

Curriculum Vitae
Mohsen Rezaei Hemami
MD, Ph.D.
(Health Economist)
September 2025



Profiles on Social Networks

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Personal Information

Name: **Mohsen Rezaei Hemami**
Date of Birth: **May, 1974**
Nationality: **British**
Current Formal Position: Epidemiologist at Perspectum Ltd.
Address: Gemini One
5520 John Smith Drive
Oxford, OX4 2LL
United Kingdom
Phone (Work): Tel: , mobile:+44(0)7480977853
Email: mohsen_rez@yahoo.com

Academic Qualifications

2007 – 2012 **Ph.D.** Epidemiology, Tehran University of Medical Sciences, Tehran, Iran (first in National Ranking of Medical Universities)
Dissertation: Cost-effectiveness of malaria intervention in pre elimination and elimination phases in Iran
1992 – 1999 **MD.** Shahrekord University of Medical Sciences, Shahrekord, Iran

Research Interests:

Decision Science and Disease Modelling
Cost effectiveness analysis
Dynamic models in health
RCT

Professional Background:

2002 trainer for medical students in skill lab project , Isfahan University of Medical sciences
2002-2004 Clinical researcher in (NRDFD) National Research Department of Foodborne Diseases in (RCGLD) Research Cneter for Gastroenterology and Liver Diseases in Shaheed Beheshti University of Medical sciences , Tehran Iran
2003-2005 Methodological and statistical consultant in Trauma Research Center of AtieHosptal and journal of clinical orthopaedic Tehran Iran
manager of education unit of Kish hospital , Kish , Iran
2010-2012 The executive manager for MEWS, malaria early warning system project in Iran
2011-2012 The executive member in scientific map of science in Iran
2011-2014 Methodological and statistical consultant in Rajaie cardiovascular, medical and research center, Tehran, Iran
2014-2015 Faculty member, Assistant professor, Iran University of Medical Sciences, Rasul Akram Hospital
2015-2018 Research Associate, Health Economics and Health Technology Assessment (HEHTA), Institute of health and well being, University of Glasgow, UK

Role and responsibility

- Development of CE model alongside RCT
- Contribution of SLR for other activities in HEHTA
- TA assistance in DAME course by HEHTA

Experience of survival analysis for using in transition probability in Markov model using patients level hospital data

May18-Dec19

Research fellow, PenTAG, University of Exeter, UK

Role and responsibility

- Model development for ERG, diagnostic test for rheumatoid arthritis medication
- Reviewing the HTA submission
- Contribution if SLR for ERG

Dec19-Jan2021

Research fellow, Aberdeen Centre for Health Data Science (ACHDS), University of Aberdeen, UK

Role and responsibility

Data Scientist for linkage data study

- Data analysis (data cleaning, developing algorithm, descriptive and analytical output by merging several databases, data taken from ISD Scotland) using STATA and R

Jan2021

Toward evidence, Founder, CEO.

May 2022-Jan24

Health Economist at Perspectum Ltd.

Experience in Industry

Optimax Access 2017 - present

I have collaborated with Optimax Access as subcontractor.

Industrial Model Development –etc: I have developed 5 models in collaboration with Optimax Access. My role was to literature search, conceptualize the model, model construction in Excel, drafting the report and publication . They have been published in peer-reviewed journals. These include Decision Tree and Markov Models. You can find more details in the following link: [Link to Publications](#).

Perspectum diagnostics May 2022- present

My responsibility is health economic affair for our diagnostic test (MRI). I have submitted couple of posters for ISPOR US and ISPOR Europe 2023.

My project:

- CE model for screening of high risk NASH among NAFLD patients
- CE model for treatment monitoring of NASH medication among DM patients
- BIM model for NASH medication monitoring
- Contribution for SLR for diagnostic test for live chronic disease
- Early economic model for using CoverScan (technology developed by Perspectum for multi-organ MRI scan) for detecting the DM complications (based on risk equation of Oxford university for DM complications) [Link to Publications](#)

Publication

Authored (Co-authored) journal paper [English]

1. Zandieh N, **Hemami** MR, Darvishi A, Hasheminejad SM, Abdollahi Z, Zarei M, et al. Economic evaluation of a national vitamin D supplementation program among Iranian adolescents for the prevention of adulthood type 2 diabetes mellitus. BMC Complement Med Ther. 2022;22(1):1.
2. Javanbakht M, Mashayekhi A, **Hemami** MR, Branagan-Harris M, Moloney E. Economic Analysis of the CADScor System for Ruling Out Coronary Artery Disease in England. Pharmacoecon Open. 2022;6(1):123-35.
3. Javanbakht M, Mashayekhi A, **Hemami** MR, Branagan-Harris M, Keeble TR, Yaghoubi M. Cost-Effectiveness Analysis of Intravascular Targeted Temperature Management after Cardiac Arrest in England. Pharmacoecon Open. 2022;6(4):549-62.
4. AnsariPour A, Roehrich K, Mashayekhi A, Wanjala M, Noel S, **Hemami** MR, et al. Budget Impact of the Vest™ High Frequency Chest Wall Oscillation System for Managing Airway Clearance in Patients with Complex Neurological Disorders: A US Healthcare Payers' Perspective Analysis. Pharmacoecon Open. 2022;6(2):169-78.
5. Zandieh N, Rezaei **Hemami** M, Darvishi A, Hasheminejad SM, Abdollahi Z, Zarei M, et al. The cost-effectiveness analysis of a nationwide vitamin D supplementation program among Iranian adolescents for adulthood cardiovascular diseases prevention. Public Health. 2021;198:340-7.
6. Tikhonova IA, Yang H, Bello S, Salmon A, Robinson S, **Hemami** MR, et al. Enzyme-linked immunosorbent assays for monitoring TNF-alpha inhibitors and antibody levels in people with rheumatoid arthritis: a systematic review and economic evaluation. Health Technol Assess. 2021;25(8):1-248.
7. Pourmalek F, Rezaei **Hemami** M, Janani L, Moradi-Lakeh M. Rapid review of COVID-19 epidemic estimation studies for Iran. BMC Public Health. 2021;21(1):257.
8. Darvishi A, **Hemami** MR, Shafiee G, Daroudi R, Mohseni M, Shekarabi FH, et al. Sarcopenia screening strategies in older people: a cost effectiveness analysis in Iran. BMC Public Health. 2021;21(1):926.
9. Lotfi F, Jafari M, Rezaei **Hemami** M, Salesi M, Nikfar S, Behnam Morshedi H, et al. Evaluation of the effectiveness of infusion of bone marrow derived cell in patients with heart failure: A network meta-analysis of randomized clinical trials and cohort studies. Med J Islam Repub Iran. 2020;34:178.
10. Keshavarz K, Jafari M, Lotfi F, Bastani P, Salesi M, Gheisari F, et al. Positron Emission Mammography (PEM) in the diagnosis of breast cancer: A systematic review and economic evaluation. Med J Islam Repub Iran. 2020;34:100.
11. Javanbakht M, Trevor M, Rezaei **Hemami** M, Rahimi K, Branagan-Harris M, Degener F, et al. Ticagrelor Removal by CytoSorb® in Patients Requiring Emergent or Urgent Cardiac Surgery: A UK-Based Cost-Utility Analysis. Pharmacoecon Open. 2020;4(2):307-19.
12. Javanbakht M, Saleh H, **Hemami** MR, Branagan-Harris M, Boiano M. A Corticosteroid-Eluting Sinus Implant Following Endoscopic Sinus Surgery for Chronic Rhinosinusitis: A UK-Based Cost-Effectiveness Analysis. Pharmacoecon Open. 2020;4(4):679-86.
13. Javanbakht M, Mashayekhi A, Trevor M, Rezaei **Hemami** M, C LD, Branagan-Harris M, et al. Cost utility analysis of continuous and intermittent versus intermittent vital signs monitoring in patients admitted to surgical wards. J Med Econ. 2020;23(7):728-36.
14. Javanbakht M, **Hemami** MR, Mashayekhi A, Branagan-Harris M, Zaman A, Al-Najjar Y, et al. DyeVert™ PLUS EZ System for Preventing Contrast-Induced Acute Kidney Injury in Patients Undergoing Diagnostic Coronary Angiography and/or Percutaneous Coronary Intervention: A UK-Based Cost-Utility Analysis. Pharmacoecon Open. 2020;4(3):459-72.
15. Khashayar P, Aghaei Meybodi H, Rezaei **Hemami** M, Larijani B. Role of Obesity Variables in Detecting Hypertension in an Iranian Population. High Blood Press Cardiovasc Prev. 2017;24(3):305-12.

16. Hashemian SJ, Miraftabi A, Jafari ME, **Hemami** MR. Combined cataract extraction and trabeculotomy by the internal approach for coexisting cataract and open-angle glaucoma. *J Curr Ophthalmol*. 2017;29(1):17-22.
17. Yousefshahi F, Davari-Tanha F, Najafi A, Kaveh M, Rezaei **Hemami** M, Khashayar P, et al. Effects of Intrathecal Opioids Use in Cesarean Section on Breastfeeding and Newborns' Weight Gaining. *J Family Reprod Health*. 2016;10(4):176-83.
18. Saffari N, Salmanzadeh-Ahrabi S, Abdi-Ali A, Rezaei-**Hemami** M. A comparison of antibiotic disks from different sources on Quicolor and Mueller-Hinton agar media in evaluation of antibacterial susceptibility testing. *Iran J Microbiol*. 2016;8(5):307-11.
19. Nahvijou A, Daroudi R, Tahmasebi M, Amouzegar Hashemi F, Rezaei **Hemami** M, Akbari Sari A, et al. Cost-Effectiveness of Different Cervical Screening Strategies in Islamic Republic of Iran: A Middle-Income Country with a Low Incidence Rate of Cervical Cancer. *PLoS One*. 2016;11(6):e0156705.
20. Keshavarz K, Kebriaeezadeh A, Alavian SM, Akbari Sari A, Rezaei **Hemami** M, Lotfi F, et al. A Cost-Utility and Cost-Effectiveness Analysis of Different Oral Antiviral Medications in Patients With HBsAg-Negative Chronic Hepatitis B in Iran: An Economic Microsimulation Decision Model. *Hepat Mon*. 2016;16(9):e37435.
21. Balali M, Kamalidehghan B, Farhadi M, Ahmadipour F, Ashkezari MD, **Hemami** MR, et al. Association of nuclear and mitochondrial genes with audiological examinations in Iranian patients with nonaminoglycoside antibiotics-induced hearing loss. *Ther Clin Risk Manag*. 2016;12:117-28.
22. Alavian SM, Nikfar S, Kebriaeezadeh A, Lotfi F, Sanati E, Rezaei **Hemami** M, et al. A Cost-Utility Analysis of Different Antiviral Medicine Regimens in Patients With Chronic Hepatitis C Virus Genotype 1 Infection. *Iran Red Crescent Med J*. 2016;18(11):e37094.
23. Yousefshahi F, Fakhre Yasseri AM, Barkhordari K, Amini M, Salehi Omran A, Rezaei **Hemami** M, et al. Incidence and complications of acute kidney injury following coronary artery bypass graft: a retrospective cohort study. *Iran J Kidney Dis*. 2015;9(2):113-8.
24. Mokhtare M, Agah S, Fakheri H, Hosseini V, Rezaei **Hemami** M, Ghafoori SM. Efficacy of Clarithromycin Containing Bismuth-Based Regimen as a Second-Line Therapy in Helicobacter Pylori Eradication. *Middle East J Dig Dis*. 2015;7(2):75-81.
25. Heshmat R, Abdollahi Z, Ghotbabadi FS, Rostami M, Shafiee G, Qorbani M, et al. Nutritional knowledge, attitude and practice toward micronutrients among Iranian households: the NUTRI-KAP survey. *J Diabetes Metab Disord*. 2015;15:42.
26. Soltani A, Larijani B, Khashayar P, Rezaei **Hemami** M, Fakhari S. The relationship between anthropometric parameters and bone mineral density in an Iranian referral population. *Acta Med Iran*. 2014;52(7):505-10.
27. Rezaei-**Hemami** M, Akbari-Sari A, Raiesi A, Vatandoost H, Majdzadeh R. Cost Effectiveness of Malaria Interventions from Preelimination through Elimination: a Study in Iran. *J Arthropod Borne Dis*. 2014;8(1):43-52.
28. Khashayar P, Meybodi HR, Soltani A, Taheri E, **Homami** MR, Heshmat R, et al. Association between vitamin D levels and BMI values in an Iranian population. *Clin Lab*. 2014;60(3):383-9.
29. Ahadi Z, Heshmat R, Sanaei M, Shafiee G, Ghaderpanahi M, Rezaei **Homami** M, et al. Knowledge, attitude and practice of urban and rural households towards principles of nutrition in Iran: results of NUTRIKAP survey. *J Diabetes Metab Disord*. 2014;13(1):100.
30. Zarrati M, Shidfar F, Razmpoosh E, Nezhad FN, Keivani H, **Hemami** MR, et al. Does low birth weight predict hypertension and obesity in schoolchildren? *Ann Nutr Metab*. 2013;63(1-2):69-76.
31. Zarrati M, Shidfar F, Moradof M, Nasiri Nejad F, Keyvani H, Rezaei **Hemami** M, et al. Relationship between Breast Feeding and Obesity in Children with Low Birth Weight. *Iran Red Crescent Med J*. 2013;15(8):676-82.
32. Jaleesi M, Farhadi M, Kamrava SK, Amintehran E, Asghari A, Rezaei **Hemami** M, et al. The reliability and validity of the persian version of sinonasal outcome test 22 (snot 22) questionnaires. *Iran Red Crescent Med J*. 2013;15(5):404-8.

33. Hosseini SK, Ghalamkari M, Yousefshahi F, Mireskandari SM, Rezaei Hamami M. Advanced Cardiac Life Support Training by Problem-Based Method: Effect on the Trainee's Skills, Knowledge and Evaluation of Trainers. *J Tehran Heart Cent.* 2013;8(4):187-91.
34. **Hemami** MR, Sari AA, Raeisi A, Vatandoost H, Majdzadeh R. Malaria elimination in iran, importance and challenges. *Int J Prev Med.* 2013;4(1):88-94.
35. Azemati B, Heshmat R, Sanaei M, Salehi F, Sadeghi F, Ghaderpanahi M, et al. Nutritional knowledge, attitude and practice of Iranian households and primary health care staff: NUTRIKAP Survey. *J Diabetes Metab Disord.* 2013;12(1):12.
36. Sharifiaghdas F, Azadvari M, Shakhssalim N, Roohi-Gilani K, Rezaei-**Hemami** M. Female sexual dysfunction in type 2 diabetes: a case control study. *Med Princ Pract.* 2012;21(6):554-9.
37. Faghihi T, Radfar M, Abdoli E, Amini H, **Hemami** MR, Larijani B. Association of serum retinol-binding protein 4 with insulin resistance and metabolic parameters during olanzapine therapy. *Clin Endocrinol (Oxf).* 2012;76(2):207-11.
38. Mahmoudian S, Farhadi M, Kadivar M, Ghalehbaghi B, Rahimi F, **Hemami** MR, et al. Prognostic validity of dichotic multiple frequencies auditory steady-state responses versus distortion product otoacoustic emissions in hearing screening of high risk neonates. *Int J Pediatr Otorhinolaryngol.* 2011;75(9):1109-16.
39. Faghihi T, Radfar M, Mehrabian Z, Ehsani AH, Rezaei **Hemami** M. Atorvastatin for the treatment of plaque-type psoriasis. *Pharmacotherapy.* 2011;31(11):1045-50.
40. Dolatshahi M, Ghazi P, Feizy V, **Hemami** MR. Life quality assessment among patients with vitiligo: comparison of married and single patients in Iran. *Indian J Dermatol Venereol Leprol.* 2008;74(6):700.
41. MoezArdalan K, Zali MR, Dallal MM, **Hemami** MR, Salmanzadeh-Ahrabi S. Prevalence and pattern of antimicrobial resistance of Shigella species among patients with acute diarrhoea in Karaj, Tehran, Iran. *J Health Popul Nutr.* 2003;21(2):96-102.

Under review:

"Incidence of Colorectal Cancer in Iran: A Systematic Review and Meta-Analysis"

Attended Short Courses, Workshops

2008 Applied biostatistics using Stata, Tehran, Iran
2008 The fifth Annual Johns Hopkins Fall Institute in Health Policy and Management: problem solving, media and public health
2009 Erasmus Summer Program, Regression methods ,health economics
2010 Bergen Summer program: Malaria early warning system(MEWS)
2010 Ulm summer program: GEE method, Epidemiology of over weight.
2013 Randomized Clinical Trials – Good Clinical Practice (RCT-GCP)

Cost effectiveness of malaria interventions from preelimination trough elimination: a study in Iran,MohsenRezaeiHemami, Ali Akbari Sari, Ahmad Raiesi, Hassan Vatandoost, Sevil Aghapour,RezaMajdzadeh. Poster presentation , International congress on Malaria elimination, Kish, Iran.

Presentations

2012

Malaria elimination in Iran, importance and challenges,MohsenRezaeiHemami, Ali Akbari Sari, Ahmad Raiesi, Hassan Vatandoost, Sevil Aghapour,RezaMajdzadeh. . Poster presentation , International congress on Malaria elimination, Kish, Iran. January 2012

2012

Cost-effectiveness of using iLFT algorithm vs routine practice in investigatingpatients with abnormal liver function ,ISPOR 20th annual European congress, Glasgow

COST-EFFECTIVENESS OF MULTIPARAMETRIC MRI vs. LIVER BIOPSY FOR THE DIAGNOSIS OF NASH IN PATIENTS WITH T2DM TREATED WITH SEMAGLUTIDE ,ISPOR annual North American congress, Boston, US,2023

Cost-Effectiveness of Multiparametric MRI (mpMRI) Compared to No Test for Monitoring of Non-Alcoholic Steatohepatitis (NASH) Treatment in the UK,ISPOR European congress, Copenhagen, Denmark 2023

2017

Cost-effectiveness of using iLFT algorithm vs routine practice in investigatingpatients with abnormal liver function ,ISPOR 20th annual European congress, Glasgow

2023

COST-EFFECTIVENESS OF MULTIPARAMETRIC MRI vs. LIVER BIOPSY FOR THE DIAGNOSIS OF NASH IN PATIENTS WITH T2DM TREATED WITH SEMAGLUTIDE ,ISPOR annual North American congress, Boston, US,2023

2023

Cost-Effectiveness of Multiparametric MRI (mpMRI) Compared to No Test for Monitoring of Non-Alcoholic Steatohepatitis (NASH) Treatment in the UK,ISPOR European congress, Copenhagen, Denmark 2023

Teaching and Supervision Experience:

2015-2016

Applied methods of economic evaluation in health care using TreeAge software (2-days short courses for PhD student of epidemiology and clinicians), Kashan, Iran

2014

- 2013** **Applied methods of decision analysis in health care using TreeAgesoftware (2-days short courses for PhD student of epidemiology and clinicians),Tehran, Iran**
- 2012** **Applied methods of decision analysis in health care using TreeAgesoftware(2-days short courses for PhD student of epidemiology and clinicians), Shiraz, Iran**
- 2013** **Applied methods of dynamic model analysis in health using Berkeley Madonna software (2-days short courses for PhD student of pharmacoeconomics, epidemiology and clinicians), Tehran, Iran**
Applied methods of dynamic model analysis in health using Berkeley Madonna software (2-days short courses for PhD student of pharmacoeconomics, epidemiology and clinicians), Kerman, Iran
- 2012** **Dissertation advisor** of 10 postgraduate students (health economics, clinical research and public health)
- 2008-2014** Infectious Disease Epidemiology course, International Masters of Public Health (MPH) students, Department of Epidemiology and Biostatistics, School of Public Health, Tehran University of Medical Sciences, Tehran, Iran
- 2010-2011 (two times)** Principles of Epidemiology course, International Masters of Public Health (MPH) students, Department of Epidemiology and Biostatistics, School of Public Health, Tehran University of Medical Sciences, Tehran, Iran
- 2011**

Reviewer in Journals

The Journal of Tehran university heart center
Archive of "Medical Journal of the Islamic Republic of Iran
Value in Health regional

ICT Skills

Stata, TreeAge, SPSS, R, Python, EndNote, Berkeley Madonna(dynamic model)

Windows-Based Programs:

Microsoft Package (Word, PowerPoint, Excel, VBA)

Systematic review platforms

Rayyan

Project manager

Atlassian software: JIRA and Confluence

Linguistic Skill: Fluent English, Native Persian, Basic Arabic