



**Curriculum Vitae**  
**Fatemeh Fakhrealizadeh; M.Sc.; BSc**



**Contact information**

Master of Surgical nurse,  
Tutor of Operating Room & Anesthesia Department,  
School of Nursing & Midwifery,  
Shahid Beheshti University of Medical Sciences,  
Tehran, Iran

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**Fields of Interests**

- Technology, innovation and inventions
- Smart operating room
- Artificial intelligence and robotic surgeries
- New medical methods, tools and equipment

**Scholarly activities/ expertise**

**December 2019 – 2022**, Teaching faculty Surgical nurse department at Kerman University of Medical Sciences

Teaching experience:

- Genitourinary Surgical Technology (2021-present).
- Health and safety implications of procedures in a standard environment. (2022-present).
- Plastic and Reconstructive Surgical Technology (2020-present).
- Trauma and emergency for Surgical Technologists (2020-present).
- Cardiovascular Surgical Technology (2019-present).
- Medical emergency for Surgical Technologists (2019-2022).

**July 2018 – present**, Entrepreneur and CEO GoAvicenna CO., Shiraz Medical equipment

**October 2018 – November 2019**, Surgical nurse Emtiaz Hospital, Shahid Rajaei Surgery Points and Emergencies, Shiraz

Fields:

- Trauma and emergencies
- Neurosurgery
- Orthopedy
- General surgery

**October 2017 – October 2019**, Teacher assistant Surgical Technology department at Shiraz University of Medical Sciences, BSC students of Surgical technology in the field of Technical Surgical

## Education

**2017 – 2019**, MSc. Surgical Technology (GPA: 4/4) - Full scholarship Shiraz University of Medical Sciences, Iran

Focus:

- Innovation in surgery
- Internship:
  - In Advanced Orthopedics Operating Room
  - In Advanced ENT Operating Room

Master thesis:

- Comparison of the effects of two methods of cold dissection and bipolar loop device in patients undergoing tonsillectomy (Led to a national patent)

**2013 – 2017**, B.sc Surgical Technology (GPA: 3.80/4) - Full scholarship Birjand University of Medical Sciences

Focus:

- Surgical technologies in different fields

Internship:

- In Emergency Operating Room
- In Orthopedics surgery operating room
- In Urology surgery operating room
- In Ophthalmology surgery operating room
- In ENT surgery operating room
- In general surgery operating room
- In skin & wound healing operating room
- In Neurosurgery operating room
- In cardiovascular surgery operating room
- In Oral & Maxillofacial surgery operating room
- In Pediatrics surgery operating room
- In gynecological surgery and midwifery operating room
- Principles of Medical Care in Recovery Room
- Management in Operating Room

## Research

**2022-2023**,

- Title: "The healing effect of combined Herbal Plantago major L, Plantagopsyllium, and Hordeum vulgare on Second Degree Burn Wounds in Balb/C"
- Grant source: Vice president of research and technology at Kerman University of Medical Sciences

**2021-2022**,

- Title: "Comparison of the consequences of Hypodermic needle and moving clamp in tendon repairs of patients with forearm injuries"
- Grant source: Vice president of research and technology at Kerman University of Medical Sciences

**2020-2021**,

- Title: "Comparison traction of the traction effects two methods manual and automatic in femoral fractures surgery"
- Grant source: Vice president of research and technology at Kerman University of Medical Sciences

**2018-2019**,

- Title: "Investigating the effect of standard quality management training on operating room supervisors on the quality of operating room standards of hospitals"

- Grant source: Vice president of research and technology at Shiraz University of Medical Sciences  
**2016-2017,**
- Title: "Communication Assessment of Family Social Support and Concerns Related to Illness in Patients with Heart Failure"
- Grant source: Vice president of research and technology at Birjand University of Medical Sciences  
**2015-2016,**
- Title: "The role of general and spiritual health in the procrastination of nursing and operating room students"
- Grant source: Vice president of research and technology at Birjand University of Medical Sciences  
**2015-2016,**
- Title: "Investigation of Physical Space, Safety, Health and Operating Room Equipment Standards"
- Grant source: Vice president of research and technology at Birjand University of Medical Sciences

## **Publications and Presentations**

### Articles:

- Fakhrealizadeh F, Hoveidaei AH, Eslami J, Hashemi SB, Hoveidaei A, Kazemi T, Nazarpour Z. Bipolar loop device versus bipolar diathermy for tonsillectomy: A pilot randomized controlled trial. *Int J Pediatr Otorhinolaryngol.* 2021 Feb;141:110505. doi:10.1016/j.ijporl.2020.110505. Epub 2020 Nov 19. PMID: 33239197.
- Yazdan Parast E, Fakhrealizadeh F, Davoodi Moghadam F, Ramezani H, Ghorbani H, Davoudi M. The relation between Physical Space Standards, Equipment Standards, Safety, Health Care and General Health Issues Concerning the Operating Room Personnel in University/Educational Hospitals Affiliated with Birjand University of Medical Sciences. *Occupational Medicine Quarterly Journal* 2019; 11(1):32-41

### Patents:

- Needle-free syringe with the ability to take non-invasive blood sugar with a glucometer, Iran [Application No.: ۱۰۹۳۷۹] (20۲۳)
- Bipolar Loop, Iran [Application No.:98303] (2019)
- Prostatectomy pump , Iran [Application No.:88931] (2016)
- Mini Pin Cutter for Orthopedic surgery, Iran [Application No.:88933] (2016)

### Books:

- Amiri A, Fereidoni A, Fakhrealizadeh F. Test's bank operating room technique. 3rd ed. Jame-e-negar. Tehran; 2019 Eslami J, Tavakol R, Fereidoni A , Fakhrealizadeh F , Ghanavati M. Test's bank surgery internal operating room . 2nd ed. Jame-e-negar. Tehran; 2018

### Poster presentations:

- Fakhrealizadeh F. The importance of innovation and entrepreneurship in hospitals. The first annual conference operating room student research (2019).
- Fakhrealizadeh F. Relationship between Physical Space Standards Operating Room. Second International Congress of Prevention Strategies for Patient Infections. Mashhad, Iran (2018)
- Fakhrealizadeh F, Dashti S. How to get there as a researcher, 4<sup>th</sup> Annual Research Conference of Medical Students of South Khorasan, Iran (2015)

## **Honors/ Awards**

**2019-Present**, National Elite Foundation, Iran

**2017-2019**, Student of Exceptional Talents of Shiraz University of Medical Sciences

**2018**, Awarded for the top idea of the 4th National Health Market Technology

**2018**, Ranked 2nd of the 3rd startup weekend Rafsanjan

**2016-2017**, Student of Exceptional Talents of Birjand University of Medical Sciences

**2017**, Ranked 2nd in the national Medical Sciences Master entrance exam

**2017**, Chosen by Medical Equipment Institute in National Haketon Health Competition, Iran University of Medical Sciences, Tehran, Iran

**2015**, Top Ethics Researcher of Birjand University of Medical Sciences

## **Experiences**

Career related experience:

- Designed logbook for Surgical Technologists, Kerman University of Medical Sciences, Iran (2019).
- Academic adviser for Surgical Technologists students, Iran (2019- present).

Reviewer experience:

- Reviewer of "Efficacy of low temperature plasma-assisted unilateral/bilateral tonsillectomy and adenoidectomy in children's patients with obstructive sleep apnea hypopnea syndrome" Medical Science Monitor is indexed in Journals Citation Report JCR, Web of Science WoS by Clarivate Analytics formerly Thomson Reuters, Index Medicus MEDLINE, PubMed, PubMed Central PMC by National Library of Medicine, NIH, Scopus by Elsevier, EMBASE/Excerpta Medica and Chemical Abstracts CAS (2021)
- Reviewer of the 9th Congress of the South American Network and the 2nd National Congress on Noncommunicable Diseases. Fasa, Iran (2019)
- Reviewer of the first annual student research conference of Iranian operating room students. Tehran, Iran (2018) Students' Secretary and reviewer of the 4th Annual Research Conference of Medical Students of South Khorasan, Birjand, Iran (2015)

Administrative experience:

- Executive Secretary of the Fourth Iranian Student Scientific Congress Leadership experience Secretary of Student Research Committee's school Nursing and midwifery, Shiraz University of Medical Sciences, Shiraz, Iran (2017- 2019)

- Secretary of Student Research Committee's school paramedicine, Birjand University of Medical Sciences, Shiraz, Iran (2017-2019)
- Executive Committee of the 3rd International Congress on Holly Prophet Mohammad's Tradition in Medicine, Shiraz University of Medical Sciences, Shiraz, Iran (2017)
- Scientific tour of proposal. Birjand, Iran (2015)
- SPSS and Search Workshop. Birjand, Iran (2015)

Volunteer work:

- Fostering students' creativity (2021)
- Consulted Creativity and Innovation for Shiraz University of Medical Sciences students, Iran (2019).
- Collaborated with blood pressure from people (2019)
- Headed Proposal tour at the School of Nursing and Midwifery (2018).
- Aided to students for patents (2018).

**Language Proficiency**

English (IELTS 6.5)

German (A1)

Persian (native)

**Memberships**

**2017-2019**, Secretary of Student Research Committee of Shiraz University of Medical Sciences

**2016-2017**, Member of Guild & Education Central Council of Birjand University of Medical Sciences

**2018-2019**, Secretary of Guild & Education Council of Medical school, Shiraz University of Medical Sciences

**2015-2017**, Secretary of Student Research Committee of, Birjand University of Medical Sciences