

Buse BALCI

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h-index: 11
Citations: 500 and counting



Research Interests: Exploring innovative diagnostic biomarkers, disease correlations.

EDUCATION

- **Bolu Abant İzzet Baysal University** Bolu, Türkiye
Medicine Sep 2015 - Jul 2023

EXPERIENCE

- **ASIDE Internal Medicine** Remote
Editor Dec 2024 - Present
- **ASIDE Case Reports** Remote
Associate Editor Dec 2024 - Present

PUBLICATIONS

- [1] Buse Balci, Buket Kin Tekce, and Gulali Aktas. Evaluation of serum oxidative stress levels and antioxidant capacity in prediabetes. *Advances in Redox Research*, 12:100106, 2024.
- [2] Ridvan Erdin, Askin Gungunes, Zuleyha Erdin, Senay Ceylan, Buse Balci, and Gulali Aktas. Isolated first hour hyperglycemia in oral glucose tolerance test is associated with insulin resistance. *Intercontinental Journal of Internal Medicine*, 2:1–6, 02 2024.
- [3] Buse Balci, Burcin Atak, Tuba Taslamacioğlu Duman, and Gulali Aktas. A novel marker for prediabetic conditions: Uric acid-to-hdl cholesterol ratio. 125:145–148, 01 2024.
- [4] Züleyha ERDİN, Sümeyye Buse BALCI, and Gulali AKTAS. A rare complication of central fascial paralysis associated with quinolone. *Journal of Medicine and Palliative Care*, 4(6):718–720.
- [5] Burcin Meryem Atak Tel, Gulali Aktas, Satilmis Bilgin, Sumeyye Buse Baltaci, and Tuba Taslamacioglu Duman. Control level of type 2 diabetes mellitus in the elderly is associated with polypharmacy, accompanied comorbidities, and various increased risks according to the beers criteria. *Diagnostics*, 13(22):3433, 2023.
- [6] Tuba Taslamacioglu Duman, Feyza Nihal Ozkul, and Buse Balci. Could systemic inflammatory index predict diabetic kidney injury in type 2 diabetes mellitus? *Diagnostics*, 13(12):2063, 2023.
- [7] Gulali Aktas, Satilmis Bilgin, and Buse Balci. Is serum uric acid-to-hdl cholesterol ratio elevation associated with diabetic kidney injury? *Postgraduate medicine*, 05 2023.
- [8] Gulali Aktas, Burcin Meryem Atak Tel, Ramiz Tel, and Buse Balci. Treatment of type 2 diabetes patients with heart conditions. *Expert Review of Endocrinology & Metabolism*, (just-accepted), 2023.
- [9] Eray Erge, Cagri Kiziltunc, Buse Balci, Burcin Meryem Atak Tel, Satilmis Bilgin, Tuba Taslamacioglu Duman, and Gulali Aktas. A novel inflammatory marker for the diagnosis of hashimoto's thyroiditis: Platelet-count-to-lymphocyte-count ratio. *Diseases*, 11(1):15, 2023.
- [10] Celal Civil, Buse Balci, and Gulali Aktas. The importance of using automatic blood pressure measuring devices in hypertension patients. *Journal of Bionic Memory*, 2(3):79–86, 2022.
- [11] Gulali Aktas, Buse Balci, Seyma Yilmaz, Halil Bardak, and Tuba Taslamacioglu Duman. Characteristics of covid-19 infection with the original sars-cov-2 virus and other variants: A comparative review. *Journal of Bionic Memory*, 2(3):96–112, 2022.
- [12] Buse Balci and Gulali Aktas. A comprehensive review of the role of hemogram derived inflammatory markers in gastrointestinal conditions. *Iranian Journal of Colorectal Research*, 10(3), 2022.

- [13] Gizem Kahveci, Gulali Aktas, Burcin Atak Tel, Satilmis Bilgin, Ozge Kurtkulagi, Buse Balci, Asli Erturk, and Tuba Duman. Red cell distribution width-to-platelet count ratio is a promising predictor of functional bowel disease. *Family Medicine & Primary Care Review*, 24(2):126–129, 07 2022.
- [14] Satilmis Bilgin, Gulali Aktas, Burcin Atak, Ozge Kurtkulagi, Gizem Bakır Kahveci, Tuba Taslamacioğlu Duman, Havva Akin, Buse Balci, and Asli Ertürk. Triglyceride to high density lipoprotein cholesterol ratio is elevated in patients with complicated type 2 diabetes mellitus. *Acta Facultatis Medicae Naissensis*, 39:209–216, 04 2022.
- [15] Satilmis Bilgin, Burcin Atak, Gizem Bakır Kahveci, Tuba Taslamacioğlu Duman, Ozge Kurtkulagi, Semanur Yurum, Asli Ertürk, Buse Balci, and Gulali Aktas. Hypothyroidism is strongly correlated with mean platelet volume and red cell distribution width. *National Journal of Health Sciences*, 6:7–10, 10 2021.
- [16] Gulali Aktas, Atiqa Khalid, Havva Akin, Buse Balci, and Asli Ertürk. Behçet’s disease: A narrative review of clinical diagnosis and treatment. *Northwestern Medical Journal*, 1:68–76, 09 2021.
- [17] Ozge Kurtkulagi, Burcin Atak, Gizem Bakır Kahveci, Satilmis Bilgin, Tuba Taslamacioğlu Duman, Asli Ertürk, Buse Balci, and Gulali Aktas. Hashimoto’s thyroiditis is associated with elevated serum uric acid to high density lipoprotein-cholesterol ratio. *Romanian journal of internal medicine = Revue roumaine de medecine interne*, 06 2021.

PROJECTS

- **AMA Research Challenge’21 - Detection of Covid-19 Pneumonia Using a Deep Learning Model (Jul, 2021)**
We aimed to alleviate the workload of physicians in this process by creating a deep learning model that can detect Covid-19 pneumonia from chest radiographs. While training the artificial intelligence model, we used publicly shared healthy and Covid-19 pneumonia-infected chest X-ray [dataset](#). *Technologies: Python, Pytorch, Open-CV*.

PRESENTATIONS

- **Evaluation of serum oxidative stress levels and antioxidant capacity in prediabetes** (Mar, 2024 - Accepted for poster presentation) - 22nd European Congress of Internal Medicine held in Istanbul
- **Is serum uric acid-to-HDL cholesterol ratio elevation associated with diabetic kidney injury?** (Nov, 2023) - 25th National Internal Medicine Congress held in Antalya
- **Control Level of Type 2 Diabetes Mellitus in the Elderly Is Associated with Polypharmacy, Accompanied Comorbidities, and Various Increased Risks According to the Beers Criteria** (Nov, 2023) - 25th National Internal Medicine Congress held in Antalya
- **Triglyceride to High Density Lipoprotein Cholesterol Ratio is Elevated in Patients with Complicated Type 2 Diabetes Mellitus** (Nov, 2023) - 25th National Internal Medicine Congress held in Antalya
- **Could Systemic Inflammatory Index Predict Diabetic Kidney Injury in Type 2 Diabetes Mellitus?** (Nov, 2023) - 25th National Internal Medicine Congress held in Antalya
- **A Novel Inflammatory Marker for the Diagnosis of Hashimoto’s Thyroiditis: Platelet-Count-to-Lymphocyte-Count Ratio** (Nov, 2023) - 25th National Internal Medicine Congress held in Antalya
- **Red cell distribution width-to-platelet count ratio is a promising predictor of functional bowel disease** (Nov, 2023) - 25th National Internal Medicine Congress held in Antalya
- **A novel marker for prediabetic conditions: Uric acid-to-HDL cholesterol ratio** (Nov, 2023) - 25th National Internal Medicine Congress held in Antalya
- **Evaluation of serum oxidative stress levels and antioxidant capacity in prediabetes** (Nov, 2023) - 25th National Internal Medicine Congress held in Antalya
- **Non-Standardized Surgery-Lateral Sphincterotomy: Is there a consensus?** (May, 2023) - Congress organized by the Turkish Society of Colon and Rectal Surgery in Antalya - Oral Presentation
The lack of consensus among surgeons regarding the surgical technique for treating chronic anal fissures poses a challenge, despite lateral internal sphincterotomy (LIS) being widely recognized as the preferred surgical treatment. This study seeks to identify the variations in surgical practice among surgeons and assess the extent of consensus in this regard.

CERTIFICATES - PARTICIPATIONS

- **Occupational Physician, Certified by the Ministry of Labor and Social Security (Jun, 2025)**
- **ASCO Quality Care Symposium** (Sept 30 - Oct 1, 2022) - The American Society of Clinical Oncology
During this follow-up conference to a previous event I attended, I had the opportunity to engage with numerous distinguished professors. Their expertise and insights contributed to my ongoing efforts to enhance cancer patient care.
- **ASCO Annual Meeting** (June 3 - 7, 2022) - The American Society of Clinical Oncology
Many researchers presented their latest cancer care work at the 2022 ASCO Annual Meeting. Many medical doctors and students participated in this conference in person or virtually.

- **Postoperative Complications in Patients with Obesity - University of Birmingham (Feb, 2016)**

I had the privilege of participating in the EuroSurg collaborative, facilitated by the University of Birmingham. During this period, I contributed to the project by collecting data at our medical center in Türkiye. The findings from this collaborative effort were subsequently presented at the esteemed European Society of Coloproctology conference held in Berlin in September 2017.

- **Certificate of English proficiency - Bilgi University (Jun, 2013)**
- **TUBITAK Chemistry Olympiad Student (2010 - 2012)**

MEMBERSHIPS

- **Sigma Xi (Elected as a member of Sigma Xi, the Scientific Research Honor Society) - since 2023**
- **ASCO (American Society of Clinical Oncology) - since 2020**

REVIEWS

Reviewed articles in these journals:

- **Scientific Reports**
- **PeerJ**
- **Diabetes, Metabolic Syndrome and Obesity**
- **Diabetes Research and Clinical Practice**
- **Endocrine Practice**
- **Integrated Pharmacy Research and Practice**
- **Journal of Inflammation Research**
- **Health Expectations**
- **Clinical Interventions in Aging**
- **Frontiers in Public Health**
- **Frontiers in Medicine**
- **Journal of Infection and Public Health**
- **Plos One**
- **International Journal of Laboratory Hematology**
- **Heliyon**
- **Journal of Cosmetic Dermatology**
- **Psychology, Health & Medicine**
- **National Journal of Health Sciences (NJHS)**
- **Journal of Health, Population and Nutrition**
- **Journal of Experimental and Clinical Medicine**