

Personal Resume

Personal Information

First and Last Name: Sina Ghasemi
Employment Status: Committed Faculty Member
Educational Department: Operating Room
Academic Rank: Instructor
Contact Number: 08138381039
Address: Hamadan, Shahid Fahmideh Boulevard, Hamadan University of Medical Sciences, School of Paramedical Sciences
Email: sinaghasemi19980@gmail.com



Educational Information

Specialized or Professional Doctorate:

Thesis or Dissertation Title:

Year of Graduation

Master's Degree: Master of Science in Operating Room Technology, Hamadan University of Medical Sciences

Thesis or Dissertation Title: A comparative study of the effectiveness of mastery-based and team-based teaching methods in the clinical environment on the clinical competence and clinical evaluation of the operating room students of Hamadan University of Medical Sciences

Year of Graduation : 2024

Bachelor's Degree: Bachelor of Science in Operating Room, Hamadan University of Medical Sciences

Year of Graduation: 2022

Associate's Degree:

Year of Graduation

Executive Records:

1. Executive Manager of the Avicenna Journal of Care and Health in Operating Room, from 2025 to present.
2. Secretary of the EDO (Educational Development Office) Evaluation Committee, School of Paramedical Sciences, Hamadan, from 2025 to present.
3. Member of the EDO (Educational Development Office) Evaluation Committee, School of Paramedical Sciences, Hamadan, from 2025 to present.
4. Member of the EDO (Educational Development Office) Accreditation and Clinical Affairs Committee, School of Paramedical Sciences, Hamadan, from 2025 to present.
5. Secretary of the Student Research Committee, School of Paramedical Sciences, Hamadan, from 2022 to 2024.
6. Member of the Central Council of the Student Research Committee, Hamadan University of Medical Sciences, from 2022 to 2024.
7. Faculty Member of the Operating Room Department, School of Paramedical Sciences, Hamadan University of Medical Sciences, from 2025 to present.

Academic and Research Achievements:

1. Ranked 3rd in the country in the Master's entrance exam for the Operating Room field in 2022.
2. Defended Master's thesis with a score of 20 (out of 20).

3. Recognized as an elite by the National Elites Foundation of Iran and granted substitute service project facilities.

4. Membership in the Office of Talented Students at Hamadan University of Medical Sciences as the top student (GPA) among incoming Master's students.

5. Achieved an overall GPA of 19.14 (out of 20) in the Master's program.

6. Named Outstanding National Top Researcher (Student Section) by the National Research Committee of the Ministry of Health, achieving a score of 138.5.

Educational Records:

Teaching Records:

• Teaching specialized theoretical/practical courses in the Operating Room field at Hamadan University of Medical Sciences from 2025 to present.

• Collaboration with Islamic Azad University, Hamadan Branch, teaching internship units for the Operating Room field from 2022 to 2024.

No.	University	Degree/Field	Type	Course Name
1	Hamadan Univ. of Medical Sciences	B.Sc. Operating Room	Theoretical	Pediatric and Neonatal Operating Room Technology and Care
2	Hamadan Univ. of Medical Sciences	B.Sc. Operating Room	Theoretical	Hygiene in the Operating Room
3	Hamadan Univ. of Medical Sciences	B.Sc. Operating Room	Theoretical	Emergency and Trauma Operating Room Technology and Care
4	Hamadan Univ. of Medical Sciences	B.Sc. Operating Room	Theoretical/Practical	Principles and Techniques of Scrub and Circulating Roles
5	Hamadan Univ. of Medical Sciences	B.Sc. Operating Room	Theoretical	Gynecological and Urological Operating Room Technology and Care
6	Hamadan Univ. of Medical Sciences	B.Sc. Operating Room	Theoretical	Medical Emergencies
7	Hamadan Univ. of Medical Sciences	B.Sc. Operating Room	Theoretical	Principles of Sterilization and Disinfection
8	Hamadan Univ. of Medical Sciences	B.Sc. Operating Room	Theoretical	Introduction to Surgical Technology
9	Hamadan Univ. of Medical Sciences	B.Sc. Radiology	Theoretical	Public Health
10	Hamadan Univ. of Medical Sciences	M.Sc. Operating Room	Practical	Internship: Introduction to Specialized Surgical Methods 2
11	Hamadan Univ. of Medical Sciences	M.Sc. Operating Room	Practical	Internship: Introduction to Advanced Equipment and Instruments

12	Hamadan Univ. of Medical Sciences	B.Sc. Operating Room	Practical	Internship: Behavior in the Operating Room
13	Hamadan Univ. of Medical Sciences	B.Sc. Operating Room	Practical	Internship in the Field: Gastroenterology and Endocrine Surgery
14	Hamadan Univ. of Medical Sciences	B.Sc. Operating Room	Practical	Internship in the Field: Orthopedics
15	Hamadan Univ. of Medical Sciences	B.Sc. Operating Room	Practical	Internship in the Field: Urology
16	Islamic Azad Univ., Hamadan	B.Sc. Operating Room	Practical	Internship: Behavior in the Operating Room
17	Islamic Azad Univ., Hamadan	B.Sc. Operating Room	Practical	Internship: Circulating and Scrub Role
18	Islamic Azad Univ., Hamadan	B.Sc. Operating Room	Practical	Internship: Surgical Techniques 1
19	Islamic Azad Univ., Hamadan	B.Sc. Operating Room	Practical	Internship: Clinical Skills
20	Islamic Azad Univ., Hamadan	B.Sc. Operating Room	Practical	Internship: Recovery
21	Islamic Azad Univ., Hamadan	B.Sc. Nursing	Practical	Internship in the Field of Nursing - Operating Room Unit

Theses:

Research Background

Research Interests:

- Research in the field of modern surgical techniques
- Research in the field of preoperative and postoperative care
- Research in the field of medical education

Published Books:

1. MSE Operating Room Master's Entrance Exam Book (Ministry of Health) – Published by Jameenegar Publications
2. Alexander 2022 (Summary of Patient Care in Surgery) along with Master's Exam Questions – Published by Karman Publications

Published articles:

- 1- Effect of intraperitoneal bupivacaine vs magnesium sulfate on early postoperative outcomes after laparoscopic sleeve gastrectomy: a randomized clinical trial. S Ghasemi, B Imani, N Shabani, E Ayubi, BS Shafigh - Perioperative Medicine, 2025

- 2- The effects of team-based and mastery-based learning on the student's clinical competence and the results of clinical evaluation: A quasi-experimental study among operating room nursing students. S Ghasemi, B Imani, M Torabi, E Ayubi - Journal of Education and Health Promotion, 2025
- 3- Adherence to radiation protection principles in the clinical environment among anesthesia and operating room nursing students: implications for educational interventions. S Ghasemi, H Khosravi, B Imani, N Shabani - The Open Nursing Journal, 2025
- 4- Prevalence of musculoskeletal disorders and its association with the work ability index among staff working in the operating room of governmental hospitals in hamedan, iran. S Ghasemi, B Imani, R Rahmani, S Zandi - Iranian Journal of Ergonomics, 2024
- 5- Roles of two learning methods in the perceived competence of surgery and quality of teaching: a quasi-experimental study among operating room nursing students. S Ghasemi, B Imani, A Jafarkhani, H Hosseinefard - Journal of Advances in Medical Education & ..., 2024
- 6- The effects of team-based and task-based learning methods in the clinical area on the results of clinical evaluation in operating room students. S Ghasemi, B Imani, A Jafarkhani, H Hosseinefard - Navid No, 2024
- 7- Jackknife versus Lithotomy position for hemorrhoidectomy surgery: a randomized controlled trial. S Ghasemi, B Imani, A Jafarkhani, A Karimi, A Yamini - Scientific Journal of Kurdistan University of Medical ..., 2024
- 8- Operating Room Nurses' Lived Experience of the Challenges Arising after Admitting Emergency Patients: A Phenomenological Study. Payavard Salamat, 2024
- 9- Artificial Intelligence-Supported Applications in Radiotherapy Treatment Planning and Dose Optimization. S Ghasemi, H Khosravi - Frontiers in Biomedical Technologies, 2024
- 10- Operating Room Nurses' Lived Experience of the Phenomenon of "Retained Surgical Items" In Patients' Bodies: A Phenomenological Study. A Jafarkhani, B Imani, S Ghasemi - Navid No, 2024
- 11- The impact of psychological empowerment of nurses on their job involvement: a descriptive correlational study. S Ghasemi, M Torabi, MM Jamasbi - The Open Nursing Journal, 2024
- 12- Effect of Anesthesia Type on Pain and Hemodynamic Parameters in Cesarean Section Surgery: Randomized Controlled Trial. S Mohammadi, B Imani, S Ghasemi, B Shalmashi – 2024
- 13- Effect of postoperative trendelenburg positioning in reducing shoulder pain after laparoscopic cholecystectomy. A Jafarkhani, B Imani, S Ghasemi, B Karkhanei... - Clin Med, 2023

Research Projects:

1. Predicting Factors Influencing the Duration of Cardiopulmonary Bypass in Coronary Artery Bypass Grafting Surgery Using Machine Learning Methods.
2. Predicting Factors Affecting the Duration of Intubation in Diabetic Patients After Coronary Artery Bypass Grafting Surgery Using Machine Learning Methods.
3. Explaining the Challenges Related to Contact Dermatitis Induced by Alcohol and Betadine and Improving the Skin Health Status of Operating Room Personnel: An Action Research Study.
4. Explaining the Factors Affecting the Non-Safe Use of Tourniquet in Elective Limb Surgeries and Providing Solutions: An Action Research Study.

- 5. Explaining the Factors Affecting the Non-Implementation of the Safe Surgery Checklist in the Operating Room and Providing Solutions: An Action Research Study.**
- 6. The Effect of Hybrid Team-Based and Simulation Training on Non-Technical Skills of Operating Room Students: A Quasi-Experimental Study.**
- 7. Investigating the Relationship between Psychological Empowerment and Moral Distress and Moral Resilience in B.Sc. Operating Room Students of Hamadan University of Medical Sciences in 2025.**
- 8. Investigating the Effect of Carbon Dioxide Insufflation Rate on Hemodynamic Changes During Surgery and Postoperative Shoulder Pain in Patients Candidates for Laparoscopic Sleeve Gastrectomy: A Randomized Clinical Trial.**
- 9. Comparing the Effectiveness of Intraperitoneal Lavage with Normal Saline Containing Bupivacaine, Normal Saline Containing Magnesium Sulfate, and Normal Saline Alone, on Postoperative Complications in Patients Candidates for Laparoscopic Sleeve Gastrectomy: A Randomized Clinical Trial.**
- 10. Explaining the Challenges Arising from Admitting Emergency Patients to the Operating Room and Providing Solutions: An Action Research Study.**
- 11. Investigating the Level of Knowledge, Awareness, and Practice of Final Year Operating Room and Anesthesia Students of Hamadan University of Medical Sciences Regarding Protection Against Ionizing Radiation in Radiological Tests During Surgery and Its Relationship with Personal Factors and Their Attitude Towards Their Field of Study and Future Career.**
- 12. A Comparative Study of the Effectiveness of Two Educational Methods, Mastery-Based and Team-Based Learning in the Clinical Environment, on Clinical Competence and Clinical Evaluation of Operating Room Students of Hamadan University of Medical Sciences.**
- 13. A Comparative Study of the Effectiveness of Task-Based and Team-Based Learning Methods on Perceived Surgical Competence, Quality of Teaching from the Students' Perspective, and Clinical Skills of Operating Room Technology Students of Hamadan University of Medical Sciences.**
- 14. Explaining the Lived Experience of Operating Room Nurses of the Phenomenon of "Retained Surgical Items" in Patients' Bodies: A Phenomenological Study.**
- 15. A Comparative Study of the Effect of General Anesthesia and Spinal Anesthesia on the Process and Complications of Cesarean Section Surgery in Pregnant Patients Referred to Fatemeh Hospital, Hamadan, in 2022-2023.**
- 16. A Comparative Study of the Effect of Supine and Trendelenburg Positions After Surgery on Reducing Shoulder Pain in Patients Undergoing Laparoscopic Cholecystectomy at Besat Hospital, Hamadan, in 2022-2023.**
- 17. A Comparative Study of the Effect of Jackknife and Lithotomy Positions on the Process and Complications of Hemorrhoidectomy Surgery in Patients Referred to Besat Hospital, Hamadan, in 2022-2023.**
- 18. A Study of the Status of Musculoskeletal Disorders and Its Relationship with Psychosocial Factors and Work Ability in Staff Working in the Operating Rooms of Hospitals Affiliated with Hamadan University of Medical Sciences (2022).**
- 19. Investigating the Psychological Empowerment of Nurses and Its Relationship with Their Job Involvement in Hospitals Affiliated with Hamadan University of Medical Sciences in 2022.**
- 20. Investigating the Level of Observation of Patient Privacy by Operating Room Staff from the Perspective of Patients Admitted to Besat Hospital, Hamadan.**

Participation in Conferences and Meetings:

- **Poster presentation at the 24th National Congress and 10th International Annual Congress of Research and Technology of Medical Sciences Students of the Country titled (Prevalence of Musculoskeletal Disorders and Its Relationship with Work Ability in Staff Working in the Operating Rooms of Governmental Hospitals in Hamadan.)**
- **Electronic poster presentation at the 24th National Congress and 10th International Annual Congress of Research and Technology of Medical Sciences Students of the Country titled (Assessment of Perceived Work Ability Status and Its Relationship with Personal and Occupational Factors in Staff Working in the Operating Rooms of Governmental Hospitals in Hamadan.)**
- **Electronic poster presentation at the 4th International Conference on Ergonomics of Iran and the 5th Biennial Conference on Ergonomics of Iran titled (Prevalence of Musculoskeletal Disorders and Its Relationship with Work Ability in Staff Working in the Operating Rooms of Governmental Hospitals in Hamadan.)**