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Personal Information

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Education Information

Expertise In Medicine, Atatürk Üniversitesi, 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 Atlanta 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, Atatürk Üniversitesi, Tıp Fakültesi, Nöroşirürji, 2011 - Continues

Professional Experience

Head of Department, Atatürk Üniversitesi, 2017 - 2017

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

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Olfactory bulbectomy and raphe nucleus relationship: a new vision for well-known depression model.**
OZCAN H., AYDIN N., Aydin M. D. , ORAL E., GUNDOĞDU C., SIPAL S., HALICI Z.
Nordic journal of psychiatry, pp.1-7, 2019 (Journal Indexed in SCI)
- **Effect of Vasa Vasorum on Basilar Artery Vasospasm Following Subarachnoid Hemorrhage.**
OZONER B., ÇAKIR T., KAYACI S., Aydin M. D. , AYDIN S., DEMIRCI E.
World neurosurgery, vol.131, 2019 (Journal Indexed in SCI)
- **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., Aydin M. D. , HACIMUFTUOĞLU A.
Journal of investigative surgery : the official journal of the Academy of Surgical Research, vol.32, pp.624-631, 2019 (Journal Indexed in SCI)
- **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, pp.430-440, 2019 (Journal Indexed in SCI)
- **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., YİĞİTER M., Bedii S.
The International journal of neuroscience, vol.129, pp.1076-1084, 2019 (Journal Indexed in SCI)
- **Relationship between subarachnoid and central canal hemorrhage and spasticity: A first experimental study.**
KAYACI S., Aydin M. D. , OZONER B., ÇAKIR T., BAS O., SIPAL S.
The journal of spinal cord medicine, pp.1-9, 2019 (Journal Indexed in SCI)
- **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, pp.2171-2173, 2019 (Journal Indexed in SCI Expanded)
- **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 (Journal Indexed in SCI)
- **First emerging objective experimental evidence of hearing impairment following subarachnoid haemorrhage; Felix culpa, phonophobia, and elucidation of the role of trigeminal ganglion.**
CELİKER M., KANAT A., Aydin M. D. , OZDEMİR D., AYDIN N., YOLAS C., CALIK M., PEKER H.
The International journal of neuroscience, vol.129, pp.794-800, 2019 (Journal Indexed in SCI)
- **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. , TAGHIZADEHGHALEHJOUGHIA., YİĞİTER M., ŞİPAL S., GÜNDOĞDU B.
ASIAN JOURNAL OF SURGERY, vol.42, pp.797-804, 2019 (Journal Indexed in SCI)
- **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., Aydin M. D. , AHISKALIOĞLU A., DEMIRCI T., ÖZLÜ C., KANAT A., AYDIN N.
Neuropathology : official journal of the Japanese Society of Neuropathology, vol.39, pp.259-267, 2019 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)

- **Brachial Artery Vasospasm Caused by Cervical Dorsal Root Ganglion Degeneration After Subarachnoid Hemorrhage: An Experimental Study.**
 KAYACI S., CAKIR T., Aydın M. D. , KANAT A., OMEROGU M. A. , LEVENT A., KANTARCI A., DIYARBAKIRLI S., DEMIRCI E.
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- **A New Neuropathologic Mechanism of Blood pH Irregularities After Neck Trauma: Importance of Carotid Body-Glossopharyngeal Nerve Network Degeneration.**
 CAKIR T., KAYACI S., Aydın M. D. , OZONER B., ÇALIK İ., ALTINKAYNAK K.
 World neurosurgery, vol.125, 2019 (Journal Indexed in SCI)
- **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., ESEOGLU M., GUNDOGDU B.
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- **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, pp.56-61, 2019 (Journal Indexed in SCI)
- **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., RAMAZANOGLU L.
 Turkish neurosurgery, vol.29, pp.434-439, 2019 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **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., Yayık A. M.
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- **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.
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- **Reconsideration of Neurogenic Pulmonary Edema as Source of Metastatic Cerebral Abscess Following Subarachnoid Hemorrhages: A Preliminary Study.**
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 World neurosurgery, vol.115, 2018 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **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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- **A New Technique in Surgical Management of the Giant Cerebral Hydatid Cysts.**
 Aydın M. D. , KARAAVCI N. Ç. , AKYUZ M., SAHIN M. H. , ZEYNAL M., KANAT A., ALTINORS M.
 The Journal of craniofacial surgery, vol.29, pp.778-782, 2018 (Journal Indexed in SCI Expanded)

- 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., Aydin N., GÜNDOĞDU C.
TURKISH NEUROSURGERY, vol.28, pp.48-55, 2018 (Journal Indexed in SCI)
- Rationalization of the Irrational Neuropathologic Basis of Hypothyroidism-Olfaction Disorders Paradox: Experimental Study.**
AYDIN N., RAMAZANOGLU L., ONEN M., YILMAZ I., Aydin M. D. , ALTINKAYNAK K., CALIK M., KANAT A.
World neurosurgery, vol.107, pp.400-408, 2017 (Journal Indexed in SCI)
- 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.**
Aydin 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 (Journal Indexed in SCI)
- 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., Aydin 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 (Journal Indexed in SCI)
- 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.
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- Predictive Role of External Carotid Artery Vasospasm on Cerebral Ischemia After Subarachnoid Hemorrhage: Experimental Study.**
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- Effect of stellate ganglion ischaemia on vertebral artery remodelling after bilateral common carotid artery ligation: an experimental study**
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- An experimental study of the neurophysical mechanisms of photophobia induced by subarachnoid hemorrhage.**
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- Rational Roots of Sympathetic Overactivity by Neurogenic Pulmonary Edema Modeling Arising from Sympathico-Vagal Imbalance in Subarachnoid Hemorrhage: An Experimental Study.**
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- 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.
World neurosurgery, vol.90, pp.484-491, 2016 (Journal Indexed in SCI)
- The Important Liaison Between Onuf Nucleus-Pudendal Nerve Ganglia Complex Degeneration and Urinary Retention in Spinal Subarachnoid Hemorrhage: An Experimental Study.**
YOLAS C., KANAT A., Aydin M. D. , OZTURK C., KABALAR E., AKCA N., EREN H., GUNDOGDU C., KOTAN D., AYDIN N.
World neurosurgery, vol.89, pp.208-14, 2016 (Journal Indexed in SCI)
- Unraveling of the Effect of Nodose Ganglion Degeneration on the Coronary Artery Vasospasm After Subarachnoid Hemorrhage: An Experimental Study**
Yolas C., KANAT A., AYDIN M. D. , ALTAŞ E., Kanat I. F. , KAZDAL H., Duman A., GÜNDOĞDU B., Gursan N.
WORLD NEUROSURGERY, vol.86, pp.79-87, 2016 (Journal Indexed in SCI)

- Parallel development of choroid plexus degeneration and meningeal inflammation in subarachnoid hemorrhage - experimental study.**
 KOTAN D., Aydin M. D. , GUNDOGDU C., AYGUL R., AYDIN N., ULVI H.
 Advances in clinical and experimental medicine : official organ Wroclaw Medical University, vol.23, pp.699-704, 2014 (Journal Indexed in SCI)
- Changes in number of water-filled vesicles of choroid plexus in early and late phase of experimental rabbit subarachnoid hemorrhage model: the role of petrous ganglion of glossopharyngeal nerve.**
 Aydin M. D. , KANAT A., TURKMENOGLU O., YOLAS C., GUNDOGDU C., AYDIN N.
 Acta neurochirurgica, vol.156, pp.1311-7, 2014 (Journal Indexed in SCI)
- The role of sympathectomy on the regulation of basilar artery volume changes in stenocclusive carotid artery modeling after bilateral common carotid artery ligation: an animal model.**
 ESEOGLU M., YILMAZ I., KARALAR M., Aydin M. D. , KAYACI S., GUNDOGDU C., GUNALDI O., ONEN M.
 Acta neurochirurgica, vol.156, pp.963-9, 2014 (Journal Indexed in SCI)
- Important casual association of carotid body and glossopharyngeal nerve and lung following experimental subarachnoid hemorrhage in rabbits. First report.**
 YOLAS C., KANAT A., Aydin M. D. , TURKMENOGLU O., GUNDOGDU C.
 Journal of the neurological sciences, vol.336, pp.220-6, 2014 (Journal Indexed in SCI)
- Taste bud-like structures in penile tissues and a predictive neural mechanism of male orgasm: A preliminary hypothesis based on histological evidence**
 AYDIN M. D. , AYDIN N., Dane Ş., Gündoğdu C., Gürsan N., Akçay F., Serarslan Y.
 Neurology Psychiatry and Brain Research, vol.20, pp.55-62, 2014 (Journal Indexed in SCI Expanded)
- Effects of ischemic phrenic nerve root ganglion injury on respiratory disturbances in subarachnoid hemorrhage: an experimental study.**
 ULVI H., DEMIR R., AYGUL R., KOTAN D., CALIK M., Aydin M. D.
 Archives of medical science : AMS, vol.9, pp.1125-31, 2013 (Journal Indexed in SCI)
- Toward changing of the pathophysiologic basis of acute hydrocephalus after subarachnoid hemorrhage: a preliminary experimental study.**
 KANAT A., TURKMENOGLU O., Aydin M. D. , YOLAS C., AYDIN N., GURSAN N., TUMKAYA L., DEMIR R.
 World neurosurgery, vol.80, pp.390-5, 2013 (Journal Indexed in SCI)
- Role of the trigeminal system on posterior communicating artery remodelization after bilateral common carotid artery ligation.**
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- How olfaction disorders can cause depression? The role of habenular degeneration**
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- Vagal Nerve Degeneration and Pulmonary Artery Vasospasm After Subarachnoid Hemorrhage**
 AYDIN M. D. , Ungoren M. K. , İzci Y., AÇIKEL M., GÜNDOĞDU C., GÜRSAN N.
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- Chronic treatment of haloperidol induces pathological changes in striatal neurons of guinea pigs: a light and electron microscopical study.**
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- The Relationship Between the Neuron Density of the Trigeminal Ganglion and the Posterior Communicating Artery Vasospasm in Subarachnoid Hemorrhage: An Experimental Study**
 AYDIN M. D. , Serarslan Y., Gundogdu C., AYDIN N., AYGÜL R., Kotan D., Ulvi H., ONDER A., KANAT A.
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- Role of neuron density of the stellate ganglion on regulation of the basilar artery volume in subarachnoid hemorrhage: An experimental study.**
 KAYACI S., KANAT A., Aydin M. D. , MUSLUMAN A., ESEOGLU M., KARALAR M., GUNDOGDU C.
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Aydin M. D. , KANAT A., YILMAZ A., ÇAKIR M., EMET M., ÇAKIR Z., ASLAN S., ALTAS S., GUNDOĞDU C.
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- **Post-traumatic glioblastoma multiforme: a case report.**

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- **Effects of haloperidol on striatal neurons: relation to neuronal loss (a stereological study).**

ALTUNKAYNAK B., OZBEK E., AYDIN N., Aydin M. D. , ALTUNKAYNAK M., VURALER O., UNAL B.

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- **The effects of impulse noise on the epithelial cells of the choroid plexus Ses impulslarinin koroid pleksus epitel hücreleri üzerine etkisi**

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- **The effect of choroidal artery vasospasm on choroid plexus injury in subarachnoid hemorrhage: experimental study.**

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- **Role of degenerated neuron density of dorsal root ganglion on anterior spinal artery vasospasm in subarachnoid hemorrhage: experimental study.**

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- **The Role of Trigeminal Ganglion Neuron Density in the Prevention of Subarachnoid Hemorrhage-induced Basilar Artery Vasospasm: An Experimental Study**

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- **Antihypertensive role of glossopharyngeal nerve stimulation by nifedipine using as calcium channel blocking agent in hypertension: An experimental study**

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- **Destructive effect of monopolar electrocautery knife usage on femoral artery endothelium during spine surgery: experimental study.**

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- **Number of axons in the right and left optic nerves of right-pawed and left-pawed rats: a stereologic study.**

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- **Acute median nerve palsy due to hemorrhaged schwannoma: case report.**

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