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Education Information

Doctorate, Istanbul University, Istanbul Medical Faculty, Fizyoloji, Turkey 2015 - Continues

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Human Physiology, Neurophysiology

Academic Titles / Tasks

Research Assistant, Istanbul University, Istanbul Medical Faculty, Basic Medical Sciences, 2013 - Continues

Research Assistant, Mugla Sitki Kocman University, School Of Medicine, Temel Tıp Bilimleri, 2013 - 2013

Academic and Administrative Experience

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Acute effect of transcranial direct current stimulation on photoparoxysmal response.**
Yılmaz Erol T., İlgezdi Kaya İ., Ur Özçelik E., Aksu S., Şirin N. G., Bebek N., Kurt A., Karamürsel S., Baykan B.
Epilepsy research, vol.201, pp.107320, 2024 (SCI-Expanded)
- II. **Effect of Transcranial Direct Current Stimulation on Pain and Physical Functions in Individuals with Lumbar Spinal Stenosis: A Double-Blind Randomized Sham-controlled Study**
Is E. E., Aksu S., Karamursel S., Ketenci A., Sindel D.
ACTA PHYSIOLOGICA, pp.63, 2023 (SCI-Expanded)
- III. **Working memory improvement after transcranial direct current stimulation paired with working memory training in diabetic peripheral neuropathy**
Aksu S., Hasırcı Bayır B. R., Sayman C., Soyata A. Z., Boz G., Karamürsel S.
Applied Neuropsychology:Adult, 2023 (SCI-Expanded)
- IV. **Evidence for modulation of planning and working memory capacities by transcranial direct current stimulation in a sample of adults with attention deficit hyperactivity disorder**
Barham H., Buyukgok D., Aksu S., Soyata A. Z., Bulut G., Eskicioglu G., Kulaksizoglu I. B.
NEUROSCIENCE LETTERS, vol.790, 2022 (SCI-Expanded)
- V. **Transcranial direct current stimulation does not improve clinical and neurophysiological outcomes in panic disorder: A randomized sham-controlled trial**

AKSU S., Soyata A. Z., Mursalova Z., Eskicioglu G., Tükel R.

PSYCHIATRY AND CLINICAL NEUROSCIENCES, vol.76, no.8, pp.384-392, 2022 (SCI-Expanded)

- VI. **Effects of Transcranial Direct Current Stimulation on CGRP and PACAP-38 Levels in Menstrual Migraine**
Bayir B. H., Aksu S., Gezezen H., Karaaslan Z., Yuceer H., Sirin T. C., Kucukali C., Kurt A., Karamursel S., Baykan B.
EUROPEAN JOURNAL OF NEUROLOGY, vol.29, pp.409, 2022 (SCI-Expanded)
- VII. **Does transcranial direct current stimulation enhance cognitive performance in Parkinson's disease mild cognitive impairment? An event-related potentials and neuropsychological assessment study**
Aksu S., Uslu A., Iscen P., Tulay E. E., Barham H., Soyata A. Z., Demirtaş Tatlıdede A., Yildiz G. B., Bilgic B., Hanagasi H., et al.
NEUROLOGICAL SCIENCES, vol.43, no.6, pp.4029-4044, 2022 (SCI-Expanded)
- VIII. **Is Allodynia a Determinant Factor in the Effectiveness of Transcranial Direct Current Stimulation in the Prophylaxis of Migraine?**
Cerrahoglu Sirin T., AKSU S., Hasirci Bayir B. R., ULUKAN Ç., Karamursel S., Kurt A., BAYKAL B.
NEUROMODULATION, vol.24, no.5, pp.899-909, 2021 (SCI-Expanded)
- IX. **Effects of Hyperbaric Nitrogen Narcosis on Cognitive Performance in Recreational air SCUBA Divers: An Auditory Event-related Brain Potentials Study.**
Karakaya H., Aksu S., Egi S. M., Aydin S., Uslu A.
Annals of work exposures and health, vol.65, pp.505-515, 2021 (SCI-Expanded)
- X. **Effects of Transcranial Direct Current Stimulation Paired With Cognitive Training on Functional Connectivity of the Working Memory Network in Older Adults**
Nissim N. R., O'Shea A., Indahlastari A., Kraft J. N., von Mering O., Aksu S., Porges E., Cohen R., Woods A. J.
FRONTIERS IN AGING NEUROSCIENCE, vol.11, 2019 (SCI-Expanded)
- XI. **Evaluation of Neurotoxicity of Multiple Anesthesia in Children Using Visual Evoked Potentials.**
Oba S., Isil C. T., Turk H. S., Karamursel S., Aksu S., Kaba M., Kilic L., Dokucu A. I.
Sisli Etfal Hastanesi tip bulteni, vol.53, no.3, pp.284-289, 2019 (SCI-Expanded)
- XII. **Efficacy and mechanisms of transcranial electrical stimulation in headache disorders**
Sirin T. C., Aksu S., Kurt A., Karamursel S., Baykan B.
NEUROLOGICAL SCIENCES AND NEUROPHYSIOLOGY, vol.36, no.2, pp.57-68, 2019 (SCI-Expanded)
- XIII. **Effect of transcranial direct current stimulation on decision making and cognitive flexibility in gambling disorder.**
Soyata A. Z., Aksu S., Woods A. J., Iscen P., Sacar K. T., Karamursel S.
European archives of psychiatry and clinical neuroscience, vol.269, no.3, pp.275-284, 2019 (SCI-Expanded)
- XIV. **Non-invasive Brain Stimulation: Probing Intracortical Circuits and Improving Cognition in the Aging Brain.**
GOMES-OSMAN J., INDAHLASTARI A., FRIED P., CABRAL D., RICE J., NISSIM N., Aksu S., MCLAREN M., WOODS A.
Frontiers in aging neuroscience, vol.10, pp.177, 2018 (SCI-Expanded)
- XV. **The effect of transcranial direct current stimulation on seizure frequency of patients with mesial temporal lobe epilepsy with hippocampal sclerosis**
Tekturk P., Erdogan E. T., Kurt A., Vanli-yavuz E. N., Ekizoglu E., Kocagoncu E., Kucuk Z., Aksu S., Bebek N., Yapici Z., et al.
CLINICAL NEUROLOGY AND NEUROSURGERY, vol.149, pp.27-32, 2016 (SCI-Expanded)
- XVI. **Transcranial direct current stimulation improves seizure control in patients with Rasmussen encephalitis**
Tekturk P., Erdogan E. T., Kurt A., Kocagoncu E., Kucuk Z., KINAY D., Yapici Z., Aksu S., Baykan B., Karamursel S.
EPILEPTIC DISORDERS, vol.18, no.1, pp.58-66, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **Elektroretinografi Ve Görsel Uyarılmış Potansiyel Ölçümlerinde Zenon Ve LED Işık Kaynaklarının**

Karşılaştırılması

AKSU S., KURT A., SOYATA A., Saçar K. T., Taşdelen S., KARAMÜRSEL S.

ANADOLU KLİNİĞİ TIP BİLİMLERİ DERGİSİ, vol.24, no.2, pp.78-86, 2019 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **İletim afazisinde transkraniyal doğru akım uyarım etkinliğinin görgül olarak sınanması**
Adıgüzel S., Şişman Bal S., Aksu S., Karamürsel S.
21. Ulusal Psikoloji Kongresi, İstanbul, Turkey, 13 - 16 October 2022, pp.199-200
- II. **Effects of Transcranial Direct Current Stimulation on CGRP and PACAP-38 Levels in Menstrual Migraine**
HASIRCI BAYIR B., AKSU S., GEZEĞEN H., KARAASLAN Z., YÜCEER KORKMAZ H., CERRAHOĞLU ŞİRİN T., KÜÇÜKALİ C. İ., KURT A., KARAMÜRSEL S., BAYKAL B.
8th Congress of the European-Academy-of-Neurology (EAN), Austria, 25 June 2022
- III. **Evaluation of the Efficacy of Transcranial Direct Current Stimulation in Menstrual Migraine Prophylaxis and its Association with CGRP and PACAP-38 Levels**
Hasırcı Bayır B., Aksu S., Gezeğen H., Karaaslan Z., Yüceer H., Cerrahoğlu Şirin T., Küçükali C. İ., Kurt A., Karamürsel S., Baykal B.
57. Ulusal Nöroloji Kongresi, Antalya, Turkey, 27 November - 01 December 2021, pp.5-6
- IV. **Hiperbarik Koşulda Nitrojen Narkozunun Kognitif Performansa Etkilerinin Olaya İlişkin Beyin Potansiyelleri ile İncelenmesi**
Karakaya H., Aksu S., Aydın S., Uslu A.
11. Ulusal Sualtı Hekimliği ve Hiperbarik Tıp Toplantısı (HİTAM), İstanbul, Turkey, 13 - 14 April 2018, pp.28-34
- V. **Hiperbarik Hava Ortamının P3 Yanıtı ve Davranış Performansı Üzerine Etkileri. Effects of hyperbaric air environment on the P3 response and behavioral performance**
Uslu A., Karakaya H., Ergen M., Aksu S., Aydın S.
Türk Fizyolojik Bilimler Derneği, 43. Ulusal Fizyoloji Kongresi (Uluslararası Katılımlı) Pamukkale Üniversitesi Kongre Merkezi, Denizli, Türkiye. Turkish Society of Physiological Sciences 43rd National Physiology Congress, 07 - 10 September 2017, Pamukkale University, Congress Center, Denizli (Turkey), Denizli, Turkey, 7 - 10 September 2017, vol.221, no.714, pp.104
- VI. **Transcranial direct current stimulation may enhance decision making in gambling disorder: A preliminary double-blind sham-controlled study**
AKSU S., Soyata A., İçsen P., İçellioğlu S., Saçar K. T., Aşçı G., Karamürsel S.
2nd International Brain Stimulation Conference, Barcelona, Spain, 5 - 08 March 2017, vol.10, no.2, pp.481
- VII. **Flash ERG and VEP – Comparison of Stimulation by LED and Xenon Lamp**
AKSU S., Kurt A., Erdoğan E. T., Taşdelen S., KARAMÜRSEL S.
15th European Congress of Clinical Neurophysiology, Brno, Czech Republic, 30 September - 03 October 2015, pp.1
- VIII. **Transcranial direct current stimulation for seizure control in patients with Lennox-Gastaut syndrome**
Tekturk P., Erdogan E. T., KURT A. R., Kucuk Z., AKSU S., Karamursel S., YAPICI Z., Baykan B.
Joint Congress of European Neurology, İstanbul, Turkey, 31 May - 03 June 2014, pp.226
- IX. **Transcranial direct current stimulation for seizure control in patients with Lennox-Gastaut Syndrome**
Tekturk P., Erdogan E. T., Kurt A., Kucuk Z., Aksu S., Karamursel S., Yapici Z., Baykan B.
Joint Congress of European Neurology, İstanbul, Turkey, 31 May - 03 June 2014, vol.261

Supported Projects

Baykal B., Hasırcı Bayır B. R., Küçükali C. İ., Gezezen H., Aksu S., Karamürsel S., TÜBİTAK Project, Menstrüel Migren Hastalarında Profilakside Transkraniyal Doğru Akım Stimülasyonunun Etkinliğinin ve CGRP Düzeyleri İle Bağlantısının Değerlendirilmesi, 2020 - 2021

Memberships / Tasks in Scientific Organizations

Türk Fizyolojik Bilimler Derneği, Member, 2017 - Continues

Scientific Refereeing

SCIENTIFIC REPORTS, Journal Indexed in SSCI, December 2020

Metrics

Publication: 26

Citation (WoS): 148

Citation (Scopus): 172

H-Index (WoS): 6

H-Index (Scopus): 7

Congress and Symposium Activities

2nd International Brain Stimulation Conference, Attendee, Barcelona, Spain, 2017

The American Clinical Neurophysiology Society (ACNS) 2015 Annual Meeting & Courses, Attendee, Texas, United States Of America, 2015

Ulusal Fizyoloji Kongresi, Attendee, Ankara, Turkey, 2013