Curriculum Vitae

Azra Ramezankhani, PhD

Place of birth: Tehran/Iran
Sex: Female
Nationality: Iranian

Senior Researcher, Prevention of Metabolic Disorders Research Center, Research Institute for Endocrine Sciences, ShahidBeheshti University of Medical Sciences, Tehran, Iran

1. Work Institution Address

Prevention of Metabolic Disorders Research Center, Research Institute for Endocrine Sciences, ShahidBeheshti University of Medical Sciences,
Floor 3th, Number 24, Yemen Street, ShahidChamran Highway
Phone: +982122432500
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P.O. Box: 19395-4763, Tehran, Iran

2. Contact

Tel.: +989123226480
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3. Language Skills

- **Native:** Persian (Farsi)
- **Familiar:** Arabic
- **Excellent:** English, Turkish

4. Academic Degrees

- BSc in Nutrition, ShahidBeheshti University of Medical Sciences, Tehran, Iran, 1996.
- Master of Science in Nutrition, Tehran University of Medical Sciences, Tehran, Iran, 2003.
- PhD by research in Clinical Sciences, ShahidBeheshti University of Medical Sciences, Tehran, Iran, 2014.

5. Academic Positions

- Researcher of the Research Institute for Endocrine Sciences, ShahidBeheshti University of Medical Sciences, Tehran, Iran, 2006-2013.
- Senior Researcher, Prevention of Metabolic Disorders Research Center, Research Institute for Endocrine Sciences, ShahidBeheshti University of Medical Sciences, Tehran, Iran, 2013-Present.
- Advisor at the Critical Care Quality Improvement Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran, 2017-Present.

6. Administrative Positions and Responsibilities

- Clinical dietitian in the Nutrition Department of Taleghani Hospital, Shahid Beheshti University of Medical Sciences, Tehran, Iran, 1996-2003

- Head of Research and Development (R&D) department and Quality Improvement Department, Taleghani Hospital, Shahid Beheshti University of Medical Sciences, Tehran, Iran, 2007-2013

7. Memberships

- Auditor of EFQM Excellence Model, ISO 9001-2000, Hospital Accreditation, Clinical Governance and Patient Safety, 2003-2013

- Executive Member of the Managing Board of Taleghani Hospital, Shahid Beheshti University of Medical Sciences, Tehran, Iran, 2008-2013

- Member of strategic planning committee of the Taleghani Hospital, Shahid Beheshti University of Medical Sciences, Tehran, Iran, 2003-2013.

- Member of the executive committees of the Taleghani Hospital, Shahid Beheshti University of Medical Sciences, Tehran, Iran, 2003-2013

8. Research Interest

- Research Methodology
- R programming
- Data mining and machine learning (Decision Tree, Neural Network, Cluster Analysis, Survival Tree)
- Statistic (Survival Analysis, GLM)
- Multi-state Models (Markov and semi-Markov model)
- Prediction models

9. Publications (International Peer Reviewed journals (PubMed/ISI)

1   **Azra Ramezankhani**, Hadi Harati, Mohammadreza Bozorgmanesh, Maryam Tohidi, Davood Khalili, Fereidoun Azizi, Farzad Hadaegh. Diabetes mellitus: Findings from 20 years of the Tehran Lipid and Glucose Study. International Journal of Endocrinology and Metabolism, 2018 Oct 16;16(4 Suppl):e84784.

2   **Azra Ramezankhani,** Solmaz Ehteshami-Afshar, Mitra Hasheminia, Mohammad Ali Hajebrahimi, Fereidoun Azizi, Farzad Hadaegh. Optimum cutoff values of anthropometric indices of obesity for predicting hypertension: more than one decades of follow-up in an Iranian population. Journal of human hypertension, 2018 Dec;32(12):838-848.

3   Aidin Baghbani-Oskouei, Maryam Tohidi, Samaneh Asgari, **Azra Ramezankhani,** Fereidoun Azizi, Farzad Hadaegh. Serum Lipids during 20 years in the Tehran Lipid and Glucose Study: Prevalence, trends and impact on non-communicable diseases. International Journal of Endocrinology and Metabolism, 2018 Oct 16;16(4 Suppl):e84750.

4   Samaneh Akbarpour, Davood Khalili, Hojjat Zeraati, Mohammad Ali Mansournia, **Azra Ramezankhani,** Akbar Fotouhi. Healthy lifestyle behaviors and control of hypertension among adult hypertensive patients. Scientific reports, 2018 May 31; 8(1):8508.

5   Mohammad Fathi, Nader Markazi-Moghaddam, **Azra Ramezankhani.** A systematic review on risk factors associated with sepsis in patients admitted to intensive care units. Australian Critical Care, 2018 Mar 21. pii: S1036-7314(17) 30384-3.

6   **Azra Ramezankhani**, Fereidoun Azizi, Farzad Hadaegh, Amir Abbas Momenan. Diabetes and number of years of life lost with and without cardiovascular disease: a multi-state homogeneous semi-Markov model. Acta diabetologica, 2018 Mar;55(3):253-262.

7   Fatemeh Zameni, Mahmood Bakhtiyari, Mohammad Ali Mansournia, **Azra Ramezankhani**, Fereidoun Azizi, Farzad Hadaegh. Is incident type 2 diabetes associated with cumulative excess weight and abdominal adiposity? Tehran Lipid and Glucose Study. Diabetes research and clinical practice, 2018 Feb;136:134-142.

8   Abbas Aghaei, Yadollah Mehrabi, **Azra Ramezankhani**, Hamid Soori. Factors related to pediatric Burn in Iran: A Case-Control Study, International Journal of Pediatrics, 2018; 6(6): 7823-32.

9   Samaneh Akbarpour, Davood Khalili, Hojjat Zeraati, Mohammad Ali Mansournia, **Azra Ramezankhani,** Akbar Fotouhi. Lifestyle patterns in the Iranian population: Self- organizing map application. Caspian Journal of Internal Medicine. 2018 Summer; 9(3): 268–275.

10 **Azra Ramezankhani**, Maryam Tohidi, Fereidoun Azizi, Farzad Hadaegh. Application of survival tree analysis for exploration of potential interactions between predictors of incident chronic kidney disease: a 15-year follow-up study. Journal of translational medicine, 2017 Nov 28;15(1):240.

11 Reyhaneh Rajab Boloukat, **Azra Ramezankhani,** Mitra Hasheminia, Erfan Tasdighi, Fereidoun Azizi, Farzad Hadaegh. Impact of blood pressure, cholesterol and glucose in the association between adiposity measures and coronary heart disease and stroke among Iranian population. Clinical Nutrition, 2018 Dec; 37(6 Pt A):2060-2067.

12 Donna Parizadeh, **Azra Ramezankhani,** Amir Abbas Momenan, Fereidoun Azizi, Farzad Hadaegh. Exploring risk patterns for incident ischemic stroke during more than a decade of follow-up: a survival tree analysis, Computer methods and programs in biomedicine, 2017 Aug; 147:29-36.

13 **Azra Ramezankhani**, Fereidoun Azizi, Farzad Hadaegh, Fatemeh Eskandari. Sex-specific clustering of metabolic risk factors and their association with incident cardiovascular diseases: a population-based prospective study. Atherosclerosis, 2017 Aug; 263:249-256.

14 **Azra Ramezankhani**, Farideh Bagherzadeh-Khiabani, Davood Khalili, Fereidoun Azizi, Farzad Hadaegh. A new look at risk patterns related to coronary heart disease incidence using survival tree analysis: 12 Years Longitudinal Study. Scientific Reports, 2017 Jun 12;7(1):3237.

15 Roghieh Ramezankhani, Arezoo Hosseini, Nooshin Sajjadi, Mostafa Khoshabi, **Azra Ramezankhani.** Environmental risk factors for the incidence of cutaneous leishmaniasis in an endemic area of Iran: A GIS-based approach. Spatial and spatio-temporal epidemiology, 2017 Jun;21:57-66.

16 Sara Kazempour-Ardebili, **Azra Ramezankhani,** Ali Eslami, Samaneh Akbarpour, Fereidoun Azizi, Farzad Hadaegh. Metabolic mediators of the impact of general and central adiposity measures on cardiovascular disease and mortality risks in older adults: Tehran Lipid and Glucose Study. Geriatrics & gerontology international, 2017 Nov;17(11):2017-2024.

17 **Azra Ramezankhani,** Esmaeil Hadavandi, Omid Pournik, Jamal Shahrabi, Fereidoun Azizi, Farzad Hadaegh. Decision tree-based modelling for identification of potential interactions between type 2 diabetes risk factors: a decade follow-up in a Middle East prospective cohort study. BMJ open, 2016 Dec 1;6(12):e013336.

18 **Azra Ramezankhani,** Fereidoun Azizi, Arash Ghanbarian, Donna Parizadeh, Farzad Hadaegh. The hypertriglyceridemic waist and waist-to-height ratio phenotypes and chronic kidney disease: Cross-sectional and prospective investigations. Obesity research & clinical practice, 2017 Sep - Oct;11(5):585-596.

19 **Azra Ramezankhani**, Ali Kabir, Omid Pournik, Fereidoun Azizi, Farzad Hadaegh. Classification-based data mining for identification of risk patterns associated with hypertension in Middle Eastern population: A 12-year longitudinal study. Medicine, 2016 Aug; 95(35):e4143.

20 Arash Derakhshan, Farideh Bagherzadeh-Khiabani, Banafsheh Arshi, **Azra Ramezankhani,** Fereidoun Azizi, Farzad Hadaegh. Different combinations of glucose tolerance and blood pressure status and incident diabetes, hypertension, and chronic kidney disease. Journal of the American Heart Association, 2016 Aug 20; 5(8). pii: e003917.

21 A Comparative Study on the Adverse Reactions of Purified Chick Embryo Cell Vaccine (PCECV) and Purified Vero Cell Rabies Vaccine (PVRV). Roghieh Ramezankhani , Mohammad Reza Shirzadi , **Azra Ramezankhani** , Jamshid Poor Mozafary. Archives of Iranian medicine, 2016 Jul;19(7):502-7.

22 Farideh Bagherzadeh-Khiabani, **Azra Ramezankhani**, Fereidoun Azizi, Farzad Hadaegh, Ewout W Steyerberg, Davood Khalili. A tutorial on variable selection for clinical prediction models: feature selection methods in data mining could improve the results. Journal of clinical epidemiology, 2016 Mar;71:76-85.

23 **Azra Ramezankhani**, Omid Pournik, Jamal Shahrabi, Fereidoun Azizi, Farzad Hadaegh. An application of association rule mining to extract risk pattern for type 2 diabetes using tehran lipid and glucose study database. International journal of endocrinology and metabolism, 2015 Apr 30;13(2):e25389.

24 **Azra Ramezankhani**, Omid Pournik, Jamal Shahrabi, Fereidoun Azizi, Farzad Hadaegh, Davood Khalili. The impact of oversampling with SMOTE on the performance of 3 classifiers in prediction of type 2 diabetes. Medical decision making, 2016 Jan;36(1):137-44.

25 **Azra Ramezankhani**, Omid Pournik, Jamal Shahrabi, Davood Khalili, Fereidoun Azizi, Farzad Hadaegh. Applying decision tree for identification of a low risk population for type 2 diabetes. Tehran Lipid and Glucose Study. Diabetes research and clinical practice, 2014 Sep;105(3):391-8.

26 **Azra Ramezankhani,** Yadollah Mehrabi, Parvin Mirmiran, Fereidoun Azizi. Comparison of anthropometric and biochemical indices of adolescents born during and after the Iran-Iraq war; Tehran Lipid and Glucose Study. Archives of Iranian medicine, 2011 Jan;14(1):27-31.

27 Ahmad Saedisomeolia, Mahmoud Djalali, Ali Malekshahi Moghadam, **Ozra Ramezankhani**, Laya Najmi. Folate and vitamin B12 status in schizophrenic patients. Journal of research in medical sciences, 2011 Mar;16 Suppl 1:S437-41.

28 **Azra Ramezankhani**, Parvin Mirmiran, Fereidoun Azizi. Effect of nutritional intervention on the prevalence of metabolic syndrome and heart disease risk factors in urban Tehran (Tehran Lipid and Glucose Study). Eastern Mediterranean Health Journal, 2011 Jun;17(6):501-8.

29 Parvin Mirmiran, **Azra Ramezankhani**, Fereidoun Azizi. Combined effects of saturated fat and cholesterol intakes on serum lipids: Tehran Lipid and Glucose Study. Nutrition, 2009 May;25(5):526-31.

30 Parvin Mirmiran, **Azra Ramezankhani**, Azita Hekmatdoost, Fereidoun Azizi. Effect of nutrition intervention on non-communicable disease risk factors among Tehranian adults: Tehran Lipid and Glucose Study. Annals of Nutrition and Metabolism, 2008;52(2):91-5.

10. Publications (Persian):

1. Roghieh Ramezankhani, Mohammad Reza Shirzadi, **Azra Ramezankhani**, Faranak Gharachorloo. Comparison of the adverse effect of PCEC and Vero rabies vaccine in a double blind clinical trial. Research in Medicine. 2016; 40 (1) :1-7.

2. **Ramezankhani Azra**, Mehrabi Yadollah, Mirmiran Parvin, Azizi Fereidoun. The effects of Iran-Iraq war circumstances on adolescent's anthropometric and biochemical indices at the age of 11-18. Tehran lipid and glucose study. Annals of Military and Health Sciences Research. 2012; 10 (1) :28-34.

3. Fathololoumi M R, Delkhah Akbar L, **Ramezankhani A**, Nouhi S, Fattahi Bafghi A, Goljanian A. Comparison of systemic and local corticosteroids on the clinical and laboratory parameters in patients with perennial allergic rhinitis . Research in Medicine. 2010; 34 (2) :92-97.

4. Gheidari M E, Khodayari Moez E, Meshkani Farahani Z S, Payandeh A T, **Ramazankhani A**. Time series analysis of the surface electrocardiogram in patients with atrial fibrillation. Scientific Journal of Kurdistan University of Medical Sciences. 2010; 15 (3) :81-88.

5. **Ramezankhani A**, Markazi Moghaddam N, Haji Fathali A, Jafari H, Heidari Mnfared M, Mohammadnia M. The rate and causes of surgery cancellation: Identifying areas for improvement. Journal of Hospital. 2010; 8 (3 and 4) :27-34.

6. **Azra Ramezankhani,** Parvin Mirmiran, Fereidoun Azizi. Effect of nutritional intervention on prevalence of metabolic syndrome and heart disease risk factors among urban Tehranians: Tehran Lipid and Glucose Study (TLGS). Iranian Journal of Endocrinology and Metabolism. 2007; 9(1):1-10.

7. Azizi Fereidoun, **Ramezankhani Azra**, Mirmiran Parvin, Ataee Maryam. Combined effect of saturated fat and cholesterol intake on serum lipids of urban Tehranians: Tehran Lipid and Glucose Study (TLGS). Research in Medicine. 2007; 31 (3) :205-212.

8. Dadgari F., Ahmadi K., Mardani M., **Ramezankhani A.** Frequency and antibiotic resistance profile of bacteria isolated from the intensive care unit and general ward at a general hospital in Tehran. Annals of Military and Health Sciences Research. 2007, 5(1), 1155-1164.

9. Mirmiran Parvin, **Ramezankhani Azra**, Hamayeli Mehrabani Homeira, Azizi Fereidoun. Effect of nutritional interventions on non-communicable disease risk factors among urban tehranians: TEHRAN LIPID and GLUCOSE STUDY (TLGS). Iranian Journal of Diabetes and Metabolism. 2006; 6 (2):189-199.

10. **Ramezankhani A**., Jalali M., Keshavarz A., Zeraati H.A., Hamdieh M., Jarelahi N. Comparison of nutrients intake between healthy people and schizophrenic patients between 15 to 55 years attending in Taleghani hospital. Annals of Military and Health Sciences Research. 2004; 2 (8): 427-431.

11. Abstracts

1. **Azra Ramezankhani**, Esmaeil Hadavandi, Omid Pournik, Jamal Shahrabi, Fereidoun Azizi, Farzad Hadaegh. New insight into type 2 diabetes in the light of data mining: results from TLGS prospective study. Europian Journal of Epidemiology (2015) 30:709-1001.

2. Farideh Bagherzadeh Khiabani, **Azra Ramezankhani**, Farzad Hadaegh, Fereidoun Azizi, Davood Khalili. A systematic approach to variable selection methods used in datamining: a practice in epidemiology. Europian Journal of Epidemiology (2015) 30:709-1001.

3. **Azra Ramezankhani**, Omid Pournik, Jamal Shahrabi, Davood Khalili, Fereidoun Azizi, Farzad Hadaegh. Extraction of risk patterns for type 2 diabetes using association rule mining. Europian Journal of Epidemiology (2015) 30:709-1001.

12. Poster Presentation (International Congress)

1. **Azra Ramezankhani,** Arash Derakhshani, Banafsheh Arshi, Fereidoun Azizi, Farzad Hadaegh. Different Combination of Glucose Tolerance and Blood Pressure Status and Incident Diabetes, Hypertension and Chronic Kidney Disease. 17thInternational Congress of Endocrinology jointly with the 15th Annual Conference of Chinese Society of Endocrinology, 2016. **China**

2. **Azra Ramezankhani,** Farideh BagherzadehKhiabani, Davood Khalili, Fereidoun Azizi, Farzad Ha daegh. Risk Factors for coronary heart disease incidence as estimated using the Survival Tree analysis. 17thInternational Congress of Endocrinology jointly with the 15th Annual Conference of Chinese Society of Endocrinology, 2016. **China**

3. Donna Parizadeh, **Azra Ramezankhani**, Fatemeh Eskandari, Fereidoun Azizi. Risk factors for ischemic stroke; a 12 year follow-up of participants in the Tehran lipid and glucose study. 17thInternational Congress of Endocrinology jointly with the 15th Annual Conference of Chinese Society of Endocrinology. 2016. **China**

4. Farideh Bagherzadeh Khiabani, **Azra Ramezankhani,** Farzad Hadaegh, Fereidoun Azizi, Davood Khalili. A novel approach to determine potential predictors of diabetes among pre-diabetic women: a population –based cohort study. 17thInternational Congress of Endocrinology jointly with the 15th Annual Conference of Chinese Society of Endocrinology, 2016, **China.**

5. **Azra Ramezankhani**, Esmaeil Hadavandi, Omid Pournik, Jamal Shahrabi, Fereidoun Azizi, Farzad Hadaegh. New insight into Type 2 diabetes in the light of data mining: Results from TLGS prospective study, Healthy Living: The European Congress of Epidemiology, 2015, **Netherlands.**

6. **Azra Ramezankhani,** Omid Pournik, Jamal Shahrabi, Davood Khalili, Fereidoun Azizi, Farzad Hadaegh. Extraction of risk patterns for type 2 diabetes using Association Rule Mining. Healthy Living: The European Congress of Epidemiology, 2015, **Netherlands.**

7. Farideh Bagherzadeh Khiabani, **Azra Ramezankhani**, Farzad Hadaegh, Fereidoun Azizi, Davood Khalili. A systematic approach to variable selection methods used in Data-mining: a practice in epidemiology. Healthy Living: The European Congress of Epidemiology, 2015, **Netherlands.**

8. **Azra Ramezankhani**, Parvin Mirmiran, Fereidoun Azizi. Effect Of Nutrition Intervention On Prevalence of Metabolic Syndrome and Heart Disease Risk Factors Among Urban Tehranians:(TLGS). 2 nd International Congress on Prediabetes and The Metabolic Syndrome, 2007, **Spain.**

9. **Azra Ramezankhani,** Probiotic Bacteria and gastrointestinal disorders. 9th European Nutrition Conference, 2003, **Italy.**

13. Poster Presentation (national Congress):

More than 13 posters in several international congresses in Iran

14. Teaching Experiences

- Research Methodology course, The Faculty of Paramedicine, AJA University of Medical Sciences, Tehran, Iran, 2006
- SPSS data analysis course for staffs, Taleghani Hospital, Shahid Beheshti University of Medical Sciences, Tehran, Iran, 2012.
- Scientific writing workshop, Shahid Modarress Educational Hospital, Shahid Beheshti University of Medical Sciences, Tehran, Iran, 2018.

15. Consulting Advisor

- [**PhD**] Samaneh Akbarpour, "Assessment of lifestyle patterns among Iranian population using self-organising map and latent class cluster analysis methods and its association with blood pressure in 2011. Started in 2014. Tehran University of Medical Sciences, School of Public Health, Tehran, Iran.
- [**PhD**] Abbas Aghaei, "Determining the burn related factors using classification algorithms in data mining and estimating the population attributable fraction in children of Kermanshah province". Started in 2016. Shahid Beheshti University of Medical Sciences, School of Public Health, Tehran, Iran.
- [**GP**] Donna Parizadeh, "Exploring risk patterns for incident ischemic stroke: a survival-tree analysis from the TLGS study" Started in 2015. Shahid Beheshti University of Medical Sciences, School of medicine, Tehran, Iran.

16. Scientific Reviewer

- Reviewer of Iranian Journal of Basic Medical Sciences
- Reviewer of International Journal of Endocrinology and Metabolism
- Reviewer of Iranian Journal of public health
- Reviewer of Computers in Biology and Medicine

17. Additional Courses and Trainings (Some of the most important courses and workshops)

1. Strategy planning course, Taleghani Hospital, Shahid Beheshti University of Medical Sciences, Tehran, Iran, 2003-2004.

2. Six Sigma methodology (for eliminating defects in a product, process or service), Taleghani Hospital, Shahid Beheshti University of Medical Sciences, Tehran, Iran, 2008-2009

3. The EFQM Training course, TUVE NORD Iran, 2008-2009.

4. ISO 9001-2000, Taleghani Hospital, Shahid Beheshti University of Medical Sciences, Tehran, Iran, 2005-2006.

5. Process management, Taleghani Hospital, Shahid Beheshti University of Medical Sciences, Tehran, Iran, 2005-2006.

6. Clinical Governance course, Taleghani Hospital, Shahid Beheshti University of Medical Sciences, Tehran, Iran, 2012.

7. ICDL (International Computer Driving Licence), Shahid Beheshti University of Medical Sciences, Tehran, Iran, 2007-2008.

8. SPSS Essential Basics. Shahid Beheshti University of Medical Sciences, Tehran, Iran, 2008.

9. Qualitative research methodology workshop, Shahid Beheshti University of Medical Sciences, Tehran, Iran, 2012. 2008.

10. Analysis of variance workshop, Shahid Beheshti University of Medical Sciences, Tehran, Iran, 2007.

11. Scientific writing, Research Institute for Endocrine Sciences, ShahidBeheshti University of Medical Sciences, Tehran, Iran, 2007.

12. Survival analysis, Research Institute for Endocrine Sciences, ShahidBeheshti University of Medical Sciences, Tehran, Iran, 2007.

13. Research Methodology, AJA University of Medical Sciences, Tehran, Iran, 2004.

14. Data mining course, Amirkabir University of Technology, 2011-2012.

15. Neural network course, Amirkabir University of Technology, 2012-2013.

18. Software Skills

- **Programming software:** R
- **Statistic and data mining software:** Stata; IBM SPSS; IBM SPSS Modeler; RapidMiner; WEKA; KNIME; Curve Tool; UCI NET
- **Reference manager software:** ENDNOTE
- **Presentation software:** Microsoft Power point, Visio, Publisher, Prezi
- **Computer Literacy:** Adobe Photoshop; Microsoft Office programs (Access, Excel, PowerPoint, Visio, Publisher, Word)

19. Other Skills

- Calligraphy
- Illuminating
- Strategic Management
- Project management

20. Personal Interests & Hobbies

- Reading
- Programming with R
- Sports such as walking, chess
- Calligraphy, illuminating
- Cooking
- Photography
- Travelling

21. Scientific Travel Experiences

- Spain; Netherlands; China