

Dr. Mohammadreza Mobayen

Head of Velayat burning and reconstructive surgery sub-specialty center and Burn and Regenerative Medicine Research Center



Personal information:

Nationality: Iranian

Date of Birth: Tuesday ۰۳ June 1975

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Google scholar ID	https://scholar.google.com/citations?user=AxsOIMEAAAAJ&hl=en

Academic background:

Doctorate of Medicine (M.D.), Faculty of Medicine, Guilan University of Medical Sciences (GUMS), Graduation date: May 4, 2000

Thesis: “Evaluation of relative frequency of HBs-Ag positive and HCV-Ab positive in patients diagnosed with cirrhosis in Razi and Poursina hospitals

Assistant Professor of Surgery, Department of General Surgery, School of Medicine, Guilan University of Medical Sciences: September 22, 2009.

Thesis: “Evaluation of the effect of celecoxib before and after laparoscopic cholecystectomy on pain and drug use of patients referred to Dr. Shariati Hospital in 2007-2008”

Fellowship in plastic and burn reconstructive surgery, Guilan University of Medical Sciences

Year	Title
2012 - 2020	Guilan University of Medical Sciences, Rasht, Iran
2015 - 2020	Guilan Road Trauma Research Center GUMS, Rasht, Iran
2014 - 2017	Velayat Hospital GUMS, Rasht, Iran
2012 - 2014	Tehran University of Medical Sciences, Tehran, Iran
2014	Iran University of Medical Sciences, Tehran, Iran
2013	Shahid Motahari Burn Hospital, Tehran, Iran
2010	Shariati Hospital, Tehran, Iran
2010	School of Medicine, Tehran, Iran

Articles published:

1. 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
2. Combination Therapy of Metadichol Nanogel and Lipocalin-2 Engineered Mesenchymal Stem Cells Improve Wound Healing in Rat Model of Excision Injury, *Advanced Pharmaceutical Bulletin*, 2021
3. 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
4. Evaluation of clinical and laboratory causes of burns in pre-school children, *Journal Current Biomedical Reports* 2 (1), 27-31, 2021
5. Predicting hope to be alive using spiritual experiences in burn patients, *Annals of the Romanian Society for Cell Biology*, 18957-18962, 2021
6. The epidemiology and outcome of burn injuries in Iran: A ten-year systematic review and meta-analysis, 2021
7. Prevalence of Bed sores among Patients Referring to a Medical Center in Iran *Journal of ١٧-٢٥ , (١) ٩ Surgery and Trauma*, 2021
8. The length of stay and cost of burn patients and the affecting factors, *International journal of burns and trauma*, 2021
9. 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
10. The presentation of spontaneous splenic rupture in a COVID-19 patient: a case report, *BMC surgery* 20 (1), 1-5, 2020
11. 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
12. 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
13. The Frequency of Bacterial Colonization in Burn Wounds and Antibiogram 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 ...*, 2019
14. Changes in serum phosphorus level in patients with severe burns: A prospective study, *Burns* 45 (8), 1864-1870, and 2019
15. 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
16. 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
17. Comparison of Chest X-ray and Clinical Findings in Trauma Patients after Chest Tube Removal, *Journal of Clinical & Diagnostic Research* 12 (7) ,2018
18. Effect of early grafting on improvement of lethal area index (Ia50) 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. 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 ...*, 2017
20. 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

21. Serial clinical examinations of 100 patients treated for anterior abdominal wall stab wounds: a cross sectional study, *Trauma monthly* 20 (4), 2015
22. Treatment Outcome of Total Thyroidectomy for Multinodular Goiter, *Zahedan Journal of Research in Medical Sciences* 17 (8), 2015
23. Survey of 2582 cases of acute orthopedic trauma, *Trauma monthly* 19 (4), 2014
24. Electrical burn injury: a five-year survey of 682 patients, *Trauma monthly* 19 (4), 2014
25. Colonization of *Mycoplasma hominis* and *Ureaplasma urealyticum* in pregnant women and their transmission to offspring, *Iranian Journal of microbiology* 6 (4), 219, 2014
26. Epidemiology and outcome of burn injuries in burn patients in Guilan province, Iran, *Qom University of Medical Sciences Journal* 7 (5), 35-41, 2013
27. 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
28. 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
29. 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
30. Burnt wives in Tehran: a warm tragedy of self-injury, *International journal of burns and trauma* 3 (1), 66, 2013
31. 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
32. Epidemiology of burn injuries at a newly established burn care center in Rasht, *Trauma monthly* 17 (3), 341, 2012
33. 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
34. 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

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 macrololysis 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)

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, 2017

2. Evaluation of the effect of ointment prepared from Centella asiatica on third degree burns in patients of burn accident center in Rasht province in 1397, 2018

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 2016, 2018

4. Estimation of economic burden due to self-immolation in Gilan province during the years 1386 to 1396, 2019

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 2014, 2020

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 1300-1400, 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. Phase one study of clinical trial (safety assessment) of Lactobacillus supernatant spray of 2nd degree burn wounds in patients referred to Burn Accident Center of Rasht province, 2021
18. Study of nosocomial infection control index in health care staff of Rasht province before and after the outbreak of corona pandemic, in 1300-1400, 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, 2021
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, 2021

32. Evaluation of the effects of RDW predictors in survival analysis of severe burn patients in Velayat hospital from January 2017 to January 2015, 2021
33. Determination of LA50 index (50% lethality level) in burn patients admitted to burn hospital in Rasht province in 2016-2017, 2021
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 1400, 2021
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
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38. Epidemiological study and mortality of patients hospitalized due to burns in the intensive care unit of Velayat hospital from 1988 to 1998
39. Investigating the factors affecting the death rate of patients in the burn ward of Rasht city hospital in 1998
40. Investigation of factors related to bed sores in Poursina Hospital during 2017-2017
41. Evaluation of early graft results in burn patients admitted to Rasht hospital in 1997 and 1998
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 1996-98
44. Predictive effect of brain MRI findings on the outcome of severe burn patients
45. Epidemiological study of toxic skin necrosis 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 Gilan
48. Evaluation of factors related to acute kidney injury in patients with severe burns in Rasht educational and medical center in 2016-2016
49. Epidemiology and clinical consequences of electric burn in patients admitted to burn center in Rasht province from 2010 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 2011 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. Evaluation of substance abuse and its consequences in adult burn patients admitted to Rasht medical center 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 1399-1400
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 liver 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 2016-2017
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 2011-2012
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

Collaborator in research projects:

1. Evaluation of direct treatment and non-treatment costs of care and treatment of patients with Covid 19 in teaching hospitals of Guilan province

2. Prevalence of candidiasis and its related causes in burn patients admitted to Rasht hospital (December 1400 to December 1401)
3. Comparison of mortality prediction models in burn patients of burn intensive care unit of Rasht training center
4. Preparation and evaluation of repair properties of hydrogel dressings based on polyacrylic acid and xanthan gum in rat shear wound model
5. Study of the effectiveness of platelet-derived mitochondrial transplantation in patients with sepsis: Phase II clinical trial
6. Evaluation of changes in serum uric acid level as a biomarker predicting acute premature renal failure in patients with severe burns
7. Evaluation of prophylactic effect of oral gabapentin on nausea and vomiting after excision and graft surgery in burn patients
8. Evaluation of changes in serum phosphate levels in severe burn patients admitted to the intensive care unit of Velayat Hospital, February 2016 to February 2016
9. Evaluation of safety and efficacy of stromal vascular graft transplantation on diabetic foot ulcer - first and second phase of clinical trial
10. Study of safety and efficacy of platelet-derived mitochondrial transplantation in deep burns (grade 3) - Phase one and two clinical trials
11. The effect of MCM-41 and MCM-41 @ SO₃H mesoporous silica nanocomposites on the uptake and removal of *Pseudomonas aeruginosa* endotoxin from human serum
12. 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
13. 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
14. Determining the cost of services provided in the plastic surgery department of Rasht hospital using activity-based costing method in 1397
15. Evaluation of antibiotic resistance pattern and gene expression of secretory system type three (exotoxin ExoU) by qRT-PCR method in *Sodomonas aeruginosa* isolated from burn wounds of patients admitted to burn center in Rasht province
16. 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
17. Evaluation of the relative frequency of biofilm-forming strains in *Pseudomonas aeruginosa* isolated from burn wounds of patients admitted to the burn accident center of Rasht province
18. 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
19. 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
20. 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
21. 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
22. Investigating the factors affecting the length of stay and the cost of burn patients hospitalized in Rasht province