

Curriculum Vitae

Elham Haem

Personal Information:

First name: Elham

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Present position: Assistant Professor of Biostatistics, School of Medicine, Shiraz University of Medical Sciences, Shiraz, Iran.

Educational Records:

PhD, Biostatistics, 2012- 2017, Shiraz University of Medical Sciences, Iran. Under supervision of Professor Najaf Zare.

Title of dissertation: Covariate model building in population pharmacokinetic using Adjusted Adaptive Lasso method and evaluation of predictive performance.

MS, Biostatistics, 2009-2012, Shiraz University of Medical Sciences, Iran, under supervision of Professor Najaf Zare

Title of dissertation: Rare event data analysis methods: Applied on breast cancer risk factors.

BS, Statistics, 2004-2008, Shiraz University, Shiraz, Iran.

Principal position held:

Assistant Professor, Biostatistics department, school of Medicine, Shiraz University of Medical Sciences, Shiraz, Iran, 8/11/2018 – present

Assistant Professor, School of pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran, 8/11/2017 – 7/11/2018

Visiting scientist, Pharmacometrics group, BMC, Uppsala University, Uppsala, Sweden, 9/2015 – 12/ 2015.

Publications (Journal Articles):

1. **Elham Haem**, Mats O Karlsson, Sebastian Ueckert. Comparison of the power and type 1 error of total score models for drug effect detection in clinical trials. *Journal of Pharmacokinetics and Pharmacodynamics*, 52(1), 1-10, **2025**.
2. Marziyeh Doostfateme, Kamal Amini, **Elham Haem**. A Multi-Method Comparison of Machine Learning in Predicting Pharmacokinetic Parameters: A Simulation Study. *Journal of Biostatistics and Epidemiology*, **2024**.
3. MehdiAjdari Tafti, MahmoodrezaMoein, Siavash Babajafari, **Elham Haem**, Mohammad MZarshenas. Efficacy of Herbal Supplementation of Purslane Freeze-dried Juice for Weight Loss; an 8-Week Randomized, Double-blind, Placebo-controlled Clinical Trial. *Current Traditional Medicine*, **2024**.
4. Alimoradi, N., Tahami, M., Firouzabadi, N., **Haem, E.**, Ramezani, A. Metformin attenuates symptoms of osteoarthritis: role of genetic diversity of Bcl2 and CXCL16 in OA. *Arthritis Research and Therapy Journal*, 25(1),35, **2023**.
5. Raziye Kheshti, Mehdi Dehghani, Soha Namazi, Dena Firouzabadi, Laleh Mahmoudi, **Elham Haem**. Effect of melatonin on oxaliplatin induced neuropathy in patients receiving FOLFOX and XELOX chemotherapy regimens for stage II-IV colorectal cancer; A randomized, placebo controlled, double blind trial. *Research Square*, **2023**.
6. Samaneh Sabouri, **Elham Haem**, Masoumeh Masoumpour, Koenraad A Vermeer, Hans G Lemij, Siamak Yousefi, Saeedeh Pourahmad. Frequency of Visual Fields Needed to Detect Glaucoma Progression: A Computer Simulation Using Linear Mixed Effects Model. *Journal of Glaucoma*, 10.1097, **2023**.
7. Laleh Mahmoudi, Fatemeh Hosseinzadeh, Dena Firouzabadi, **Elham Haem**, Mohammad Firoozifar, Seyed Ali Malek-Hosseini, Hossein Molavi Vardanjani and Ramin Niknam. Outcomes of albumin administration in patients early after liver transplantation; “How much is too much. *Frontiers Nutrition*, **2023** (accepted).
8. Hamidian, M., Foroughinia, F., Mahboubeh Yousefi, **Elham Haem**. Effects of Panax ginseng on Health-Related Quality of Life in patients with non-metastatic breast cancer: A randomized, double-

blind, placebo-controlled clinical trial Ginseng for HRQOL in breast cancer. *Nutrition and cancer*, **2023** (accepted).

9. Mojtaba Shafiekhani, Mahtabalsadat Mirjalili, Siavash Gholami, Pooya Vatankhah, Jamshid Roozbeh, Goli Mehrdad, **Elham Haem**, et al. Immunogenicity of the inactivated SARS-CoV-2 vaccine (BBIBP-CorV; Sinopharm) and short term clinical outcomes in vaccinated solid organ transplant recipients: a prospective cohort study, *Transplantation* 106(9S):p S747-S748, September **2022**.
10. Mojtaba Shafiekhani, Farbod Shahabinezhad, Zahra Tavakoli, Tahereh Tarakmeh, **Elham Haem**, Negar Sari, Shohreh Nasirabadi, Masoud Dehghani. Quality of life associated with immunosuppressant treatment adherence in liver transplant recipients: A cross-sectional study. *Frontiers in Pharmacology*, 14,1051350, **2023**.
11. Parisa Ghasemiyeh, Afsaneh Vazin, Farid Zand, **Elham Haem**, Iman Karimzadeh, Amir Azadi, Mansoor Masjedi, Golnar Sabetian, Reza Nikandish, Soliman Mohammadi-Samani. Pharmacokinetic assessment of vancomycin in critically ill patients and nephrotoxicity prediction using individualized pharmacokinetic parameters. *Frontiers in Pharmacology*, 13,912202, **2022**.
12. Hamidian, M., Foroughinia, F., Haghighat, S., Attar, A., **Haem, E.** Protective effects of Panax ginseng against doxorubicin-induced cardiac toxicity in patients with non-metastatic breast cancer: A randomized, double-blind, placebo-controlled clinical trial. *Journal of Oncology Pharmacy Practice*, **2022**.
13. Doostfateme M, **Haem E**, Sarbaran M, Ajdari M. Multidimensional Item Response Theory to Assess the Psychometric Properties of Persian Version of Dutch Eating Behavior Questionnaire (DEBQ) in University Students. *Current Psychology*, **2022**.
14. Shafiekhani M, Shahabinezhad F, Niknam T, Tara S, **Haem E**, et al. Evaluation of the therapeutic regimen in Covid-19 in transplant patients: where do immunomodulatory and antivirals stand?, *Virology journal*, **2021**, 18:228.
15. **Haem E**, Doostfateme M. Multidimensional item response theory to assess psychometric properties of GHQ-12 in parents of schoolchildren. *Journal of Biostatistics and Epidemiology*, **2021**.
16. Haem, E., Doostfateme M., Firouzabadi, N. et al. A longitudinal item response model for Aberrant Behavior Checklist (ABC) data from children with autism. *J Pharmacokinet Pharmacodyn* 47, 241–253, **2020**.
17. **Haem E**, Harling K, Ayatollahi S.M.T, Zare N, Karlsson M. Adjusted Adaptive Lasso for covariate model building in nonlinear mixed effect pharmacokinetic models. *Journal of pharmacokinetics and pharmacodynamics*. **2017**, 44:55–66.
18. Ayatollahi S.M.T, **Haem E**, Sharafi Z. Growth velocity of infants from birth to 5 years born in Maku, Iran, *Global Journal of Health Science*, 8, 2, **2015**.
19. Ayatollahi S.M.T, Sharafi Z, **Haem E**. Child Weight Growth Chart and Its Associated Factors in Birth Cohort of Maku Using a Growth Curve Model and LMS Method, *Global Journal of Health Science*,

7,6, 2015.

20. Ghaemmaghami P, Ayatollahi S.M.T, Alinejad V, **Haem E**. Longitudinal standards for growth velocity of infants from birth to 4 years born in West Azarbayejan. *Epidemiology and Health*, 37, 2015.
21. **Haem E**, Heydari ST, Zare N, Lankarani KB, Barooti E. Ovarian cancer risk factors in a defined population using rare event logistic regression. *Middle East Journal of Cancer*, 2014.
22. Zare N, **Haem E**, Lankarani KB, Heydari ST, Barooti E. Breast cancer risk factors in a defined population: weighted logistic regression approach for rare events. *Journal of breast cancer*. 2013;16(2):214-9.

Abstracts:

1. **Haem E**, Karlsson M, Ueckert S. Comparison of power and type 1 error of composite score models for drug effect detection in clinical trials. Annual meeting of the Population Approach Group Europe. Virtual, 2-7 September 2021.
2. **Haem E**, Harling K, Ayatollahi S.M.T, Zare N, Karlsson M. Adjusted Adaptive Lasso for covariate model building in nonlinear mixed effect models. Annual meeting of the Population Approach Group Europe, Lisbon, Portugal, from 7-10 June 2016.
3. Zare N, **Haem E**, Lankarani KB, Heydari ST, Barooti E. Breast cancer risk factors in a defined population: weighted logistic regression approach for rare events. Iranian Epidemiology Congress, Yasouj, Iran, May 2013.

Selected Workshops and short courses:

1. An introduction to pharmacometric modelling and simulations. Institute of Pharmacy, University of Hamburg, Germany, 2023.
2. Pharmacometric modelling of composite score outcomes. Uppsala University, Uppsala, Sweden. 14-15 May 2020.
3. Uppsala summer school: Covariate model building+PKPD modeling of continuous and categorical data. Uppsala University, Uppsala, Sweden. August 8-19, 2016.
4. R software: Shiraz University of Medical Sciences, Shiraz, Iran, 2010.
5. Introduction to primary R software, Shiraz University of Medical Sciences, Shiraz, Iran, 2014.
6. SPSS software: Shiraz University of Medical Sciences, Shiraz, Iran, 2010.
7. Neural Network: Iranian Epidemiology Congress. Yasouj, Iran, 2013.
8. Introduction to research methods and types of epidemiological studies: Shiraz University of

Medical Sciences, Shiraz, Iran, 2011.

9. Sampling methods and sample size calculation: Shiraz University of Medical Sciences, Shiraz, Iran, 2011.
10. Bioinformatics medicine, Shiraz University of Medical Sciences, Shiraz, Iran, 2012.
11. Endnote, Shiraz University of Medical Sciences, Shiraz, Iran, 2012.

Lectured Workshops:

1. Introduction to Graphpad Prism software, Shiraz school of pharmacy, 2018.
2. Introduction to Pharmacometrics: Advanced statistical methods in population pharmacokinetics and pharmacodynamics, Shiraz school of pharmacy, 2016.
3. SPSS software in summer school, Shiraz University of Medical Science, 2016.
4. SPSS software, Shiraz University of medical science, 2015

