



First Name: Shahnam

Last Name: Sedigh Maroufi

Academic Degree: Associate Professor

Department:

- Anesthesia, School of Allied Medicine
- Joint appointment in Department of Medical Education, School of Medicine

University: Iran University of Medical Sciences

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Educational Background:

Master's Degree: Anesthesia, School of Nursing, Iran University of Medical Education

PhD Degree: Medical Education, School of Medicine, Iran University of Medical Education

Certificates:

- Invention of an IV cannula equipped with a warning system to prevent accidental arterial injection (patent code: 73482), School of Allied Medicine, Tehran University of Medical Sciences, 2011
- First place in the PhD thesis in Medical Education, Shahid Motahari Educational Festival, 2017
- Exemplar university professor in "Research in Education" section, Dr. Vosough Educational Festival, 2017

Awards, Grants, Scholarships:

Silver Medal at the First Invention and Innovation Festival, School of Allied Medicine, Tehran University of Medical Sciences 30 Oct. 2013

Scholarly Papers Published:

Title	Journal	Year
An investigation of contamination with nitrous oxide (N ₂ O) in operating and recovery rooms atmosphere	Razi Journal of Medical Sciences	2004
An investigation of contamination with nitrous oxide in the pediatric operating rooms of the hospitals of Tehran, Iran and Shahid Beheshti Universities of Medical Sciences	Razi Journal of Medical Sciences	2007
Nitrous oxide levels in operating and recovery rooms of Iranian hospitals	Iranian Journal of Public Health	2010
The effect of work stress, coping strategies, resilience and mental health on job satisfaction among anesthesia technicians	Journal of Fundamentals of Mental Health	2011
Nitrous oxide levels in operating and recovery rooms of Iranian hospitals	Iranian J Public Health	2011
The comparison of PCR technique and API-20E kit with the conventional biomedical methods for the identification of salmonella species in laboratory	Medical Laboratory Journal	2012
Prioritizing the factors influencing effective teaching from the viewpoint of students: the use of analytical hierarchy process (AHP)	Iranian Journal of Medical Education	2013
Study of most important factors influencing the effectiveness of teaching from viewpoint of graduate students: AHP model approach	The Journal of Medical Education and Development	2014
Analysis of structural relationships of variables associated with evaluation of teaching by students in medical education	Iranian Journal of Medical Education	2015
Opinions of faculty members on competency – based behavioral and Social Sciences curriculum components to be integrated in md program curriculum : A Qualitative study	Medical Journal of the Islamic Republic of Iran	2016
Integrating behavioral and social sciences components into a competency-based MD program curriculum: A qualitative study on opinions of faculty members	Medical Journal of the Islamic Republic of Iran	2017
Integrating behavioral and social sciences components into a competency-based MD program curriculum: A qualitative study on opinions of faculty members	Med J Islam Repub Iran	2017
Diabetes and foot burns	Annals of Burns and Fire Disasters	2018

Analysis of costs related to the educational activities of paramedical students in independent hospitals of Iran University of Medical Sciences	Journal of Iran University of Medical sciences	2018
The importance of education on disasters and emergencies: a review article	Journal of Education and Health Promotion	2019
Tissue expander: review of indicators, results and outcome during 15 years' experience	Burns	2019
Dose ginger have preventive effects on PONV- related eye surgery? Clinical trail	Anesthesiology and pain medicine	2019
Designing and making a test tool for direct observation of practical skills for the clinical examination of voice disorders of speech therapy students	Journal of Iran University of Medical sciences	2019
Investigating the effect of pop quizzes and educational workshops on the test anxiety of anesthesia technology students	Journal of Iran University of Medical sciences	2019
Design and psychometric test instrument of direct observation of skills to evaluate the clinical skills of stuttering in speech therapy students	Journal of Iran University of Medical sciences	2019
A comparative study of the level of life expectancy in incoming students compared to the final year students of the Paramedical Faculty of the University of Iran in 2018	Journal of Iran University of Medical sciences	2019
Factors affecting the quality of theoretical and clinical education in the field of operating room from the perspective of students and faculty members of Tehran University of Medical Sciences	Journal of Iran University of Medical sciences	2019
Evaluation of students' academic counseling system from the students' point of view in Iran University of Medical Sciences (academic year 2019 - 2020).	Journal of Iran University of Medical sciences	2019
A review of the effects of the anesthetic gas nitrous oxide on the immune system: a starting point for future experiences	Immunopharmacology and immunotoxicology	2020
Lower Extremity Burn, Complication, and Outcome	Journal of Burns Care and Research	2020
Pregnancy and Burns: Guidelines for safe management	Burns	2020
Tocilizumab for treatment patients with COVID-19: Recommended medication for novel disease.	International immunopharmacology	2020
A NorouziLarge or Small Panel in the Delphi Study? Application of Bootstrap Technique.	- Journal of Evolution of Medical and Dental Sciences	2020
Investigating the effectiveness of chamomile on reducing the incidence and severity of nausea and vomiting after middle ear surgery in the patients of Rasool Akram Hospital in 1877	Journal of Iran University of Medical sciences	2020

Explaining the opinion of the professors of Iran University of Medical Sciences regarding the exam question bank and explaining the ways to motivate students	Journal of Iran University of Medical sciences	2020
Presenting a comprehensive model for recruiting and accepting students in the postgraduate level of all medical sciences in universities of medical sciences	Journal of Iran University of Medical sciences	2020
Design and psychometrics of a direct observation skill test tool to assess airway management skills	Journal of Iran University of Medical sciences	2021
Comparing the effects of isoflurane, propofol and the combination of isoflurane and propofol on the incidence and severity of nausea and vomiting after middle ear surgery.	Journal of Iran University of Medical sciences	2021
Evaluation of the degree of compliance of the educational program of the field of medical biotechnology, approved by the Ministry of Health, Medicine and Medical Education, with the beneficiaries of medical and clinical sciences in the country.	Journal of Iran University of Medical sciences	2021
Reflection on the “national scientific Olympiad for medical sciences students”: Re-emphasizing the role of reward and encouragement in medical education	Journal of Medical Education	2023
Mind mapping in recalling and retrieving core contents in anesthesia technology students	Journal of Education and Health Promotion	2023
Study of Compliance with the Guidelines for Registration and Labeling of Anesthesia Drugs in the Operating Room	Journal of Payavard Salamat	2024
The importance of pre-anesthetic evaluation in patient safety: A systematic review	Archives of Anesthesiology and Critical Care	2024
Effectiveness of multimedia-based teaching on the learning rate of anesthesia technologist students in the field of central venous pressure monitoring: A comparative study	Journal of Education and Health Promotion	2024
The Effect of Ketamine Administration on the Incidence of Delirium After Coronary Artery Bypass Graft Surgery: A Scoping Review	Journal of Cellular and Molecular Anesthesia	2024
Investigating the effect of teaching assistants (TA) on the level of satisfaction of undergraduate anesthesia students with training in the internship unit	Journal of Education and Health Promotion	2024
Using the mind map method in medical education, its advantages and challenges: A systematic review	Journal of Education and Health Promotion	2024
Shivering Management in Spinal Anesthesia: Evaluating the Role of Ketamine: A Narrative Review	Archives of Anesthesiology and Critical Care	2025

Comparison of the Effectiveness of Multimedia and Face-to-Face Education on the Level of Preoperative Anxiety of Patient Undergoing Coronary Artery Bypass Graft (CABG)	Archives of Anesthesiology and Critical Care	2025
Revolutionizing Post Anesthesia Care Unit with Artificial Intelligence: A Narrative Review	Archives of Anesthesiology and Critical Care	2025
Development and validation of educational competencies Required for anesthesia technologists: A developmental study	Journal of Education and Health Promotion	2025
Post-Anesthesia Care Unit (PACU) readiness predictions using machine learning: a comparative study of algorithms	BMC Medical Informatics and Decision Making	2025

Conference Presentations (Short Communication, posters and etc.):

Title	Conference Name	Type of Presentation	Place	Date
Interpretation of arterial blood gases and hemodynamic monitoring in ICU	14 th International Congress on Cardiovascular Updates	Oral	Hall of Imam, Imam Khomeini Hospital complex (IKHC)	2001
Control and prevention of hospital infections	National Congress on Controlling and Preventing Hospital Infections	Oral	Negin Cultural Complex	2003
Arterial blood gas analysis in a modern way	3 rd Congress of Iranian Society of Cardiovascular Surgeons	Oral	IRIB International Conference Center	2003
Clinical interpretation of arterial blood gas analysis and the use of ventilators	Congress on Heart and Modern Skills	Oral	Ramsar, Iran	2005
Warning signs in patients undergoing surgery in PACU	3rd Scientific Congress of Iranian Association of Surgeons	Oral	Razi Conference Center, IUMS, Tehran	2005
An investigation of contamination with nitrous oxide in operating and recovery rooms atmosphere	8 th Biennial Congress of Asian & Oceanic Society of Regional Anesthesia Pain Medicine	Poster	Chiba, Japan	2005
Lung physiotherapy in patients admitted to the ICU	4th International Congress on Intensive Medical Care	Oral	Razi Conference Center, IUMS, Tehran	2007

Title	Conference Name	Type of Presentation	Place	Date
Initial setting of mechanical ventilators	5 th International Congress on Intensive Medical Care	Oral	Shahid Beheshti University of Medical Sciences	2007
Cardiopulmonary and cerebral resuscitation (CPCR)	5 th Congress of Iranian Society of Cardiovascular Surgeons in collaboration with the German Society of Surgeons	Oral	Razi Conference Center, IUMS, Tehran	2007
Successful weaning of patients from mechanical ventilator	5 th Congress of Iranian Society of Cardiovascular Surgeons in collaboration with the German Society of Surgeons	Oral	IRIB International Conference Center	2007
Educational challenges (for anesthetists)	Meeting of Allied Medicine Students	Oral	Yasuj University of Medical Sciences	2012
An overview of Bachelor's degree in anesthesia around the word	12 th International Congress of Anesthesiology, Intensive Care and Pain Management	Poster	International Conference Center of Niroo Institute	2015
Passive leg raise (PLR) during cardiopulmonary resuscitation	12 th International Congress of Anesthesiology, Intensive Care and Pain Management	Poster	International Conference Center of Niroo Institute	2015
What is the role of nanotechnology in anesthesia?	12 th International Congress of Anesthesiology, Intensive Care and Pain Management	Poster	International Conference Center of Niroo Institute	2015
Pulse oximetry monitoring at the forehead may be better?	12 th International Congress of Anesthesiology, Intensive Care and Pain Management	Poster	International Conference Center of Niroo Institute	2015
The bachelor of science anesthesia and head departments of anesthesia	12 th International Congress of Anesthesiology,	Poster	International Conference	2015

Title	Conference Name	Type of Presentation	Place	Date
satisfaction of anesthesia graduates about playing the professional role as anesthetist of the bachelor alumni of anesthesia	Intensive Care and Pain Management		Center of Niroo Institute	
Satisfaction of the heads of departments with the efficiency and effectiveness of the bachelor alumni of anesthesia	12 th International Congress of Anesthesiology, Intensive Care and Pain Management	Poster	International Conference Center of Niroo Institute	2015
Satisfaction of bachelor graduates of anesthesia from Iran university of medical sciences with the training course and curriculum allude to professional roles	12 th International Congress of Anesthesiology, Intensive Care and Pain Management	Poster	International Conference Center of Niroo Institute	2015
Hypoxia and clinical interpretation of arterial blood gases	Faculty Seminar	Oral	School of Allied Medicine	2018
Mechanical ventilation updates	Continuing education course of Social Insurance Organization	Oral	Fayyaz Bakhsh Hospital	29 June 2018
Practical points of respiratory disorders	International Congress on Cardiovascular Updates	Oral		12 Sep. 2018

Teaching Experience:

Examiner of the following dissertations/theses:

Dissertation/Thesis Title	Name of Student	Degree	Date
Presentation of a mobile-based learning model	Hamid-reza Kouhestani	PhD Medical Education	21.Apr.2018
The impact of mental-simulation-based education in the spinal surgery operations on clinical skills of the 8 th semester students of Iranian University of Medical Sciences in the Academic Year 2017-2018	Afarin Arab Khazaei	MSc Operating Room Technology	7 July 2018

Dissertation/Thesis Title	Name of Student	Degree	Date
Developing gamification of diabetic foot care for specialist care providers to diabetics (pre-defense)	Maryam A'laa	PhD Medical Education	17 July 2018
Designing and testing the reliability of professionalism in clinical medicine teachers: A combined sequential exploratory study (pre-defense)	Hengameh Habibi	PhD Medical Education	28 July 2018
Reliability testing and localization of measuring tools in the operating room's educational milieu (STEEM) for surgical technologists in Iran	Sahar Karami	MSc Operating Room Technology	14 Aug. 2018
Designing a model for the performance evaluation of the Center for Study and Medical Education Development of Iran University of Medical Sciences using the excellence framework	Mansoureh Taghavi-nia	PhD Medical Education	2 Sep. 2018
Devising a spirituality model in Iranian medical education	Zahra Nahar-dani	PhD Medical Education	17 Sep. 2018
An investigation of the observance of preoperative care standards in elderly patients referring to the operating room in the hospitals of Iranian University of Medical Sciences in 2017-2018.	Sheida Ahmadi	MSc Operating Room Technology	7 Oct. 2018
Devising a professional identity model for general practitioners (School of Medicine)	Maryam Shahbi	PhD	21 Oct. 2018
Designing a motivational model for the virtual education development in Medical Sciences Universities of Iran (Pre-Defense, School of Medicine)	Mohammad Hassan Keshavarzi	PhD Medical Education	29 Oct. 2018
The relationship between the leadership styles of the operating room supervisors with job satisfaction and the self-efficacy of the operating room technologists in the hospitals	Neda Rashidi	MSc Operation Room Technology	15 Dec. 2018

Dissertation/Thesis Title	Name of Student	Degree	Date
affiliated to Iran University of Medical Sciences			
Explanation of the process of forming clinical empathy skills in medical students	Nahid Ahmadian	PhD	18 Dec. 2018

Advisor for the following dissertations/theses:

Dissertation Title	Name of Student	Degree	Date
Assessing the reliability sufficiency of the academic success and failure questionnaire from the students viewpoints at Iran University of Medical Sciences	Ali Yeganeh	MSc Medical Education	22 Sep. 2018

Workshop Teaching Experience:

Presentation Title	Workshop Title	Presentation Type	Date
Clinical interpretation of the arterial blood gases	Orthopedic emergencies	Oral	7 July 2018

Workshop Participation:

Workshop Title	Place	Date
Primary Health Care	Iran University of Medical Sciences	7-9 July 1990
Research Methods	Iran University of Medical Sciences	30 Dec. 2000-4 Jan. 2001
12 th Congress of Iranian Heart Association	Tehran	2000
Learning Skills	Iran University of Medical Sciences	20 May 2002
8 th Biennial Congress of Asian & Oceanic Society of Regional Anesthesia Pain Medicine	Chiba, Japan	2005

Workshop Title	Place	Date
Management and Organizational Behavior	Iran University of Medical Sciences	23-24 Aug. 2006
Creativity and Problem Solving	Iran University of Medical Sciences	30-31 Aug. 2006
Understanding the issues of Administrative Transformation	Iran University of Medical Sciences	14-28 Sep. 2006
An Introduction to Medical Education	Iran University of Medical Sciences	2009
Real Time PCR	Iran University of Medical Sciences	7 June 2009
Institutional Evaluation	Iran University of Medical Sciences	4 Nov. 2009
Medical Education	Iran University of Medical Sciences	2-6 Jan. 2010
Educational Ranking	Iran University of Medical Sciences	16 Apr. 2010
Conference on Innovation	Tehran University of Medical Sciences	2011
Curriculum Instructional Design Lesson Plan	Tehran University of Medical Sciences	2011
How to Merge Evaluation Scores	Tehran University of Medical Sciences	2011
Action Research	Tehran University of Medical Sciences	2011
Understanding Role-Playing Technique in Education and Evaluation	School of Allied Medicine, Tehran University of Medical Sciences	2011
Translation of Transformation and Innovation Packages in Medical Education	Iran University of Medical Sciences	2014
Grounded Theory	Iran University of Medical Sciences	2015
How to Develop an Operational Plan	Iran University of Medical Sciences	2016
Curriculum Design	Iran University of Medical Sciences	2017
Understanding KTEC and Registration of the Pertinent Research Projects	Iran University of Medical Sciences	2018
Diagnosis, Treatment, and Prognosis of Cancer with New Medical Technology Based on NCCN Guidelines	Iran University of Medical Sciences School of Allied Medicine, Iran University of Medical Sciences	2018

Research Experience:

Research Project	Institute	Approval date	Duration (month)	Status
An investigation of contamination with nitrous oxide in operating and recovery rooms atmosphere of the hospitals of Iran University of Medical Sciences	Iran University of Medical Sciences	2003	15	Finished
The relation between work stress, coping strategies, resilience and mental health with job satisfaction among anesthetists working in the operating room	Iran University of Medical Sciences	2008	12	Finished
Prioritizing the factors influencing effective teaching from the viewpoints of master's students at the School of Allied Medicine, Iran University of Medical Sciences: the use of analytical hierarchy process (AHP)	Iran University of Medical Sciences	2012	7	Finished
Quantitative and qualitative study of factors related to the evaluation of the professor by their students in medical education based on the structural equations model	Iran University of Medical Sciences	2013	6	Finished
Comparison of the effects of ondansetron and oral ginger on the incidence and severity of postoperative nausea and vomiting in patients undergoing eye surgery	Iran University of Medical Sciences	2013	8	Finished
Assessment of the continuous bachelor program of anesthesia of Iran University of Medical Sciences	Iran University of Medical Sciences	2015	8	In process
Assessing the current status of student evaluation system in the affiliated schools of Iran University of Medical Sciences	Iran University of Medical Sciences	2016	6	In process
Determining reliability of P-MEX questionnaire to use it in assessing the professional qualifications of the assistants at Iran University of Medical Sciences in 2015	Iran University of Medical Sciences	2016	12	In process

Scholarly Journal Section Editor:

Scholarly Journal Editorial Member:

Scholarly Journal Reviewer:

Publications:

Book Chapter Published:

Books Published:

- Marino ICU, Andisheh Rafie Publications, Tehran, 2014
- Anesthesia Handbook (in Persian), Andisheh Rafie Publications, Tehran, 2017
- Reference Book for Multiple Mini-Interview (MMI) of the Ministry of Health and Medical Education, Arseh Publications, Tehran, 2017
- A Review of Anesthesia Methods for Anesthesia Students, Hadaf Publications, Tehran, 2018
- Principles And Methods Of Pain Management In Tabular Manner, Hadaf Publications, Tehran, 2018
- Anesthesia in Table, IUMS Publications, Tehran, 2019
- 2018 Anesthesia, Andisheh Rafie Publications, Tehran, 2020
- Care of Emergence from Anesthesia in the recovery unit, Heidari Publications, 2021

Other Work Experience:

Membership in Academic Associations, Societies and Committee:

Name	Position	Place of Operation	Duration of Membership	
			From	To
Evaluating Committee on the School of Allied Medicine and Basic Medical Sciences	Chairman	Iran University of Medical Sciences	1994	2007

Name	Position	Place of Operation	Duration of Membership	
			From	To
Education Quality Improvement Committee	Committee member	School of Allied Medicine, Iran University of Medical Sciences	1995	Present
Educational Council	Committee member	School of Allied Medicine, Iran University of Medical Sciences	1998	Present
Graduate Education Committee	Committee member	School of Allied Medicine, Iran University of Medical Sciences	2003	Present
Committee on Quality of Education and Employment	Committee member	Ministry of Health and Medical Education	2004	2006
Strategic Committee and Office of Quality Improvement of the School of Allied Medicine	Secretary	School of Allied Medicine, Iran University of Medical Sciences	2005	2006
Specialize Allied Medicine Committee	Committee member	Ministry of Health and Medical Education	2005	Present
Committee on the Curriculum Evaluation and Design of the Bachelor Degree in Anesthesia	Secretary	Ministry of Health and Medical Education	2006	Present
Curriculum Design Committee	Chairman	School of Allied Medicine, Iran University of Medical Sciences	2009	Present
IUMS Medical Ethics Council	Member	Iran University of Medical Sciences	2015	Present
Evaluation Committee on the Medical Education Conference and Shahid Motahari Festival	Member	Razi Conference Center, Iran University of Medical Sciences	2015	Present
Research Center for Medical Education	Member	Iran University of Medical Sciences	2018	
Educational Council of IUMS	Member	Iran University of Medical Sciences	2018	
Evolution and Innovation Sectors for the Promotion of Assessment System and Testing in Medical Sciences	Secretary	Iran University of Medical Sciences	2018	

Name	Position	Place of Operation	Duration of Membership	
			From	To
Supervising Committee on Students Scientific Association	Secretary	School of Allied Medicine, Iran University of Medical Sciences	2018	
Committee on the Anesthesia Curriculum Development and Assessment	Secretary	Ministry of Health and Medical Education	2018	
The Jury of the 12 th Shahid Motahari Educational Festival	Member		2018	
Scientific Committee on Transition Towards 3 rd Generation University	Member	School of Allied Medicine, Iran University of Medical Sciences	2018	
Referee of 20 articles in the Medical Education Congress	Referee	19 th National Congress on Medical Education and 11 th Shahid Motahari Educational Festival	2018	

Executive Positions:

Position	Institute	Date	
		From	To
Head of Anesthesia Department	School of Allied Medicine, Iran University of Medical Sciences	2000	Present
Team Member for Establishing Alborz University of Medical Sciences	Alborz University of Medical Sciences	2006	
Anesthesia Curriculum Development Officer (for Continuous and Non-continuous BSc degrees)	Ministry of Health and Medical Education	2006	2007
Deputy for Finance and Administration	School of Allied Medicine, Iran University of Medical Sciences	2006	2009
Committee Member of ICU Nursing Curriculum Development (Non-continuous MSc)	Ministry of Health and Medical Education	2007	2008
Committee Member of NICU Nursing Curriculum	Ministry of Health and Medical Education	2008	2009

Position	Institute	Date	
		From	To
Development (Non-continuous MSc)			
Director of Education Development Office (EDO)	School of Allied Medicine, Iran University of Medical Sciences	2009	Present
Committee Member of Medical Emergencies Curriculum Development (Non-continuous BSc)	Ministry of Health and Medical Education	2009	2010
Deputy for Education and Students Affairs	School of Allied Medicine, Iran University of Medical Sciences	2009	2010
Deputy for Culture and Students Affairs	School of Allied Medicine, Tehran University of Medical Sciences	2010	2011
Scientific Secretary of National Congress on Electronic Learning (Students Division)	Razi Conference Center, Iran University of Medical Sciences	2015	-
Executive Secretary of Evolution and Innovation Sector of Promotion of Medical Assessment and Testing System	Iran University of Medical Sciences	2015	Present
Scientific Secretary of the International Congress on Anesthesiology (Allied Medicine Section)	Iranian Society of Anesthesiology and Critical Care	2015	-
Officer for Establishing IUMS Testing Center	Iran University of Medical Sciences	2017	
Director of IUMS Testing Center	Iran University of Medical Sciences	2017	Present
Officer for Curriculum Development of Graduate Anesthesia	Ministry of Health and Medical Education	2017	
Deputy for Education	School of Allied Medicine, Iran University of Medical Sciences	2018	
Head of Scientific Olympiad for University Students in Medical Education	11 th Scientific Olympiad for University Students in Medical Sciences	2018	
Officer for Curriculum Review of Anesthesia (Continuous BSc)	Ministry of Health and Medical Education	2018	
Administering Tests for the Employment Testing	National Organization of Educational Testing	2018	

References Available Upon Request