Bahareh Rasouli

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PROFILE

Highly skilled epidemiologist and public health scientist with solid academic preparation holding a Doctor degree and extensive experience in comparative effectiveness research, causal inference methods, electronic healthcare database, real-world evidence, developing risk prediction models, pharmacoepidemiology, nutrition epidemiology, and designing, conducting, and analysing epidemiologic studies to identify the risk factors and better strategies for primary and secondary prevention of chronic diseases. Proven ability to work in a team-based environment and build national and international networks.

PROFESSIONAL EXPERIENCE

October 2022-date   Research Scientist, Harvard Pilgrim Health Care, USA

- Research scientist epidemiologist working on FDA-sponsored Sentinel Initiative for drug safety surveillance

November 2020-October 2022   Postdoc, Karolinska Institutet, Sweden

- ***Project(s):*** Investigate the comparative effectiveness of second-line glucose-lowering drugs and diabetes complications: Register-based emulated trials.
- ***Responsibilities:*** Responsible for design, implementation, and management of the research projects. Teaching in epidemiological courses and supervising masters and Ph.D. students. Preparing and submitting successful ethical and grant applications.
- ***New methodologies/skills/experiences:*** Using unique registry-based data in Sweden combined with advanced causal inference methods to emulate target trials. Cost-effectiveness analysis. Interested in the interplay between causal inference and machine learning (learning in progress).

February 2018-date   Postdoc, Harvard School of Public Health, USA

- ***Project(s):***
  - Combining high-quality data with rigorous methods: emulating a target trial using electronic medical records and a case-control design for comparative effectiveness research.
  - Risk scores for prediction of type 2 diabetes and pre-diabetes: a pooled analysis of prospective cohorts.
- ***Responsibilities:*** Contributed to the planning and developing of the study's objective, finalizing the research protocol and analytical plan for the research projects. Preparing the SAS macros (analytical codes). Analysing the data and writing the articles and scientific reports. Developing a Guideline and an analytical program to apply advanced analytical methods for future users. Writing IRB and grant applications. Conducting several semi-structured interviews with investigators and data analysts. Merging data from several cohort studies and developing risk prediction models. Assisted in course development and lectured on epidemiology and public health.
- ***New methodologies/skills/experiences:*** Developing and applying advanced causal inference methods. Developing risk prediction models.

August-Dec 2017   Intern, Nestlé Health Science, Switzerland

- ***Project(s):*** Contribution in the Vitamin D Value Dossier review. Writing the Protein Book to support protein supplement products. Contribution in writing and reviewing the cost-effectiveness articles for Optifast (a weight management program).
- ***Responsibilities:*** Supporting the Medical Affairs function to the CC-Healthy Ageing category.
- ***New methodologies/skills/experiences:*** Utilizing the transferable skills from academia to industry, e.g., problem-solving, analytical thinking, project management,

teamwork, and communication. Utilizing nutritional knowledge to prepare guidelines for dietary supplements.

April 2016-July 2017   Postdoc, Karolinska Institutet, Sweden

- ***Project(s):*** Coffee consumption, genetic susceptibility and the risk of LADA-Latent Autoimmune Diabetes in Adults; A Population-based Case-control Study.
- ***Responsibilities:*** Planning and implementing research projects. Development/initiating new collaborations. Writing research grant applications based on new ideas/data.
- ***New methodologies/skills/experiences:*** Expanding previous epidemiological knowledge gained during doctoral education to gene*environment analysis.

2004-2009   Research Assistant, Institute of Nutrition and Food Technology, Iran

- Involved in several nutritional and public health research projects in collaboration with national and international institutes, e.g., WHO, FAO, and World Bank.

EDUCATION

2011-March 2016   **Ph.D. Medical Science**, Karolinska Institutet, Sweden

→ Specialized in Diabetes Epidemiology

2009-2011   **M.Sc. Public Health Nutrition**, Karolinska Institutet, Sweden

1999-2003   **B.Sc. Nutrition**, Shahid Beheshti University of Medical Sciences, Iran

PUBLICATIONS

Extensive experience in conducting and successfully publishing scientific reports; first/co-author on >15 peer-reviewed published and pending articles in medical journals.

1. Danaei G, **Rasouli B**, Chubak J, et al. (**2021**). Developing New Methods for Comparing Treatments in Case-Control Studies. Patient-Centered Outcomes Research Institute (PCORI). https://doi.org/10.25302/07.2021.ME.160936748
2. Edstorp J, Wei Y, Ahlqvist E, Alfredsson L, Grill V, Groop L, **Rasouli B**, Sørgjerd EP, Thorsby PM, Tuomi T, Åsvold BO, Carlsson S. Smoking, use of smokeless tobacco, HLA genotypes and incidence of latent autoimmune diabetes in adults. Diabetologia **2022**
3. Nuijten M, Dainelli L, **Rasouli B**, Araujo Torres K, Perugini M, Marczewska A. A Meal Replacement Program for the Treatment of Obesity: A Cost-Effectiveness Analysis from the Swiss Payer's Perspective. Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy, **2021**
4. **Rasouli B**, Ahlqvist E, Alfredsson L, Andersson T, Carlsson PO, Groop L, Löfvenborg JE, Martinell M, Rosengren A, Tuomi T, Wolk A, Carlsson S. Coffee consumption, genetic susceptibility and risk of latent autoimmune diabetes in adults: A population-based case-control study. Diabetes & metabolism **2018**
5. Nuijten, M; Marczewska, A; Araujo Torres, K; **Rasouli, B**; Perugini, M. A health economic model to assess the cost-effectiveness of OPTIFAST for the treatment of obesity in the United States. Journal of medical economics, **2018**
6. Hjort R, Ahlqvist E, Carlsson PO, Grill V, Groop L, Martinell M, **Rasouli B**, Rosengren A, Tuomi T, Åsvold BO, Carlsson S. Overweight, obesity and the risk of LADA, results from a Swedish case-control study and the Norwegian HUNT Study. Diabetologia, **2018**
7. **Rasouli B**, Andersson T, Carlsson PO, Hjort R, Edwall Löfvenborg J, Martinell M, Groop L, Tuomi T, Carlsson S. Serious life events and the risk of Latent autoimmune diabetes in adults (LADA) and type 2 diabetes. Diabetic Medicine, **2017**
8. Hjort R, Alfredsson L, Andersson T, Carlsson PO, Grill V, Groop L, Martinell M, **Rasouli B**, Storm P, Tuomi T, Carlsson S. Family history of type 1 and type 2 diabetes and risk of latent autoimmune diabetes in adults (LADA). Diabetes & metabolism, **2017**
9. **Rasouli B**, Andersson T, Carlsson P.O, Grill V, Groop L, Martinell M, Midthjell K, Storm P, Tuomi T, Carlsson S. Use of Swedish smokeless tobacco (snus) and the risk of Type 2 diabetes and latent autoimmune diabetes of adulthood (LADA). Diabet Med, **2017**
10. **Rasouli B**, Andersson T, Carlsson PO, Grill V, Groop L, Martinell M, Storm P, Tuomi T, Carlsson S: Smoking and the Risk of LADA: Results From a Swedish Population-Based Case-Control Study. Diabetes Care, **2016**

11. **Rasouli B**, Andersson T, Carlsson Po, Dorkhan M, Grill V, Groop L, Martinell M, Tuomi T, Carlsson S. Alcohol and the risk for latent autoimmune diabetes in adults: results based on Swedish ESTRID study. European journal of endocrinology, **2014**
12. Lofvenborg Je, Andersson T, Carlsson Po, Dorkhan M, Groop L, Martinell M, **Rasouli, B**., Storm, P., Tuomi, T., Carlsson, S. Coffee consumption and the risk of latent autoimmune diabetes in adults--results from a Swedish case-control study. Diabetic medicine, **2014**
13. **Rasouli B**, Grill V, Midthjell K, Ahlbom A, Andersson T, Carlsson S. Smoking is associated with reduced risk of autoimmune diabetes in adults contrasting with increased risk in overweight men with type 2 diabetes: a 22-year follow-up of the HUNT study. Diabetes care, **2013**
14. **Rasouli B**, Andersson T, Grill V, Midthjell K, Olsson L, Carlsson S. Alcohol consumption is associated with reduced risk of Type 2 diabetes and autoimmune diabetes in adults: results from the Nord-Trondelag health study. Diabetic medicine, **2013**
15. **Rasouli B**, Andersson T, Grill V, Midthjell K, Olsson L, Carlsson S. Adult-Onset Autoimmune Diabetes is Largely due to Modifiable Risk Factors: Results from the Norwegian HUNT Study. J Diabetes Metab, **2013**
16. Tajik E, Ebrahimi F, **Rasouli B**. Bone moneral density contributors, body mass index and calcium intake in postmenopausal women. Journal of medical sciences, **2013**
17. Hajmirsadeghi Z, Kamali Z, **Rasouli B**, Roodpeyma S. Knowledge and practice of breastfeeding in Tehranian mothers, Iran. Annals of nutrition and metabolism, **2009**

AWARDS AND GRANTS

- First award in a hackathon in social determinants of health at Harvard T.H. Chan School of Public, 2019
- Karolinska Institutet research grant (KI-fonder), 2018
- Novo Nordisk Foundation, a 4-years postdoc grant, 2017
- Karolinska Institutet research grant (KI-fonder), 2016
- Travel grant from the Swedish Society of Medicine (Svenska Läkaresällskapet), 2015
- Young Investigators Award, Scandinavian Society for the Study of Diabetes (SSSD), 2013

ADDITIONAL SKILLS AND EXPERIENCES

- Strong communication skills demonstrated in the delivery of nine conference presentations (six oral presentations) at international conferences.
- Ability to communicate and support academic students as well as translating health messages to the public proven by involvement for several years in teaching (Karolinska Institutet, and Harvard school of public health), mentoring and co-mentoring Ph.D. and master's degree students, and conducting public health education workshops (primary health care centers).
- Providing scientific input for other researchers by being a reviewer for several medical journals.
- Involvement in several successful grants and ethical applications.
- Proficient in statistical software packages (SAS, STATA); extensive experience in data management, analysis, reporting, and interpreting data.
- Gaining industry experience by doing an internship at headquarter of Nestlé Health Science.

REFERENCES

- Sofia Carlsson, Associate Professor at Karolinska Institutet, sofia.carlsson@ki.se
- Maria Feychting, Professor at Karolinska Institutet, maria.feychting@ki.se
- Goodarz Danaei, Associate Professor at Harvard School of Public Health, gdanaei@hsph.harvard.edu