 2023 - 2024
Kraniyal cerrahi anatomi , Expertise In Medicine, 2023 - 2024

Advising Theses

AYDIN M. D., Vagal sinir Mide kanseri ilişkileri, Expertise In Medicine, S.Kara(Student), 2017
AYDIN M. D., BCCAL'nin PComa'ya Etkisi, Expertise In Medicine, M.KARALAR(Student), 2006

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Important Finding for COVID-19 Pandemic; Hydrocephalus producing effect of Vaporised Alcohol Disinfectant**
KANAT A., AYDIN M. D., Sahin B., Daltaban I. S., Gel M. S., GÜVERCİN A. R., DEMİRTAŞ R.
Journal of Neurological Surgery, Part A: Central European Neurosurgery, vol.85, no.4, pp.355-360, 2024 (SCI-Expanded)
- II. **Interaction between Neurogenic Pulmonary Edema and Thoracic 3 DRG Degeneration Following Spinal Subarachnoid Hemorrhage: First Experimental Study**
Sirinoglu D., Sarigul B., KANAT A., AYDIN M. D., DEMİRTAŞ R.
JOURNAL OF NEUROLOGICAL SURGERY PART A-CENTRAL EUROPEAN NEUROSURGERY, 2024 (SCI-Expanded)
- III. **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)
- IV. **Overlooked evidence for transmission deficit of pupillary light reflex can be secondary to trigeminal nerve ganglion degeneration following subarachnoid hemorrhage; preliminary experimental study**
ŞAHİN M. H., KANAT A., KARADAĞ M. K., AKYÜZ M. E., KELEŞ O. N., GÜNDOĞDU Ö. L., FINDIK H., AYDIN M. D., Gel M. S., Daltaban I. S.
Neurological Research, vol.46, no.2, pp.178-186, 2024 (SCI-Expanded)
- V. **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., KARADAĞ M. K., DEMİRTAŞ R., AYDIN M. D.
WORLD NEUROSURGERY, vol.164, 2022 (SCI-Expanded)
- VI. **Predictive role of trigeminal ganglion ischemia on scalp survival affected by temporal artery diameters: The first experimental study**
OLĞUN A., Sirinoglu D., Karadag M. K., KAYA Z., MUTLU V., KOÇAK M. N., DEMİRTAŞ R., AYDIN M. D.
Journal of Plastic, Reconstructive and Aesthetic Surgery, vol.75, no.7, pp.2441-2450, 2022 (SCI-Expanded)
- VII. **Assessment relationship between the femoral artery vasospasm and dorsal root ganglion cell degeneration in spinal subarachnoid hemorrhage: an experimental study**
Cetin A., Ozevren H., ARSLAN R., Yektas A., AYDIN M. D.
Spinal Cord, vol.60, no.5, pp.404-407, 2022 (SCI-Expanded)

- VIII. **New Evidence for Regulatory Role of Trigeminal Ganglion on the Intraocular Pressure Following Subarachnoid Hemorrhage**
FINDIK H., KANAT A., AYDIN M. D., GÜVERCİN A. R., Özmen S.
JOURNAL OF NEUROLOGICAL SURGERY PART A-CENTRAL EUROPEAN NEUROSURGERY, vol.85, no.2, pp.137-141, 2022 (SCI-Expanded)
- IX. **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., Ahiskalioglu A., Kanat A., Aslan R., Onder A.
REVISTA INTERNACIONAL DE ANDROLOGIA, vol.20, no.1, pp.1-10, 2022 (SCI-Expanded)
- X. **Dry Mouth Caused by Facial Nerve Ischemia due to Subarachnoid Hemorrhage: An Experimental Study**
PAŞAHAN R., Yardim A., KARADAĞ M. K., Alpaslan A., AYDIN M. D.
WORLD NEUROSURGERY, vol.154, 2021 (SCI-Expanded)
- XI. **Burned spinal cord in acidotic cerebrospinal fluid during subarachnoid hemorrhage: Experimental study**
Kocak M. N., MALÇOK Ü. A., Sahin M. H., KARAAVCI N. Ç., ÇELİK M., DEMİRTAŞ R., Aydin M. D.
CIRUGIA Y CIRUJANOS, vol.89, no.5, pp.583-587, 2021 (SCI-Expanded)
- XII. **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**
KANAT A., AYDIN M. D., AKÇA N., ÖZMEN S.
LUTS-LOWER URINARY TRACT SYMPTOMS, vol.13, no.3, pp.383-389, 2021 (SCI-Expanded)
- XIII. **First emerging evidence of the relationship between Onuf's nucleus degeneration and reduced sperm number following spinal subarachnoid haemorrhage: Experimental study**
Çağlar Ö., Fırinci B., Aydın M. E., Arslan R., Kanat A., Demirci T., Aydın M. D., Karadeniz E., Yiğiter M., Akça N.
ANDROLOGIA, vol.53, no.5, 2021 (SCI-Expanded)
- XIV. **A new experimental evidence that olfactory bulb lesion may be a causative factor for substantia nigra degeneration; preliminary study**
Aydın M. D., Kanat A., Hacımuftüoğlu A., Özmen S., Ahiskalioglu A., Koçak M. N.
INTERNATIONAL JOURNAL OF NEUROSCIENCE, vol.131, no.3, pp.220-227, 2021 (SCI-Expanded)
- XV. **New description of vagal nerve innervated intrapancreatic taste buds and blood glucose level: An experimental analysis**
AYDIN M. D., Aydin A., Caglar O., AYDIN M. E., KARADENİZ E., Nalci K. A., DEMİRTAŞ R.
BIOIMPACTS, vol.11, no.3, pp.181-185, 2021 (SCI-Expanded)
- XVI. **Estimating basilar artery upper rupture limit by dangerous alarming diameter of arteries (DADA) following bilateral common carotid artery ligation; a new theorem**
AYDIN M. D., KANAT A., Aydin A., Aydin A., DEMİRCİ T., ÖZMEN S.
INTERNATIONAL JOURNAL OF NEUROSCIENCE, vol.132, no.2, pp.107-113, 2021 (SCI-Expanded)
- XVII. **Stellate ganglion ischemia on the prevention of pulmonary vasospasm during bilateral carotid artery ligation: The first experimental study**
Arslan R., Aydin M. E., Karadag M. K., Caglar O., Karadeniz E., Aydin M. D.
NEUROPATHOLOGY, vol.40, no.5, pp.467-473, 2020 (SCI-Expanded)
- XVIII. **Thoracic sympathetic nuclei ischemia: Effects on lower heart rates following experimentally induced spinal subarachnoid hemorrhage**
Koza Y., Bayram E., Koza E. A., Aydin M. D., Soyalp C., Atalay C., Sipal S.
NEUROCHIRURGIE, vol.66, no.3, pp.155-161, 2020 (SCI-Expanded)
- XIX. **A Rare Neurologic Disease that Mimics Cranial Hydatid Cyst: Leukoencephalopathy, Cerebral Calcifications, and Cysts**
Alper F., Polat G., Koçak M., Kaya Z., Aydin M. D.
JOURNAL OF CRANIOFACIAL SURGERY, vol.31, no.4, 2020 (SCI-Expanded)
- XX. **Toward the First Definition of Taste Rosea in Female Breasts: Histological Analysis**

Demirci T., Özmen S., Aydın N., Aydın M. D., Çağlar Ö., Ahıskaloğlu A., Karadeniz E., Gündoğdu B., Hacımüftüoğlu A. INTERNATIONAL JOURNAL OF MORPHOLOGY, vol.38, no.3, pp.565-569, 2020 (SCI-Expanded)

- XXI. **First definition of burned choroid plexus in acidic cerebrospinal fluid-filled brain ventricles during subarachnoid hemorrhage: Experimental study**
Demirci T., Aydın M. D., Çağlar O., Aydın N., Özmen S., Nalci K. A., Ahıskaloğlu A., Koçak M., Keles S. NEUROPATHOLOGY, vol.40, no.3, pp.251-260, 2020 (SCI-Expanded)
- XXII. **New Histopathologic Evidence for the Parasympathetic Innervation of the Kidney and the Mechanism of Hypertension Following Subarachnoid Hemorrhage**
Kepoglu U., Kanat A., Aydın M. D., Akça N., Kazdal H., Zeynal M., Kantarci M., Şipal S. JOURNAL OF CRANIOFACIAL SURGERY, vol.31, no.3, pp.865-870, 2020 (SCI-Expanded)
- XXIII. **The Role of Cardiac Ganglia in the Prevention of Coronary Atherosclerosis: An Analytical Examination of Cholesterol-fed Rabbits**
KOZA Y., AYDIN M. D., BAYRAM E., ŞİPAL S., Altas E., Soyalp C., Koza E. A. BALKAN MEDICAL JOURNAL, vol.37, no.2, pp.79-83, 2020 (SCI-Expanded)
- XXIV. **Predestinating Role of Cardiac Ganglia on Heart Life Expectancy in Rabbits After Brain Death Following Subarachnoid Hemorrhage: An Experimental Study**
Aydın M. E., Acikel M., Aydın N., Aydın M. D., Ahıskalioglu A., Atalay C., Ahıskalioglu E., Erdogan F., Sipal S. TRANSPLANTATION PROCEEDINGS, vol.52, no.1, pp.61-66, 2020 (SCI-Expanded)
- XXV. **Olfactory bulbectomy and raphe nucleus relationship: a new vision for well-known depression model.**
OZCAN H., AYDIN N., Aydın M. D., ORAL E., GUNDOGDU C., SIPAL S., HALICI Z. Nordic journal of psychiatry, pp.1-7, 2019 (SCI-Expanded)
- XXVI. **Describing a New Mechanism of Retinal Detachment Secondary to Ophthalmic Artery Vasospasm Following Subarachnoid Hemorrhage: An Experimental Study**
Findik H., Kanat A., AYDIN M. D., ÇAKIR M., Ozmen S. A., Okutucu M., BAYKAL O., ŞİPAL S. JOURNAL OF NEUROLOGICAL SURGERY PART A-CENTRAL EUROPEAN NEUROSURGERY, vol.80, no.6, pp.430-440, 2019 (SCI-Expanded)
- XXVII. **Exploring of the Unpredicted Effects of Olfactory Network Injuries on Mammary Gland Degeneration: A Preliminary Experimental Study.**
KARADENİZ E., KOCAK M., AHISKALIOĞLU A., NALCI K. A., OZMEN S., AKCAY M., AYDIN N., Aydın M. D., HACIMUFTUOĞLU A. Journal of investigative surgery : the official journal of the Academy of Surgical Research, vol.32, pp.624-631, 2019 (SCI-Expanded)
- XXVIII. **Disruption of the network between Onuf's nucleus and myenteric ganglia, and developing Hirschsprung-like disease following spinal subarachnoid haemorrhage: an experimental study.**
CAGLAR O., FIRINCI B., Dumlu A., KARADENİZ E., AHISKALIOĞLU A., SIPAL S., YIGİTER M., Bedii S. The International journal of neuroscience, vol.129, pp.1076-1084, 2019 (SCI-Expanded)
- XXIX. **Effect of Vasa Vasorum on Basilar Artery Vasospasm Following Subarachnoid Hemorrhage.**
OZONER B., ÇAKIR T., KAYACI S., Aydın M. D., AYDIN S., DEMIRCI E. World neurosurgery, vol.131, 2019 (SCI-Expanded)
- XXX. **Relationship between subarachnoid and central canal hemorrhage and spasticity: A first experimental study.**
KAYACI S., Aydın M. D., OZONER B., ÇAKIR T., BAS O., SIPAL S. The journal of spinal cord medicine, pp.1-9, 2019 (SCI-Expanded)
- XXXI. **Water-Filled Vesicles of Choroid Plexus Tumors.**
AYDIN M. D., Kanat A., Karaavci N. C., Sahin H., Ozmen S. The Journal of craniofacial surgery, vol.30, no.7, pp.2171-2173, 2019 (SCI-Expanded)
- XXXII. **Neurogenic Stress Cardiomyopathy Following Subarachnoid Hemorrhage Is Associated with Vagal Complex Degeneration: First Experimental Study.**
KOZA Y., AYDIN N., AYDIN M. D., KOZA E. A., BAYRAM E., ATALAY C., ALTAS E., Kursad H., KABALAR M. E. World neurosurgery, vol.129, 2019 (SCI-Expanded)

- XXXIII. **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.**
OZMEN S., ALTINKAYNAK K., Aydın M. D., AHISKALIOĞLU A., DEMİRCİ T., ÖZLÜ C., KANAT A., AYDIN N.
Neuropathology : official journal of the Japanese Society of Neuropathology, vol.39, pp.259-267, 2019 (SCI-Expanded)
- XXXIV. **The casual association of cervical spinal cord ischemia and axonal degeneration in second motor neuron following subarachnoid hemorrhage: Experimental study.**
KILIC M., KILIC B., Dumlu A., YILMAZ I., YILMAZ A., YILMAZ F., KURT A., Nuri K.
Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia, vol.66, pp.235-238, 2019 (SCI-Expanded)
- XXXV. **First emerging objective experimental evidence of hearing impairment following subarachnoid haemorrhage; Felix culpa, phonophobia, and elucidation of the role of trigeminal ganglion.**
CELIKER M., KANAT A., Aydın M. D., OZDEMİR D., AYDIN N., YOLAS C., CALIK M., PEKER H.
The International journal of neuroscience, vol.129, pp.794-800, 2019 (SCI-Expanded)
- XXXVI. **Predeterminative role of Onuf's nucleus ischemia on mesenteric artery vasospasm in spinal subarachnoid hemorrhage: A preliminary experimental study**
KARADENİZ E., ÇAĞLAR Ö., FIRINCI B., AHISKALIOĞLU A., AYDIN M. D., KOÇAK M. N., TAGHIZADEHGHALEHJOUGHİ A., YİĞİTER M., ŞİPAL S., GÜNDOĞDU B.
ASIAN JOURNAL OF SURGERY, vol.42, no.8, pp.797-804, 2019 (SCI-Expanded)
- XXXVII. **Brachial Artery Vasospasm Caused by Cervical Dorsal Root Ganglion Degeneration After Subarachnoid Hemorrhage: An Experimental Study.**
KAYACI S., ÇAKIR T., Aydın M. D., KANAT A., OMEROĞLU M. A., LEVENT A., KANTARCI A., DIYARBAKIRLI S., DEMİRCİ E.
World neurosurgery, vol.126, 2019 (SCI-Expanded)
- XXXVIII. **A New Neuropathologic Mechanism of Blood pH Irregularities After Neck Trauma: Importance of Carotid Body-Glossopharyngeal Nerve Network Degeneration.**
ÇAKIR T., KAYACI S., Aydın M. D., OZONER B., ÇALIK İ., ALTINKAYNAK K.
World neurosurgery, vol.125, 2019 (SCI-Expanded)
- XXXIX. **Paradoxic Relations between Basilar Artery Reconfiguration and Superior Cervical Ganglia Ischemia After Bilateral Common Carotid Artery Ligation.**
KILIC M., KILIC B., Aydın M. D., KANAT A., YILMAZ I., ESEOĞLU M., GUNDOĞDU B.
World neurosurgery, vol.125, 2019 (SCI-Expanded)
- XL. **Mysterious effects of olfactory pathway lesions on intestinal immunodeficiency targeting Peyer's patches: The first experimental study**
FIRINCI B., ÇAĞLAR Ö., KARADENİZ E., AHISKALIOĞLU A., DEMİRCİ T., DURLU AYDIN M. D.
MEDICAL HYPOTHESES, vol.125, pp.31-36, 2019 (SCI-Expanded)
- XLI. **Predictive Role of the Cervical Sympathetic Trunk Ischemia on Lower Heart Rates in an Experimentally Induced Stenoocclusive Carotid Artery Model by Bilateral Common Carotid Artery Ligation**
KOZA Y., BAYRAM E., AYDIN M. D., ATALAY C., ÖNEN M. R., Ozturk C., ŞİPAL S., DEMİRCİ E., LEVENT A.
CARDIOVASCULAR TOXICOLOGY, vol.19, no.1, pp.56-61, 2019 (SCI-Expanded)
- XLII. **Spinal Subarachnoid Hemorrhage Induced Intractable Miotic Pupil. A Reminder of Ciliospinal Sympathetic Center Ischemia Based Miosis: An Experimental Study.**
Aydın M. D., KANAT A., YOLAS C., SOYALP C., ONEN M., YILMAZ I., KARAAVCI N. Ç., CALIK M., BAYKAL O., RAMAZANOĞLU L.
Turkish neurosurgery, vol.29, pp.434-439, 2019 (SCI-Expanded)
- XLIII. **New determinants for casual peripheral mechanism of neurogenic lung edema in subarachnoid hemorrhage due to ischemic degeneration of vagal nerve, kidney and lung circuitry. Experimental study**
Soyalp C., Kocak M. N., Ahiskalioglu A., Aksoy M., Atalay C., Aydın M. D., Cakir M., Calikoglu C., Ozmen S.

ACTA CIRURGICA BRASILEIRA, vol.34, no.3, 2019 (SCI-Expanded)

- XLIV. **Understanding of Dry Eye in Subarachnoid Hemorrhage: An Experimental Study on the Role of Facial Nerve Ischemia.**
TANRIVERDI O., Aydın M. D., ONEN M., YILMAZ I., KILIC M., AYDIN N., DUMAN A., OZMEN S.
Turkish neurosurgery, vol.29, pp.362-368, 2019 (SCI-Expanded)
- XLV. **A new described mechanisms of intestinal glandular atrophy induced by vagal nerve/Auerbach network degeneration following subarachnoid hemorrhage: The first experimental study**
Cakir M., AHISKALIOĞLU A., KARADENİZ E., AYDIN M. D., MALÇOK Ü. A., Soyalp C., ÇALIKOĞLU Ç., ŞENGÜL G., ŞİPAL S., Yayik A. M.
JOURNAL OF CLINICAL NEUROSCIENCE, vol.59, pp.305-309, 2019 (SCI-Expanded)
- XLVI. **Unpublished Neuropathologic Mechanism Behind the Muscle Weakness/Paralysis and Gait Disturbances Induced by Sciatic Nerve Degeneration After Spinal Subarachnoid Hemorrhage: An Experimental Study.**
KILIC M., Aydın M. D., DEMIRCI E., KILIC B., YILMAZ I., TANRIVERDI O., KANAT A.
World neurosurgery, vol.119, 2018 (SCI-Expanded)
- XLVII. **The sooth beneath the taste roseas in the urethra and first description of neuro-morpho-chemical mechanism of penile erectile posture in males: an experimental study.**
Aydın M. D., AYDIN N., KANAT A., AKCA N., ARDIC G., YOLAS C., ALTINKAYNAK K., CALIK M.
The International journal of neuroscience, vol.128, pp.663-669, 2018 (SCI-Expanded)
- XLVIII. **Reconsideration of Neurogenic Pulmonary Edema as Source of Metastatic Cerebral Abscess Following Subarachnoid Hemorrhages: A Preliminary Study.**
GÖKYAR A., Aydın M. D., OZMEN S., DEMIRCI E., MARANGOZ A., KURUOĞLU E., ÇOKLUK C.
World neurosurgery, vol.115, 2018 (SCI-Expanded)
- XLIX. **How Reliable Is Pupillary Evaluation Following Subarachnoid Hemorrhage? Effect of Oculomotor Nerve Degeneration Secondary to Posterior Communicating Artery Vasospasm: First Experimental Study.**
OZTURK C., OZDEMIR N., KANAT A., Aydın M. D., FINDIK H., AYDIN N., KABALAR M., KAZDAL H., YOLAS C., BAYKAL O., et al.
Journal of neurological surgery. Part A, Central European neurosurgery, vol.79, pp.302-308, 2018 (SCI-Expanded)
- L. **A New Technique in Surgical Management of the Giant Cerebral Hydatid Cysts**
Aydın M. D., Karaavcı N. Ç., Akyuz M. E., Sahın M. H., Zeynal M., Kanat A., Altınors M.
JOURNAL OF CRANIOFACIAL SURGERY, vol.29, no.3, pp.778-782, 2018 (SCI-Expanded)
- LI. **Uncovering the Forgotten Effect of Superior Cervical Ganglia on Pupil Diameter in Subarachnoid Hemorrhage: an Experimental Study**
Onen M. R., Yilmaz I., Ramazanoglu L., AYDIN M. D., KELEŞ S., BAYKAL O., Aydın N., GÜNDOĞDU C.
TURKISH NEUROSURGERY, vol.28, no.1, pp.48-55, 2018 (SCI-Expanded)
- LII. **Rationalization of the Irrational Neuropathologic Basis of Hypothyroidism-Olfaction Disorders Paradox: Experimental Study.**
AYDIN N., RAMAZANOGLU L., ONEN M., YILMAZ I., Aydın M. D., ALTINKAYNAK K., CALIK M., KANAT A.
World neurosurgery, vol.107, pp.400-408, 2017 (SCI-Expanded)
- LIII. **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.**
Aydın M. D., KANAT A., AYDIN N., KANTARCI A., AYVAZ M., RAKICI H., YOLAS C., KEPOGLU U., DEMIRCI E.
World neurosurgery, vol.106, pp.570-577, 2017 (SCI-Expanded)
- LIV. **A New Determinant of Poor Outcome After Spontaneous Subarachnoid Hemorrhage: Blood pH and the Disruption of Glossopharyngeal Nerve-Carotid Body Network: First Experimental Study.**
KANAT A., Aydın M. D., BAYRAM E., KAZDAL H., AYDIN N., OMEROGU M. A., ALTINKAYNAK K., KABALAR M., YOLAS C., OZTURK C., et al.
World neurosurgery, vol.104, pp.330-338, 2017 (SCI-Expanded)
- LV. **Coronary fat embolism following subarachnoid hemorrhage: an experimental study**

BAYRAM E., Atalay C., ALTAŞ E., KOZA Y., KABALAR E., AÇIKEL M., AYDIN M. D.

CARDIOVASCULAR PATHOLOGY, vol.28, pp.31-35, 2017 (SCI-Expanded)

- LVI. **Inverse Association Between Basilar Artery Volume and Neuron Density in the Stellate Ganglion Following Bilateral Common Carotid Artery Ligation: An Experimental Study.**
YILMAZ I., ESEGLU M., ONEN M., TANRIVERDI O., KILIC M., YILMAZ A., MUSLUMAN A., Aydin M. D., GUNDOGDU C.
World neurosurgery, vol.100, pp.138-143, 2017 (SCI-Expanded)
- LVII. **Effect of stellate ganglion ischaemia on vertebral artery remodelling after bilateral common carotid artery ligation: an experimental study**
YILMAZ A., TANRIVERDI O., YILMAZ I., URGUN K., MÜSLÜMAN A. M., ÇALIK M., AYDIN M. D.
INTERNATIONAL JOURNAL OF CLINICAL AND EXPERIMENTAL MEDICINE, vol.10, no.11, pp.15622-15631, 2017 (SCI-Expanded)
- LVIII. **Predictive Role of External Carotid Artery Vasospasm on Cerebral Ischemia After Subarachnoid Hemorrhage: Experimental Study.**
OZDEMIR N., Aydin M. D., YOLAS C., KANAT A., LEVENT A., GUNDOGDU C., AYDIN N.
Turkish neurosurgery, vol.27, pp.874-883, 2017 (SCI-Expanded)
- LIX. **An experimental study of the neurophysical mechanisms of photophobia induced by subarachnoid hemorrhage.**
AYDIN N., KOTAN D., KELES S., ONDAS O., Aydin M. D., BAYKAL O., GUNDOGDU B.
Neuroscience letters, vol.630, pp.93-100, 2016 (SCI-Expanded)
- LX. **Rational Roots of Sympathetic Overactivity by Neurogenic Pulmonary Edema Modeling Arising from Sympathico-Vagal Imbalance in Subarachnoid Hemorrhage: An Experimental Study.**
ONEN M., YILMAZ I., RAMAZANOGLU L., TANRIVERDI O., Aydin M. D., KANAT A., YOLAS C., SIPAL S.
World neurosurgery, vol.92, pp.463-470, 2016 (SCI-Expanded)
- LXI. **Predeterminative role of early choroid plexus ageing on presenil neuronal atrophy in an animal model: a preliminary histopathological study**
Aydin N., Kotan D., Aydin M. D., Ozdemir G., Keles P., Kanat A., Yolas C., Gundogdu C.
EUROPEAN JOURNAL OF NEUROLOGY, vol.23, pp.483, 2016 (SCI-Expanded)
- LXII. **Hazardous effects of non-natural life on visual pathways: a biophysical experimental study**
Aydin A., Aydin A., Aydin N., Aydin M. D., Kotan D., Gursan N.
EUROPEAN JOURNAL OF NEUROLOGY, vol.23, pp.861, 2016 (SCI-Expanded)
- LXIII. **Uncovering a New Cause of Obstructive Hydrocephalus Following Subarachnoid Hemorrhage: Choroidal Artery Vasospasm-Related Ependymal Cell Degeneration and Aqueductal Stenosis-First Experimental Study.**
YOLAS C., OZDEMIR N., KANAT A., Aydin M. D., KELES P., KEPOGLU U., AYDIN N., GUNDOGDU C.
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- AYDIN M. D., Project Supported by Higher Education Institutions, Ameliyat Sonrası Beyinde Oluşan Boşluğa Konumlandırılan Basınç Ayarlı Balon Aparatı, 2019 - 2023
- AYDIN M. D., Project Supported by Higher Education Institutions, DADALON İSİMLİ CERRAHİ TEKNİK ARAÇ, 2017 - 2021
- AYDIN M. D., Project Supported by Higher Education Institutions, STEREOTAKTİK CERRAHİ VE FONKSİYONEL NÖROŞİRÜRJİ, 2012 - 2014

Metrics

- Publication: 210
Citation (WoS): 1298
Citation (Scopus): 1476
H-Index (WoS): 21
H-Index (Scopus): 22

Awards

- AYDIN M. D., DADALON: In recognition of Excellent and Creative Efforts to Invent Pressure Regulating Ballon Device

Placed in The Cavity Formed in The Brain After Surgery, TEKNOFEST 2019, September 2019

AYDIN M. D., Türk Nöroşirurji Derneği Pro. Dr. Nurcan Özdamar Nörovasküler Alanda En İyi Bilimsel Araştırma Ödülü, Türk Nöroşirurji Derneği, April 2018

AYDIN M. D., Türk Nöroşirurji Derneği Bilimsel Araştırma Ödülü, Türk Nöroşirurji Derneği, April 2018

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AYDIN M. D., TÜRK NÖROŞİRÜRJİ DERNEĞİ BİLİMSEL ARAŞTIRMA ÖDÜLÜ, TÜRK NÖROŞİRÜRJİ DERNEĞİ, June 2002

Non Academic Experience

Neurosurgery-Neuroscience Departments-Emory University USA

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