



Dr. Mohammadreza Mobayen

Professional Appointments and Honors:

- Head of the Burn and Regenerative Medicine Research Center (2021–2024)
- Head of the Clinical Incubator Center, Guilan University of Medical Sciences (2021–Present)
- Director of the National Burn Excellence Hub Development Program (2021–Present)
- Member of the National Specialized Committee on Burns (2023–Present)
- Founding Member of the Iranian Burn Association (2024–Present)
- Collaborator with the Iranian Society of Surgeons (2025–Present)
- CEO of Masihā Eltiam Gostaran, a Knowledge-Based Company (2024–Present)
- Head of the Advanced Center for Reconstructive and Burn Surgery, Velayat Hospital (2014–2016 & 2020–2022)
- Editor-in-Chief, *Iranian Journal of Burns and Wound Research (IJBWR)* (2025–Present)
- Editorial Board Member, *Journal of Nursing Reports in Clinical Practice* (2024–Present)
- Listed among the Top 2% of Scientists Worldwide by Stanford University and Elsevier (2024)
- Assistant Professor, Faculty Member at Guilan University of Medical Sciences, Rasht, Iran (2014)
- Associate Professor, Faculty Member at Guilan University of Medical Sciences, Rasht, Iran (2021)

• Contact

Nationality: Iranian

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Scopus H-index	23
Google scholar H-index	35
Google scholar Citations	3672

❖ **Education:**

- Doctor of Medicine (M.D.), Faculty of Medicine, Guilan University of Medical Sciences – Graduated: 2000
- Residency in General Surgery and Fellowship in Plastic and Reconstructive Burn Surgery, Iran University of Medical Sciences – Graduated: 2013

• **Theses:**

- 1- "A Study of the Relative Frequency of HBs-Ag and HCV-Ab in Patients with Cirrhosis in Razi and Poursina Hospitals"
- 2- "Evaluation of the Effect of Celecoxib Before and After Laparoscopic Cholecystectomy on Pain and Drug Consumption in Patients Referred to Shariati Hospital in 2007–2008"

❖ **Research projects and published articles:**

Articles published in scientific journals:

Published more than 120 scientific articles in reputable international journals in the fields of burns, regenerative medicine, clinical microbiology, general surgery, nursing care and epidemiology

Articles presented in international congresses:

Presented more than 70 articles in national and international congresses on burns, microbiology, surgery, nursing care and epidemiology

Approved research projects:

More than 100 research project titles approved as an executor or collaborator in the fields of burns, nursing care, wound management, nanotechnology, health psychology, medicinal plants, epidemiology and regenerative medicine



Articles published:

1. Evaluation of the effects of perioperative administration of celecoxib on pain management and the use of narcotic after laparoscopic cholecystectomy, IRANIAN JOURNAL OF SURGERY 18 (3), 27-32, 2010
2. Isolated primary hydatid disease of omentum; report of a case and review of the literature, Iranian Journal of Medical Sciences 35 (3), 259-261, 2010
3. Epidemiology of burn injuries at a newly established burn care center in Rasht, Trauma monthly 17 (3), 341, 2012
4. A comparative study of cardioprotective effect of three anesthetic agents by measuring serum level of troponin-T after coronary artery bypass grafting, International cardiovascular research journal 6 (3), 70, 2012
5. Burnt wives in Tehran: a warm tragedy of self-injury, International journal of burns and trauma 3 (1), 66, 2013
6. Management of hypertrophic burn scar: a comparison between the efficacy of exercise-physiotherapy and pressure garment-silicone on hypertrophic scar, Asian journal of sports medicine 4 (1), 70, 2013
7. Prediction of mortality in pediatric burn injuries: R-baux score to be applied in children (pediatrics-baux score), Iranian journal of pediatrics 23 (2), 165, 2013
8. Mortality and morbidity of fireworks-related burns on the annual Last Wednesday of the Year Festival (Charshanbeh Soori) in Iran: an 11-year study, Trauma monthly 18 (2), 81, 2013
9. Epidemiology and outcome of burn injuries in burn patients in Guilan province, Iran, Qom University of Medical Sciences Journal 7 (5), 35-41, 2013
10. Colonization of Mycoplasma hominis and Ureaplasma urealyticum in pregnant women and their transmission to offspring, Iranian Journal of microbiology 6 (4), 219, 2014
11. Electrical burn injury: a five-year survey of 682 patients, Trauma monthly 19 (4), 2014
12. Survey of 2582 cases of acute orthopedic trauma, Trauma monthly 19 (4), 2014
13. Treatment Outcome of Total Thyroidectomy for Multinodular Goiter, Zahedan Journal of Research in Medical Sciences 17 (8), 2015
14. Serial clinical examinations of 100 patients treated for anterior abdominal wall stab wounds: a cross sectional study, Trauma monthly 20 (4), 2015
15. Partial-thickness burn wounds healing by topical treatment: a randomized controlled comparison between silver sulfadiazine and centiderm, Medicine 96 (9), 2017
16. Comparison of the results of total thyroidectomy and Dunhill operation in surgical treatment of multinodular goiter, Indian Journal of Surgery 77 (3), 1137-1141, 2015
17. Carbamazepine-induced toxic epidermal necrolysis treated with intravenous immunoglobulin and amniotic membrane: A case report, World Family Medicine Journal: Incorporating the Middle East Journal of Family Medicine, 2017
18. Effect of early grafting on improvement of lethal area index (la50) in burn patients: a 7-year investigation in a burn referral Centre in the North of Iran, Annals of burns and fire disasters 30 (3), 189, 2017
19. Comparison of Chest X-ray and Clinical Findings in Trauma Patients after Chest Tube Removal, Journal of Clinical & Diagnostic Research 12 (7), 2018
20. Spatial Analysis of Burn Injuries in Rasht in the Last Five Years (2011-2015), Journal of the Geographical Engineering of Territory 2 (3), 131-144, 2018



21. High incidence of type III secretion system associated virulence factors (exoenzymes) in *Pseudomonas aeruginosa* isolated from Iranian burn patients, BMC research notes 12 (1), 1-6, 2019
22. Changes in serum phosphorus level in patients with severe burns: A prospective study, Burns 45 (8), 1864-1870, and 2019
23. The Frequency of Bacterial Colonization in Burn Wounds and Antibigram pattern in Patients Hospitalized in the ICU of Velayat Burn and Reconstructive Surgery Center in Rasht City, International Journal of Scientific Research in Dental and Medical Sciences (1), 72–79, 2019
24. Epidemiological study of self-immolated patients referring to Velayat burn and reconstructive surgery center of Rasht, Journal of Surgery and Trauma 8 (2), 66-72, 2020
25. Evaluating the Knowledge and Attitudes of the Members of the Medical Community Mobilization on First Aid for Burn Injuries in Guilan, Iran, Journal of Mazandaran University of Medical Sciences 30 (186), 148-155, 2020
26. The presentation of spontaneous splenic rupture in a COVID-19 patient: a case report, BMC surgery 20 (1), 1-5, 2020
27. The relationship between spiritual experiences with hope to be alive and death anxiety in burned patients, Journal of Isfahan Medical School 38 (598), 811-817, 2021
28. The length of stay and cost of burn patients and the affecting factors, International journal of burns and trauma, 2021
29. Prevalence of Bed sores among Patients Referring to a Medical Center in Iran Journal of Surgery and Trauma, 2021;9(1).
30. The epidemiology and outcome of burn injuries in Iran: A ten-year systematic review and meta-analysis, 2021
31. Predicting hope to be alive using spiritual experiences in burn patients, Annals of the Romanian Society for Cell Biology, 18957-18962, 2021
32. Evaluation of clinical and laboratory causes of burns in pre-school children, Journal Current Biomedical Reports 2 (1), 27-31, 2021
33. Epidemiology of Childhood Burn: A 5-Year Retrospective Study in the Referral Burn Center of Northern Iran Northern Iran, Caspian Journal of Health Research, 2021
34. Prevalence and Antibiotic Resistance Pattern of Gram-Positive Isolates from Burn Patients in Velayat Burn Center in Rasht, North of Iran, Medical Laboratory Journal, 2021
35. Molecular Pathogenicity of Wild-Endotoxin Derived from Burned Patient's Skin and Proposed Effectiveness of Calcium Channel Inhibitors, Klimik Dergisi, 34 (3), 2021
36. Evaluation of patterns, cause and risk factors of burns in patients with seizure, International Journal of Burns and Trauma, 12 (1), 2022
37. Adherence to referral criteria for burn patients; a systematic review, Archives of Academic Emergency Medicine, 10 (1), 2022
38. Effect of virtual reality-based interventions on pain during wound Care in Burn Patients; a systematic review and meta-analysis, Archives of Academic Emergency Medicine, 10 (1), 2022
39. Machine learning for burns clinical care: Opportunities & challenges, Burns, 2022
40. Prevalence and related factors of electrical burns in patients referred to Iranian medical centers: a systematic review and meta-analysis, World journal of plastic surgery, 2022



41. The application of human Wharton's jelly mesenchymal stem cells in wound healing: A narrative review, *Journal of Current Biomedical Reports*, 2022
42. Combination Therapy of Metadichol Nanogel and Lipocalin-2 Engineered Mesenchymal Stem Cells Improve Wound Healing in Rat Model of Excision Injury, *Advanced Pharmaceutical Bulletin*, 2022
43. Antibiotics as a two-edged sword: The probability of endotoxemia during burned wound treatment, *Burns*, 2022
44. Evaluation of diagnostic value of fast in patients with multiple trauma referring to a trauma center in Northern Iran, *Novelty in Clinical Medicine*, 2022
45. Cost analysis of the treatment of severe burn injuries in a tertiary burn center in Northern Iran, *Iranian Red Crescent Medical Journal*, 2022
46. Effects of COVID-19 pandemic on burns care, *Burns*, 2022
47. Intraoperative three-dimensional bioprinting: a transformative technology for burn wound reconstruction, *Burns*, 2022
48. Knowledge, attitude, and practice of Iranian nurses towards pressure ulcer prevention: A systematic review, *Journal of Tissue Viability*, 2022
49. Machine learning for burned wound management, *Burns*, 2022
50. Exercise as a rehabilitation intervention for severe burn survivors: benefits & barriers, *Burns*, 2022
51. Application of cell appendages for the management of burn wounds, *Burns*, 2022
52. Burns and pregnancy during the COVID-19 pandemic, *Burns*, 2022
53. Burns may be a risk factor for endometriosis, *Burns*, 2022
54. Sexual satisfaction among women with severe burns, *Burns*, 2022
55. Parental adjustment after pediatric burn injury, *Burns*, 2022
56. The role of a structured rehabilitative exercise program as a safe and effective strategy for restoring the physiological function of burn survivors, *Burns*, 2022
57. Nature efficient approach; Application of biomimetic nanocomposites in burn injuries, *Burns*, 2022
58. Dissatisfaction or slight satisfaction with life in burn patients: A rising cause for concern of the world's burn community, *Burns*, 2022
59. Burns as a risk factor for glioblastoma, *Burns*, 2022
60. The importance of considering biomechanical properties in skin graft: Are we missing something?, *Burns*, 2022
61. Phenotypic and genotypic characterization of metallo- β -lactamase producing *Pseudomonas aeruginosa* isolated from burn patients, *New Microbes and New Infections*, 2022
62. Implementation of telemedicine for burns management: challenges and opportunities, *Burns*, 2022
63. A systematic review of self-esteem and related factors among burns patients, *Annals of Medicine and Surgery*, 2022
64. Hospital-acquired Pressure Ulcers in Trauma Patients: A Retrospective Study of 410 Patients at a Referral Trauma Center in the North of Iran, *The Open Nursing Journal*, 2022
65. Plumping up a Cushion of Human Biowaste in Regenerative Medicine: Novel Insights into a State-of-the-Art Reserve Arsenal, *Stem Cell Reviews and Reports*, 2022
66. Identification of TGF- β 1 expression pathway in the improvement of burn wound healing, *Burns*, 2022
67. Radiation burns and fertility: a negative correlation, *Burns*, 2022



68. Synthesis of MCM-41@SO₃H-Polymixin B Nanocomposite for Extraction and Determination of Lipopolysaccharide from Aqueous Solutions using Taguchi Fractional Factorial Design, ChemistrySelect, 2022
69. Age group as a predictor of the effect of virtual reality on pain management in burn retain-->patientsretain->., Burns, 2022
70. Modified Score of Toxic Epidermal Necrolysis to predict toxic epidermal necrolysis mortality, Journal of the American Academy of Dermatology, 2023
71. Evaluation of spiral chest CT scan findings in patients with multiple trauma, Bulletin of Emergency And Trauma, 2023
72. Gamification-based Virtual Reality and post-burn rehabilitation: How promising is that?, Bulletin of Emergency & Trauma, 2023
73. An 11-year retrospective study on the epidemiology of paediatric burns in the north of Iran, International wound journal, 2023
74. Epidemiology of work-related burn injuries: A ten-year retrospective study of 429 patients at a referral burn centre in the north of Iran, International wound journal, 2023
75. Effects of Flaxseed Oil and Olive Oil on Markers of Inflammation and Wound Healing in Burn Patients: A Randomized Clinical Trial, Bulletin of Emergency And Trauma, 2023
76. A smartphone application for caregivers of children with severe burns: A survey to identify minimum data set and requirements, Journal of Burn Care & Research, 2023
77. Trends of national and sub-national burden attributed to kidney dysfunction risk factor in Iran: 1990-2019, Frontiers in Endocrinology, 2023
78. Management of Toxic Epidermal Necrolysis Using Early Combination Therapy of Intravenous Immunoglobulin and Amniotic Membrane Grafting: A Case Report, Journal of Burn Care & Research, 2023
79. Applications of machine learning for coronary artery bypass grafting: correspondence, International Journal of Surgery (London, England), 2023
80. Design and usability evaluation of a mobile-based-self-management application for caregivers of children with severe burns, International wound journal, 2023
81. Epidemiology of chemical burns: An 11-year retrospective study of 126 patients at a referral burn centre in the north of Iran, International wound journal, 2023
82. Effect of probiotic administration in inflammatory responses of thermal burns, European Journal of Inflammation, 2023
83. The effect of drug abuse on clinical outcomes of adult burn patients admitted to a burn center in the north of Iran: A retrospective cross-sectional study, Bulletin of emergency and trauma, 2023
84. Acute burns during the COVID-19 pandemic: A one-year retrospective study of 611 patients at a referral burn centre in northern Iran, International Wound Journal, 2023
85. Near-death experiences of burn survivors: An important yet challenging issue, Burns, 2023
86. Does oral povidone-iodine therapy for critically ill patients in the intensive care unit provide any benefit in terms of preventing ventilator-associated pneumonia?, Journal of Nursing Reports in Clinical Practice, 2023
87. Machine learning for assessment of antimicrobial susceptibility: A novel bioinformatics approach against antimicrobial resistance, Journal of Nursing Reports in Clinical Practice, 2023
88. Antibiofilm and Antimicrobial activity of Lactobacillus Cell free supernatant against Pseudomonas aeruginosa isolated from burn wounds: A cross-sectional study, International Wound Journal, 2023



89. Comparing the Effects of Medical Honey and Stapler on Skin Graft Fixation in Patients With Burn Wounds: A Randomized Clinical Trial, *Journal of Guilan University of Medical Sciences*, 2023
90. Health care needs, eHealth literacy, use of mobile phone functionalities, and intention to use it for self-management purposes by informal caregivers of children with burns: a survey study, *BMC Medical Informatics and Decision Making*, 2023
91. Kidney dysfunction's attributed mortality and disability-adjusted life years in the North Africa and Middle East region, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019, *Clinical Kidney Journal*, 2023
92. Comparing intralesional triamcinolone and verapamil-triamcinolone injections in keloids: A single-blinded randomised clinical trial, *International Wound Journal*, 2023
93. Evaluation of the effectiveness of a smartphone-based educational intervention on the outcomes of children's burns: A randomized controlled trial, *International Wound Journal*, 2024
94. Machine learning for assessment of antimicrobial susceptibility: A novel bioinformatics approach against antimicrobial resistance, *Journal of Nursing Reports in Clinical Practice*, 2024
95. Early graft in patients with burn wounds: A two-year retrospective study of 582 patients at a referral burn center in northern Iran, *Journal of Nursing Reports in Clinical Practice*, 2024
96. Effect of vitamin D on clinical outcomes in patients with thermal injury, *International Wound Journal*, 2024
97. Predictive value of serum albumin and calcium levels in burn patients with *Pseudomonas aeruginosa* infection: A comprehensive analysis of clinical outcomes, *International Wound Journal*, 2024
98. Beyond the burn: An observational study of cardiovascular risk in burn survivors in the north of Iran, *International Wound Journal*, 2024
99. Machine learning for assessment of antimicrobial susceptibility: a novel bioinformatics approach against antimicrobial resistance, *Journal of Nursing Reports in Clinical Practice*, 2024
100. Potassium permanganate in treatment of diabetic foot ulcer: A randomized clinical trial, *Health Science Reports*, 2024
101. Global burden of 288 causes of death and life expectancy decomposition in 204 countries and territories and 811 subnational locations, 1990–2021: a systematic analysis for the Global Burden of Disease Study 2021, *The Lancet Journal*, 2024
102. The frequency of nosocomial infection and environmental contamination in the burn center, *Journal of Current Biomedical Reports*, 2024
103. Prediction of immune molecules activity during burn wound healing among elderly patients: in-silico analyses: experimental research, *Annals of Medicine and Surgery*, 2024
104. Epidemiology and clinical outcomes of electrical burns in a burn center in the north of Iran: A 10-year retrospective Study, *Trauma Monthly*, 2024
105. Identification of fungal agents isolated from burn lesions using mycological and molecular methods in patients admitted to Velayat burn hospital in Rasht city during 2022-2023, *Iranian Journal of Microbiology*, 2024
106. Multi-state evaluation of *Candida* infections in burn patients, *Mycoses*, 2024
107. The microbiology, epidemiology, risk factors, and clinical therapy of candidemia in burn patients hospitalized in Velayat Teaching Hospital, Rasht, northern Iran, *Iranian Journal of Microbiology*, 2024
108. Oxidized Regenerated Cellulose and Its Production Process as a Bleeding Coagulant: A Review, *Iranian Journal of Polymer Science and Technology*, 2024
109. Association Between Serum Albumin Levels and Clinical Outcomes in Burn Patients: A Single-center Retrospective Analysis, *Bulletin of Emergency & Trauma*, 2025
110. Survival and Associated Risk Factors in Mechanically Ventilated Burn Patients: A Cross-Sectional Study, *Bulletin of Emergency & Trauma*, 2025



111. Effects of intravenous Tranexamic Acid on bleeding during burn surgery: a double-blinded randomized clinical trial, Burns, 2025
112. Investigating the association between serum albumin levels and outcomes in burn patients: a single-center analysis, Bulletin of Emergency And Trauma, 2025
113. Three decades of population health changes in Japan, 1990–2021: a subnational analysis for the Global Burden of Disease Study 2021, The Lancet Public Health, 2025
114. Characterization of COVID-19-Associated Candidemia Among Burn Patients, Journal of Clinical Laboratory Analysis, 2025
115. A Cross-Sectional Study on Survival and Associated Risk Factors in Burn Patients Under Mechanical Ventilation, Bulletin of Emergency And Trauma, 2025
116. Phenotypic and Genotypic Biofilm Formation and Its Association With Antimicrobial Resistance Pattern Among Pseudomonas aeruginosa Isolated From Burn Wounds, Infectious Diseases in Clinical Practice, 2025
117. Epidemiological Trends and Evolving Antibiotic Resistance Profiles of Pseudomonas aeruginosa in Burn Patients: A 3-Year Cross-Sectional Surveillance in Northern Iran, Health Science Reports, 2025
118. Bacterial etiology and antibiotic susceptibility pattern of ventilator-associated pneumonia (VAP) in burn patients, Iranian Journal of Burns and Wound Research, 2025
119. Variability in serum sodium concentration and its prognostic significance in severe burn injuries: A retrospective study, Iranian Journal of Burns and Wound Research, 2025
120. Comparing predictor value of lactic acid, base deficit, erythrocyte sedimentation rate, and C-reactive protein in severe burn outcome, Hong Kong Journal of Emergency Medicine, 2025

Articles presented in International Congresses:

1. **Dr.Mohammadreza Mobayen.** Prevalence and outcome of euthyroid sick syndrome in burn patients hospitalized at Velayat burn hospital, Second International Burn Conference, Second International Burn Conference (2014)
2. **Dr.Mohammadreza Mobayen.** Prediction of mortality in pediatric burn injuries: R-Baux score to be applied in children (pediatrics- Baux score), Second International Burn Conference, Second International Burn Conference (2014)
3. **Dr.Mohammadreza Mobayen.** Management of burn hypertrophic scar: a comparison between the efficacy of 49 exercise-physiotherapy and pressure garment-silicone on hypertrophic scar, Second International Burn Conference, Second International Burn Conference (2014)
4. **Dr.Mohammadreza Mobayen.** Evaluation of effective factors on mortality and morbidity of fireworks related burn injuries during the Wednesday eve festival (Charshanbe Soori) in Iran: a 12-year study, Second International Burn Conference, Second International Burn Conference (2014)
5. **Dr.Mohammadreza Mobayen.** Epidemiology of accident in north of Iran (Guilan) Treatment report of a case of toxic skin macrolysis reaction to carbamazepine, hird National Burn Congress (March 2014)



6. **Dr.Mohammadreza Mobayen.** Management of hypertrophic burn scar a comparison between the efficacy of excursus-physiotherapy and pressure garment-silicone on hypertrophic scar Chronic Wound Conference, (May 2015)
7. **Dr.Mohammadreza Mobayen.** Electrical burn injury: A five -year surgery of 682 patients, Fourth National Burn Congress (February 2016)
8. **Dr.Mohammadreza Mobayen.** Assessing the educational needs of the members of the Basij of the medical community of Rasht city in relation to the initial measures in burn injuries, Fifth National Burn Congress (February 2016)
9. **Dr.Mohammadreza Mobayen.** Survival study of pseudomonas aeruginosa recombinant PilQ protein in the mous mdel of burn wound infection, Fifth National Burn Congress (February 2016)
10. **Dr.Mohammadreza Mobayen.** Partial-thickness burn wounds healing by topical treatment: a randomized controlled comparison between silver sulfadiazine and cenriderm, Fifth National Burn Congress (February 2016)
11. **Dr.Mohammadreza Mobayen.** Prevalence of hypomagnesemia in children under 11 years of age in Rasht Burn Center in 2014, Fifth National Burn Congress (February 2016)
12. **Dr.Mohammadreza Mobayen.** A comparison on treatment result of burnt lesions using amnion membranes with treatment using conventional bandages of second-degree depth burning in children visiting Velayat specialized hospital of burning in Rasht (2014-2015), Fifth National Burn Congress (February 2016)
13. **Dr.Mohammadreza Mobayen.** Acupressure wound management, Compression Wound Management Training Course (August 2017)
14. **Dr.Mohammadreza Mobayen.** Spatial analysis of burn injuries with related epidemiological and ethological investigation of burn patients referred to Rasht Velayat burn hospital from 2012 to 2016, Seventh National Burn Congress (March 2018)
15. **Dr.Mohammadreza Mobayen.** Effect of early grafting on improving lethal area index (LA50) in burn patients; a 7-year investigation in burn referral center of north of Iran, Seventh National Burn Congress (March 2018)
16. **Dr.Mohammadreza Mobayen.** Investigating the needle stick-related occupational exposure in employees Velayat burn hospital during 2008-2016, Seventh National Burn Congress (March 2018)
17. **Dr.Mohammadreza Mobayen.** Treatment of TEN with amniotic membrane and IVIG, International congress on Nursing care plan & health, Italy (July 16-18, 2018)
18. **Dr.Mohammadreza Mobayen.** The effect of early graft on La50 recovery in burn hospital, 42th Scientific Congress of the Iranian Society of Surgeons (April 2018).
19. **Dr.Mohammadreza Mobayen.** Toxic effects of carbamazepine and epidermal necrosis and its treatment, 42th Scientific Congress of the Iranian Society of Surgeons (April 2018).
20. **Dr.Mohammadreza Mobayen.** Burn injuries among children aged up to sixteen year; a 6-year retrospective study, Ninth National Burn Congress (February 2020)
21. **Dr.Mohammadreza Mobayen.** Antibiotic resistance pattern and expression of type III secretion system gene (ExoU Exotoxin) by real time – PCR among pseudomonas aeruginosa isolated from patients with burn wound in Velayat burn cancer, Rasht, Iran, Ninth National Burn Congress (February 2020)
22. **Dr.Mohammadreza Mobayen.** Epidemiological study of self-immolation cases referred to the Center for Accidents, Burns and Reconstructive Surgery of Rasht Province, from the beginning of April 2009 to the end of March 2016, Ninth National Burn Congress (February 2020)



23. **Dr.Mohammadreza Mobayen.** Antibiotic resistance pattern and expression of type III secretion system gene (ExoU Exotoxin) by real time – PCR among pseudomonas aeruginosa isolated from patients with burn wound in Velayat burn cancer, Rasht, Iran, Ninth National Burn Congress (February 2020)
24. **Dr.Mohammadreza Mobayen.** The effect of centella asiatica ointment on third degree burns in patients referred to Velayat burning event center in 2018-2019, Ninth National Burn Congress (February 2020)
25. **Dr.Mohammadreza Mobayen.** Epidemiology of burns in preschool children in Velayat hospital in 2016, Ninth National Burn Congress (February 2020)
26. **Dr.Mohammadreza Mobayen.** Effect of flaxseed oil and olive oil on markers of inflammation and wound healing in burn patients: a randomized clinical trial, Ninth National Burn Congress (February 2020)
27. **Dr.Mohammadreza Mobayen.** Investigating the factors affecting the death rate of patients in the burn ward of Rasht city hospital, conference on burns and intensive care (2020)
28. **Dr.Mohammadreza Mobayen.** Epidemiological study of mortality of patients hospitalized due to burns in the intensive care unit of Velayat Hospital from 2009 to 2019, conference on burns and intensive care (2020)
29. **Dr.Mohammadreza Mobayen.** Evaluation of early graft results in burn patients admitted to Rasht hospital in 2018 and 2019, conference on burns and intensive care (2020)
30. **Dr.Mohammadreza Mobayen.** Epidemiology of burns in preschool children in Velayat hospital in 2016, The 2nd International Congress of Sports Nutrition in Iran and the 6th Annual Research Conference of Semnan University of Medical Sciences (2020)
31. **Dr.Mohammadreza Mobayen.** Estimation of economic burden due to self-immolation in Guilan province during 2007 to 2017, The 2nd International Congress of Sports Nutrition in Iran and the 6th Annual Research Conference of Semnan University of Medical Sciences (2020)
32. **Dr.Mohammadreza Mobayen.** Prevalence and antibiotic resistance pattern of Gram-positive bacteria isolated from burn patients in the North of Iran: A three-year retrospective study, The 22nd International Congress of Microbiology (2021)
33. **Dr.Mohammadreza Mobayen.** Hospital-acquired pressure ulcers risk factors in patients referred to a trauma center, 10th National Burn Congress (2021)
34. **Dr.Mohammadreza Mobayen.** Investigation of the effects of albumin supplement administration as a prognostic factor for mortality among patients with severe burns, 10th National Burn Congress (2021)
35. **Dr.Mohammadreza Mobayen.** Factors affecting the Length of Hospital Stay (LOS) of burn patients in the elderly: A survival analysis using Cox model, 10th National Burn Congress (2021)
36. **Dr.Mohammadreza Mobayen.** Elderly and burn injuries: A ten-year analysis of 612 patients, International Congress of Biomedicine (2021)
37. **Dr.Mohammadreza Mobayen.** Epidemiology of burn among geriatric population in Guilan province, IRAN: from 2010 to 2020, 10th National Burn Congress (2021)
38. **Dr.Mohammadreza Mobayen.** The epidemiology and outcome of burn injuries in Iran: A ten-year systematic review and meta- analysis, 10th National Burn Congress (2021)
39. **Dr.Mohammadreza Mobayen.** Burned children: A 6-year Approach to Epidemiological Profile and outcomes, 10th National Burn Congress (2021)
40. **Dr.Mohammadreza Mobayen.** Two years study of prevalence and antibiotic resistance pattern of Pseudomonas aeruginosa isolated from burn wounds in the North of Iran, 10th National Burn Congress (2021)



41. **Dr.Mohammadreza Mobayen.** Epidemiology of Toxic Epidermal Necrolysis in Guilan province: A Ten-year retrospective study, 10th National Burn Congress (2021)
42. **Dr.Mohammadreza Mobayen.** Effects of education on the knowledge and attitude of the Members of the Medical Community Mobilization on first Aid for Burn Injuries: A randomized clinical trial, 10th National Burn Congress (2021)
43. **Dr.Mohammadreza Mobayen.** Evaluation of clinical and Laboratory Causes of Burns in Pre-school children, 10th National Burn Congress (2021)
44. **Dr.Mohammadreza Mobayen.** Prevalence and related factors of electrical burns in patients referred to Iranian medical centers: A systematic review and meta- analysis, 10th National Burn Congress (2021)
45. **Dr.Mohammadreza Mobayen.** Predicting hope to be alive using spiritual experiences in burn patients, 10th National Burn Congress (2021)
46. **Dr.Mohammadreza Mobayen.** Effects of flaxseed oil and Olive oil on markers of inflammation and wound healing in burn patients: A randomized clinical trials, 10th National Burn Congress (2021)
47. **Dr.Mohammadreza Mobayen.** Toxic Epidermal Necrolysis specific modified SCORTEN used for accurate prediction of mortality: a ten-year single-center study, 19th International Congress of the European Burn Society (2022)
48. **Dr.Mohammadreza Mobayen.** Comparative study of intralesional injection of triamcinolone and verapamil-triamcinolone in the treatment of keloids: a single-blinded randomized clinical trial, 19th International Congress of the European Burn Society (2022)
49. **Dr.Mohammadreza Mobayen.** Predicting elderly mortality due to burn injuries using machine learning, 19th International Congress of the European Burn Society (2022)
50. **Dr.Mohammadreza Mobayen.** Prevalence and antibiotic susceptibility pattern of Enterobacter isolates in burn patients: A cross-sectional study in North of Iran, The 23rd International Congress of Microbiology of Iran (2022)
51. **Dr.Mohammadreza Mobayen.** Prevalence and profile of antibiotic susceptibility of various bacteria isolated from burn patients with ventilator-associated pneumonia (VAP): A cross-sectional study in North of Iran, The 23rd International Congress of Microbiology of Iran (2022)
52. **Dr.Mohammadreza Mobayen.** Prevalence and antibiotic resistance pattern of Klebsiella pneumoniae isolated from burn patients in the North of Iran, The 23rd International Congress of Microbiology of Iran (2022)
53. **Dr.Mohammadreza Mobayen.** Risk factors related to mortality of burn patients infected with non-fermentative gram-negative bacteria in Velayat Hospital in Rasht, Iran, The 23rd International Congress of Microbiology of Iran (2022)
54. **Dr.Mohammadreza Mobayen.** Investigating the effect of ointment prepared from Beshkhab plant (*Centella asiatica*) on third degree burns in the patients of burn accident center of Rasht province in 2017, National Conference on Burn Management, Prevention and Treatment (2022)
55. **Dr.Mohammadreza Mobayen.** Investigating the factors affecting the death rate of patients in the burn department of Rasht city hospital in 2018, National Conference on Burn Management, Prevention and Treatment (2022)
56. **Dr.Mohammadreza Mobayen.** The Metallo- β -Lactamase Producing *Pseudomonas aeruginosa* Characteristics in burn wounds: Phenotypic and Genotypic Evaluation, 11th National Burn Congress (2023)



57. **Dr.Mohammadreza Mobayen.** Effect of probiotic administration in Inflammatory Responses of thermal burns, 11th National Burn Congress (2023)
58. **Dr.Mohammadreza Mobayen.** Prevalence and Risk Factors for Delirium in burn patients admitted to burn care unit in north of the iran, 11th National Burn Congress (2023)
59. **Dr.Mohammadreza Mobayen.** Investigating factors related to serum albumin level and its consequences in burn patients, 11th National Burn Congress (2023)
60. **Dr.Mohammadreza Mobayen.** Comparison of the effects of biological (amniotic) with traditional dressings in the treatment of deep second degree burn wounds 5-20%, 11th National Burn Congress (2023)
61. **Dr.Mohammadreza Mobayen.** polyacrylic acid/ polyvinylpyrrolidone hydrogel wound dressing containing zinc oxide nanoparticles promoted wound healing in a rat model of excision injury, 11th National Burn Congress (2023)
62. **Dr.Mohammadreza Mobayen.** Intraoperative 3D Bio-Printing: A transformative technology for burn surgery, 11th National Burn Congress (2023)
63. **Dr.Mohammadreza Mobayen.** Wharton's Jelly derived Mesenchymal Stem Cells transfected by HIF-1 α promote wound healing in rat model of excision injury, 11th National Burn Congress (2023)
64. **Dr.Mohammadreza Mobayen.** Combination therapy of inverse agonist of vitamin D receptor (VDR) nanogel and Lipocalin-2 engineered mesenchymal stem cells improve wound healing in rat model of excision injury, 11th National Burn Congress (2023)
65. **Dr.Mohammadreza Mobayen.** The effect of drug abuse on clinical outcomes of adult burn patients admitted to a burn center in the north of Iran, 11th National Burn Congress (2023)
66. **Dr.Mohammadreza Mobayen.** Mutation in QRDR (quinolone resistance determining region) among ciprofloxacin-resistant and susceptible *Pseudomonas aeruginosa* strains isolated from burns of hospitalized patients in Guilan, 11th National Burn Congress (2023)
67. **Dr.Mohammadreza Mobayen.** Prevalence and profile of antibiotic susceptibility of various bacteria isolated from burn patients with ventilator-associated pneumonia (VAP): A cross-sectional study in North of Iran, 11th National Burn Congress (2023)
68. **Dr.Mohammadreza Mobayen.** A comparative study of the epidemiology and outcomes of burns during the one-year period of the spread of the Covid-19 pandemic compared to the one-year period before, in a burn center, 11th National Burn Congress (2023)
69. **Dr.Mohammadreza Mobayen.** Inhibitory activity of indigenous probiotic *Lactobacillus* isolates against *Pseudomonas aeruginosa* isolated from burn wounds, 11th National Burn Congress (2023)
70. **Dr.Mohammadreza Mobayen.** Epidemiology of chemical burn in Guilan province, IRAN: from 2009 to 2021, 11th National Burn Congress (2023)
71. **Dr.Mohammadreza Mobayen.** Epidemiology and Clinical outcomes of Pediatric Burns: A 12-Year Retro- spective Study in a Burn Center in the North of Iran, 11th National Burn Congress (2023)
72. **Dr.Mohammadreza Mobayen.** A 10-year study of epidemiological and clinical characteristics in patients with work-related burn injuries in a tertiary care burn center, 11th National Burn Congress (2023)
73. **Dr.Mohammadreza Mobayen.** Xanthan gum hydrogel improves wound healing in a rat model of excision injury, 11th National Burn Congress (2023)
74. **Dr.Mohammadreza Mobayen.** Evaluation of Factors Related to Acute Kidney Injury in Patients with Severe Burns admitted to Burn Intensive Care Unit, 11th National Burn Congress (2023)



75. **Dr.Mohammadreza Mobayen.** Evaluation of Changes in Base Deficit, Serum Albumin Level and CRP to Alb ratio and Relation with Prognosis in Severe Burn Patients Admitted to the Velayat Burn Intensive Care Unit, 11th National Burn Congress (2023)
76. **Dr.Mohammadreza Mobayen.** The study of using medical honey compared to stapler (disposable skin stapler Advan) for skin graft fixation in burn wounds in Velayat burn hospital in Rasht, 11th National Burn Congress (2023)

Proposals:

1. Epidemiological study of self-immolation cases referred to the Burns and Reconstructive Surgery Center of Rasht Province, from the beginning of April 2009 to the end of March 2016
2. Investigating the effect of ointment prepared from Aboshghabi plant (*Centella asiatica*) on third degree burns in the patients of burn accident center of Rasht province in 1397
3. Epidemiology of burns in children under 16 years of age referred to the Burns and Reconstructive Surgery Center of Rasht province from the beginning of April 2013 to the end of April 2018
4. Estimation of economic burden due to self-immolation in Guilan province during the years 1386 to 1396
5. Epidemiological study of burns in the elderly hospitalized in Velayat hospital from 2009 to 2017, 2019
6. The effect of education on the knowledge and attitude of Basij members of the medical community in relation to primary measures in burn injuries in Rasht in 1400, 2019
7. Determination of LA50 in burn patients referred to burn hospital in Rasht province during 1393
8. The effects of concomitant use of oxandrolone and propranolol on post-burn hypermetabolic changes, 2020
9. Evaluation of the relationship between serum vitamin D level at the time of admission and clinical outcomes of pediatric burn patients (0-18 years) in Rasht, 2020
10. Evaluation of the relationship between serum vitamin D level at the time of admission and clinical outcomes of adult burn patients aged 18-89 years in Rasht province, 2020
11. Evaluation of the combined effect of intralesional injection of triamcinolone and verapamil in the treatment of colloidal scar after surgery: A clinical trial, 2020
12. Evaluation of the effect of adding probiotic lactoker product in the treatment of acute and severe thermal burns, a clinical trial, 2020
13. Comparison of intralesional injection of triamcinolone with verapamil in colloidal scars caused by burns in patients referred to burn hospital of Guilan University of Medical Sciences, 2020
14. Evaluation of the effects of COVID-19 pandemic on epidemiology and short-term and long-term clinical consequences of burn injuries in the burn center of the province in 1397-1400, 2020
15. Effect of LPS-activated bone marrow-derived mesenchymal stem cell environment on behavioral symptoms and inflammatory factors in a co-induced multiple sclerosis model in C57BL / 6 mice, 2020
16. Study of the relationship between social anxiety and pain catastrophe with return to work in burn patients referred to the provincial hospital in 1400, 2020
17. Safety and effectiveness of *Lactobacillus* bacteria supernatant spray in 2nd degree burn wounds: a randomized clinical trial, 2021



18. Study of nosocomial infection control index in health care staff of Rasht province before and after the outbreak of corona pandemic, in 1398-1400, 2021
19. Determining the effectiveness of acceptance and commitment-based approach and solution-oriented approach on mental health and quality of life of burn patients: a clinical trial study
20. Phase one and two clinical trial studies on the safety and efficacy of ointments made of plant-animal origin (dermal healing) in patients with chronic diabetic foot ulcers referred to the Rasht Accident and Burn Center, 2021
21. Preparation of polypropylene scaffold and evaluation of its biocompatibility in vitro and in vivo for use in hernia treatment in rat model, 2021
22. Study of repair effects of antibacterial hydrogel wound dressings based on polyvinyl pyrrolidone / polyacrylic acid containing zinc oxide nanoparticles on the shear wound model of male rats, 2021
23. The effect of Remote Ischemic preconditioning on the complications and clinical outcome of patients with severe burns, a randomized clinical trial study, 2021
24. Evaluation of the relationship between demographic and clinical characteristics with the consequences of work-related burns in patients referred to the provincial hospital, 2021
25. Evaluation of a single dose of estradiol valerate on the duration of hospitalization and its consequences in patients with severe burns: A clinical trial, 2021
26. Semi-crushed polyvinyl alcohol / polyacrylic acid hydrogel dressings containing portulaca oleracea extract: In vivo and in vivo evaluations, 2021
27. Survey of knowledge, attitude and practice of medical and administrative staff of Rasht hospital in the face of Covid-19 virus, 2021
28. Evaluation of the effect of naringin apoptosis on cellular signaling pathways: AKT / PTEN, MAPK and Casp3 in HeLa cervical cancer cells and HUVEC normal cells, 2021
29. Construction and evaluation of an early detection device for myocardial infarction by monitoring the level of lipocalin 2, 2021
30. Evaluation of the effectiveness of melatonin along with vitamins C and E on the outcomes of patients with acute and severe burns referred to the educational and medical center of Rasht province in 1400, 2021
31. Investigating the relationship between coping strategy and quality of life related to health in burn patients in Rasht in 1400
32. Evaluation of the effects of RDW predictors in survival analysis of severe burn patients in Velayat hospital from January 2020 to January 2022
33. Determination of LA50 index (50% lethality level) in burn patients admitted to burn hospital in Rasht province in 1395-1400
34. Evaluation of safety and effectiveness of collagen wound extracted from fish skin in acute burns with relative thickness; Random phase one and two clinical trials, 2021
35. Evaluation of the rate of return to work and the factors affecting it in burn victims admitted to the Center for Burns and Reconstructive Surgery in Rasht province in the years 1396 to 1399
36. Determining the 10-year risk of cardiovascular disease in patients with burns referred to Rasht hospital, 2021
37. Evaluation of bleeding control and outcome of intravenous tranexamic acid injection during debridement and skin graft in burn patients, 2021



38. Epidemiological study and mortality of patients hospitalized due to burns in the intensive care unit of Velayat hospital from 1388 to 1398
39. Investigating the factors affecting the death rate of patients in the burn ward of Rasht city hospital in 1398
40. Investigation of factors related to bed sores in Poursina Hospital during 1396-1398
41. Evaluation of early graft results in burn patients admitted to Rasht hospital in 1397 and 1398
42. Evaluation of the relationship between serum sodium level and outcome in adult patients with severe burns in Rasht hospital in the period of April 2016 to March 2017
43. Frequency of etiology of burns following seizures in patients referred to burn hospital in the province between 1396-1398
44. Predictive effect of brain MRI findings on the outcome of severe burn patients
45. Epidemiological study of toxic skin necrolysis in patients admitted to the burn center of Rasht province, from April 2010 to April 2016
46. Frequency of outcomes of patients undergoing acute abdominal surgery in the first six months of Covid-19 pandemic in Poursina and Rasht hospitals
47. Investigating the factors affecting the quality of life of adults with chronic burns in Guilan
48. Evaluation of factors related to acute kidney injury in patients with severe burns in Rasht educational and medical center in 1395-1399
49. Epidemiology and clinical consequences of electric burn in patients admitted to burn center in Rasht province from 1389 to 1399
50. Comparison of frequency and outcomes of patients with acute burn with quid with non-quid referring to Rasht hospital in 1399
51. Epidemiological study of burn patients admitted to Velayat hospital from 1390 to 1400
52. Evaluation of factors related to serum albumin level and its consequences in burn patients referred to Guilan University of Medical Sciences Hospital in 1399
53. Investigating the Relationships between Social Support, Resilience and Psychological Complications in Burn Patients Referred to Rasht Hospital in 1400
54. Evaluation of the effectiveness of ZnO_TiO₂ nanoparticles on antibiotic-resistant *Pseudomonas aeruginosa* isolated from burn patients in Rasht hospital and the effect of these nanoparticles on burn wounds of Wistar albino rat animal sample in 1400
55. Comparative study of epidemiology and consequences of burns during a one-year period of outbreak of Covid-19 pandemic in 1399 compared to a period of one year earlier, in burn patients admitted to Rasht hospital in 1398
56. Investigation of drug abuse and its consequences in adult burn patients admitted to Velayat Medical Center in Rasht in 1400
57. Evaluation of changes in lipid profile and its relationship with clinical outcome of burn patients admitted to Rasht hospital in 1400
58. Comparison of prognostic value of lactic acid factors, serum base deficiency, ESR and CRP in outcome in burn patients over 25% admitted to Rasht hospital in 1399-1401
59. The effect of relaxed breathing technique training on pain control at the time of changing the burn dressing in outpatients referred to the burn accident clinic in 1399
60. Evaluation of the effect of using medical honey in comparison with Advan disposable stapler in attaching skin grafts to burn wounds, a clinical trial



61. The effect of albumin administration time on the incidence of fluid retention in patients with severe burns in Velayat hospital
62. Comparison of the effect of biological dressings (amniotic fluid) with traditional dressings in the treatment of burn wounds less than 24 hours, second degree depth of 5 to 20% in patients referred to the provincial hospital
63. Evaluation of the effects of severe burns on function and volume in patients referred to the emergency department of Rasht hospital in 1399-1400
64. Evaluation of parents' adaptation to burn injuries of children in acute and chronic phases in burn patients in Rasht province in 1400
65. Comparison of mortality prediction models in burn patients of burn intensive care unit of Rasht province
66. Evaluation of the effectiveness of gelatin alginate hydrogel containing probiotic microorganisms and melatonin as a biological dressing for burns with relative thickness
67. Evaluation of the agreement between shock index and open deficit in determining the severity of shock in patients with severe burns in Rasht training center during the years 1397 to 1400
68. Prevalence of infection with *Klebsiella pneumoniae* isolates and antibiotic susceptibility to routine antibiotics in patients admitted to burn hospital in Rasht province in 1397-1399
69. Prevalence and pattern of antibiotic susceptibility of bacteria causing respiratory tract infections due to mechanical ventilation in burn patients admitted to Rasht Hospital in 1397-1400
70. Study of effective factors on mortality of burn patients infected with non-fermentative gram-negative bacteria hospitalized in Rasht province in 1397-1400
71. Prevalence and pattern of antibiotic resistance of carbapenem-resistant enterobacteriaceae isolates in burn patients admitted to Rasht hospital in the period of 1397-1400
72. The relationship between social support and anxiety and depression in patients with diabetic foot ulcers referred to the medical training center of Rasht province in 1400
73. Survival analysis of burn patients under mechanical ventilation admitted to the burn intensive care unit of the province's training center in 1390-1400
74. Prevalence of infection with *Enterobacter* isolates and the degree of antibiotic susceptibility to routine antibiotics in patients admitted to Rasht Burn Hospital in 1397-1400
75. Evaluation of therapeutic effects of Remote ischemic preconditioning and Remote ischemic postconditioning on lower extremities in patients undergoing coronary artery bypass surgery Multicenter study: Phase two clinical trial
76. Investigating the effect of mesoporous silica nanocomposites MCM-41 and MCM-41@SO₃H on absorption and removal of *Pseudomonas aeruginosa* endotoxin from human serum
77. Examining the awareness, attitude and performance of the medical and administrative staff of Rasht Province Hospital in the face of the Covid-19 virus
78. A review of the effect of topical use of 5% potassium permanganate solution on foot ulcers of diabetic patients - a randomized controlled clinical trial
79. Investigating the effect of adding ranolazine to standard burn treatment on the complications and clinical outcome of patients with severe burns: a double-blind clinical trial including placebo
80. Investigating the relationship between the serum level of vitamin D, calcium and albumin with the outcome of patients with *pseudomonas* infection admitted to the burn hospital of Rasht province during the years 1398-1400



81. Investigation of changes in thyroid hormones and its relationship with prognosis in severe burn patients hospitalized in the special care department of Velayat Hospital in the period from the beginning of 1400 to the end of 1401
82. Investigating the relationship between the mechanisms of parents' ability to cope with stress and quality of life in children with burns in the acute and chronic phases in the center of Rasht province in 1401
83. Investigating the effect of Body Mass Index on the outcome of patients with severe burns admitted to the Velayat Medical Training Center - from the beginning of April 2018 to the end of March 2021
84. Determining Framingham general cardiovascular risk score in burn patients referred to Rasht province hospital
85. The effect of amniotic fluid and onion skin extract on surgical wound
86. Investigating the effect of aqueous and alcoholic extracts of *Calendula officinalis* in inhibiting the growth of fungal agents isolated from skin infections caused by burns in vitro
87. Investigating the changes of base defect, serum albumin level and CRP to albumin ratio and its relationship with the outcome in patients with severe burns hospitalized in the special care department of the educational and therapeutic center of the province in 2017-2018
88. Investigating the epidemiology, consequences and costs of chemical burns in patients referred to Rasht Province Hospital (1388-1400)
89. Investigating the relationship between itching and pain caused by burns on the mental health of burn patients in Rasht province hospital in 1401
90. Investigating the prevalence of delirium and its related factors in burn patients hospitalized in special burn care units of Velayat Hospital in 1401
91. Investigating the inhibitory effect of aqueous and alcoholic extracts of *Myrtus communis* on the growth of fungal agents isolated from skin infections caused by burns in laboratory conditions
92. Investigation of clinical manifestations of nosocomial infections in burn patients hospitalized in Rasht province hospital in the years 1397-1401
93. Investigating the status of the bacterial contamination pattern of the hospital environment and the pattern of nosocomial infections in the educational center of Rasht province 1397-1401
94. Making and evaluating the safety and efficacy of the ointment prepared from plant extracts with synbiotics in patients with deep second-degree burns.
95. Investigation of the safety and effectiveness of the blood astringent powder extracted from biological waste under the response surface methodology (RSM) in patients with 2 relative thickness burns.
96. Investigation of the safety and effectiveness of polymeric wound dressing containing lactic acid and ϵ -caprolactone in the treatment of deep 2nd degree burn wounds (first and second phase of clinical trial)
97. Examining the pattern of antibiotic resistance and the incidence of surgical site infections after abdominal surgery in Poursina Hospital in Rasht in 1402-1401
98. Determining the trend of changes in erectile function in men with chronic thermal burns in the Velayat Hospital in Rasht during the period of 1403-1404
99. Investigating the value of neutrophil-to-lymphocyte ratio, platelet-to-lymphocyte ratio, and mean platelet volume in predicting outcome (debridement or amputation) in patients with diabetic foot ulcers admitted to Velayat Hospital in Rasht in ۱۳۹۸-۱۴۰۲
100. Investigation of drug abuse and its consequences in adult burn patients admitted to Velayat Medical Center in Rasht in 1400
101. Investigating the relationship between the serum level of vitamin D, calcium and albumin with the outcome of patients with pseudomonas infection admitted to Velayat Burn Hospital in Rasht during 1398-1400
102. Examining the frequency and related factors on the amount of transfusion in patients with severe burns in Velayat educational and treatment center in 1402



103. Investigating the relationship between diabetes and clinical outcomes of severe burn patients referred to Velayat Medical Training Center in 1401-1403
104. Determining the factors related to mortality in women with burns admitted to Velayat Medical Training Center in Rasht during 1393-1403
105. Predicting the probability of amputation in patients with diabetes based on the grading of diabetic foot ulcers in Velayat and Poursina hospitals in 1403
106. Investigating the relationship between perceived social support and self-esteem in burn patients referred to Velayat Hospital in Rasht in 1402-1403
107. Study of the frequency and factors associated with the rate of blood transfusion in patients with severe burns at the Velayat Educational and Medical Center in 1402
108. Study of the relationship between diabetes and clinical outcomes of severe burn patients referred to the Velayat Educational and Medical Center in 1401-1403
109. Determination of factors associated with mortality in women with burns hospitalized at the Velayat Educational and Medical Center in Rasht during 1393-1403
110. Study of graded diabetic foot ulcers and its associated factors in patients with diabetes referred to Velayat and Poursina Educational and Medical Centers, Rasht City in 1403
111. Study of the relationship between perceived social support and self-esteem in burn patients referred to the Velayat Educational and Medical Center in 1404
112. Epidemiological study of the causes and patterns of self-immolation in burn patients referred to the Velayat Educational and Medical Center in Rasht during 1396-1403
113. Study of the prevalence and risk factors associated with depression, anxiety, and stress in patients with type 2 diabetes referred to Velayat and Poursina hospitals in 1403
114. Evaluation of the relationship between postoperative hypothermia and length of stay in adult patients with severe burns hospitalized in Velayat Rasht Educational and Medical Center in 1400-1403
115. Study of the effect of bacteriocins of indigenous probiotic bacteria on biofilm formation of *Pseudomonas aeruginosa* strains isolated from burn wounds in vitro
116. Study of the relationship between blood groups and hospital-acquired infection in burn patients hospitalized in Rasht Province Educational and Medical Center in 1403
117. Study of the relationship between urea and creatinine levels and the outcome of burn patients with infection hospitalized in Rasht Province Educational and Medical Center in 2025
118. Study of the relationship between gender and burn outcomes in adult patients hospitalized in Rasht Province Educational and Medical Center - September 1398 to the end of September 1403
119. Study of the relationship between satisfaction with appearance and sexual satisfaction in female burn survivors referred to Velayat Hospital in Rasht in 1403
120. Study of the frequency of urinary tract infection and bacterial causes in burn patients referred to the Rasht Provincial Educational and Medical Center in 1400-1404
121. Study of the relationship between underlying neurological diseases and burn outcomes and related factors in patients hospitalized in Velayat Educational and Medical Center
122. Study of the pattern of use of antacids (pantoprazole and famotidine) in the prevention of gastric ulcers in burn patients hospitalized in Velayat Burn Trauma Hospital, Rasht, 1403
123. Study of the incidence of hospital-associated infections and microbial causes in burn patients referred to the Rasht Provincial Educational and Medical Center in 1400-1404

Collaborator in research projects:



1. Investigating the factors affecting the length of stay and the cost of burn patients hospitalized in Rasht province
2. Epidemiology of burns in preschool children in the province hospital in 1395
3. The relationship between spiritual experiences and life expectancy and death anxiety in patients with burns referred to the Center for Accidents and Burns and Reconstructive Surgery in Rasht province in 1397
4. Evaluation and comparison of the effect of Orem self-care education from two traditional methods and social networks on self-care behaviors and quality of life in burn patients referred to Rasht hospital in 1398-1399
5. Evaluation of *Pseudomonas aeruginosa* antibiotic resistance pattern and the presence of IMP-1, IMP-2, VIM-1, VIM-2 genes in imipenem resistant strains in isolated samples from burn wound patients in Rasht hospital in 1397-1398
6. Evaluation of relative frequency of mutations in QRDR (quinolone resistance determining region) in *Pseudomonas aeruginosa* resistant and ciprofloxacin sensitive strains isolated from patients with burn wound infection in Rasht hospital in 1397
7. Investigating the relationship between biofilm formation ability and some clinical outcomes in *Pseudomonas aeruginosa* strains isolated from burn wounds of patients admitted to Velayat Hospital in 1401
8. Evaluation of the effect of oral consumption of olive oil and flaxseed oil on acute wound size and inflammatory indices in burn patients referred to the medical center of Rasht province in 1396-97
9. Evaluation of antibiotic resistance pattern and gene expression of secretory system type three (exotoxin ExoU) by qRT-PCR method in *Pseudomonas aeruginosa* isolated from burn wounds of patients admitted to burn center in Rasht province
10. Determining the cost of services provided in the plastic surgery department of Rasht hospital using activity-based costing method in 1397
11. Investigating the effects of severe burns on liver function and volume in patients referred to the emergency room of Rasht Province Hospital in 1399-1400
12. Evaluation of the relationship between changes in serum albumin levels and the outcome of burn patients admitted to Velayat Hospital from the beginning of January 2015 to the end of January 2017
13. The effect of native probiotic bacteria on the inhibition of some pathogens of *Pseudomonas aeruginosa* isolates isolated from burn wounds admitted to Velayat hospital in 1400
14. The effect of MCM-41 and MCM-41@SO₃H mesoporous silica nanocomposites on the uptake and removal of *Pseudomonas aeruginosa* endotoxin from human serum
15. Study of safety and efficacy of platelet-derived mitochondrial transplantation in deep burns (grade 3) - Phase one and two clinical trials
16. Evaluation of safety and efficacy of stromal vascular graft transplantation on diabetic foot ulcer - first and second phase of clinical trial
17. Evaluation of changes in serum phosphate levels in severe burn patients admitted to the intensive care unit of Velayat Hospital, February 2016 to February 2017
18. Evaluation of prophylactic effect of oral gabapentin on nausea and vomiting after excision and graft surgery in burn patients
19. Evaluation of changes in serum uric acid level as a biomarker predicting acute premature renal failure in patients with severe burns



20. Investigating the effectiveness of alginate gelatin hydrogel containing probiotic microorganisms and melatonin as a biological dressing for burns with relative thickness
21. The effect of medium derived from bone marrow-derived mesenchymal stem cells activated with LPS on behavioral symptoms and inflammatory factors in multiple sclerosis model induced by cuprizone in C57BL/6 mice.
22. Investigating the therapeutic effects of remote organ ischemia before and after surgery on the lower limbs in patients undergoing coronary artery bypass surgery, a multicenter study: phase two clinical trial
23. Study of the effectiveness of platelet-derived mitochondrial transplantation in patients with sepsis: Phase II clinical trial
24. Preparation and evaluation of repair properties of hydrogel dressings based on polyacrylic acid and xanthan gum in rat shear wound model
25. Examining parents' adaptation to children's burn injuries in acute and chronic phase in burn patients of Rasht province center in 1400
26. Studying the healing effects of hydrogels containing hyaluronic acid extracted from cock's crown for wound healing
27. Comparison of mortality prediction models in burn patients of burn intensive care unit of Rasht training center
28. Prevalence of candidiasis and its related causes in burn patients admitted to Rasht hospital (December 1400 to December 1401)
29. Evaluation of direct treatment and non-treatment costs of care and treatment of patients with Covid 19 in teaching hospitals of Guilan province
30. Fabrication, characterization and investigation of wound healing properties of scroglucan-based hydrogels in rat model
31. Examining the knowledge, attitude and performance of nurses working in the burn departments of Velayat Hospital regarding the prevention of pressure ulcers in 2011
32. Investigating the protective effects of inducing heme oxygenase-1 on adipose-derived mesenchymal stem cells in a laboratory environment
33. Comparative study of the effect of two methods of using transcutaneous electrical nerve stimulation (TENS) and aromatherapy with sweet orange essential oil on pain after inguinal hernia surgery.
34. Isolation and identification of fungal agents isolated from burn lesions using mycological and molecular methods and determination of their drug sensitivity to common antifungal drugs and some herbal drugs separately and in combination in isolates isolated from patients hospitalized in Superspecialized burn hospital in Rasht province in 1400-1401
35. Determining the effect of traditional dressings and amniotic dressings on the repair of facial abrasions: a randomized controlled trial.
36. Investigating the rate of return to work and the factors affecting it in the injured with severe burns admitted to the burn accidents and reconstructive surgery center of Rasht city between 1396 and 1399.
37. Investigating the safety and effectiveness of xanthan-based hydrogel dressing containing niacinamide and menthol in the treatment of 2nd degree burn wounds (clinical trial)
38. Investigating inflammatory parameters, infection and recurrence of modified surgical mesh implantation in the repair of abdominal visceral protrusions: a clinical trial.



39. A five-year study comparing the pattern of antibiotic prescription with the pattern of antibiotic sensitivity reported in the laboratory for *Pseudomonas* infections in the Burn Hospital of Rasht in 1397-1401
40. Investigating the effects of stromal vascular segment transplantation on the histopathological changes of induced endometriosis lesions in mice.
41. Investigating the safety and effectiveness of collagen wound dressings extracted from fish skin in acute burns; Phase one and two randomized clinical trials
42. Examining the pattern of prescribing antibiotic prophylaxis to prevent infections after abdominal surgery in Rasht's Poursina Hospital in 1401-1402
43. Investigating the expression of MDM2 marker in the samples obtained from patients with gastric cancer operated on and its relationship with the degree and staging of the pathology of the disease in Razi Hospital in Rasht in 1392 to 1397
44. Prediction of death in burn patients with septic shock infected with *Pseudomonas aeruginosa* using methods based on machine learning in Rasht province hospital in 1397-1400
45. Investigating the effect of ointment prepared from Abboshghabi plant (*Centella asiatica*) on third degree burns in the patients of burn accident center of Rasht province in 1397
46. Epidemiological investigation, consequences and factors related to mortality in women of reproductive age with burns in Guilan province in the years 1395-1401
47. Investigating the relationship between changes in serum albumin levels and the mortality of patients with severe burns hospitalized in the Velayat hospital in Rasht in the years 1395 to 1401.
48. Investigating the restorative effects of losartan ointment on hypertrophic and keloid scars caused by burn surgery in 1402 (clinical trial)
49. Investigating the relationship between the mechanisms of the ability to cope with stress and the quality of life of parents with children suffering from burns in the chronic phase in the Velayat center of Rasht in 1402
50. Investigating the relationship between the status of thyroid hormones and clinical outcomes in severe burn patients admitted to the intensive care unit of the Velayat Hospital in the period from the beginning of 1399 to the end of June 1402.
51. Investigation of the safety and effectiveness of hydrogel dressings based on polyacrylic acid and xanthan gum in the treatment of 2nd degree burn wounds (Phase II clinical trial)
52. Determining the trend of changes in erectile function in men with chronic thermal burns in the Velayat Hospital in Rasht during the period of 1403-1404
53. Investigating the efficacy of melatonin, vitamin C and E on the sleep quality of burn patients: a randomized clinical trial
54. Investigation of the frequency of premature hypoalbuminemia and its consequences in patients with severe burns hospitalized in the special care department of Velayat educational-therapeutic center in Rasht in 1402
55. Epidemiological study of burns in newborns admitted to Velayat Medical Training Center in Rasht in a 10-year period
56. Investigating premature coagulation disorders and its relationship to the outcomes of patients with severe burns hospitalized in the special care department of Velayat Medical Training Center in Rasht from the beginning of 1402 to the end of 1403
57. Study of the pattern of use of antacids (pantoprazole and famotidine) in the prevention of gastric ulcers in burn patients hospitalized in Velayat Burn Trauma Hospital, Rasht, 1403



Published books (authorship/translation):

1. Non-thermal burns (electrical, chemical and frostbite), (2014)
2. Burn handbook, (2017)
3. Burn care and treatment, (2022)
4. Nursing care in burn (2022)
5. Care and treatment of pediatric burns (2023)

Patented innovation/invention:

1. Making a device for measuring the pressure of burn clothes (2016)
2. Designing and making a device to hold both ends of the peripheral nerve (2016)
3. Local bacterial oil solution with chicory root extract (2022)
4. Mechanical charging plug-in device for cleaning surgical bone-breaking tools (2022)
5. Smart medical wristband (1404)

Awards:

The top speaker at the 10th national burn congress in Mazandaran province (2021).

The top professor of Guilan University of Medical Sciences (2022).

The top physician of Guilan University of Medical Sciences (2022).

The top researcher of Guilan University of Medical Sciences (2022).

The top researcher and technologist of Guilan University of Medical Sciences (2023).

The top speaker at the 11th national burn congress in Tehran province (2023).

Ranked Among the World's Top 2% Scientists by Stanford University (Elsevier), 2024

❖ Technical Skills

● Design methodology of studies:

- ✓ Systematic review and meta-analysis
- ✓ Systematic review
- ✓ Narrative review
- ✓ Cross-sectional
- ✓ Analytical
- ✓ Case Report

● Software



- ✓ Word office, Excel, PowerPoint
- ✓ Statistical analysis by SPSS
- ✓ Reference management by EndNote
- ✓ Comprehensive meta-analysis

- **Languages:**

- ✓ **English:** Native speaker
- ✓ **Persian:** Native speaker



References:

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