

Parisa Sezari, MD

Associate Professor of Anesthesiology

Department of Anesthesiology, Faculty of Medicine
Shahid Beheshti University of Medical Sciences
Tehran, Iran

Biography

Dr. Parisa Sezari is an Associate Professor of Anesthesiology at Shahid Beheshti University of Medical Sciences and a faculty member of the Department of Anesthesiology at Loghman Teaching Hospital. Her academic activities focus on three major areas: **Regional Anesthesia and Acute Pain Management, Medical Education, and Artificial Intelligence applications in Anesthesiology.**

Dr. Sezari received her **Doctor of Medicine (MD) degree from Tehran University of Medical Sciences (2003–2012)** and completed her **Anesthesiology Residency Program at Shahid Beheshti University of Medical Sciences (2012–2016)**. Following completion of her residency, she joined the Department of Anesthesiology at Shahid Beheshti University of Medical Sciences as an **Anesthesiologist and Faculty Member in 2016**. She served as an **Assistant Professor of Anesthesiology from 2016 to 2024** and was promoted to **Associate Professor of Anesthesiology in 2024**.

She completed her **Fellowship in Regional Anesthesia and Acute Pain Management (2024–2025) at Shahid Beheshti University of Medical Sciences**, with advanced clinical training in ultrasound-guided regional anesthesia techniques, peripheral nerve blocks, and acute pain management.

Dr. Sezari has been actively involved in academic leadership and medical education development. She served as the **Head of the Educational Development Office (EDO), Faculty of Medicine, Shahid Beheshti University of Medical Sciences (2023–2025)** and as the **Deputy of Education, Faculty of Medicine (2024–2025)**. Her educational activities include competency-based medical education, Entrustable Professional Activities (EPAs), workplace-based assessment, faculty development, curriculum design, and innovative assessment strategies.

Her research interests include **regional anesthesia, ultrasound-guided nerve blocks, acute pain management, medical education, and artificial intelligence in anesthesiology**. She has contributed to clinical and educational research projects involving ultrasound-guided regional techniques, airway assessment, machine learning-based prediction models, and competency-based training of anesthesiology residents.

Education and Training

Fellowship in Regional Anesthesia and Acute Pain Management

Shahid Beheshti University of Medical Sciences, Tehran, Iran
2024–2025

Anesthesiology Residency Program

Shahid Beheshti University of Medical Sciences, Tehran, Iran
2012–2016

Doctor of Medicine (MD)

Tehran University of Medical Sciences, Tehran, Iran
2003–2012

Academic Appointments

Associate Professor of Anesthesiology

Department of Anesthesiology, Shahid Beheshti University of Medical Sciences
2024–Present

Assistant Professor of Anesthesiology

Department of Anesthesiology, Shahid Beheshti University of Medical Sciences
2016–2024

Anesthesiologist and Faculty Member

Department of Anesthesiology, Shahid Beheshti University of Medical Sciences
2016–Present

Academic Leadership Positions

Deputy of Education, Faculty of Medicine

Shahid Beheshti University of Medical Sciences
2024–2025

Head of Educational Development Office (EDO), Faculty of Medicine

Shahid Beheshti University of Medical Sciences
2023–2025

Deputy of Research, Department of Anesthesiology, Loghman Teaching Hospital

Shahid Beheshti University of Medical Sciences
2020–Present

Research Interests

- Regional Anesthesia and Acute Pain Management

- Ultrasound-Guided Regional Anesthesia Techniques
- Medical Education and Competency-Based Medical Education
- Entrustable Professional Activities (EPAs) and Workplace-Based Assessment
- Artificial Intelligence and Machine Learning in Anesthesiology
- Airway Management and Perioperative Risk Prediction

Academic Achievements

- **First Prize, National Medical Education Festival of Iran (2025), Student Assessment Domain**, for the project:
"Implementation of Entrustable Professional Activities (EPAs) in Anesthesiology Residency Training."
- **Ranked 2nd in the National Anesthesiology Board Examination of Iran (2016).**
- Recognized as an **Outstanding Anesthesiology Resident at Shahid Beheshti University of Medical Sciences (2015–2018).**
- Recipient of educational excellence awards for innovative initiatives in anesthesiology education, including mentorship-based academic guidance and assessment-based educational interventions.

Selected Publications (Most Influential Articles)

1. **Unravelling Intubation Challenges: A Machine Learning Approach Incorporating Multiple Predictive Parameters.**
BMC Anesthesiology. 2024.
2. **The Efficacy of Local Dexmedetomidine During Fiberoptic Nasotracheal Intubation: A Randomized Clinical Trial.**
Journal of Anaesthesiology Clinical Pharmacology. 2017.
3. **The Effect of Erector Spinae Plane Block on the Use of Anesthetic Medications in Lumbar Spine Surgery.**
Agri: The Journal of the Turkish Society of Algology. 2023.
4. **The Role of Entrustable Professional Activities in Competency-Based Medical Education for Anesthesiology Residents: A Pilot Phase.**
Anesthesiology and Pain Medicine. 2022.

5. **Evaluation of Ultrasound-Guided Erector Spinae Plane Block Efficacy on Postoperative Pain in Lumbar Spine Surgery: A Randomized Clinical Trial.**
Agri: The Journal of the Turkish Society of Algology. 2022.
6. **Use of STOP-BANG Questionnaire to Predict Postoperative Respiratory Complications after Bariatric Surgery.**
Tanaffos. 2024.
7. **Residency Education Reform Program in Department of Anesthesiology and Critical Care: An Academic Reform Model.**
Anesthesiology and Pain Medicine. 2021.
8. **Improving the Training Process of Anesthesiology Residents Through the Mentorship-Based Approach.**
Anesthesiology and Pain Medicine. 2019.
9. **Relationship Between Simulated Patient Scenarios and Role-Playing Method and OSCE Performance in Senior Anesthesiology Residents: A Correlation Assessment Study.**
Anesthesiology and Pain Medicine. 2020.
10. **Faculty Development Program and the Outcome of Academic Development.**
Journal of Iranian Medical Council. 2024.

Current Research Focus

- Novel ultrasound-guided regional anesthesia techniques and perioperative analgesia
- Artificial intelligence and machine learning applications in anesthesiology
- Competency-based medical education and Entrustable Professional Activities
- Innovative assessment strategies and faculty development
- Airway risk prediction and perioperative outcomes

Academic Profiles

- Google Scholar Profile:
https://scholar.google.com/citations?hl=en&user=8tXmFaMAAAAJ&view_op=list_works&sortby=pubdate
- ORCID: [ORCID – 0000-0003-3874-1050](https://orcid.org/0000-0003-3874-1050)

