

Curriculum Vitae: Mahdi Akbarzadeh, Ph.D. (Biostatistics)



PERSONAL INFORMATION

Name: Mahdi
Surname: Akbarzadeh
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*Shahid Beheshti University of Medical Sciences,
Cellular and Molecular Endocrine Research Center,
Research Institute for Endocrine Sciences, Tehran, Iran.*

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Education

2003-2007 (B.Sc.)	SAS Programing in statistics Supervisor: Professor Hossein Bevrani	Tabriz University
2007-2010 (M.Sc.)	Haseman-Elston Regression Model in Genetic Linkage Analysis Supervisor: Professor Hamid Alavi Majd	<i>Shahid Beheshti University of Medical Sciences</i>
2010-2015 (Ph.D.)	Structural Equation Modeling in Genetic Association and linkage analysis within Family-based studies. Supervisor: Professor Abbas Moghimbeigi	<i>Hamadan University of Medical Sciences</i>

Publications:

Book:

Biostatistics: Concepts, Methods, and Applications (3th edition). [Persian] Authors: Firouz Amani, Yaser Tabaraei, **Mahdi Akbarzadeh**; Sabzevar University of Medical Sciences, publisher, ISBN: 978-600-90198.

Papers:

- 1 **Mahdi Akbarzadeh**, Saeid Rasekhi Dehkordi, Mahmoud Amiri Roudbar, Mehdi Sargolzaei, Kamran Guity, Bahareh Sedaghati-khayat, Parisa Riahi, Fereidoun Azizi & Maryam S. Daneshpour*, GWAS findings improved genomic prediction accuracy of lipid profile traits: Tehran Cardiometabolic Genetic Study, Scientific Reports, 2021, <https://doi.org/10.1038/s41598-021-85203-8>
- 2 Goodarz Kolifarhood, Maryam S. Daneshpour, Asiyeh Sadat Zahedi, Nasim Khosravi, Bahareh Sedaghati-Khayat, Kamran Guity, Saeid Rasekhi Dehkordi, Mahmoud Amiri Roudbar, Forough Ghanbari, Farzad Hadaegh, Fereidoun Azizi, **Mahdi Akbarzadeh*** & Siamak Sabour*, Familial genetic and environmental risk profile and high blood pressure event: a prospective cohort of cardio-metabolic and genetic study Blood Pressure, 2021. <https://doi.org/10.1080/08037051.2021.1903807>
- 3 Somayeh Hosseinpour-Niazi, Bahar Bakhshi, Asiyeh-Sadat Zahedi, **Mahdi Akbarzadeh**, Maryam S. Daneshpour, Parvin Mirmiran* & Fereidoun Azizi*, TCF7L2 polymorphisms, nut consumption, and the risk of metabolic syndrome: a prospective population based study, Nutrition & Metabolism. 2021, <https://doi.org/10.1186/s12986-021-00542-7>

- 4 Asiyeh Sadat Zahedi, **Mahdi Akbarzadeh**, Bahareh Sedaghati-Khayat, Atefeh Seyedhamzehzadeh & Maryam S. Daneshpour*, GCKR common functional polymorphisms are associated with metabolic syndrome and its components: a 10-year retrospective cohort study in Iranian adults, *Diabetology & Metabolic Syndrome*, 2021, <https://doi.org/10.1186/s13098-021-00637-4>
- 5 Hossein Lanjanian, Maryam Moazzam-Jazi, Mehdi Hedayati, **Mahdi Akbarzadeh**, Kamran Guity, Bahareh Sedaghati-khayat, Fereidoun Azizi & Maryam S. Daneshpour*. SARS-CoV-2 infection susceptibility influenced by ACE2 genetic polymorphisms: insights from Tehran Cardio-Metabolic Genetic Study, *Scientific Reports*, 2021. <https://doi.org/10.1038/s41598-020-80325-x>
- 6 Javanrouh Givi N, Najd Hassan Bonab L, Barzin M, Zahedi A, Sedaghati-Khayat B, **Akbarzadeh Mahdi**, Maryam S. Daneshpour*, The joint effect of PPARG upstream genetic variation in association with long-term persistent obesity: Tehran cardio-metabolic genetic study (TCGS). *Eating and Weight Disorders : EWD*, 03 Jan 2021, DOI: 10.1007/s40519-020-01063-7
- 7 Zohreh Mousavizadeh, Firoozeh Hosseini-Esfahani, Amir Javadi, Maryam S Daneshpour, **Mahdi Akbarzadeh**, Maryam Javadi, Parvin Mirmrian, Fereidoun Azizi, The interaction between dietary patterns and melanocortin-4 receptor polymorphisms in relation to obesity phenotypes. *Obesity Research & Clinical Practice*. 2020. , doi:10.1016/j.orcp.2020.04.002
- 8 Ali Mohammad Parviniannasab, Mahnaz Rakhshan, Marzieh Momennasab, Mitra Soltanian, Masoume Rambod, **Mahdi Akbarzadeh**, Haemophilic adolescents' perspectives of resilience: A qualitative study based on the resilience in illness model. *Clinical Child Psychology and Psychiatry*. 2019. ,doi:10.1177/1359104519890905
- 9 Masoumeh Sadeghi, Maryam S Daneshpour, Soheila Khodakarim, Amir Abbas Momenan, **Mahdi Akbarzadeh**, Hamid Soori, Impact of Secondhand Smoke Exposure in Former Smokers on Their Subsequent Risk of Coronary Heart Disease: Evidence From the Population-Based Cohort of the Tehran Lipid and Glucose Study. *Epidemiology and Health*. 2020. ,doi:10.4178/epih.e2020009
- 10 Tayebeh Rakhshani, Zahra Sadat Asadi, **Mahdi Akbarzadeh**, Health Promoting Behaviors (HPBs) and the Metabolic Indicators of Red Crescent Society Employees in Iran. *Iranian Red Crescent Medical Journal*. 2020. 22(2),doi:10.5812/ircmj.97942
- 11 Goodarz Kolifarhood, Maryam Daneshpour, Farzad Hadaegh, Siamak Sabour, Hossein Mozafar Saadati, Ali Akbar Haghdoost, **Mahdi Akbarzadeh**, Bahareh Sedaghati-Khayat, Nasim Khosravi, Heritability of blood pressure traits in diverse populations: a systematic review and meta-analysis. *Journal of human hypertension*. 2019.
- 12 **Mahdi Akbarzadeh**, Abbas Moghimbeigi, Nathan Morris, Maryam S Daneshpour, Hossein Mahjub, Ali Reza Soltanian, A Bayesian structural equation model in general pedigree data analysis. *Statistical Analysis and Data Mining: The ASA Data Science Journal*. 2019. ,doi:10.1002/sam.11434
- 13 Goodarz Kolifarhood, Maryam S Daneshpour, Bahareh S Khayat, Hossein M Saadati, Kamran Guity, Nasim Khosravi, **Mahdi Akbarzadeh**, Siamak Sabour, Generality of genomic findings on blood pressure traits and its usefulness in precision medicine in diverse populations: A systematic review. *Clinical genetics*. 2019. ,doi:10.1111/cge.13527

- 14 Maryam Zarkesh, Azita Zadeh-Vakili, **Mahdi Akbarzadeh**, Zahra Nozhat, S Ahmad Fanaei, Mehdi Hedayati, Fereidoun Azizi, BRAF V600E mutation and microRNAs are helpful in distinguishing papillary thyroid malignant lesions: Tissues and fine needle aspiration cytology cases. *Life sciences*. 2019. 223,doi:10.1016/j.lfs.2019.03.034
- 15 Nima Montazeri-Najafabady, Mohammad Hossein Dabbaghmanesh, Rajee Mohammadian Amiri, **Mahdi Akbarzadeh**, Association of Vitamin D Receptor BsmI Gene Polymorphism with BMD Z-Score in Iranian Children and Adolescents (9-18 Years Old). *International journal of endocrinology and metabolism*. 2019. 17(2),doi:10.5812/ijem.82677
- 16 Babak Moeini, Hamid Abasi, Marzieh Otogara, **Mahdi Akbarzadeh**, Communication Skills and Its Related Factors Among Medical Staff. *Hormozgan Medical Journal*. 2019. 23(1),doi:10.5812/hmj.86254
- 17 Vahid Mollabashi, Mohammad Karim Soltani, Naeime Moslemian, Marzieh Akhlaghian, **Mahdi Akbarzadeh**, Hesamoddin Samavat, Masoud Abolvardi, Comparison of Bolton ratio in normal occlusion and different malocclusion groups in Iranian population. *International orthodontics*. 2019. 17(1),doi:10.1016/j.ortho.2019.01.005
- 18 Shahin Kasraei, Ebrahim Yarmohamadi, Pegah Ranjbaran Jahromi, **Mahdi Akbarzadeh**, Effect of 940nm Diode Laser Irradiation on Microtensile Bond Strength of an Etch and Rinse Adhesive (Single Bond 2) to Dentin. *Journal of Dentistry*. 2019. 20(1),doi:10.30476/DENTJODS.2019.44560
- 19 Mohamad-Mehdi Kooshyar, Anoosheh Maruzi, Azar Fani Pakdel, Sepideh Elyasi, Ali Taghizadeh-Kermani, **Mahdi Akbarzadeh**, Seyed Amir Aledavood, Adherence to a standardized chemotherapy order form for colorectal cancer in a referral teaching hospital, Mashhad, Iran. *Iranian journal of pharmaceutical research: IJPR*. 2019. 18(1).
- 20 Maryam Zarkesh, Azita Zadeh-Vakili, **Mahdi Akbarzadeh**, S Ahmad Fanaei, Mehdi Hedayati, Fereidoun Azizi, The role of matrix metalloproteinase-9 as a prognostic biomarker in papillary thyroid cancer. *BMC cancer*. 2018. 18(1), doi:10.1186/s12885-018-5112-0
- 15 Loghman R Sofi, R Fekrazad, **M Akbarzadeh**, M Maleki, Effect of Er: YAG laser, sandblast and several types of universal bonding on shear bond strength of zirconia ceramic to composite resin. *Dental Practice*. 2018. 19(10).
- 21 Maryam S Daneshpour, Mehdi Hedayati, Bahareh Sedaghati-Khayat, Kamran Guity, Maryam Zarkesh, **Mahdi Akbarzadeh**, Niloofar Javanrooh, Azita Zadeh-Vakili, Fereidoun Azizi, Genetic identification for non-communicable disease: Findings from 20 years of the Tehran Lipid and Glucose Study. *International journal of endocrinology and metabolism*. 2018. 16(4),doi: 10.5812/ijem.84744
- 22 Ebrahim Yarmohamadi, Pegah R Jahromi, **Mahdi Akbarzadeh**, Comparison of Cuspal Deflection and Microleakage of Premolar Teeth restored with Three Restorative Materials.. *The journal of contemporary dental practice*. 2018. 19(6),doi:10.5005/jp-journals-10024-2320
- 23 Tahereh Rahimi, Mohammad Hossein Baghianimoghadam, **Mahdi Akbarzadeh**, Ali Mehri, Jalal Nikokaran, Investigating the Role of Attitudes, Subjective Norms and Perceived Behavioral Control

- to Predict Milk Consumption among Students of Yazd University of Medical Sciences, 2014. *Toloo behdasht*. 2018. 16(6).
- 24 Bahareh Sedaghati-khayat, Maryam Barzin, **Mahdi Akbarzadeh**, Kamran Guity, Mohammad-Sadegh Fallah, Hoda Pourhassan, Fereidoun Azizi, Maryam S Daneshpour, Lack of association between FTO gene variations and metabolic healthy obese (MHO) phenotype: Tehran Cardio-metabolic Genetic Study (TCGS). *Eating and Weight Disorders-Studies on Anorexia, Bulimia and Obesity*. 2018. ,doi: 10.1007/s40519-018-0493-2
 - 20 Abbas Shokri, Leila Ramezani, Mohsen Bidgoli, **Mahdi Akbarzadeh**, Karim Ghazikhanlu-Sani, Hamed Fallahi-Sichani, Effect of field-of-view size on gray values derived from cone-beam computed tomography compared with the Hounsfield unit values from multidetector computed tomography scans. *Imaging science in dentistry*. 2018. 48(1),doi:10.5624/isd.2018.48.1.31
 - 25 Majid Mahmoudzadeh, **Mahdi Akbarzadeh**, Somayeh Karami, Panel Perception of Profile Attractiveness after Prediction of Orthodontic Treatment (EXT vs Non EXT). *Journal of Research in Medical and Dental Science*. 2018. 6(1).
 - 26 Majid Mahmoudzadeh, Loghman Rezaei-Soufi, Nasrin Farhadian, Seyed Farzad Jamalian, **Mahdi Akbarzadeh**, Mohammadali Momeni, Masome Basamtabar, Effect of CO2 laser and fluoride varnish application on microhardness of enamel surface around orthodontic brackets. *Journal of lasers in medical sciences*. 2018. 9(1),doi: 10.15171/jlms.2018.10
 - 27 Fatemeh Homaei Shandiz, Kamran Ghaffarzadegan, Saeed Jahani Fariman, **Mahdi Akbarzadeh**, Sepideh Elyasi, Amir Hooshang Mohammadpour, Evaluation of serum levels of 8-oxo-2'-deoxyguanosine as a prognostic factor in nonmetastatic breast cancer patients. *Breast Cancer Management*. 2017. 6(2),doi:10.2217/bmt-2017-0009
 - 28 MS Daneshpour, B Sedaghati-Khayat, M Barzin, **M Akbarzadeh**, K Guity, F Azizi, MS Fallah, H Pourhassan, Lack of association between FTO gene variations and metabolic healthy obese (MHO) phenotype: Tehran Cardio-Metabolic Genetic Study (TCGS).. *Journal of Obesity & Weight Loss Therapy*. 2017. 7(5),doi:10.4172/2165-7904.1000354
 - 29 **Mahdi Akbarzadeh**, Abbas Moghimbeigi, Nathan Morris, Maryam S Daneshpour, Ali Reza Soltanian, Hossein Mahjub, Association of gene variants with longitudinal changes in high density lipoprotein cholesterol among Tehranian people: A latent growth curve model. *Bioscience Biotechnology Research Communications*. 2017. 10(1).
 - 30 Iraj Mohammadfam, Ahmad Soltanzadeh, Abbas Moghimbeigi, **Mahdi Akbarzadeh**, Confirmatory factor analysis of occupational injuries: presenting an analytical tool. *Trauma monthly*. 2017. 22(2).
 - 31 Iraj Mohammadfam, Ahmad Soltanzadeh, Abbas Moghimbeigi, **Mehdi Akbarzadeh**, Modeling of individual and organizational factors affecting traumatic occupational injuries based on the structural equation modeling: a case study in large construction industries. *Archives of trauma research*. 2016. 5(3),doi:0.5812/at.33595
 - 32 Ahmad Soltanzadeh, Iraj Mohammadfam, Abbas Moghimbeigi, **Mahdi Akbarzadeh**, Reza Ghiasvand, Key factors contributing to accident severity rate in construction industry in Iran: a regression modelling approach, *Archives of Industrial Hygiene and Toxicology*. 2016. 67(1), doi:10.1515/aiht-2016-67-2687

- 33 Rashid Heidarimoghdam Tahereh Gholami, Ahmad HeidariPahlavian, **Mahdi Akbarzadeh**, Majid Motamedzade, Effects of Nursing Burnout Syndrome on Musculoskeletal Disorders. International Journal of Musculoskeletal Pain Prevention. 2016. 1(1).
- 34 Majid Motamedzade & Rashid Heidari Moghaddam Tahereh Gholami, Ahmad Heidari Pahlavian, **Mahdi Akbarzadeh**, The role of burnout syndrome as a mediator for the effect of psychosocial risk factors on the intensity of musculoskeletal disorders : a structural equation modeling approach. International journal of occupational safety and ergonomics. 2016. 22(2), doi:10.1080/10803548.2016.1147876
- 35 Soltanzadeh Ahmad, Mohammadfam Iraj, Moghimbeigi Abbas, **Akbarzadeh Mahdi**, Analysis of occupational accidents induced human injuries: A case study in construction industries and sites. Journal of Civil Engineering and Construction Technology. 2016. 7(1),doi:10.5897/JCECT2015.0379
- 36 **Mahdi Akbarzadeh**, Abbas Moghimbeigi, Hossein Mahjub, Ali Reza Soltanian, Maryam Daneshpour, Nathan Morris, Trajectories of change in obesity among tehranian families: multilevel latent growth curve modeling. International journal of family medicine. 2016. ,doi:10.1155/2016/2639624
- 37 Tahereh Gholami, Ahmad Heidari Pahlavian, **Mehdi Akbarzadeh**, Majid Motamedzade, Rashid Heidari Moghadam, A structural equation modeling study of job stress and musculoskeletal disorders. Iranian Journal of Ergonomics. 2015. 3(3).
- 38 Mohammad Zandi, Arash Dehghan, Khaled Ghadermazi, Hamid Malekzadeh, **Mahdi Akbarzadeh**, Perioperative discontinuation of intravenous bisphosphonate therapy reduces the incidence and severity of bisphosphonate-related osteonecrosis of the jaw: A randomized, controlled, prospective experimental study in rats. Journal of Cranio-Maxillofacial Surgery. 2015. 43(9),doi:10.1016/j.jcms.2015.08.008
- 39 A Heidari Pahlavian, T Gholami, R Heidari Moghaddam, **M Akbarzadeh**, M Motamedzadeh, Demand–Control Model and its Relationship with Burnout Syndrome in Nurses. Journal of Fasa University of Medical Sciences/Majallah-i Danishgah-i Ulum-i Pizishki-i Fasa. 2015. 5(1).
- 40 O ETEMADI, **M AKBARZADEH**, R JAZAYERI, Evaluating the role ofmotherconflict resolutionstyles, maternal marital conflictandattachmentstyle daughter with adolescent girls conflict with mother. JOURNAL OF PSYCHOLOGICAL MODELS AND METHODS. 2015. 6.
- 41 Ahmad Heidari Pahlavian, Tahereh Gholami, Rashid Heidari Moghaddam, **Mehdi Akbarzadeh**, Majid Motamedzadeh, Demand–Control Model and its Relationship with Burnout Syndrome in Nurses. Journal of Fasa University of Medical Sciences. 2015. 2(1).
- 42 **Mahdi Akbarzadeh**, Fatemeh Shobeyri, Hossein Mahjub, Reyhaneh Ebrahimi, Investigating the Factors Influencing the Duration of Beginning Delivery to Hospital Discharge using Cox Regression Model. Iranian Journal of Obstetrics Gynecology and Infertility. 2014. 17(105).
- 43 M Ordooei, **M Akbarzadeh**, R Soleimanizad, F Shamsi, R Masoumi Dehshiri, The effect of iron supplement on children with euthyroid goiter: a randomized placebo-controlled clinical trial. Iranian journal of pediatric hematology and oncology. 2014. 4(3).

- 44 MK Soltani, A Miresmaeili, B Javanshir, **M AkbarZadeh**, Cephalometric Comparison of a Modified Bionator (Farmand Appliance) and Twin-Block Appliance in Treatment of Skeletal Class II Malocclusion. Iranian Journal of Orthodontics. 2014. 9(1).
- 45 Omid Giahi, Ebrahim Darvishi, **M Akbarzadeh**, Assessment of the relationship of the risk of subjective work load to musculoskeletal disorders in bank staff in Kurdistan Province.. Scientific Journal of Kurdistan University of Medical Sciences. 2014. 19(4).
- 46 ABADI SOMAYYEH SALEH, SHAHRI MEHDI GOLAFROOZ, SOMAYYEH NASROLLAHI, **MEHDI AKBARZADEH**, NASRIN MIRCHOULI, Clinical education problems and ways of enhancing its quality from the perspective of clinical instructors and students of nursing and midwifery at Sabzevar University Medical JOURNAL OF SABZEVAR UNIVERSITY OF MEDICAL SCIENCES. 2014. 20(4).
- 47 I Mohammadfam, AHMAD SOLTANZADEH, A Moghimbeigi, **M Akbarzadeh**, Factors affecting occupational accidents in the construction industry (2009-2013). JOURNAL OF OCCUPATIONAL HEALTH & EPIDEMIOLOGY. 2014. 3(2).
- 48 Ahmad Soltanzadeh, Iraj Mohammadfam, BEIGI ABBAS MOGHIM, **Mehdi Akbarzadeh**, Studying disabling occupational accidents in the construction industry during two years. Journal of Occupational Hygiene Engineering. 2014. 1(2).
- 49 Maziyar Arassi, Heidar Mohammadi, Majid Motamedzade, Mojtaba Kamalinia, Davoud Mardani, BEIRAGANI MISAGH MOHAMMADI, Mehdi Shekari, **Mehdi Akbarzadeh**, The association between psychosocial factors and occupational accidents among Iranian drilling workers. JOURNAL OF ERGONOMICS. 2014. 2(1).
- 50 H Mortazavi, F Babaeijandaghi, **M Akbarzadeh**, N Rezaei, AA Amirzargar, M Daneshpazhooh, A Jalali, Z Hallaji, The influence of systemic therapy on the serum levels of IL-6 and IL-8 in pemphigus vulgaris. Journal of the European Academy of Dermatology and Venereology. 2013. 27(3),doi:10.1111/j.1468-3083.2011.04319.x
- 51 Sh Tamasoki, A Miresmaeili, M BasamTabar, S Fazlollahi, **M AkbarZadeh**, MTHFR C677T Polymorphisms in Non-syndromic Cleft Lip with or without Cleft Palate Patients. Iranian Journal of Orthodontics. 2013. 8(1).
- 52 Zahra Hallaji, Farshad Babaeijandaghi, **Mahdi Akbarzadeh**, Seydeh Zeinab Seyedi, Massoume Barzegari, Pedram Noormohammadpour, Zohreh Shahabi, Amir Houshang Ehsani, A significant association exists between the severity of nail and skin involvement in psoriasis. Journal of the American Academy of Dermatology. 2012. 66(1),doi:10.1016/j.jaad.2010.10.021
- 53 AA NASIRIPOUR, MH MEHROLHASANI, **M AKBARZADEH**, The Relationship of Organizational Citizenship Behavior and Basic Trauma Life Support among Mashhad Emergency Medical Technicians. URBAN MANAGEMENT STUDIES. 2011. 3(5).

- 54 **Mahdi Akbarzadeh**, HA Majd, Maryam Sadat Daneshpour, Yadolah Mehrabi, Freydoon Azizi, Analyzing of multivariate two levels Haseman-Elston regression and its application in genetic linkage of HDL-C, triglycerides and waist in 91 Iranian families with metabolic. *Koomesh*. 2011. 12(3).
- 55 S Dehkoda, N Arianpour, **M Akbarzadeh**, Evaluation of effective factors in treatment outcome of diabetic foot in diabetic patients referring to Taleghany hospital-Tehran from 2008-2009. 2011. 9(234).
- 56 M Alebouyeh, F Mohseni, **M Akbarzadeh**, Study of the anti-hyperglycemic effects of Cuminum cyminum L. extract in type 2 diabetes mellitus patients. *Diabetes, Obesity & Metabolism*. 2010. 12.
- 57 **Mehdi Akbarzadeh**, Hamid Alavimajd, Yadollah Mehrabi, Maryam Daneshpour, Anvar Mohammadi, Haseman-Elston Regression Methods in Genetic Linkage Analysis. *Journal of Statistical Sciences*. 2010. 3(2).
- 56 E Zadehashem, Amoli J Salar, A Barin, P Sadighara, T Aliesfahani, **M Akbarzadeh**, R Ferdowsi, M Eslami, The Effect Of Sodium Arsenite In Induction Of Protein Stress In Chicken Embryo Model. *Annals Of Military And Health Sciences Research*. 2010. 8(331).
- 58 A Narimani, **M Akbarzadeh**, M Hamzeh, Evaluation of general health in medical students of AJA University of Medical Sciences. *ANNALS OF MILITARY AND HEALTH SCIENCES RESEARCH*. 2010.
- 59 SM Raigani, F Naji, MH Bahrami, MR Mokhtaryrad, D Elyaspour, **M Akbarzadeh**, L Angouti, Comparing the Effects of Manual Lymphatic Drainage and Intermittent Pneumatic Compression in Breast Cancer Lymphoma Treatment. *ANNALS OF MILITARY AND HEALTH SCIENCES RESEARCH*. 2010. 9(129).

Abstracts:

- 1 10th Iranian Statistics Conference, Iranian Statistical Society, **Mahdi Akbarzadeh**, Hamid alavi Majd, Maryam Sadat Daneshpour, Yadolah Mehrabi. Haeman-Elston Regression Methods in Genetic Linkage Analysis.
- 2 12th Iranian Statistics Conference, Iranian Statistical Society, Hamid alavi Majd, Parisa Ahmadi, **Mahdi Akbarzadeh**, Norosadat Kariman. Application of Random Forest Method in Predicting Low Birth Weight Comparing with Logistic Regression Model.
- 3 13th Iranian Statistics Conference, Iranian Statistical Society, **Mahdi Akbarzadeh**, Abbas Moghimbeigi, Nathan Morris, Maryam S Daneshpour, Hossein Mahjub, Ali Reza Soltanian. Structural Equation Model In General Pedigree Data Analysis.
- 4 5th Middle East Cardiovascular Congress, Kish Island, 23-25 February, 2011. Akbar Pejhan, **Mahdi Akbarzadeh**, Daniel Osmond. Comparison the effects of two kinds of rennin angiotensin system inhibitors on blood pressure and heart rate in rate.

Statistical Reviewer for Journals:

- 1 *Gene [English]*
- 2 *BMC Public Health [English]*.

- 3 *International Journal of Endocrinology and Metabolism [English]*
- 4 *Annals Of Military And Health Sciences Research [English]*
- 5 *Journal Of Archives In Military Medicine [English]*
- 6 *Iranian Journal of Orthodontics [English]*
- 7 *International Journal of Endocrinology and Metabolism [Persian]*
- 8 *Annals Of Military And Health Sciences Research [Persian]*
- 9 *Journal of Sabzevar University of Medical sciences [Persian]*

Teaching:

- 1 **Programing with R (Elementary and advanced).** 15-16 November, 2017. National Institute of Genetic Engineering and Biotechnology.
- 2 **Programing with R and its application in genome-wide association studies (GWAS).** 4-5 December, 2019, Pasteur institute of Iran.
- 3 **Elementary Programing with R and its application in genome-wide association studies (GWAS).** 8-9 January 2020, Research Institute for Endocrine Sciences
- 4 **Elementary Programing with R and its application in genome-wide association studies (GWAS).** 23-24 June, 2020, Research Institute for Endocrine Sciences.
- 5 **Application of Next Generation Sequencing in Clinical Diagnosis of inherited disorders.** 4-5 December, 2019. Pasteur institute of Iran.
- 6 **Scientific writing,** 17-19 February, 2020, Research Institute for Endocrine Sciences.
- 7 **Biostatistical Methods in medicine (Masters and Ph.Ds.),** Shahid Beheshti University of Medical Sciences.

Training:

- 1 **Linux and Shell Script,** May 10, 2018. Research Institute for Endocrine Sciences
- 2 **Scientific writing,** 4-6 February, 2018, Research Institute for Endocrine Sciences.
- 3 **Clinical Genomics and NGS (At the ESGM remote training center in Iran),** April 28-May 3, 2019
- 4 **Systematic Review and Meta-Analysis,** June 16, 2019. Research Institute for Endocrine Sciences

Projects:

- 1 A genetic-based predictive model for hypertension in a family-based longitudinal cohort study in uncertainty by process based and data-driven models
- 2 Genetic linkage analysis on blood pressure traits in families from Tehran Cardiometabolic and Genetic Study (TCGS).
- 3 Genome Wide Association Study (GWAS) on blood pressure traits in Tehran Cardiometabolic and Genetic Study (TCGS) participants.
- 4 Discovery and validation of structural variations (SV) of type insertion in Iranian genome project by focusing on the people with cardiovascular disease

- 5 Discovery and validation of structural variations (SV) of type inversion in Iranian genome project by focusing on the people with cardiovascular disease
- 6 Investigation of Type 2 Diabetes genetic association with lipid traits mediatory effect in a causality network in an Iranian population: Mixed Structural Equation Modeling
- 7 Estimating the mutational load for type 2 diabetes using Tehran Cardiometabolic Genetic Study (TCGS) data
- 8 Comparison of different solutions to construct genomic relationship matrix by selecting meaningful genomic regions and its application to genome-wide association study of lipid profile traits (Tehran Genetics and Metabolic Study (TCGS)).
- 9 Association of IL-10 polymorphisms and obesity- related variables among the obese and normal weight subjects in Tehran Lipid and Glucose Study (TLGS)
- 10 Investigation the association of variants within ABO and Rh blood group-related genes in Iranian genome sequencing data with Coronary Heart Disease (CHD)
- 11 Survey of resemblance in food patterns of parents-offsprings in different or same family clustering
- 12 Assessment of association between 20 single nucleotide polymorphysm of TPO gene and TPOAb positivity in Tehran Thyroid Study (TTS)
- 13 Tehran Obesity surgery Treatment Study
- 14 Gene-gene and gene environment interactions on primary hypertension in Tehran Cardiometabolic and Genetic Study(TCGS) participants.
- 15 Study of association and heritability of 8 genetic markers in BUD13/ZNF263 locus in high risk families with metabolic syndrome in of Tehran Lipid and Glucose Study (TLGS).
- 16 A systematic review and meta-analysis to assess the association of FTO gene variant with risk of obesity
- 17 Trend of morbid obesity in Tehran and Lipid of Glucose Study
- 18 Report of family history, heratibility and genetic analysis in Tehran lipid and glucose study (20 years)
- 19 Calculation of familial aggregation and heratibility in families with genetic blueprint factors associated with lipid levels in cardiometabolic Tehran
- 20 Calculation of familial aggregation and heratibility of genetic factors associated with diabetes in the family plot Cardiometabolic.
- 21 Common HLA haplotype estimation trough genome wide association data in Tehran lipid and glucose study
- 22 Calculating aggregation and heritability of the thyroid peroxidase autoantibody levels in the Tehran Lipid and Glucose Study (TLGS)population

Programming and Software Ability:

- 1 ***Linux Bash scripting***
- 2 ***R programming language***
- 3 ***R genetic packages (e.g. kinship2, genetics, gap, . . .)***
- 4 ***Plink (Whole genome association analysis toolset)***

- 5 *GCTA (a tool for Genome-wide Complex Trait Analysis)*
- 6 *KING (Kinship-based INference for GWAS)*
- 7 *Mplus (a latent variable modeling program)*

Last Update: 04/11/2021