

HOMAYOUN AGHAMOHAMMADI, MD

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SKILLS

Advanced Airway Management • Kidney-Transplant Anesthesia • Pain Medicine • Clinical Leadership • Academic Research • Medical Device Innovation • Curriculum Development

SUMMARY

Board-certified anesthesiologist and Associate Professor with more than two decades of clinical, teaching, and research experience. Former Head of the Department of Anesthesiology and Critical Care at Shahid Labbafinejad Hospital and member of the National Anesthesiology Specialty Board. Expertise in advanced airway management, kidney-transplant anesthesia, and pain medicine, with multiple internationally indexed publications and a registered airway-device patent.

EXPERIENCE

2009 - Current

Associate Professor of Anesthesiology, Critical Care & Pain Medicine *Anesthesiology Research Center, Shahid Beheshti University of Medical Sciences | Tehran, Iran*

- Deliver comprehensive anesthesia care for advanced urological, kidney transplantation, and ophthalmic surgical protocols.
- Lead clinical research projects and supervise postgraduate medical students, fellows, and residents.
- Coordinate across clinical departments to maintain peak patient safety and perioperative care standards.

2008 - 2020

Head of the Department of Anesthesiology & Critical Care *Shahid Labbafinejad Hospital | Tehran, Iran*

- Directed clinical operations, staffing, and academic training programs within a premier tertiary care hospital.
- Chaired the Crisis & Disaster Management Committee and the institutional Ethics Committee.
- Managed morbidity and mortality reviews to enforce national quality assurance metrics.

1996 - 2009

Lecturer, School of Medicine *Shahid Beheshti University of Medical Sciences | Tehran, Iran*

1996 - 2001

Lecturer, School of Nursing & Midwifery *Shahid Beheshti University of Medical Sciences | Tehran, Iran*

1994 - 1996

Lecturer, School of Medicine *Zanjan University of Medical Sciences | Zanjan, Iran*

ACCOMPLISHMENTS

- Medical Device Patent: Registered inventor of a novel video laryngoscope with built-in image capture and wireless transmission capabilities.

- Educational Innovation: Produced 'Anesthesia Essentials', the foundational educational and instructional anesthesiology film series in Iran.
- National Leadership: Served 6 consecutive years on the National Anesthesiology Specialty Board and the Board of Examiners.
- Academic Mentorship: Formally supervised 4 postgraduate specialty medical theses and served as advisor to 8 specialty theses.

EDUCATION

Board Certification in Anesthesiology & Critical Care

Shahid Beheshti University of Medical Sciences, Tehran, Iran

Doctor of Medicine (M.D.)

Shahid Beheshti University of Medical Sciences, Tehran, Iran

AFFILIATIONS

- Member, National Anesthesiology Specialty Board
- Member, Evaluation Board, Office for Development & Assessment of Medical Education (2007–2020)
- Member, Hospital Evaluation Board, Social Security Organization (2002–2020)
- Member, Review Board & Forensic Medicine Committee, Zanjan University of Medical Sciences (1994–1996)

CUSTOM SECTION

- Speaker, International Congress of Urology
- Speaker, First Congress of Anesthesia in Ophthalmology
- Speaker, Iranian Society of Urologists
- Speaker, International Laparoscopy Training Workshops (Three Sessions)
- Secretary, CME Seminar on Anesthesia in Geriatric Medicine (2009)

CURRENTATIONS

Books:

1. Preoperative Patient Preparation (Chapter 10), Comprehensive Urology of Iran.

Articles:

1. Effect of Position Change After Induction of Spinal Anesthesia with Hyperbaric 0.5% Bupivacaine on Duration of Analgesia and Opioid Demand in Percutaneous Nephrolithotomy Candidates — Anesthesiology and Pain Medicine, 2025
2. Comparison of Acromio-Axillo-Suprasternal Notch Index (AASI) with Hyomental Distance Ratio Test (HMDR) in Predicting Difficult Visualization of the Larynx — Tanaffos, 2024
3. Relationship Between “Simulated Patient Scenarios and Role-Playing” Method and OSCE Performance in Senior Anesthesiology Residents — Anesthesiology and Pain Medicine, 2020
4. Topical Versus Intravenous Lidocaine in Children With Upper Respiratory Infection Undergoing Anesthesia: A Randomized, Double-Blind Clinical Trial — Anesthesiology and Pain Medicine, 2015

5. Propofol and Alfentanil in Treatment of a Patient With Episodic Cluster Headache — *Anesthesiology and Pain Medicine*, 2014
6. Comparison of Acromio-Axillo-Suprasternal Notch Index (a New Test) with Modified Mallampati Test in Predicting Difficult Visualization of the Larynx — *Acta Anaesthesiologica Taiwanica*, 2013
7. Use of Laryngeal Mask Airway in Children With Upper Respiratory Tract Infection Compared with Face Mask: Randomized, Single-Blind Clinical Trial — *Acta Anaesthesiologica Taiwanica*, 2011
8. Prevention of Bradycardia by Atropine Sulfate During Urological Laparoscopic Surgery — *Urology Journal*, 2009
9. Comparison of Local Anesthesia with Sedation vs. Spinal Anesthesia in TURP — *Armaghane Danesh*, 2008–2009
10. Effect of Intravenous Atropine in Preventing Hemodynamic Changes Induced by Spinal Anesthesia — *Journal of Army University of Medical Sciences*, 2008
11. Effects of Respiratory Physiotherapy on Respiratory Status of Children in PICU — *Journal of Army University of Medical Sciences*, 2008
12. Comparison of Cisatracurium + Alfentanil vs. Succinylcholine in Rapid-Sequence Intubation — *Journal of Army University of Medical Sciences*, 2008
13. Celiac Plexus Block — *Qalb (Heart) Journal*, 2003
14. Effect of Acupuncture on Pain Control in Primary Dysmenorrhea — *Medical Sciences Journal of Islamic Azad University*, accepted 2009
15. Comparison of Sedation with Local vs. Regional Anesthesia in TURP — Poster, International Congress of Urology, China, 2008