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Education Information

Post Doctorate of Medicine, Hacettepe University, Tıp Fakültesi (Türkçe), Dahili Tıp Bilimleri Bölümü, Turkey 2014 - 2017

Expertise In Medicine, Hacettepe University, Tıp Fakültesi, Çocuk Sağlığı Ve Hastalıkları, Turkey 2007 - 2013

Undergraduate, Hacettepe University, Tıp Fakültesi, İngilizce, Turkey 2001 - 2007

Foreign Languages

Spanish, B2 Upper Intermediate

English, C1 Advanced

Research Areas

Medicine, Health Sciences, Internal Medicine Sciences, Child Health and Diseases

Academic Titles / Tasks

Associate Professor, Hacettepe University, Tıp Fakültesi (Türkçe), Dahili Tıp Bilimleri Bölümü, 2020 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- Examination of antinuclear antibody staining patterns and titers in patients with childhood-onset systemic lupus erythematosus**
ŞENER S., BATU AKAL E. D., ÜNAL D., BAŞARAN H. Ö., SARIBAŞ Z., BİLGİNER Y., ŞENER B., ÖZEN S.
LUPUS, 2024 (SCI-Expanded)
- FAMILIAL MEDITERRANEAN FEVER FROM CHILDHOOD TO ADULTHOOD**
BALIK Z., BATU AKAL E. D., BAŞARAN H. Ö., ÖZEN S.
CLINICAL AND EXPERIMENTAL RHEUMATOLOGY, no.10, 2024 (SCI-Expanded)

- III. **Telemedicine in pediatric rheumatology: the video pediatric gait, arms, legs, and spine (v-pGALS) examination**
BALIK Z., ŞENER S., BAYINDIR Y., CÜCEOĞLU M. K., ALIYEV E., BAŞARAN Ö., BİLGİNER Y., ÖZEN S., BATU E. D.
Turkish Journal of Medical Sciences, vol.54, no.5, pp.963-969, 2024 (SCI-Expanded)
- IV. **Treatment with Janus kinase inhibitors in juvenile dermatomyositis: A review of the literature**
ŞENER S., ÇAM V., ÖZEN S., BATU AKAL E. D.
Seminars in Arthritis and Rheumatism, vol.66, 2024 (SCI-Expanded)
- V. **Impact of HLA-B51 on Uveitis and Retinal Vasculitis: Data from the AIDA International Network Registries on Ocular Inflammatory Disorders**
Sota J., Guerriero S., Lopalco G., TUFAN A., Ragab G., Almaglouth I., Govoni M., Sfrikakis P. P., Frassi M., Vitale A., et al.
OCULAR IMMUNOLOGY AND INFLAMMATION, 2024 (SCI-Expanded)
- VI. **Subclinical enthesitis in enthesitis-related arthritis and sacroiliitis associated with familial Mediterranean fever**
ŞENER S., Atalay E., YILDIZ A. E., KASAP CÜCEOĞLU M., BAŞARAN H. Ö., BATU AKAL E. D., BİLGİNER Y., ÖZEN S.
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- VII. **Risk for cancer development in familial Mediterranean fever and associated predisposing factors: an ambidirectional cohort study from the international AIDA Network registries**
Vitale A., Caggiano V., TUFAN A., Ragab G., BATU AKAL E. D., Portincasa P., Aragona E., Sota J., Conti G., De Paulis A., et al.
FRONTIERS IN IMMUNOLOGY, 2024 (SCI-Expanded)
- VIII. **A score for predicting colchicine resistance at the time of diagnosis in familial Mediterranean fever: data from the TURPAID registry**
BATU AKAL E. D., ŞENER S., Aydın E. A., Aliyev E., Bagrul I., Türkmen Ş., Akgün Ö., BALIK Z., Tanatar A., BAYINDIR Y., et al.
Rheumatology (United Kingdom), vol.63, no.3, pp.791-797, 2024 (SCI-Expanded)
- IX. **Rhupus syndrome in children: A multi-center retrospective cohort study and literature review**
Sener S., BATU AKAL E. D., Sahin S., Yildirim D. G., Ekinci M. K., KISAOĞLU H., KARALI Y., Demir S., Kaya Akca U., Gunalp A., et al.
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- X. **Biologic drugs in the treatment of juvenile dermatomyositis: a literature review**
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Clinical Rheumatology, vol.43, no.2, pp.591-602, 2024 (SCI-Expanded)
- XI. **Is it possible to predict a disease course prone to macrophage activation syndrome at systemic juvenile idiopathic arthritis diagnosis?**
BATU AKAL E. D., ŞENER S., BALIK Z., BAYINDIR Y., ÇAM V., KASAP CÜCEOĞLU M., UYSAL SOYER Ö., Aliyev E., BAŞARAN H. Ö., BİLGİNER Y., et al.
Clinical Rheumatology, vol.43, no.1, pp.415-421, 2024 (SCI-Expanded)
- XII. **Preferential involvement of the pelvis and hips along with active sacroiliitis in chronic nonbacterial osteomyelitis: MRI of 97 patients from a single tertiary referral center**
AYDINGÖZ Ü., YILDIZ A. E., AYZAZ E., BATU AKAL E. D., ÖZEN S.
European Radiology, 2024 (SCI-Expanded)
- XIII. **Chronic non-bacterial osteomyelitis and immune checkpoint molecules**
KAYA AKCA Ü., SAĞ E., Aydın B., Tasdemir N. K., KASAP CÜCEOĞLU M., BAŞARAN H. Ö., BATU AKAL E. D., BİLGİNER Y., ÖZEN S.
Clinical Rheumatology, vol.43, no.1, pp.553-560, 2024 (SCI-Expanded)
- XIV. **Comparison of EULAR/PRINTO/PRs Ankara 2008 and 2022 ACR/EULAR classification criteria for granulomatosis with polyangiitis in children**
KAYA AKCA Ü., BATU AKAL E. D., Jelusic M., Calatroni M., Bakry R., Frkovic M., Vinsova N., Campos R. T., Horne A., Caglayan S., et al.
RHEUMATOLOGY, no.S12, 2024 (SCI-Expanded)
- XV. **Multisystem Inflammatory Syndrome in Children vs Kawasaki Disease: A Never-Ending Spectrum of**

Phenotypes

BATU AKAL E. D.

Canadian Journal of Cardiology, vol.40, no.1, pp.73-76, 2024 (SCI-Expanded)

- XVI. **Drug-induced lupus erythematosus in childhood: Case-based review**
KAYA AKCA Ü., ŞENER S., BATU AKAL E. D., BALIK Z., BAŞARAN H. Ö., BİLGİNER Y., ÖZEN S.
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- XVII. **Serum autoantibodies and the risk of cancer in systemic sclerosis over time Reply**
BATU AKAL E. D., ŞENER S., ÖZEN S.
ARTHRITIS & RHEUMATOLOGY, no.12, pp.2267, 2023 (SCI-Expanded)
- XVIII. **The impact of the COVID-19 pandemic on pediatric rheumatology practice: an international, cross-sectional survey study.**
BATU AKAL E. D., DEMİRKAN F. G., Sag E., Lamot L., Faleye A., Marrani E., Ziv A., Ardalan K., Gmuca S., Swart J. F., et al.
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- XIX. **Feasibility of canakinumab withdrawal in colchicine-resistant familial Mediterranean fever**
ŞENER S., ÇAM V., BATU AKAL E. D., KASAP CÜCEOĞLU M., BALIK Z., Aliyev E., BAYINDIR Y., BAŞARAN H. Ö., BİLGİNER Y., ÖZEN S.
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- XX. **Treatment with Biologic Drugs in Pediatric Behçet's Disease: A Comprehensive Analysis of the Published Data**
BATU AKAL E. D., ŞENER S., ÇAM V., Aktay Ayaz N., ÖZEN S.
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- XXI. **Drug metabolism and inflammation related distinct miRNA signature of colchicine resistant familial Mediterranean fever patients**
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- XXII. **Cardiovascular manifestations of monogenic periodic fever syndromes**
SÖNMEZ H. E., BAYINDIR Y., BATU AKAL E. D.
Clinical Rheumatology, vol.42, no.10, pp.2717-2732, 2023 (SCI-Expanded)
- XXIII. **Clinical features, treatment and outcome of pediatric patients with severe cutaneous manifestations in IgA vasculitis: Multicenter international study**
Sestan M., Kifer N., Sozeri B., Demir F., Ulu K., Silva C. A., Campos R. T., BATU AKAL E. D., Koker O., Sapina M., et al.
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- XXIV. **Pediatric mixed connective tissue disease versus other overlap syndromes: a retrospective multicenter cohort study**
BATU AKAL E. D., Günalp A., Şahin S., Özdel S., Kızıldağ Z., PAÇ KISAARSLAN A., Bağrul İ., KASAP CÜCEOĞLU M., Tanatar A., SÖNMEZ H. E., et al.
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- XXV. **The outcome of COVID-19 in patients with autoimmune rheumatic diseases: Comparable to the general population or worse?**
BATU AKAL E. D., ERDEN A.
International Journal of Rheumatic Diseases, vol.26, no.8, pp.1435-1439, 2023 (SCI-Expanded)
- XXVI. **Neuropsychiatric involvement in juvenile-onset systemic lupus erythematosus: A multicenter study**
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- XXVII. **Rice bodies in children with rheumatic disorders: A case series and systematic literature review**
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MODERN RHEUMATOLOGY, vol.33, pp.811-816, 2023 (SCI-Expanded)
- XXVIII. **The Effect of Biologics in the Treatment of Multisystem Inflammatory Syndrome in Children (Mis-C):**

A Single-Center Propensity-Score-Matched Study †

BAŞARAN H. Ö., BATU AKAL E. D., KAYA AKCA Ü., ATALAY E., KASAP CÜCEOĞLU M., ŞENER S., BALIK Z., KARABULUT E., KESİCİ S., KARAGÖZ T., et al.

Children, vol.10, no.6, 2023 (SCI-Expanded)

- XXIX. **Correspondence on 'Lupus or not? SLE Risk Probability Index (SLERPI): a simple, clinician-friendly machine-learning-based model to assist the diagnosis of systemic lupus erythematosus'**
BATU AKAL E. D., KAYA AKCA Ü., BAŞARAN H. Ö., BİLGİNER Y., ÖZEN S.
ANNALS OF THE RHEUMATIC DISEASES, vol.82, no.6, 2023 (SCI-Expanded)
- XXX. **The Characteristics of Patients With COVID-19–Associated Pediatric Vasculitis: An International, Multicenter Study**
BATU AKAL E. D., ŞENER S., Ozomay Baykal G., Arslanoglu Aydin E., Özdel S., Gagro A., ESEN E., Heshin-Bekenstein M., Akpınar Tekgöz N., DEMİRKAN F. G., et al.
Arthritis and Rheumatology, vol.75, no.4, pp.499-506, 2023 (SCI-Expanded)
- XXXI. **Cardiac involvement and cardiovascular risk factors in pediatric primary systemic vasculitides**
ŞENER S., Aydin E. A., BATU AKAL E. D.
CLINICAL RHEUMATOLOGY, vol.42, no.3, pp.673-686, 2023 (SCI-Expanded)
- XXXII. **Evaluation of periodontal status and cytokine response in children with familial Mediterranean fever or systemic juvenile idiopathic arthritis**
ACAR B., DEMİR S., ÖZŞİN ÖZLER C., TAN Ç., ÇİÇEK B., YAZ İ., KARABULUT E., BATU AKAL E. D., Tezcan I., NOHUTCU R. M., et al.
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- XXXIII. **Report of 2 pediatric cases with atypical Cogan's syndrome and a systematic review**
KASAP CÜCEOĞLU M., BAŞARAN H. Ö., BATU AKAL E. D., Kaya Akca U., Atalay E., ŞENER S., BALIK Z., BAYINDIR Y., Aliyev E., GÖÇMEN R., et al.
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- XXXIV. **A new tool supporting the diagnosis of childhood-onset Behçet's disease: venous wall thickness**
ATALAY E., OĞUZ B., ŞENER S., ÖZCAN H. N., SAĞ E., KAYA AKCA Ü., KASAP CÜCEOĞLU M., BALIK Z., KARAKAYA KARABULUT J., KARADAĞ Ö., et al.
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- XXXV. **Early-onset juvenile dermatomyositis: A tertiary referral center experience and review of the literature**
ŞENER S., BAŞARAN H. Ö., BATU AKAL E. D., Sag E., Oz S., TALİM B., BİLGİNER Y., Haliloglu G., ÖZEN S.
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- XXXVI. **A patient-driven registry on Behçet's disease: the AIDA for patients pilot project**
Gaggiano C., Del Bianco A., Sota J., Gentileschi S., Ruscitti P., Giacomelli R., Piga M., Crisafulli F., Monti S., Emmi G., et al.
Frontiers in Medicine, vol.10, 2023 (SCI-Expanded)
- XXXVII. **A Child with Refractory and Relapsing Anti-3-Hydroxy-3-Methylglutaryl-Coenzyme A Reductase Myopathy: Case-Based Review**
ŞENER S., BATU AKAL E. D., SARI S., KASAP CÜCEOĞLU M., YILDIZ A. E., TALİM B., AYDINGÖZ Ü., ÖZEN S., Haliloglu G.
Journal of neuromuscular diseases, vol.10, no.2, pp.279-291, 2023 (SCI-Expanded)
- XXXVIII. **Diagnosing growing pains in children by using machine learning: a cross-sectional multicenter study**
AKAL F., BATU AKAL E. D., Sonmez H. E., Karadag S. G., Demir F., Ayaz N. A., Sozeri B.
MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING, vol.60, no.12, pp.3601-3614, 2022 (SCI-Expanded)
- XXXIX. **Reply on: COVID-19 associated pediatric vasculitis: A systematic review and detailed analysis of the pathogenesis**
BATU AKAL E. D., ŞENER S., ÖZEN S.
Seminars in Arthritis and Rheumatism, vol.57, 2022 (SCI-Expanded)
- XL. **Treatment of childhood-onset Takayasu arteritis: switching between anti-TNF and anti-IL-6 agents**
ŞENER S., BAŞARAN H. Ö., KAYA AKCA Ü., ATALAY E., KASAP CÜCEOĞLU M., BALIK Z., Aliyev E., BAYINDIR Y., BATU

AKAL E. D., HAZIROLAN T., et al.

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- XLII. **The challenges in diagnosing pediatric primary antiphospholipid syndrome**
DEMİR S., KESKİN A., SAĞ E., KAYA AKCA Ü., ATALAY E., KASAP CÜCEOĞLU M., BATU AKAL E. D., ÖZEN S., BİLGİNER Y.
LUPUS, vol.31, no.10, pp.1269-1275, 2022 (SCI-Expanded)
- XLIII. **COVID-19 associated pediatric vasculitis: A systematic review and detailed analysis of the pathogenesis**
BATU AKAL E. D., ŞENER S., ÖZEN S.
SEMINARS IN ARTHRITIS AND RHEUMATISM, vol.55, 2022 (SCI-Expanded)
- XLIV. **Probiotic use in the prophylaxis of periodic fever, aphthous stomatitis, pharyngitis, and adenitis (PFAPA) syndrome: a retrospective cohort study**
BATU AKAL E. D., KAYA AKCA Ü., BAŞARAN H. Ö., BİLGİNER Y., ÖZEN S.
RHEUMATOLOGY INTERNATIONAL, vol.42, no.7, pp.1207-1211, 2022 (SCI-Expanded)
- XLV. **Familial Mediterranean Fever: How to Interpret Genetic Results? How to Treat? A Quarter of a Century After the Association with the Mefv Gene**
BATU AKAL E. D., BAŞARAN H. Ö., BİLGİNER Y., ÖZEN S.
CURRENT RHEUMATOLOGY REPORTS, vol.24, no.6, pp.206-212, 2022 (SCI-Expanded)
- XLVI. **Long-term renal survival of paediatric patients with lupus nephritis**
Demir S., GÜLHAN B., ÖZEN S., Çelëgen K., BATU AKAL E. D., Taş N., ORHAN D., BİLGİNER Y., DÜZOVA A., ÖZALTIN F., et al.
Nephrology Dialysis Transplantation, vol.37, no.6, pp.1069-1077, 2022 (SCI-Expanded)
- XLVII. **The performances of the ILAR, ASAS, and PRINTO classification criteria in ERA patients: a comparison study**
KAYA AKCA Ü., BATU AKAL E. D., ŞENER S., BALIK Z., KASAP CÜCEOĞLU M., ATALAY E., BAŞARAN H. Ö., BİLGİNER Y., ÖZEN S.
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- XLVIII. **Factors Affecting Nonurgent Pediatric Emergency Department Visits and Parental Emergency Overestimation**
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- XLIX. **Macrophage activation syndrome in pediatric Sjogren's syndrome**
BATU AKAL E. D., DEMİR S., BİLGİNER Y., ÖZEN S.
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- L. **The clinical course of SARS-CoV-2 infection among children with rheumatic disease under biologic therapy: a retrospective and multicenter study**
Sozeri B., Ulu K., KAYA AKCA Ü., HAŞLAK F., PAÇ KISAARSLAN A., Otar-Yener G., BABA Ö., Altug-Gucenmez O., Sahin N., Baglan E., et al.
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- L. **Subcutaneous nodules as a clinical biomarker of Farber disease**
Mitchell J., Harmatz P., Selim L., El Din I. G., Mungan N., Bulut F., Lampe C., Grant C. L., Ferreira C. R., Puri R. D., et al.
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- LI. **The impact of the Eurofever criteria and the new InFever MEFV classification in real life: Results from a large international FMF cohort**
Bustaffa M., Kone-Paut I., ÖZEN S., Amaryan G., Papadopoulou-Alataki E., Gallizzi R., Carrabba M., Aviel Y. B., Cantarini L., Alessio M., et al.
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- LII. **Comparison of IVIG resistance predictive models in Kawasaki disease**
KAYA AKCA Ü., Aydın E. A., AYKAN H. H., SERİN O., SAĞ E., DEMİR S., ATALAY E., Kasap M., BATU AKAL E. D., KARAGÖZ T., et al.
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- LIII. **Farber disease clinical impact: Patient reported outcomes as a measure of disease burden**
Mitchell J, Harmatz P, Selim L, El Din I. G., Mungan N, Bulut F, Lampe C, Grant C. L., Ferreira C. R., Puri R. D., et al.
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- LIV. **Galectin-3: a new biomarker for differentiating periodic fever, adenitis, pharyngitis, aphthous stomatitis (PFAPA) syndrome from familial Mediterranean fever?**
BATU AKAL E. D., Vezir E., Ogus E., Ozbas Demirel O., Akpınar G., DEMİR S., ÖZEN S.
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- LV. **Two siblings with Majeed syndrome and neutropenia**
KASAP CÜCEOĞLU M., BATU AKAL E. D., YILDIZ A. E., Kaya Akca U., Atalay E., ŞENER S., BALIK Z., BAŞARAN H. Ö., BİLGİNER Y., ÖZEN S.
Archives of Rheumatology, vol.37, no.4, pp.638-640, 2022 (SCI-Expanded)
- LVI. **Hematological involvement in pediatric systemic lupus erythematosus: A multi-center study**
KAYA AKCA Ü., BATU AKAL E. D., PAÇ KISAARSLAN A., Poyrazoglu H., Ayaz N. A., Sozeri B., SAĞ E., ATALAY E., DEMİR S., Karadag S. G., et al.
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- LVII. **Penile involvement of immunoglobulin a vasculitis/Henoch-Schonlein purpura**
KAYA AKCA Ü., BATU AKAL E. D., SERİN O., İpek O. F., Aydın O., TEKŞAM Ö., BİLGİNER Y., ÖZEN S.
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- LVIII. **Oral health status in children with familial Mediterranean fever**
Esmeray P., İLERİ KEÇELİ T., UZAMIŞ TEKÇİÇEK M., BATU AKAL E. D., Arici Z. S., KONŞUK ÜNLÜ H., ÖZEN S., BİLGİNER Y.
TURKISH JOURNAL OF PEDIATRICS, vol.63, no.3, pp.443-449, 2021 (SCI-Expanded)
- LIX. **Performances of the "MS-score" And "HScore" in the diagnosis of macrophage activation syndrome in systemic juvenile idiopathic arthritis patients**
SAĞ E., KESKİN A., ATALAY E., DEMİR S., KASAP CÜCEOĞLU M., KAYA AKCA Ü., BATU AKAL E. D., BİLGİNER Y., ÖZEN S.
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- LX. **Implications of COVID-19 in pediatric rheumatology**
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- LXI. **Neutrophil-mediated Thrombosis and NETosis in Behcet's Disease: a Hypothesis**
BATU AKAL E. D.
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- LXII. **Characteristics of pediatric Behcet's disease in Turkey and Israel: A cross-sectional cohort comparison**
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- LXIII. **Lipoma Arborescens Associated With Psoriatic Arthritis in an Adolescent Boy A Case Report and Review of the Literature**
Batu E. D., Sonmez H., Kösemehmetoğlu K., Özer H., Aydingöz Ü.
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- LXIV. **Testing the Model for Predicting Effectiveness of Anakinra in Systemic Juvenile Idiopathic Arthritis**
ÖZEN S., DEMİR S., BATU AKAL E. D.
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- LXV. **Evaluation of hearing in pediatric familial Mediterranean fever patients during attack period and attack-free period**
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INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY, vol.119, pp.185-192, 2019 (SCI-Expanded)
- LXVI. **Glucocorticoid treatment in juvenile idiopathic arthritis**
Batu E. D.

- RHEUMATOLOGY INTERNATIONAL, vol.39, no.1, pp.13-27, 2019 (SCI-Expanded)
- LXXVII. **Is age associated with disease severity and compliance to treatment in children with familial Mediterranean fever?**
Sonmez H. E., Esmeray P., Batu E. D., Arici Z. S., DEMİR S., SAĞ E., ÖZEN S., BİLGİNER Y.
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- LXXVIII. **Whole Exome Sequencing in Early-onset Systemic Lupus Erythematosus**
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- LXXIX. **Comparing immunoglobulin A vasculitis (Henoch-Schonlein purpura) in children and adults: a single-centre study from Turkey**
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