

Curriculum Vitae

Enayatollah Homaie Rad

BSc. MSc,

PhD in Health Economics

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## Personal information:

Name: Enayatollah Homaie Rad

Date and Place of Birth: February 1985- Rasht, Iran

Current formal position: Director, Social Determinants of Health research Center, Guilan University of Medical Sciences, Rasht, Iran (from March 2018)

Research Assistant, Guilan Road Trauma Research Center, Guilan University of Medical Sciences, Rasht, Iran (from March 2017)

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## Academic Qualifications:

2012- PhD. in Health Economics, Tehran University of Medical Sciences, Tehran, Iran (First in national ranking of medical sciences universities in Iran)

Advisor: Dr Arash Rashidian

Dissertation: Health, Social and Economical Determinants of Early Retirement in Iran ( We added health in to Backward Bending Supply curve for early retirement)

2009-2012: MSc in Health Economics, Shiraz University of Medical Sciences, Shiraz, Iran (3rd in national ranking of medical sciences universities in Iran)

Dissertation: Determinants of Healthcare Expenditures in ECO Countries: Evidence from Panel Cointegration Approach (Using the newest Panel data cross sectional, unit root and Cointegration tests in the relationship of aging, income and other variables with health expenditures).

Advisors: Dr Alihussein Samadi, Dr Nahid Hatam

2003-2007: BSc in Banking Management, University of Economic Sciences, Tehran, Iran.

1999-2003: Math Diploma: National Organization of Exceptional Talents, (SAMPAD), Rasht, Iran

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## Research Interests:

Micro and Macro level econometrics in health,

Geospatial Analysis of health,

Health equity,

Health outcome evaluation,

Evaluation of health reforms,

Trauma systems performance,

Labor force health economics,

Social Determinants of Health.

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## Authored (Co-authored) journal paper [English]:

1. Soodmand, M., Moghadamnia, M. T., Aghaei, I., Ghasemzadeh, G., Lili, E. K., & **Homaie Rad E.** (2019). Effects of Hemodynamic Factors and Oxygenation on the Incidence of Pressure Ulcers in the ICU. *Advances in skin & wound care*, 32(8), 359-364.
2. **Homaie Rad E.**, Ehsani-Chimeh, E., Gharebehlagh, M. N., Kokabisaghi, F., Rezaei, S., & Yaghoubi, M. (2019). Higher Income for Male Physicians: Findings About Salary Differences Between Male and Female Iranian Physicians. *Balkan medical journal*, 36(3), 162.
3. Tabari-Khomeiran, R., Ehsani-Chimeh, E., Kiakalayeh, A. D., **Homaie Rad E.**, & Delavari, S. (2019). Inequity in the distribution of rural family physicians in Iran: a cross sectional study. *International Journal of Human Rights in Healthcare*. (Corresponding author)
4. Naghavi, M. (2019). Global, regional, and national burden of suicide mortality 1990 to 2016: systematic analysis for the Global Burden of Disease Study 2016. *bmj*, 364, 194.
5. Tabari-Khomeiran, R., Selavari, S., Rezaei, S., **Homaie Rad E.**, & Shahmoradi, M. (2019). The effect of Iranian health system reform plan on payments and costs of coronary artery bypass surgery in private hospitals of Iran. *International Journal of Human Rights in Healthcare*. . (Corresponding author)
6. Ehsani-Chimeh, E., Majdzadeh, R., Delavari, S., Gharebelagh, M. N., Rezaei, S, **Homaie Rad E.** H. (2018). Physicians' retention rate and its effective factors in

the Islamic Republic of Iran. *Eastern Mediterranean Health Journal*, 24(9). .  
(Corresponding author)

7. **Homaie Rad E.**, Yousefzadeh-Chabok, S., Mohtasham-Amiri, Z., Khodadadi-Hasankiadeh, N., Davoudi-Kiakalayeh, A., Kouchakinezhad-Eramsadati, L., & Reihanian, A. (2018). Traumatic and nontraumatic driving accidents due to dry spells in northern Iran: a time series analysis. *Weather, climate, and society*, 10(4), 723-730.
8. **Homaie Rad E.**, Kouchakinezhad-Eramsadati, L., Mohtsham-Amiri, Z., Davoudi-Kiakalayeh, A., & Yousefzadeh-Chabok, S. (2019). Effectiveness of an educational program on decreasing burns and injuries in Persian festival of fire: A burden of diseases approach. *Burns*, 45(2), 466-470.
9. Rezaei, S., Woldemichael, A., Zandian, H., **Homaie Rad E.**, Veisi, N., & Karami Matin, B. (2018). Dental health-care service utilisation and its determinants in West Iran: a cross-sectional study. *International dental journal*, 68(3), 176-182.
10. Khodadadi-Hassankiadeh, N., Kouchakinezhad-Eramsadati, L., Tavakkoli, M., Yousefzadeh-Chabok, S., Kiakalayeh, A. D, **Homaie Rad E.** (2018). Mortalities and morbidities due to traffic accidents: the unknown criminal. *International Journal of Human Rights in Healthcare*, 11(1), 32-39. . (Corresponding author)
11. Karami Matin, B., Hajizadeh, M., Najafi, F ,**Homaie Rad E.**, Piroozi, B., & Rezaei, S. (2017). The impact of health sector evolution plan on hospitalization and cesarean section rates in Iran: an interrupted time series analysis. *International Journal for Quality in Health Care*, 30(1), 75-79.
12. Kavosi, Z., Bayati, M., Arefnezhad, M , **Homaie Rad E.**, & Jaafari, A. (2018). Effect of cost sharing on utilization of general physician care: A cross-sectional survey from Shiraz, Iran. *International journal of preventive medicine*, 9.
13. **Homaie Rad E.**, Delavari, S., Aeenparast, A., Afkar, A., Farzadi, F., & Maftoon, F. (2017). Does economic instability affect healthcare provision? Evidence based on the urban family physician program in Iran. *Korean journal of family medicine*, 38(5), 296. .
14. **Homaie Rad E.**, Yazdi-Feyzabad, V., Yousefzadeh-Chabok, S., Afkar, A., & Naghibzadeh, A. (2017). Pros and cons of the health transformation program in Iran: evidence from financial outcomes at the household level. *Epidemiology and health*, 39.
15. **Homaie Rad E.**, Rashidian, A., Arab, M., & Souri, A. (2017). Comparison of the effects of poor health and low income on early retirement: a systematic review and meta-analysis. *Industrial health*, 55(4), 306-313.

16. **Homaie Rad E.**, Kavosi, Z., Moghadamnia, M. T., Arefnezhad, M., Arefnezhad, M., & Nasiri, B. F. (2017). Complementary health insurance, out-of-pocket expenditures, and health services utilization: A population-based survey. *Medical journal of the Islamic Republic of Iran*, 31, 59.
17. **Homaie Rad, E.**, Tavakkoli, M., taghi Moghadamnia, M., & Ghanbari, A. (2016). Fertility and Minority: A Study in Two Provinces of Iran Using Matching Estimator Technique. *Journal of Immigrant and Minority Health*, 18(3), 660-665.
18. Hatam, N., Tourani, S., **Homaie Rad, E.**, & Bastani, P. (2016). Estimating the Relationship between Economic Growth and Health Expenditures in ECO Countries Using Panel Cointegration Approach. *Acta Medica Iranica*, 54(2), 102-106.
19. Sefiddashti, S. E., **Homaie Rad, E.**, Mohamad, A. R. A. B., & Bordbar, S. (2016). Female Labor Supply and Fertility in Iran: A Comparison Between Developed, Semi Developed and Less Developed Regions. *Iranian journal of public health*, 45(2), 186. (Corresponding author)
20. **Homaie Rad, E.**, Kavosi, Z., & Arefnezhad, M. (2016). Economic inequalities in dental care utilizations in Iran: Evidence from an urban region. *Medical Journal of The Islamic Republic of Iran (MJIRI)*, 30(1), 587-592.
21. **Homaie Rad, E.**, Bayazidi, Y., Delavari, S., & Rezaei, S. (2016). Gender Gap and Inequality in health professionals' income in Iran. *Bakırköy Tıp Dergisi*, 12(2), 70-75.
22. **Homaie Rad, E.**, Karyani, A. K., & Zandian, H. (2016). Access and necessity for road emergency sites. *Trauma monthly*.
23. Arefnezhad, M., Yazdi Feyzabadi, V., **Homaie Rad, E.**, Sepehri, Z., Pourmand, S., & Rava, M. (2016). Does Using Complementary Health Insurance Affect Hospital Length of Stay? Evidence from Acute Coronary Syndrome Patients. *Hospital Practice*, 44(1), 28-32. (Corresponding author)
24. **Homaie Rad, E.**, Gholampoor, H., & Jaafari-pooyan, E. (2015). Child Labor and the Influencing Factors: Evidence from less Developed Provinces of Iran. *Iranian journal of public health*, 44(9), 1244.
25. **Homaie Rad, E.**, Ghaisi, A., Arefnezhad, M., & Bayati, M. (2015). Inequalities of general physicians and specialists visits' utilization and its determinants in Iran: a population based study. *International Journal of Human Rights in Healthcare*, 8(3), 125-131.
26. Kazemi Karyani, A., **Homaie Rad, E.**, Pourreza, A., & Shaahmadi, F. (2015). Democracy, political freedom and health expenditures: evidence from Eastern

Mediterranean countries. *International Journal of Human Rights in Healthcare*, 8(3), 187-194. (Corresponding author)

27. **Homaie Rad, E.**, Mostafavi, H., Delavari, S., & Mostafavi, S. (2015). Health-related Quality of Life in Patients on Hemodialysis and Peritoneal Dialysis: a Meta-Analysis of Iranian Studies. *Iranian journal of kidney diseases*, 9(5), 386-393.
28. Rezaei, S., Bazayr, M., Fallah, R., Chavehpour, Y., & **Homaie Rad, E.** (2015). Assessment of Need and Access to Physician and Hospital Beds: A Cross Sectional Province Based Study in Iran. *Shiraz E-Medical Journal*, 16(6).
29. Sari, A. A., Rezaei, S., **Homaie Rad, E.**, Dehghanian, N., & Chavehpour, Y. (2015). Regional Disparity in Physical Resources in the Health Sector in Iran: A Comparison of Two Time Periods. *Iranian journal of public health*, 44(6), 848.
30. **Homaie Rad, E.** Rezaei, S., & Fallah, R. (2015). Physician labor participation and unemployment rate in Iran. *Shiraz E-Medical Journal*, 16(4).
31. Rezaei, S., Karami Matin, B., & **Homaie Rad, E.** (2015). Socioeconomic Determinants of Infant Mortality in Iranian Children: A Longitudinal Econometrics Analysis. *International Journal of Pediatrics*, 3(1.1), 375-380.
32. Teimourizad, A., Hadian, M., Rezaei, S., & **Homaie Rad, E.** (2014). Health Sector Inflation Rate and its Determinants in Iran: A Longitudinal Study (1995–2008). *Iranian journal of public health*, 43(11), 1537.
33. **Homaie Rad, E.** (2015). Demand Models and Expenditure Models: A Letter to Editor. *Health Scope*, 4(2).
34. **Homaie Rad, E.**, Hadian, M., & Gholampoor, H. (2014). Comparison the Effects of Health Indicators on Male and Female Labor Supply, Evidence from Panel Data of Eastern Mediterranean Countries 1995-2010. *Iranian journal of public health*, 43(2), 221.
35. Bayati, M., Sarikhani, Y., **Homaie Rad, E.**, Heydari, S. T., & Lankarani, K. B. (2014). An Analytical Study on Healthcare Inflation Rate and Its Most Important Components in Iran. *Shiraz E-Medical Journal*, 15(4).
36. **Homaie Rad, E.**, Vahedi, S., Teimourizad, A., Esmailzadeh, F., Hadian, M., & Pour, A. T. (2013). Comparison of the effects of public and private health expenditures on the health status: a panel data analysis in Eastern Mediterranean Countries. *International journal of health policy and management*, 1(2), 163.
37. Samadi, A. **Homaie Rad, E.** (2013). Determinants of Healthcare Expenditure in Economic Cooperation Organization (ECO) Countries: Evidence from Panel Cointegration Tests. *International Journal of Health Policy and Management*, 1, 7. (Corresponding author)

38. **Homaie Rad E**, Rashidian A, Arab M, Sourì A(2016). The Effect of Catastrophic Health Expenditure on Work After Retirement. *The International Journal of Aging and Human Development*.
39. **Homaie Rad E.**, Afkar, H., Farmanbar, R., & Nasiri, B. F. (2017). Estimating Relationship between Type of Disability and Labor Force Participation: A Community Based Study in Iran. *Gazi Medical Journal*, 28(2).
40. Sherafati, F., **Homaie-Rad, E.**, Afkar, A., Sigaroodi, R. G., & Sirusbakht, S. (2017). Risk factors of road traffic accidents associated mortality in northern Iran; a single center experience utilizing Oaxaca Blinder decomposition. *Bulletin of emergency and trauma*, 5(2 APR), 116-121
41. Bayazidi, Y., **Homaie Rad, E.**, Mojahedian, M, ... & Farahmand, P. (2016). The impact of research and development and marketing costs on the profitability of pharmaceutical companies of Tehran Stock Exchange using panel data 2001-2013. *International Journal of Pharmaceutical and Healthcare Marketing*, 10(4), 467-476.
42. Yahya Bayazidi , **Enayatollah Homaie Rad**, Ali Keshtkaran, MansourAnsar, Mehdi Javanbakht,(2017) Cost utility analysis of single fraction versus multiple fraction radiotherapy in patients with painful bone metastases; An Iranian patient's perspective study, *Value in Health*, 3(2)
43. **Homaie Rad E**, Delavari S, Aeeinparast A, Maftoon F, (2017) Implementation of Urban Family Physician Program in Iran: Evidence form Economic Instability, *Korean Journal of family Medicine*
44. **Homaie Rad E**, Kavosi Z, Arefnezhad M, Moghadamnia, M (2017) Complementary health insurance, out of pocket expenditures and health services utilization: a population based survey, *Medical Journal of The Islamic Republic of Iran (MJIRI)*
45. **Homaie Rad E**, Rashidian A, Arab M, Sourì A (2017), the effects of poor health and low income on early retirement, a systematic review and meta-analysis, *Industrial Health*

1. **Homaie Rad, E.** Samadi, A, Bayazidi, Y, Hayati, R. (2013). Comparing Socioeconomic Determinants of Infant Mortality in Iran and MENA Countries, *Journal of Economic Modeling Research*,
  2. **Homaie Rad E** , Najafipour F , Nouruzi A, Raeissi P. (2014). Moral Hazard of Dental Services in Armed Force Social Security Insurance before and after Soldiery in 2012, *Hakim Health Service Research Journal*. 17(3).
  3. Bayazidi, Y., & **Homaie Rad, E.** (2015). Comparison of quality of life in patients with bone metastasis under treatment with single fraction and multiple fraction radiotherapy methods in Shiraz during 2012. *Razi Journal of Medical Sciences*, 21(128), 28-36. (Corresponding author).
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Working papers:

1. Comparison cost utility of Hemodialysis and peritoneal dialysis in Namazi hospital, Shiraz, Iran: Health Policy Research Center, Shiraz
  2. Modeling Costs of Medical Imaging services in Shahid Faghihi Hospital, Shiraz, Iran : Health Policy Research Center, Shiraz
  3. Modeling Changes in Health Inflation Rate in Iran: : Health Policy Research Center, Shiraz
  4. Modeling Determinants of Health Expenditures in ECO Countries: Shiraz University of Medical Sciences, Shiraz, Iran
  5. Comparison the effects of public and private health expenditures on health status in eastern Mediterranean countries. Tehran University of Medical Sciences, Tehran, Iran
  6. Comparison fertility in Guilan and Kurdistan Using propensity score matching technique. Social Determinates of Health Research center, Rasht,Iran
  7. Comparison out of pocket payments and inequality in distribution of them before and after family physician program. Jahad Dneshgahi tehran,
  8. Labor force participation rate of medical educated students, Tehran University of Medical Sciences, Tehran, Iran.
  9. Comparison demand function of dental care services before and after soldiery in Iran, health economics research center.
  10. The effects of health on male and female labor supply, Iran University of Medical Sciences, Tehran, Iran.
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### **Thesis Advisories:**

1. Thesis for the degree of Medicine: Investigating mortality and morbidity in rollover crashes in Guilan province between 2014 and 2016, student: Atousa Ghavami, 2019, School of Medicine, Guilan University of Medical Sciences, Rasht, Iran
2. Thesis for the degree of Medicine: Investigating epidemiologic characteristics of accidents with animals in Guilan province while the 2014 to 2017, student: Frazad Sedaghati, 2019, School of Medicine, Guilan University of Medical Sciences, Rasht, Iran
3. Thesis for the degree of Medicine Investigating the Relationship between Economic Variables and the Rate of Consumption and out of pocket payments for Psychiatric Services in Iran between 2009 and 2015, student: Leila Amirbeik, 2019, School of Medicine, Guilan University of Medical Sciences, Rasht, Iran
4. Thesis for the degree of Medicine: Assessment of the Equity and Out-of-pocket payment in the consumption of Laboratory services in Iran in 2016, student: Raouf Kord, 2019, School of Medicine, Guilan University of Medical Sciences, Rasht, Iran
5. Thesis for the degree of Medicine: Investigating out of pocket payments and utilization of diagnosis Services using by medical physics equipment in Iran between 2009 and 2015, student: Frazaneh iranmanesh, 2019, School of Medicine, Guilan University of Medical Sciences, Rasht, Iran
6. Thesis for the degree of Medicine: Investigating Out of Pocket Payment Changes, Utilization and equity on the Physical therapy services in Iran Before and After Health Reform Plan in 2013 and 2015, student: Seyyede Mitra Hosseini, 2019, School of Medicine, Guilan University of Medical Sciences, Rasht, Iran
7. Thesis for the degree of Medicine: Investigation of confrontation with catastrophic health expenditures before and after health system transformation plan in Guilan province Iran: Seyyede Atefeh Miraboutaleb, 2019, School of Medicine, Guilan University of Medical Sciences, Rasht, Iran
8. Thesis for the degree of Medicine: Spatial analysis of heavy vehicle Suburban Accident in Guilan province in 2014-2018: Ali Javadi, 2019, School of Medicine, Guilan University of Medical Sciences, Rasht, Iran
- 9.

### **Presentations:**

1. Comparison the effects of health expenditures on GDP in less developed and developed countries using panel data: congress of students of health management, Ahvaz, Iran, 2012

2. Determinants of health expenditures in ECO countries using panel data: second seminar of health economics, Tehran, 2013
  3. Determinants of infant mortality rate in Iran, using time series analysis: second seminar of health economics, Tehran, 2013
  4. Moral hazard in dental care service utilization in military health insurance: 7<sup>th</sup> congress of armed force dental care, Tehran, 2014
  5. Cost benefit of trauma system in Iran: International congress of road accidents: Shiraz, 2019
  6. conducting a model for alarming drowning in Iran: second national congress of drowning, Bandar Anzali, 2018
- 

#### **Editorial Board:**

Caspian Journal of Health Research

Review of articles in Journals:

Health promotion international

Medical Journal of Islamic republic of Iran

Archives of Emergency and Trauma

International Journal of Human Rights in Health Care,

International Journal for Quality in Health Care

Journal of Global Economics

Bulletin of Emergency and Trauma

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#### **Other experiences:**

Executive and consultant of a trauma system in Guilan province

Consultant of an integrated information system in Trauma services

Executive of a managing dashboard and conducting an integrated health information dashboard

Member of upgrading statistics committee in Guilan University of medical sciences

Head of health equity committee in Guilan University of medical sciences

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### **Teaching experiences:**

Health Economics: Public dental students, School of dentistry, Guilan University of Medical Sciences, Rasht, Iran: 4 teaching semesters. (Continuing)

Health Economics: Public dental students, School of dentistry (International Branch), Guilan University of Medical Sciences, Rasht, Iran: 2 teaching semesters (continuing)

Evidence base decision making, Physiotherapy Students, School of Medicine, Guilan University of Medical Sciences, Rasht, Iran 1 teaching semesters, (continuing)

Bio-statistics: School of Medicine and pharmacy: Mazandaran University of Medical Sciences, International Branch. 3 teaching semesters (continuing)

Economic evaluation of health systems for managers: Shiraz University of Medical Sciences, Shiraz, Iran

Planning and economic growth and development: Iran University of Medical Sciences, Tehran, Iran

Meta-analysis in STATA: International branch of school of public health, Tehran University of Medical Sciences, Tehran, Iran

Evaluation of Health Systems. Guilan University of Medical Sciences, Rasht, Iran

Time series analysis and Meta-analysis. Tabriz University of Medical Sciences, Tabriz, Iran.

Econometrics: Islamic Azad University of Rasht

Other experiences:

Mastering in work with STATA software.

Mastering in Work with big data in excel.

Mastering in Work with ARCGIS.

Work with Eviews, RATS, R, LINGO, GAUSS, SPSS, DEAP, WINDEAP.