



Mahdi Amirdosara

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Education

Fellowship:

2016-2018, Specialty in Critical Care Medicine , Shahid beheshti University of Medical Science, Tehran, Iran.

Residency:

2010-2014, Anesthesiology Residency , Shahid Sadoughi University of Medical Sciences , Yazd, Iran.

MD:

1996-2003, M.D , Isfahan University of Medical Sciences, Isfahan, Iran.

Faculty Appointments

I have been working as a faculty member at Loghman Hospital, Shahid beheshti University of Medical Science since 2020.

Academic and Executive Appointments

- Appointment as Deputy Director of Education for the General ICU Department in 2021 and 2022
- Appointment as the department's research assistant for the General ICU Department in 2023 and 2024

Membership and Professional Appointments

- Membership in the Clinical Research Development Unit(CRDU) of Loghman Hakim Hospital, Shahid Beheshti University of Medical in 2024 and 2025
- Member of the Mortality Committee of Loghman Hospital in 2022

Scholarly Publications

- Futuhi F, Sahraei Z, Panahandeh SM, Zangi M, Hajiesmaeili M, Ghalehnoo SR, Abbasi Z, **Amirdosara M**, Mohammad S, Ahooie H. *Urinary gamma-glutamyl transferase as a predictor of vancomycin-induced acute kidney injury; a prospective diagnostic and observational study.*
- Gholizade M, Futuhi F, Zangi M, Hajiesmaeili M, **Amirdosara M**, Abbasi Z, Ghalehnoo SR, Abniki M, Sahraei Z. *Assessing the effect of probiotic consumption on metabolic acidosis in patients with end-stage renal disease; a randomized, double-blind clinical trial.* Journal of Renal Injury Prevention. 2026 Apr 19.
- Davoudi Z, Shahriari S, Rezaei O, **Amirdosara M**, Vakili K, Zangi M, Samadian M, Haghighimorad M, Ebrahimzade K, Mousavinejad SA, Sayehmiri F. *Incidence and risk factors for transient and permanent central diabetes insipidus following pituitary adenoma surgery: a single center study.* International Journal of Neuroscience. 2026 Apr 3;136(4):417-25.
- **Amirdosara M**, Hajiesmaeili M, Hosseininasab S, Zangi M. *Role of Inflammation in Secondary Injury Progression after Traumatic Brain Injury and Spinal Cord Injury.* Archives of Anesthesiology and Critical Care. 2026 Feb 22;12(2):169-80.

- Abniki M, **Amirdosara M**, Zangi M. *AI-driven innovations in intensive care nephrology; bridging intensive care and kidney diseases*. Journal of Nephropharmacology. 2025 Dec 27;15(1):e12820-.
- Mosleh H, **Amirdosara M**, Abbasi Z. *Anesthesia for ambulatory and office-based ear, nose, and throat surgery; a comprehensive review of current practices and safety considerations*. Journal of Preventive Epidemiology. 2025 Oct 9;11(1):e39287-.
- Foroughi E, Fathi M, Pourazizi M, Radmard M, Sadeghi Z, Tafazolimoghadam A, Yousem DM, Khalaji A, **Amirdosara M**, Hajibeygi R. *Diagnostic assessment of computed tomography (CT) in open globe injuries: a systematic review and meta-analysis*. Emergency Radiology. 2025 Oct;32(5):785-96.
- Hajiesmaeili M, **Amirdosara M**, Alavi Darazam I. *Review of the necessity and outcomes of management of diabetic ketoacidosis in the intensive care unit: a review study*. Quarterly Journal of Caspian Health and Aging. 2025 Sep 10;10(2):0-.
- Arani AR, Zangi M, Hajiesmaeili M, Kavand S, Oshidari B, Soori M, Ghazizadeh AH, Gerdfarmarzi SS, **Amirdosara M**. *Evaluating the therapeutic impact of magnesium citrate supplementation on neuropathic symptoms in diabetic patients with peripheral polyneuropathy; a randomized, double-blind, clinical trial study*. Immunopathologia Persa. 2025 Nov 4;12(1):43996-.
- Zangi M, Hajiesmaeili M, Mokhtari M, Goharani R, Tajaldin N, **Amirdosara M**. *Neurorecovery and Cerebral Hemodynamics in Patients Undergoing Transcranial Direct Current Stimulation with Disorders of Consciousness (DoC): A Systematic Review*. Archives of Anesthesia and Critical Care. 2025 Oct 18.
- Soufi R, Salamzadeh J, Darazam IA, **Amirdosara M**, Zangi M, Shabani M, Lotfollahi L, Sahraei Z. *Comparison of Pharmacokinetic/Pharmacodynamic Parameters and Clinical Outcomes of Vancomycin Administered in Two Different Dosage Regimens in Patients with Acute Kidney Injury*. Iranian Journal of Pharmaceutical Research: IJPR. 2025 Apr 19;24(1):e159089.
- Hosseini S, Alavi Darzam I, **Amirdosara M**, Zangi M, Sahraei Z. *Evaluating the effects of intravenous magnesium sulfate for prevention of colistin induced acute kidney injury: an open-label, placebo-controlled, block randomized clinical trial*. Naunyn-Schmiedeberg's Archives of Pharmacology. 2025 Apr;398(4):4559-70.
- Hajiesmaeili M, Goharani R, Zangi M, **Amirdosara M**, Mokhtari M. *Application of Transcranial Direct Current Stimulation in Neurocritical Care*. Archives of Anesthesia and Critical Care. 2025.
- Dabbagh A, Ariannik M, Madadi F, Nashibi M, Zangi M, **Amirdosara M**, Asgari S. *Neuroscience and Anesthesiology: Could Anesthesiologist in the Developing Countries Serve as the Main Applied/Clinical Neuroscientists*. Journal of Cellular & Molecular Anesthesia. 2025;10(10).
- Zangi M, Anar MA, **Amirdosara M**, Mokhtari M, Goharani R, Moghaddam SS, Rezaei O, Hashemiyazdi SH, Hajiesmaeili M. *Enhanced recovery after surgery (ERAS) protocol for craniotomy patients: a systematic review*. Anesthesiology and Pain Medicine. 2024 Nov 16;14(5):e146811.

- **Amirdosara M**, Hajiesmaeili M, Goharani R, Mokhtari M, Vafaei A, Zangi M. *The Impact of Olfactory Dysfunction on Post-Operative Cognitive Dysfunction and Delirium: A Systematic Review*. Journal of Cellular & Molecular Anesthesia. 2024;10(1).
- Badi KR, Hajiesmaeili M, Mokhtari M, Goharani R, **Amirdosara M**, Zangi M. *The interval between external ventricular drain (EVD) implantation and Time to mobilization in patients at the Neurosurgery ICU*. Turk Neurosurg. 2024 Jan 1;34(10.5137):1019-5149.
- Hasanzade A, Alibeigi E, Ghorbani F, Khalili A, Shojaei SP, Jamali M, Zangi M, **Amirdosara M**, Dezfouli MM. No. 2023-20: *Toxicity and Poisoning-Related Brain Death: A Critical Risk Factor for Pre-Recovery Cardiac Death in Donors*. International Journal of Organ Transplantation Medicine. 2023 Oct 1;14(4):94-5.
- Alavi Darazam I, Kazempour M, Pourhoseingholi MA, Hatami F, Rabiei MM, Javandoust Gharehbagh F, **Amirdosara M**, Hajiesmaeili M, Shabani M, Shokouhi S, Zangi M, Lotfollahi L. *Efficacy of hemoperfusion in severe and critical cases of COVID-19*. Blood purification. 2023 Jan 27;52(1):8-16.
- Sahraei Z, Panahi P, Solhjoughhah K, Mesbah M, Afaghi S, **Amirdosara M**, Salamzadeh J, Tarki FE, Darazam IA. *The efficacy of high-dose pulse therapy vs. low-dose intravenous methylprednisolone on severe to critical COVID-19 clinical outcomes: a randomized clinical trial*. Iranian Journal of Pharmaceutical Research: IJPR. 2023 Aug 26;22(1):e137838.
- Fallahzadeh M, Pourhoseingholi MA, Boroujeni MG, Besharati S, Mardani M, Shabani M, Shokouhi S, **Amirdosara M**, Hajiesmaeili M, Gachkar L, Zangi M, Roshan B. *Study of the effects of interferon β -1a on hospitalized patients with COVID-19: SBMU Taskforce on the COVIFERON study*. Journal of Medical Virology. 2022 Apr;94(4):1488-93.
- Ramezani M, Rezaei O, Darzam IA, Hajiesmaili M, **Amirdosara M**, Simani L, Aliaghaei A. *Altered serum and cerebrospinal fluid TNF- α , caspase 3, and IL 1 β in COVID-19 disease*. Caspian Journal of Internal Medicine. 2022;13(Suppl 3):264.
- Mokhtari M, **Amirdosara M**, Goharani R, Zangi M, Tafrishinejad A, Nashibi M, Dabbagh A, Sadeghi H, Nateghinia S, Hajiesmaeili M, Yousefi-Banaem H. *The predictive power of near-infrared spectroscopy in improving cognitive problems in patients undergoing brain surgeries: a systematic review*. Anesthesiology and Pain Medicine. 2022 Mar 6;12(1):e116637.
- Shabani M, Totonchi M, Rezaeimirghaed O, Gachkar L, Hajiesmaeili M, Khoshkar A, **Amirdosara M**, Saffaei A, Shokouhi S, Mardani M, Darazam IA. *Evaluation of the prophylactic effect of hydroxychloroquine on people in close-contact with patients with COVID-19*. Pulmonary Pharmacology & Therapeutics. 2021 Oct 1;70:102069.
- Fallahzadeh M, Pourhoseingholi MA, Besharati S, Boroujeni MG, Mardani M, Shabani M, Shokouhi S, **Amirdosara M**, Hajiesmaeili M, Gachkar L, Zangi M, Roshan B. *Efficacy of Interferon β -1a in Treatment of Hospitalized COVID-19 Patients; SBMU Taskforce on the COVIFERON Study*.

- Goharani R, Nateghinia S, Alibabaei A, Banar S, Hajiesmaeili M, Shafigh N, **Amirdosara M**, Zangi M, Samadian M. *Designing A Business Intelligence Framework Based On Patient Prioritization And Proposal Of Bed Allocation Business Intelligence Model*.
- Goharani R, Nateghinia S, Alibabaei A, Banar S, Hajiesmaeili M, Tafrishinejad A, Shafigh N, **Amirdosara M**, Nashibi M, Zangi M, Ahmadi S. *Determining The Factors Related To The Duration Of Hospitalization In The Intensive Care Unit Of Neurosurgery*.
- Yousefi Bh, Goharani R, Hajiesmaeili M, Tafrishinejad A, Zangi M, **Amirdosara M**, Nashibi M. *A Review Of Bispectral Index Utility In Neurocritical Care Patients*.
- Hajiesmaeili M, Simani L, Goharani R, **Asadollahi M**, Amirdosara M, Zangi M, Mokhtari M. *Dexmedetomidine In Neurocritical Care*. Journal Of Cellular & Molecular Anesthesia. 2020;5(5).
- Rezaei O, Niknazar S, **Amirdosara M**, Purnajaf S, Pakdaman H, Hajiesmaeili M, Simani L. *The Relationship between Platelet Volume Indices (PVIs) and Epileptic Seizure*. Journal of Otorhinolaryngology and Facial Plastic Surgery. 2019;5(1):1-5.
- Simani L, Oroei M, Sadeghi H, **Amirdosara M**, Chouhdari A, Rezaei O, Hajiesmaeili M. *Platelet indices for predicting patient outcomes in post-neurosurgical meningitis*.
- Farzanegan B, Haghighi M, Nikzad A, Khoshnam Z, **Amirdosara M**, Jamaati H, Hashemian SM. *Airway Management during MS-PDT Using I-GEL: A Case Report*. Archives of Critical Care Medicine. 2016 Feb 29;2(1).
- Ayatollahi V, Mirshamsi P, Behdad S, **Amirdosara M**, Vaziribozorg S. *Effect of oral gabapentin on haemodynamic variables during microlaryngoscopic surgery*. Anestezjologia Intensywna Terapia. 2014 Jan 1;46(1):17-22.
- Arani AR, Ghasemi Y, Sahraei Z, Zangi M, Oshidari B, Soori M, Kavand S, Abbasi Z, **Amirdosara M**. *Effect of oral magnesium citrate on blood pressure in type 2 diabetes: a single-blind, randomized, placebo-controlled clinical trial study*.
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Organized Workshops

- Attending the "**Teaching Method**" workshop from the empowerment workshop series of Shahid Beheshti University of Medical Sciences
- Attending the "**Interdisciplinary research method of the Quran and health**" workshop from the series of empowerment workshops at Shahid Beheshti University of Medical Sciences
- Attending a three-day workshop on "**Common Research Methods In Medical Sciences**" held by the Hearing Disorders Research Center at Loghman Hospital.