



CURRICULUM VITAE



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Professor of Clinical Pharmacy

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Personal History

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Place of Birth: Iran

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University Education

Degree	Field of Study	School/Faculty	University	Year
PharmD	Pharmacy	Faculty of Pharmacy	Tehran University of Medical Sciences	1991-1997
Specialty	Clinical Pharmacy	Faculty of Pharmacy	Faculty of Pharmacy	1997-2003
6 Month Scholarship	Critical Care Pharmacotherapy	University of British Columbia (UBC)- Vancouver-Canada	UBC - St Paul's Hospital-	2003

Teaching Specialty

- Pharmacotherapy
- Clinical Pharmacy
- Hospital Pharmacy

Honors and Awards

Award	Place	Year
Selected Medical Researcher of Mazandaran Province	Mazandaran University of Medical Sciences, Sari, Iran	2009
Selected Medical Researcher of Faculty of Pharmacy, Mazandaran University of Medical Sciences	Mazandaran University of Medical Sciences, Sari, Iran	2011
Award of "National Congress of Rational Prescription of Antibiotics" (the best Educational Presentation)	Mazandaran University of Medical Sciences, Sari, Iran	2011
Award of "Ministry of Health" in the ceremony of "World Health Day"	Ministry of Health and Medical Education-Tehran-Iran	2012
Selected as the prominent clinical pharmacist in the country by "Iranian Medical Council"	Iranian Medical Council Tehran-Iran	2019

Publications

- 118- Azizi H, Rouhani N, Shaki F, Karimpour-Razkenari E, Ghazaeian M, **Salehifar E**, Saeedi M, Fallah S. Pentoxifylline effects on hospitalized patients with COVID19: A randomized, double-blind clinical trial; Publication date: 2021/10/6
- 117- Rouhani N, Karimpour-razkenari E, Alizadeh Forutan M, Ghazaeian M, **Salehifar E**, Rezai MS, Fallah S. Efficacy and Safety of Interferon Beta-1b in the Management of Patients with COVID-19: A Prospective, Open-Label, Non-Randomized Trial 2021; 9(3): 129-136
- 116- Ghanbarzamani A, **Salehifar E**, Jafarirad A, Hesamirostami MH, Bagherzadehsaba A, Saeedi M, Ghazaeian M, Khorasani Gh, Moosazadeh M. Efficacy and Safety of 0.25% Timolol Gel in Healing Split-Thickness Skin Graft Site. Iranian Journal of Pharmaceutical Research 2021; 20 (3): 178-186
- 115- Sahebnasagh A, Saghafi F, Azimi S, **Salehifar E**, Hosseinimehr SJ. Pharmacological Interventions for the Prevention and Treatment of Kidney Injury Induced by Radiotherapy: Molecular Mechanisms and Clinical Perspectives. Current molecular pharmacology; Publication date 2021/8/24
- 114- Kasiri H, Rouhani N, **Salehifar E**, Ghazaeian M, Fallah S. Mometasone furoate nasal spray in the treatment of patients with COVID-19 olfactory dysfunction: A randomized, double blind clinical trial. International Immunopharmacology; Publication Date: 2021/6/12
- 113- Eslami G, Karimpour-razkenari E, Sharifi Y, Soleimani A, **Salehifar E**. Clinical points of intravenous pantoprazole consumption in Cardiac ICU. Pharmaceutical and Biomedical Research. 2021; 7 (3)
- 112- Karami H, Khalilzadeh Arjmandi H, **Salehifar E**, Darvishi Khezri H, Dabirian M, Kosaryan M, Aliasgharian A, Akbarzadeh R, Naeimayi Aali R, Nasirzadeh A. A Double-Blind, Controlled, Crossover Trial of Amlodipine on Iron Overload Status in Transfusion Dependent β -Thalassemia Patients. International Journal of Clinical Practice; Publication date 2021/5/10
- 111- Ala S, Tonkaboni S, Bazi A, **Salehifar E**. Medication Reconciliation and Drug–Drug Interactions: An Old Process with a New Approach. Journal of Pharmaceutical Care 2021; 9 (1), 39-44
- 110- Ghanbarzamani AH, **Salehifar E**, Kazemian K. A case of erythema multiforme caused by sildenafil plus tramadol. Pharmaceutical and Biomedical Research 2021; Publication date; 2021/1/10
- 109- Hosseininasab M, Zarghami M, Mazhari M, **Salehifar E**, Moosazadeh M, Fariborzifar A, Babaeirad S, Hendouei. Nanocurcumin as an Add-on to Antipsychotic Drugs for Treatment of Negative Symptoms in Patients With Chronic Schizophrenia: A Randomized, Double-Blind, Placebo-Controlled Study. N. Journal of Clinical Psychopharmacology 2021; 41 (1), 25-30
- 108- Gheibi Sh, Ala Sh, Heidari F, **Salehifar E**, Abbaspour Kasgari H, Moradi S. Evaluating the Effect of Dexmedetomidine on Hemodynamic Status of Patients with Septic Shock Admitted to Intensive Care Unit: A Single-Blind Randomized Controlled Trial. Iranian Journal of Pharmaceutical Research 2020; 19 (4): 255-263 DOI: 10.22037/ijpr.2019.112343.13699

- 107- Negarandeh R, **Salehifar E**, Saghafi F, Jalali H, Janbabaei G, Abdhaghghi MJ, Nosrati A. Evaluation of adverse effects of chemotherapy regimens of 5-fluoropyrimidines derivatives and their association with DPYD polymorphisms in colorectal cancer patients. *BMC cancer* 2020; 20 (1), 1-7
- 106- **Salehifar E**, Azimi S, Janbabai G, Zaboli E, Hendouei N, Saghafi F. Efficacy and safety of bupropion in cancer-related fatigue, a randomized double blind placebo controlled clinical trial. *BMC cancer* 2020; 20 (1), 1-9
- 105- Farzadi N, **Salehifar E**, Davoodi L, Abbaspour Kasgari H. Drug Utilization Evaluation of Imipenem and Assessing the Role of Pharmacist Interventions. *J Mazandaran Univ Med Sci* 2020; 30 (188): 100-106 (Persian).
- 104- Gholizadeh Shirdarreh G, Eslami G, Soleimani A, **Salehifar E**. Evaluation of Aminoglycosides Consumption in Open Heart Surgery Based on the Defined Daily; *Pharmaceutical and Biomedical Research*. Publication date 2020/7/29
- 103- Ala Sh, Kiadaliri S, **Salehifar E**. Role of Pharmacist in Reducing the Rate of Drug Interactions; An Experience from North of Iran. *J Mazandaran Univ Med Sci* 2020; 30 (187): 160-165 (Persian).
- 102- Bozorgi F, **Salehifar E**, Hosseinienejad SM, Moradi S, Janbazi Gh, Chabra A. Utilization of the Parenteral Morphine in Emergency Department using the Anatomical Therapeutic Chemical Classification/Defined Daily Doses (ATC/DDD) System. *Bull Emerg Trauma*. 2020 Jul; 8(3): 186–192. doi: 10.30476/BEAT.2020.86225
- 101- Davoodi L, Abedi SM, **Salehifar E**, Alizadeh-Navai R, Rouhanizadeh H, Khorasani Gh, Hosseinimehr SJ. Febuxostat therapy in outpatients with suspected COVID-19: A clinical trial. *Int J Clin Pract*. 2020 Jun 30 : e13600. doi: 10.1111/ijcp.13600 [Epub ahead of print]
- 100- **Salehifar E**, Sahebnasagh A, Saghafi F, Alipour A, Ghasemi A, Akbari J, Safdari MR, Rezai Ghaenlo H. Aloe vera for Prevention of Acute Radiation Proctitis in Colorectal Cancer: A Preliminary Randomized, Placebo-Controlled Clinical Trial, 2020/4/25
- 99- Sahebnasagh A, Ghasemi A, Akbari J, Alipour A, Lashkardoost H, Ala Sh, Hosseinimehr SJ, **Salehifar E**. Prevention of acute radiation-induced Proctitis by Aloe vera: a prospective randomized, double-blind, placebo controlled clinical trial in Pelvic Cancer patients. *BMC Complement Med Ther*. 2020; 20: 1-9 Published online 2020 May 13. doi: 10.1186/s12906-020-02935-2
- 98- **Salehifar E**, Tavakkoli Ardakani M. Cancer Treatment; New Strategies/New Hopes (Editorial). *Journal of Pharmaceutical Care*; 2020
- 97- Monajati M, Ala Sh, Aliyali M, Ghasemian R, Heidari F, Ahanjan M, Moradi S, Sharifpour A, Mojtahedzadeh M, **Salehifar E**. Clinical effectiveness of high dose versus standard dose of meropenem in ventilator-associated pneumonia caused by multidrug-resistant bacteria: a randomized single-blind clinical trial. *Infect Disord Drug Targets*. 2020 Feb 26. doi: 10.2174/1871526520666200227102013. Online ahead of print.
- 96- Darvishi-Khezri H, Kosaryan M, Karami H, **Salehifar E**, Mahdavi MR, Alipour A, Aliasgharian A. Can Use of Silymarin Improve Inflammatory Status in Patients with β -Thalassemia Major? A Crossover, Randomized Controlled Trial. *Complement Med Res*. 2020 Sep 24;1-8. doi: 10.1159/000509829. Online ahead of print.
- 95- Saei S, Sahebnasagh A, Ghasemi A, Akbari J, Yaghoobi Joybari A, Nejad Dadgar F, Ala Sh, Alipour A, **Salehifar E**. Efficacy of Sucralfate Ointment in Prevention of Acute Proctitis in Cancer Patients: a Randomized Controlled Clinical Trial. *Caspian Journal of Internal Medicine*. Publication date; 2020/1/1

- 94- Ala Sh, Zamani N, Akbari J, **Salehifar E**, Janbabai G, Koulaeinejad N. Efficacy of gabapentin mouthwash in managing oral mucositis pain in patients undergoing chemotherapy: a prospective, randomised, double-blind, controlled clinical trial. *Scottish Medical Journal* 65 (1), 12-18
- 93- **Salehifar E**, Janbabaei G, Alipour A, Tabrizi N, Avan R. Taxane-induced peripheral neuropathy and quality of life in breast cancer patients. *Journal of Oncology Pharmacy Practice, Journal of Oncology Pharmacy Practice* 26 (6), 1421-1428
- 92- **Salehifar E**, Janbabaei G, Hendouei N, Alipour A, Tabrizi N, Avan R. Comparison of the Efficacy and Safety of Pregabalin and Duloxetine in Taxane-Induced Sensory Neuropathy: A Randomized Controlled Trial. *Clinical Drug Investigation*, 40 (3), 249-257
- 91- Rafati MR, Ghasemi A, Saeedi M, Habibi M, **Salehifar E**, Mosazadeh M, Maham M. Nigella sativa L. for prevention of acute radiation dermatitis in breast cancer: A randomized, double-blind, placebo-controlled, clinical trial. *Complementary therapies in medicine. Complementary therapies in medicine* 47, 102205. Publication date 2019/12/1
- 90- Azimi S, **Salehifar E**, Janbabai Gh, Zaboli E, Hendouei N, Saghafi F, Borhani S. Efficacy and Safety of Bupropion in Quality of Life of Cancer Patients: A Randomized Double Blind Placebo Controlled Clinical Trial. *J Mazandaran Univ Med Sci* 2019; 29 (176): 20-33 (Persian).
- 89- Koulaeinejad N, Haddadi K, Ehteshami S, Shafizad M, **Salehifar E**, Emadian O, Mohammadpour RA, Ala Sh. Effects of minocycline on neurological outcomes in patients with acute traumatic brain injury: a pilot study. *Iranian Journal of Pharmaceutical Research. Publication Date: 2019/3/16*
- 88- Ghasemi A, Ghashghai Z, Akbari J, Yazdani-Charati J, **Salehifar E**, Hosseinimehr SJ. Topical atorvastatin 1% for prevention of skin toxicity in patients receiving radiation therapy for breast cancer: a randomized, double-blind, placebo-controlled trial. *European journal of clinical pharmacology; 2019; 75 (2), 171-178*
- 87- **Salehifar E**, Avan R, Janbabaei Gh, Mousavi SKH, Faramarzi F. Comparison of the incidence and severity of side effects profile of FOLFOX and DCF regimens in gastric cancer patients. *Iranian Journal of Pharmaceutical Research. Publication Date 2019/3/13*
- 86- Alikhani A, **Salehifar E**, Zamani F, Rafiei AR, Yazdani-Charati J, Delavaryan L, Akbari A, Babamahmoudi F. Comparison of azithromycin vs doxycycline prophylaxis in leptospirosis, A randomized double blind placebo-controlled trial. *The Journal of Infection in Developing Countries* 2018; 12 (11), 991-995
- 85- **Salehifar E**, Abd Haghighi MJ, Negarande R, Janbabaei Gh, Safgafi F, Jalali H. Dihydropyrimidine dehydrogenase gene variation and its association with 5-fluorouracil toxicity in colorectal patients. *Asian Pac J Cancer Biol.* 2018; 3 (3): 65-69
- 84- Saghafi F, **Salehifar E**, Janbabai Gh, Zaboli E, Hedayatizadeh-Omran A, Amjadi O, Moradi S. CYP2D6* 3 (A2549del),* 4 (G1846A),* 10 (C100T) and* 17 (C1023T) genetic polymorphisms in Iranian breast cancer patients treated with adjuvant tamoxifen. CYP2D6* 3 (A2549del),* 4 (G1846A),* 10 (C100T) and* 17 (C1023T) genetic polymorphisms in Iranian breast cancer patients treated with adjuvant tamoxifen. *Biomedical Reports. Publication date, 2018/11/1*
- 83- Ahmadi H, Ahangar N, Saghafi F, Ala S, Eslami G, **Salehifar E**. Drug Utilization Evaluation of Pantoprazole in a Teaching Hospital in North of Iran, 2016. *J Mazandaran Univ Med Sci.* 2018; 28 (162) :69-76
- 82- Jafari M, Ala Sh, Haddadi K, Alipour A, Mojtahedzadeh M, Ehteshami S, Abediankenari S, Shafizad M, Salehifar E, Khalili F. Cotreatment with Furosemide and Hypertonic Saline Decreases Serum Neutrophil Gelatinase-associated Lipocalin (NGAL) and Serum Creatinine Concentrations in

Traumatic Brain Injury: A Randomized, Single-Blind Clinical Trial (Summer 2018). Iranian Journal of Pharmaceutical Research. Available Online from 13 May 2018

81- Darvishi-Khezri H, **Salehifar E**, Kosaryan M, Karami H, Mahdavi M, Alipour A, Aliasgharian A. Iron-chelating effect of silymarin in patients with β -thalassemia major: A crossover randomised control trial. *Phytother Res*. 2018;32(3):496-503. doi: 10.1002/ptr.5995.

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78- Khazaei Sh, Keyhanian Sh, Monajati M, Ala Sh, **Salehifar E**. Drug utilization evaluation of high-dose methotrexate in a cancer center in north of Iran. *Tehran University Medical Journal*. 2017; 75 (9): 688-965

77- Darvishi-Khezri H, **Salehifar E**, Kosaryan M, Karami H, Alipour A, Shaki F, Aliasgharian A. The impact of silymarin on antioxidant and oxidative status in patients with β -thalassemia major: A crossover, randomized controlled trial. *Complement Ther Med*. 2017 Dec;35:25-32. doi: 10.1016/j.ctim.2017.08.007.

76- Sahebhasaghi A, Ghasemi A, Akbari J, Alipour A, Lashkardoost H, Ala Sh, **Salehifar E**. Successful Treatment of Acute Radiation with Aloe Vera: A Preliminary Randomized Controlled Clinical Trial. *The Journal of Alternative and Complementary Medicine*. 2017; 23 (11): 858-865.

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73- **Salehifar E**, Ebrahim Sh, Shiran MR, Faramarzi F, Askari Rad H, Avan R, Mohseni Kiasari A, Ebrahimi P. Pharmacokinetic Parameters and Over-Responsiveness of Iranian Population to Propranolol. *Advanced pharmaceutical bulletin*. 2017; 7(2): 195

72- Dehkia S, Kouchaki B, Janbabaei G, Shekarriz R, Ala Sh, **Salehifar E**. Evaluation of Drug Regimens Used for the Prophylaxis of Thromboembolic Events in a Referral Cancer Center in North of Iran. *Journal of Pharmaceutical Care*; 3(3-4): 61-66

71- Yousefi P, Monajati M, **Salehifar E**. Evaluation of prophylactic antibiotic administration in general surgery division of a teaching hospital in north of Iran. *Pharm Biomed Res* 2016; 2(4): 30-37

70- Ebrahimnejad P, **Salehifar E**, Kowsaryan M. Post-market Surveillance Study of Osveral, a Branded Generic Formulation of Deferasirox, and the original brand, Exjade *J Mazandaran Univ Med Sci* 2016; 26 (142): 238-244 (Persian).

69- Ala Sh, **Salehifar E**, Avan R, Ghasemishani S. Prevalence and Management of Stress Hyperglycemia in Critical Care Unit. *J Mazandaran Univ Med Sci* 2016; 26 (144): 1-11 (Persian).

68- Ghanbarzadeh K, Tabatabaie OR, **Salehifar E**, Amanlou M, Khorasani G. Effect of botulinum toxin A and nitroglycerin on random skin flap survival in rats. *Plast Surg (Oakv)*. 2016 ;24(2):99-102.

- 67- Ganji R, Ala Sh, Aarabi M , Baghery B, **Salehifar E**. Comparison of Dabigatran vs. Warfarin in Acute Venous Thromboembolism: Systematic Review. Iranian Journal of Pharmaceutical Research 2016; 15 (2): 611-617.
- 66- **Salehifar E**, Hosseinimehr SJ. The use of cyclooxygenase-2 inhibitors for improvement of efficacy of radiotherapy in cancers. Drug Discovery Today; 21 (4); 2016; 654-662.
- 65- Eslami G, Rezai MS, **Salehifar E**, Rafiei AR, Ilanguee T, Rafati MR, Shafahi KH. Epidemiology of Extended Spectrum Beta Lactamases Producing E. coli Genes in Strains Isolated from Children with Urinary Tract Infection in North of Iran. J Mazandaran Univ Med Sci 2015; 25(132): 270-279(Persian).
- 64- Darvishi Khezri H, Kosaryan M, **Salehifar E**. Silymarin therapy and improvement of cardiac outcome in patients with β -thalassemia major. Journal of Research in Pharmacy Practice. J Res Pharm Pract 2016;5:74-5.
- 63- Darvishi Khezri H, **Salehifar E**, Kosaryan M, Aliasgharian A, Jalali H, Hadian Amree A. Potential Effects of Silymarin and Its Flavonolignan Components in Patients with beta-Thalassemia Major: A Comprehensive Review in 2015; Advances in Pharmacological Sciences; 2016, Article ID 3046373, 8 pages; <http://dx.doi.org/10.1155/2016/3046373>
- 62- Keyhani H, **Salehifar E** , Keyhanian S, Ala S, Razieh A. Evaluation of Preventing Regimens Used for Chemotherapy Induced Nausea and Vomiting. J Mazandaran Univ Med Sci 2016; 26(133): 227-235 (Persian).
- 61- Bagheri Nesami N, Mozaffari-Khosravi H, Najarzadeh A, **Salehifar E**. The Effect of Coenzyme Q10 Supplementation on Pro-Inflammatory Factors and Adiponectin in Mildly Hypertensive Patients: A Randomized, Double-Blind, Placebo-Controlled Trial. Int J Vitam Nutr Res. 2015 Dec;85(3-4):156-64. doi: 10.1024/0300-9831/a000234.
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- 59- **Salehifar E**, Shiva A, Moshayedi M, Samiei Kashi T, Chabra A. Drug use evaluation of Meropenem at a tertiary care university hospital: A report from Northern Iran. J Res Pharm Pract 2015;4:222-5.
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- 48- Shiva A, **Salehifar E**, Amini M, Ala Sh, Rafati MR, Ganji R. Drug Utilization Evaluation of Imipenem in an Educational Hospital in Mazandaran Province. *Pharmaceutical sciences*. 2014, 20(1), 12-17
- 47 - Rezai MS, **Salehifar E**, Rafiei AR, Langaee T, Rafati MR, Shafahi KH, Eslami G. Characterization of Multidrug Resistant Extended-Spectrum Beta-Lactamase-Producing Escherichia coli among Uropathogens of Pediatrics in North of Iran. *BioMed Research International*. 2014; Article ID 309478
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- 43- **Salehifar E**. A Review of the role of statins in the treatment of heart failure with the emphasis on the oxidative stress. *J Clin Exc* 2013; 1(1): 116-130 (Persian).
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- 41- Bagheri N, Mozaffari-Khosravi H, Najarzadeh A, **Salehifar E**, Fallahzadeh H. Effect of Coenzyme-Q10 Supplementation on Blood Pressure in Hypertensive Patients: A Randomized Double-Blind Clinical Trial. *TB*. 2013; 12 (1) :14-23 (Persian)
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- 37- Karimzadeh L, Bagheri GA, Pour Ali A, Gholipour M, Mohammadi Z, Moshrefi B, Esfahanizadeh MH, **Salehifar E**. Evaluation of Lead, Cadmium and Copper in Black Tea Leaves in Mazandaran Factories, Spring and Summer 2011. J Mazand Univ Med Sci. 2013; 23(99): 2-10 (Persian).
- 36- Eslami G, **Salehifar E**, Behbudi M, Rezai MS. Rational Use of Amikacin in Buali-Sina Hospital in Sari, 2011. J Mazand Univ Med Sci 2013; 23(100): 2-9 (Persian).
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- 34- Ala S, Shokrzadeh M, Golpour M, **Salehifar E**, Alami M, Ahmadi A. Zinc and Copper Levels in Iranian Patients with Psoriasis: A Case Control Study. Biol Trace Elem Res. 2013 Mar 14. [Epub ahead of print]
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Research Projects

- 1- Determination of phenytoin pharmacokinetic parameters in an outpatient sample, Sari, Iran (finished).
- 2- Knowledge, attitude and performance of physicians, pharmacists and nurses regarding adverse drug reaction and spontaneous reporting, Mazandaran province, Iran (finished).
- 3- Drug utilization evaluation of albumin in the burn and intensive care units of two teaching hospitals, Sari, Iran (finished).
- 4- Drug utilization evaluation of third generation of cephalosporins in a teaching hospital, Ghaemshahr, Iran (finished).
- 5- Determination of propranolol pharmacokinetic parameters in a sample of normal volunteers, sari, Iran (finished).
- 6- Analysis of gavage solutions of "Emam Khomeini Hospital" and determination of nutrition state of intensive care unit patients, Sari, Iran, 2005 (finished).
- 7- Study of zinc and copper level in congestive heart failure (idiopathic dilated cardiomyopathies and secondary cardiomyopathies) and their relationship with severity of disease and left ventricular function, Mazandaran heart center, Iran, (finished)

- 8- Phenotype and genotype of CYP2D6 in a sample of Mazandaranian healthy volunteers, Sari, Iran, 2006-2007 (finished).
- 9- Phenotype and Genotype of CYP2D6 in a sample of Mazandaranian healthy volunteers, Sari, Iran, 2006-2007 (finished).
- 10- The comparative evaluation of response and side effect of Cinnovex- Rebif- Avonex and Betaferon in multiple sclerosis: A trial in mazandaran and Kerman Provinces of Iran
- 11- The efficacy of bromocriptine and cabergoline in rheumatoid arthritis patients (finished)
- 12- Evaluation of VKORC1 and CYP2C9 pharmacogenetic on the warfarin requirements in the patients of Mazandaran province (finished).
- 13- Determination of warfarin pharmacokinetic variables and their relationship with INR in the patients of Mazandaran province (finished).
- 14- Comparison of bronchodilation onset of salmetrol MDI, Oxis and Foradil in moderate to severe asthmatic patients (finished)
- 15- Drug Utilization Review of Imipenem in Emam Khomeini Educational hospital, Sari, Iran, 2010-2011 (Finished)
- 16- Drug Utilization Review of Vancomycin based on the HICPAC (Hospital Infection Control Practices Advisory Committee) criteria in Emam Khomeini and Razi Educational hospitals, Mazandaran, Iran, 2010-2011 (Finished)
- 17- Determination of antibiotics consumption in pediatric section of Boali Sina Pediatric Hospital, 2010-2011 (Finished)
- 18- Drug utilization review of aminoglycosides in Emam Khomeini teaching hospital's ICU in 2010-2011 (Finished)
- 19- Evaluation of Meropenem use in Emam Khomeini Hospital, 2010-2011 (Finished)
- 20- Profile of microorganisms involved in ventilator-associated pneumonia (VAP) and hospital-acquired pneumonia (HAP) and their antimicrobial resistance in Intensive care unit of Emam Khomeini Hospital, a university affiliated hospital, Sari, Iran, 2011-2012 (finished)
- 21- Determination of inflammatory mediators changes in SIRS and sepsis and their correlation with patients' outcome (finished)

Research Interests

- 1- Rational use of drugs
- 2- Oncology/hematology
- 3- Role of trace elements in cardiomyopathies
- 4-Pharmacokinetic studies