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Research Areas

Medicine, Health Sciences, Internal Medicine Sciences, Radiodiagnostic

Academic Titles / Tasks

Professor, Bezmialem Vakıf University, Faculty Of Medicine, Department Of Internal Medicine, 2011 - Continues

Academic and Administrative Experience

Bezmialem Vakıf University, FACULTY OF MEDICINE, Dahili Tıp Bilimleri, 2015 - Continues

Vice Dean, Bezmialem Vakıf University, Faculty Of Medicine, Dahili Tıp Bilimleri, 2015 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Chiari Type 1 malformation: CSF flow dynamics and morphology in the posterior fossa and craniocervical junction and correlation of these findings with syrinx formation**
Yılmaz T. F., Toprak H., Sari L., Oz I. I., Kitis S., Kaya A., Alkan A.
Neurochirurgie, vol.68, no.6, pp.595-600, 2022 (SCI-Expanded)
- II. **A SURPRISE RESPONSE TO TRAMETINIB AND DABRAFENIB COMBINATION IN A HIGH GRADE GLIOMA**
ÇAKIR F. B., ÇELİK ATEŞ D., ÇOBAN G., ALKAN A., TEKÇE E., ÖZTANIR M. N.
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- III. **MRI evaluation of right heart functions in children with mild cystic fibrosis.**
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- IV. **Relationship of diffusion tensor imaging parameters with neurocognitive dysfunction in patients with Behcet's disease.**
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- V. **The value of adjacent vessel sign in malignant breast tumors.**
Çetinkaya E., Yıldız Ş., Otçu H., Sharifov R., Çelik Yabul F., Alkan A.
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- VI. **Diffusion Tensor Imaging Can Discriminate the Primary Cell Type of Intracranial Metastases for Patients with Lung Cancer.**
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- VII. **Cognitive and brain micro-structural correlates of alexithymia in essential tremor patients**
Tantik P., Otcu H., Sengul H., Corakci Z., Sengul Y., Alkan A.
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- VIII. **Evaluation of toxic effects of chemotherapy in lung malignancies on cerebral white matter using diffusion tensor imaging.**
Aydin S., Demir T., Turk H. M., Cesme D. H., Aliyev A., Ali Gultekin M., Fatih Yilmaz T., Alkan A.
Radiology and oncology, vol.56, no.2, pp.150-155, 2022 (SCI-Expanded)
- IX. **Dynamic Contrast-Enhanced MR Perfusion in Differentiation of Benign and Malignant Brain Lesions.**
Cetinkaya E., Aralasmak A., Atasoy B., Tokdemir S., Toprak H., Toprak A., Kurtcan S., Alkan A.
Current medical imaging, vol.18, no.10, pp.1099-1105, 2022 (SCI-Expanded)
- X. **Clinical and molecular findings in 6 Turkish cases with Krabbe disease.**
Aslanger A. D., Şengenċ E., Kölemen A. B., Demiral E., Alkan A., İřcan A., Yeřil G.
The Turkish journal of pediatrics, vol.64, no.1, pp.69-78, 2022 (SCI-Expanded)
- XI. **Diagnostic performance of apparent diffusion coefficient values for the differentiation of intrahepatic cholangiocarcinoma from gastrointestinal adenocarcinoma liver metastases.**
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- XII. **Relationship of white matter hyperintensities with clinical features of seizures in patients with epilepsy.**
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- XIII. **Apparent Diffusion Coefficient Values for Neuroendocrine Liver Metastases.**
Gultekin M. A., Turk H. M., Yurtsever İ., Cesme D. H., Seker M., Besiroglu M., Alkan A.
Academic radiology, vol.28, 2021 (SCI-Expanded)
- XIV. **Sleep disturbances in essential tremor: an investigation of associated brain microstructural changes using diffusion tensor imaging**
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- XV. **Effect of cerebral microhemorrhages on neurocognitive functions in patients with end-stage renal disease**
Atay M., Alkan A., Toprak H., Halac G., Erkok R.
ACTA RADIOLOGICA, vol.62, no.7, pp.909-915, 2021 (SCI-Expanded)
- XVI. **Importance of Thalamostriatal Pathway Associated With Neurocognitive Dysfunctions in Children With Neurofibromatosis Type 1: Diffusion Tensor Imaging Findings**
ÇEŐME D. H., Aydin S., ALKAN A., GÜLTEKİN M. A., PEKER A. A., Toprak M. F., Iscan A.
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- XVII. **Relationship with programmed cell death ligand 1 (PD-L1) and DTI features in brain metastases of non-small cell lung cancer; Preliminary study.**
Yilmaz T. F., Yurtsever İ., Turk H. M., Gultekin M. A., Besiroglu M., Cesme D. H., Shbair A. T. M., Alkan A.
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- XVIII. **Brain Diffusion Tensor Imaging Findings in Hashimoto's Thyroiditis**
Gultekin M. A., Cesme D. H., Karaman Ö., Yurtsever İ., Tasan E., Yilmaz T. F., Alkan A.
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- XIX. **Diffusion Tensor Imaging of Brain Metastases in Patients with Breast Cancer According to Molecular Subtypes.**
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Current medical imaging, vol.17, no.1, pp.120-128, 2021 (SCI-Expanded)
- XX. **Effect of Quantitative and Semi-quantitative Elastography Methods for the Management of**

Borderline Lesions on Ultrasonography

Aksoy D. Ö., Yildiz S., Atasoy B., Alkan A., Kandemirli S. G., Cingöz M.

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- XXI. **Brain microstructural changes and cognitive function in non-demented essential tremor patients: a diffusion tensor imaging study**
Sengul Y., Otcu H., Corakci Z., Sengul H., Dowd H., Ustun I., Alkan A., Louis E.
INTERNATIONAL JOURNAL OF NEUROSCIENCE, vol.132, no.2, pp.154-164, 2021 (SCI-Expanded)
- XXII. **A Case of Neurosarcoidosis Mimicking Brain Tumor**
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- XXIII. **Impaired integrity of commissural and association fibers in essential tremor patients: Evidence from a diffusion tensor imaging study**
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- XXIV. **Importance of Pre-treatment Fractional Anisotropy Value in Predicting Volumetric Response in Patients with Meningioma Treated with Gamma Knife Radiosurgery**
Cesme D. H., Alkan A., Sari L., Yabul F., Temur H. O., Aykan M. E., Seyithanoglu M. H., Hatiboglu M. A.
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- XXV. **The Effectiveness of Diffusion Tensor Imaging in Determining Radiological Response after Radiosurgery in Patients with Vestibular Schwannoma.**
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- XXVI. **The Utility and Efficiency of Diffusion Tensor Imaging Values to Determine Epidermal Growth Factor Receptor Gene Mutation Status in Brain Metastasis from Lung Adenocarcinoma; A Preliminary Study.**
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- XXVII. **Unusual Cerebral Involvement of Rheumatoid Arthritis Mimicking a Tumor**
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- XXVIII. **Normal Pressure Hydrocephalus: Clinical Symptoms, Cerebrospinal Fluid Flow Metrics and White Matter Changes**
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- XXIX. **Magnetic Resonance Spectroscopy Features of the Visual Pathways in Patients with Glaucoma.**
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Clinical neuroradiology, vol.29, no.4, pp.615-621, 2019 (SCI-Expanded)
- XXX. **Sleep Disturbances in Essential Tremor: A pilot investigation of the related brain microstructural changes using diffusion tensor imaging**
Alkan A.
Movement Disorders, no.34, pp.829, 2019 (SCI-Expanded)
- XXXI. **Neuroimaging depression and anxiety in essential tremor: A diffusion tensor imaging study.**
Sengul Y., Otcu H., Ustun I., Sengul H., Cersonsky T., Alkan A., Louis E.
Clinical imaging, vol.58, pp.96-104, 2019 (SCI-Expanded)
- XXXII. **MRI findings and utility of DWI in the evaluation of solid parathyroid lesions**
Yildiz S., Aralasmak A., YETIS H., KILICARSLAN R., Sharifov R., Alkan A., Toprak H.
RADIOLOGIA MEDICA, vol.124, no.5, pp.360-367, 2019 (SCI-Expanded)
- XXXIII. **Evaluation of CSF flow metrics in patients with communicating hydrocephalus and idiopathic intracranial hypertension**
Yilmaz T. F., Aralasmak A., Toprak H., MEHDI E., KOCAMAN G., Kurtcan S., Kaya M. O., Alkan A.
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- XXXIV. **Assessment of Auditory Pathways Using Diffusion Tensor Imaging in Patients with**

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- XXXV. **Neurometabolic Diseases in Children: Magnetic Resonance Imaging and Magnetic Resonance Spectroscopy Features**
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- XXXVI. **Correlation Between DTI Findings and Volume of Corpus Callosum in Children with Autism**
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- XXXVII. **Evaluation of Auditory Pathways Using DTI in Patients Treated with Gamma Knife Radiosurgery for Acoustic Neuroma: A Preliminary Report**
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- XXXVIII. **MRI and MR Spectroscopy Features of Heat Stroke: A Case Report**
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- XXXIX. **Diffusion tensor imaging findings of the brainstem in subjects with tonsillar ectopia**
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- XL. **Diffusion Tensor Imaging Parameters in Children with Acute Hyperammonemic Encephalopathy due to Urea Cycle Enzyme Defects and Organic Acidemia**
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- XLI. **Cranio-cervical Dissections: Radiologic Findings, Pitfalls, Mimicking Diseases: A Pictorial Review**
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- XLII. **Comparison of Delay-Sensitive and Delay-Insensitive Computed Tomography Perfusion Methods in Acute Ischemic Stroke and Their Variability According to Location of Critical Vascular Stenosis**
KARAALIOGLU B., Aralasmak A., Toprak H., Kolukisa M., Uysal O., Yildiz S., Ozdemir H., Alkan A.
JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY, vol.42, no.1, pp.76-84, 2018 (SCI-Expanded)
- XLIII. **The Contribution of DTI in Determining the Relationship of Epilepsy and Brain Lesions in Children with Tuberous Sclerosis**
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- XLIV. **Neuroimaging Features of Acquired Metabolic and Toxic Encephalopathies**
EDİZ S. S., Kurtcan S., Alkan A., Aydin S., Tüzün U., Toprak H., Aralasmak A.
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- XLV. **T2 Signal Intensity of the Trigeminal Nerve: A New Diagnostic Criteria for Trigeminal Neuralgia?**
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- XLVI. **Comparison of TOF MRA, Contrast-Enhanced MRA and Subtracted CTA from CTP in Residue Evaluation of Treated Intracranial Aneurysms.**
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- XLVII. **MRI and MRS findings in fucosidosis; a rare lysosomal storage disease**
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- XLVIII. **Relationships of DTI findings with neurocognitive dysfunction in children with Type 1 diabetes mellitus**
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- XLIX. **Cavernous Sinus: A Comprehensive Review of its Anatomy, Pathologic Conditions, and Imaging Features**
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- L. **Microstructural effects of Ramadan fasting on the brain: a diffusion tensor imaging study**
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- LI. **Reversible Corpus Callosum Splenial Lesion Due to Steroid Therapy**
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- LII. **MRS features during encephalopathic crisis period in 11 years old case with GA-1**
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- LIII. **Hyperperfusion in Carotid Stenting Patients**
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- LIV. **Susceptibility Weighted Imaging Features of Nonketotic Hyperglycemia: Unusual Cause of Hemichorea-Hemiballismus**
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- LV. **MRI Findings in Encephalopathy with Primary Carnitine Deficiency: A Case Report**
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- LVI. **Graves' ophthalmopathy: the role of diffusion-weighted imaging in detecting involvement of extraocular muscles in early period of disease**
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- LVII. **Diffusion MRI features of acute encephalopathy due to stopping steroid medication abruptly in congenital adrenal hyperplasia**
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- LVIII. **Magnetic Resonance Spectroscopy Features of Heschl's Gyri in Patients with Unilateral Acoustic Neuroma: Preliminary Study**
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- LIX. **The effectiveness of Power Doppler vocal fremitus imaging in the diagnosis of breast hamartoma**
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- LX. **The effect of local simvastatin application on critical size defects in the diabetic rats**
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- LXII. **Microstructural brain changes in acromegaly: quantitative analysis by diffusion tensor imaging**
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- LXIII. **Therapeutic Plasma Exchange for Malignant Refractory Status Epilepticus: A Case Report**
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- PEDIATRIC NEUROLOGY, vol.50, no.4, pp.407-410, 2014 (SCI-Expanded)
- LXIV. **The Effect of Obesity on Brain Diffusion Alteration in Patients with Obstructive Sleep Apnea**
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- LXV. **MRI findings in crural compartment syndrome: A case series**
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- LXVI. **MR spectroscopy features of brain in patients with mild and severe obstructive sleep apnea syndrome**
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- LXVII. **Severe Posterior Reversible Encephalopathy in Pheochromocytoma: Importance of Susceptibility-Weighted MRI**
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- LXVIII. **An unusually mild presentation of megalencephalic leukoencephalopathy with subcortical cysts**
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- LXX. **CT Angiography Evaluation of Unusual Transorbital Penetrating Injury: A Toothbrush**
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- LXXIV. **Transient cytotoxic edema caused by hypoglycemia: Follow-up diffusion-weighted imaging features**
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- LXXV. **Evaluation of corpus geniculatum laterale and vitreous fluid by magnetic resonance spectroscopy in patients with glaucoma; a preliminary study**
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- LXXVI. **Effects of contrast material on the metabolite ratios in single-voxel MR Spectroscopy of intraaxial brain tumors**
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- LXXVIII. **Maple syrup urine disease: diffusion-weighted MRI findings during acute metabolic encephalopathic crisis**

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- LXXXIX. **Increased membrane turnover in the brain in cutaneous anthrax without central nervous system disorder: A magnetic resonance spectroscopy study**
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- XIII. **Femoroasetabuler Sıkışma Radyolojik Değerlendirme Direkt Grafi BT BT Artrografi MRG ve MR Artrografi**
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- I. **DIFFERENTIATION OF BRAIN METASTASES FROM BRAIN MRI WITH DEEP CNN**
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30. YIL ULUSLARARASI KATILIMLI TANISAL ve GİRİŞİMSSEL NÖRORADYOLOJİ, BAŞ-BOYUN RADYOLOJİSİ KONGRESİ, İstanbul, Turkey, 17 - 21 February 2021
- II. **Sleep Disturbances in Essential Tremor: A pilot investigation of the related brain microstructural changes using diffusion tensor imaging**
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ÜSTÜN İ., ŞENGÜL Y., OTCU H., ALKAN A.
14. Uludağ Nöroloji Günleri, Bursa, Turkey, 7 - 10 March 2019
- V. **Comparison of TOF MRA, Contrast-Enhanced MRA and Subtracted CTA from CTP in Residue Evaluation of Treated Intracranial Aneurysms**
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- VIII. **EVALUATION of CSF FLOW METRICS in PATIENTS with COMMUNICATING HYDROCEPHALUS and IDIOPATHIC INTRACRANIAL HYPERTENSION**
TOPRAK H., ARALAŞMAK A., Yılmaz T. F., Mehdi E., Kocaman G., KAYA M. O., ALKAN A.
ASNR 55th Annual Meeting and The Foundation of the ASNR Symposium 2017, California, United States Of America, 22 - 27 April 2017
- IX. **Malignite ile karışabilen agresif spinal hemanjiom**
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17. Ulusal Çocuk Nörolojisi Kongresi, İzmir, Turkey, 6 - 09 May 2015
- X. **Orucun beyin üzerindeki mikroyapısal etkisinin difüzyon tensör görüntüleme ile değerlendirilmesi**
BAKAN A. A., YILDIZ Ş., ALKAN A., YETİŞ H., KURTCAN S., İLHAN M. M.
35. Ulusal Radyoloji Kongresi (TÜRKRAD 2014), Turkey, 11 - 16 November 2014
- XI. **Baş boyun kitlelerinde MR perfüzyon bulguları**
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- XII. **MR perfusion findings in head and neck masses**
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- XIII. **Medial menisküsün ön çapraz bağa anormal insersiyonu Çift anterior çapraz bağ görünümü**
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XIV. Temporal kemik tutulumu gösteren rabdomyosarkom olgusu

HAVAN N., ALKAN A., TOPRAK H., YILDIZ Ş., ATAY M.

32. Ulusal Radyoloji Kongresi (TÜRKRAD 2011), Turkey, 19 - 21 May 2011

Memberships / Tasks in Scientific Organizations

TÜRK MANYETİK REZONANS DERNEĞİ, Vice President, 2021 - Continues, Turkey

Türk Manyetik Rezonans Derneği, Board Member, 2018 - 2021, Turkey

Türk Manyetik Rezonans Derneği, Vice President, 2014 - 2016

TMRD, Board Member, 2012 - 2014

Metrics

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H-Index (WoS): 20

H-Index (Scopus): 23

Congress and Symposium Activities

TMRD, Invited Speaker, Ankara, Turkey, 2017

TMRD, Invited Speaker, Ankara, Turkey, 2016

Awards

ALKAN A., Special Interest ('Evaluation of glutamate and other amino acid levels in glaucoma patient with MR-Spectroscopy: Preliminary study), American Society of Cataract and Refractive Surgery Meeting, 146, 9-14 April, Boston/MA, USA, 2010, April 2010

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