



CURRICULUM VITEA

Ali Reza Soltanian, PhD

Associate Professor in Biostatistics

Dept. of Biostatistics, School of Public Health, Hamadan University of Medical Sciences

Hamadan, Iran, Postal code: 6517669664, Email: arsoltdanian@yahoo.com, soltdanian@umsha.ac.ir

Telephone: (+98) 81-38380025, Fax: (+98) 81-38380509

Degrees:

B.Sc. in Statistics (1991-1995), *Department of Mathematics & Statistics, School of Economics, Allameh-Tabatabaei University, Tehran, Iran.*

M.Sc. in Biostatistics (2000-2003), *Department of Epidemiology and Biostatistics, School of Public Health, Tehran University of Medical Sciences, Tehran, Iran.*

Ph.D. in Biostatistics (2005-2010), *Department of Biostatistics, Faculty of Medical Sciences, Tarbiat Modares University, Tehran, Iran.*

Teachings:

- 1- Statistical Inference in Randomized Clinical Trials (for PhD students, from 2010 so far)
- 2- Randomized Clinical Trials (for MSc students, from 2010 so far)
- 3- Special Topics in Statistics (for PhD students, from 2010 so far)
- 4- Statistical Methods (I) (for MSc students, from 2006 so far)
- 5- Statistical Methods (III) (for MSc students, from 2008, 2015)
- 6- Statistical Models and Indexes in Demography (for MSc students, from 2006-2015)
- 7- Survival Data Analysis (for MSc students, from 2006-2008)

Position Held

- Vice-Chancellor for International Affairs at Hamadan University of Medical Sciences, Hamadan, Iran (2024, so far)
- Director of Researchs and Technology at Hamadan University of Medical Sciences, Hamadan, Iran (2019-2021)
- Deputy Director of Researchs and Technology at School of Public Health, Hamadan University of Medical Sciences, Hamadan, Iran (2015 -2019).
- Director of Research and Development at School of Public Health, Hamadan University of Medical Sciences, Hamadan, Iran (2012-2015).
- Assistant of the Education and Development Center (EDC) of Medical Sciences at Hamadan University of Medical Sciences, Hamadan, Iran (2011-2012).
- Assistant Education at Department of Biostatistics & Epidemiology (2013-2015).

- Members of modeling of Noncommunicable diseases Research Center (from 2011 so far).
- Member of research and technology council in Hamadan University of Medical Sciences (from 2015 so far).
- Member of the Committee on Research in Education at EDC, Hamadan University of Medical Sciences, Hamadan, Iran (from 2010 so far).
- Member of Teacher evaluation committee at EDC, Hamadan University of Medical Sciences, Hamadan, Iran (2010-2015).

Referee/ Reviewer Consultancy

Journal of Applied Statistics	Cell Journal
JSM Mathematics & Statistics	Journal of Public Health
Journal of PLOS ONE	Iranian Journal of Epidemiology
International Journal of Diabetes Mellitus	Journal of Research in Health Sciences
International Journal of Fertility and Sterility	BMC journals
Scientific Journal of Hamadan University of Medical Sciences	
Scientific Journal of Hamadan Nursing & Midwifery Faculty	

Editorial Board Membership

- Biostatistics's Section Editor of Journal of Research in Health Sciences (from 2010 so far)
- Bioinformatics' Section Editor of Cell Journal (from 2023 so far)
- Editorial Board, Scientific Journal of Hamadan Nursing & Midwifery Faculty (20010-2015)
- Editorial Board, AVECINA Journal of Medical Biochemistry (from 2012 so far)

Book & Book Chapter:

1. Fatemeh Bahreini, Ali Reza **Soltanian (Corresponding Author)**. Biostatistics Methods in Cancer Research: Cluster Analysis of Gene Expression Data. Cancer Genetics and Psychotherapy. Springer, Cham 2017; p. 1127-1145
2. Soltanian AR, Rabiei N, Bahreini F. Feature Selection in Microarray Data Using Entropy Information. In: Husi H, editor. Computational Biology. Brisbane (AU): Codon Publications; 2019 Nov 21. Chapter 10. PMID: 31815405.
3. Ali Reza Soltanian, Azadeh Naderi. Statistical Methods for Dentistry (First Edition). Sanjesh&Danesh Inc., Tehran, 2016.
4. ترجمه کتاب "خودآموز تحلیل بقا". تالیف دیوید کلین بام و میشل کلین. انتشارات علوم پزشکی مشهد ۱۳۹۶.

Articles:

Full Papers _____ (A part of published full paper) _____

(See <https://scholar.google.com/citations?user=Lo1r7NsAAAAJ&hl=en>)

1. **Ali Reza Soltanian**, Roya Ahmaddoost-Razdari, Hossein Mahjub, Jalal Poorolajal. Impact of COVID-19 Disease Control Committee (CDCC) policies on prevention of the disease using Bayes network inference in west of Iran. *BMC Public Health*. 2023; 23(1).
2. **Ali Reza Soltanian**. Studying the Effect of Likert's Scale Starting Point on Descriptive and Analytical Findings of Questionnaire. *Iran J Ergon*, 2023; 11(2): 130-136.
3. Rabiei N, **Soltanian AR (Corresponding author)**, Farhadian M, Bahreini F. The Performance Evaluation of The Random Forest Algorithm for A Gene Selection in Identifying Genes Associated with Resectable Pancreatic Cancer in Microarray Dataset: A Retrospective Study. *Cell J*. 2023 May 28;25(5):347-353.
4. Kh Ezzati Rastegar, S Khoshravesh, Gh Behzad, S Khazaei, **AR Soltanian (Corresponding author)**. Iranian Viewpoints on the Dimensions of Perceived Social Support during the COVID-19 Pandemic; a Qualitative Study. *Iranian Journal of War and Public Health*, 2023; 15(4), 453-461.
5. Maryam Mohammadian-Khoshnoud, Hossein Habibi, Babak Manafi, Gholamreza Safarpour, **Ali Reza Soltanian (corresponding author)**, Effects of Air Pollutant Exposure on Acute Myocardial Infarction, Heart, Lung and Circulation, Volume 32, Issue 1, 2023, Pages 79-89,
6. F Bahreini, **AR Soltanian (Corresponding Author)**. Identification a gene set associated with colorectal cancer in microarray data using Entropy method. *Cell Journal*, 2019; 20(4): 569-575.
7. Niloufar Javanrouh, Maryam S Daneshpour, **Ali Reza Soltanian (Corresponding Author)**, Leili Tapak. Kernel machine SNP set analysis provides new insight into the association between obesity and polymorphisms located on the chromosomal 16q. 12.2 region: Tehran Lipid and Glucose Study. *Gene*, 2018; 658: 146-151.
8. Roya Ahmaddoost-rozdari, Hossein Mahjub, Jalal Poorolajal, **Ali Reza Soltanian (Corresponding author)**. The Effect of Provincial Policies on the COVID-19 Mortality Rate: Risk Analysis Study in Hamadan Province. *Iranian South Medical Journal*, 2022, 25(4); 340-354.
9. Shiva Borzouei, **Ali Reza Soltanian (Corresponding Author)**. Application of an artificial neural network model for diagnosing type 2 diabetes mellitus and determining the relative importance of risk factors. *Epidemiology and health*, 2018; 40: e2018007.
10. **Ali Reza Soltanian (Corresponding Author)**, Shiva Borzouei, Mohammad Afkhami-Ardekan. Design, developing and validation a questionnaire to assess general population awareness about type II diabetes disease and its complications. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews*, 2017; 11: S39-S43.
11. Roya Najafi-Vosough, **Ali Reza Soltanian (Corresponding Author)**, Naser Fayyazi. Influence factors on birth spacing and childbearing rates using survival recurrent events model and parity progression ratios. *J Res Health Scie*, 2017; 17(3): e00384.
12. N Kamyari, **AR Soltanian (Corresponding author)**, H Mahjub, A Moghimbeigi, M Seyedtabib. Zero-augmented beta-prime model for multilevel semi-continuous data: a Bayesian inference. *BMC Medical Research Methodology*. 2022' 22(1); 283

13. Akram Ranjbar, Sara zebarjadi, Maryam Kazemi Naeini, **Ali Reza Soltanian (Corresponding Author)**. A Mixed Effect Emax Model Applied for Determination of Malathion Optimal Dose. *Avicenna J Med Biochem*. 2017;5(1):45-49.
14. **Ali Reza Soltanian (Corresponding Author)**. Azadeh Naderi, Ghodratollah Roshanaei, Estimation of Mental Disorders Prevalence in High School Students Using Small Area Methods: A Hierarchical Bayesian Approach. *Avicenna Journal of Neuro Psychophysiology*, 2016; 3(3): .
15. S Hamzeh, **AR Soltanian (Corresponding Author)**, J Faradmal. Confidence Interval Estimation of Proportion Near Zero or One: A Modeling Secondary Study. *Iranian Journal of Epidemiology*, 2017; 12(4): 55-63.
16. Saeed Bashirian, Samaneh Shirahmadi, Shabnam Seyedzadeh-Sabounchi, Ali Reza **Soltanian**, Akram Karimi-shahanjarini, Farshid Vahdatinia. Association of caries experience and dental plaque with sociodemographic characteristics in elementary school-aged children: a cross-sectional study. *BMC oral health*, 2018; 18(1): 1-7.
17. J Ahmadpour, SZ Asghari, AR **Soltanian**, Y Mohammadi, J Poorolajal. Evaluation of Validity and Reliability of Persian Version of Problematic Internet Use (PIU) Questionnaire. *Iranian Journal of Epidemiology*, 2018; 14(1): 53-62.
18. Reza Hoseinpoor, Manoochehr Karami, Younes Mohammadi, Alireza **Soltanian**. Evaluation of active case finding (ACF) of tuberculosis in slums population in North of Iran. *International Journal of Pediatrics*, 2017; 5(5): 4867-4875.
19. Vahideh Abolhasannejad, Rostam Golmohammadi, Mohsen Aliabadi, Ali Reza **Soltanian**, Hassan Khotanlou, Vahid Abolhasannejad. An image-based method for non-contact and dynamic room acoustics analysis. *Applied Acoustics*, 2018; 140: 83-91.
20. Mehdi Khezeli, Saeed Ariapooran, Alireza Ahmadi, Alireza **Soltanian**, Forouzan Rezapur-Shahkolaei. Suicidal ideation, marital discord, and decrease effective relations among women from Iran. *Anadolu Psikiyatri Dergisi*, 2018; 19(5): 459-465.
21. Maryam Zolghadr, Sedighe Kahrizi, Alireza **Soltanian**. Lateral Abdominal Muscles Asymmetry in Female Patients With Chronic Non Specific Unilateral Low Back Pain Practicing Hollowing Exercises. *Journal of Modern Rehabilitation*, 2017; 11(2): 133-139.
22. Jalal Poorolajal, Pegah Ameri, Alireza **Soltanian**, Masoud Bahrami. Effect of Consanguinity on Low Birth Weight: A Meta-Analysis. *Archives of Iranian Medicine (AIM)*, 2017; 20(3): 178-184.
23. Poorolajal J, Zeraati F, **Soltanian** AR, Sheikh V, Hooshmand E, Maleki A (2017) Oral potassium supplementation for management of essential hypertension: A meta-analysis of randomized controlled trials. *PLoS ONE* 12(4): e0174967.
24. 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. *An International Peer Reviewed Open Access Journal For Rapid Publication*, 2017:238.

25. Farahnaz Ramezani, Mahnaz Khatiban, Farshid Rahimbashar, Ali Reza **Soltanian**. Efficacy of bladder irrigation in preventing urinary tract infections associated with short-term catheterization in comatose patients: A randomized controlled clinical trial. *American journal of infection control*, 2018; DOI: <https://doi.org/10.1016/j.ajic.2018.05.009>
26. Gita Sangestani, Pantaleo Greco, Ali Reza **Soltanian**, Mahnaz Khatiban. DEVELOPING AND VALIDATING A RISK FACTORS ASSESSMENT TOOL FOR THE PAP TEST CYTOLOGICAL CHANGES IN IRAN: A METHODOLOGICAL STUDY. *INDO AMERICAN JOURNAL OF PHARMACEUTICAL SCIENCES*, 2017; 4(11): 3974-3981.
27. Amini R, **Soltanian AR**, Ebrahimkhani A, Beigyani M. Investigating the use of safe injection guidelines after needle stick and sharp instruments injuries in Nursing & Midwifery students of Hamadan University of Iran. *Journal of Medical Research*, 2016; 5(1): 8-14.
28. Khodakarami B, Bibalan FG, Soltani F, **Soltanian A**, Mohagheghi H. Prognostic Role of Spiritual Intelligence Components in Pregnant Women's Depression, Anxiety, and Stress. *Health, Spirituality and Medical Ethics*, 2016;3(2):16-23
29. Mashouf RY, Soltanian A. By Zahed Mohammadi, DMD, MSD Sousan Shalavi, DMD Luciano Giardino, MD, DDS Flavio Palazzi, MD, DDS. Antimicrobial effect of three new and two established root canal irrigation solutions. *General dentistry*, 2012; 60(6):534-537.
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32. Amiri M, Larijani B, Nabipour I, Moosavi SF, Amiri Z, Soltanian A, et al. The prevalence of osteoporosis in 20-69 years old women in Bushehr port. *ISMJ*. 2004;7(1):61-9.
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36. **Soltanian A (Corresponding Author)**, Bahreiny F, Namazi S, Amiri M, Ghaedi H, Kohan G. Mental Health of high school students and its effective factors in Bushehr Province. *ISMJ*. 2005;7(2):173-82.

37. Ravanipour M, Ravanipour M, Soltanian A, Rasafiani H, Ranjbar D. The effect of education on the knowledge of environmental threats on health in students of elementary schools in Bushehr port. ISMJ. 2006;8(2):178-86.
38. Babae Q, Soltanian A, Khalkhaly H, Rabieian M, Bahreini F, Afkhami Ardekani M. People Awareness on Diabetes Disease and Complications in Bushehr, Iran using Linears Models. Journal of Payavard Salamat. 2007;1(1):52-8.
39. Movaghar M, Sultanian A, Movaghar M. The impact of population and family planning course on the knowledge and attitude of students towards contraceptive methods: a study on female students of Islamic Azad university/Abadan branch in 2005-6. Strides In Development of Medical Education. 2007;4(1):44-50.
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41. **Soltanian AR (Corresponding Author)**, Bahreini F, Afkhami-Ardekani M. People awareness about diabetes disease and its complications among aged 18 years and older in Bushehr port inhabitants (Iran). Diabetes & Metabolic Syndrome: Clinical Research & Reviews. 2007;1(4):245-9.
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43. Nabipour I, Amiri M, Imami S, Jahfari S, Nosrati A, Iranpour D, et al. Unhealthy lifestyles and ischaemic electrocardiographic abnormalities: the Persian Gulf Healthy Heart Study. 2008.
44. Soltanian A. Unhealthy lifestyles and ischaemic electrocardiographic abnormalities: the Persian Gulf Healthy Heart Study. 2008;14(4).
45. **Soltanian A**, Faghihzadeh S, Choobineh H, Bahreini F, Mahmoudi Farahani M, Khalkhali H. A survey on parity progression ratio in Bushehr and specifying factors that are affected it on the basis of multiple logistic regression models in 2005. Journal of Payavard Salamat. 2008;1(2):37-44.
46. و دیسک دیفیوژن آگار در تعیین حساسیت آنتی بیوتیکی E. test مقایسه دو روش. عرفانی ی, صفدری ر, چوبینه ح, میرصالحیان ا, راستی آ, عین ان et al. سوبه های اشرشیا کلی جدا شده از بیماران مبتلا به عفونت ادراری مراجعه کننده به بیمارستان شریعتی تهران. Scientific Journal of Hamadan University of Medical Sciences. 2008;15(2):27-31.
47. **Soltanian A**, Faghihzadeh S, Mehdibarzi D, Gerami A, Nasery M, Cheng J. Assessment of marhame-mafasel pomade effect on knee osteoarthritis with non-compliance. Journal of research in health sciences. 2009;9(2):19-24.
48. **Soltanian A**, Mahjub H, Goudarzi S, Nabipour I, Jamali M. 5 Years Survival Rate in Patients with Myocardial Infarction in Bushehr. 2009.
49. Ramhormozi SM, Moghimbeigi A, Mahjub H, Soltanian AR. Birth distance influential factors: a multilevel recurrent events approach. Journal of research in health sciences. 2010;10(2):98-103.
50. **Soltanian A**, Faghihzadeh S, Gerami A, Mehdibarzi D, Jing Cheng J. Estimation of Treatment Effects in Crossover Clinical Trials with Noncompliance. Iranian Journal of Epidemiology. 2010;6(1):18-25.

51. **Soltanian AR**, Mehdibarzi D, Faghihzadeh S, Naseri M, Gerami A. Mixture of *Arnebia euchroma* and *Matricaria chamomilla* (Marhame-Mafasel) for pain relief of osteoarthritis of the knee-a two-treatment, two-period crossover trial. *Arch Med Sci*. 2010;6(6):950-5.
52. **Soltanian AR (Corresponding Author)**, Nabipour I, Akhondzadeh S, Moeini B, Bahreini F, Barati M, et al. Association between physical activity and mental health among high-school adolescents in Boushehr province: A population based study. *Iranian journal of psychiatry*. 2010;6(3):112-6.
53. ABDOLSAMADI HR, ZAMANI BM, GOODARZI MT, **SOLTANIAN AR**, RADI S, AHMADI MF. Comparative evaluation of salivary antioxidants in gestational diabetes and healthy pregnant women. 2011.
54. MOSAVY S, **SOLTANIAN A**, ROSHANAIE G, FARDMAL J. APPLYING AALEN'S ADDITIVE HAZARD MODEL FOR ANALYZING 5 YEAR SURVIVAL OF ACUTE MYOCARDIAL INFARCTION PATIENTS IN BUSHEHR. 2011.
55. Mostaghni AA, **Soltanian A**, Mokhtari E, Japoni S, Mehrabani D. Seroprevalence of Hepatitis B virus among hemodialysis patients in Bushehr Province, Southern Iran. *Hepat Mon*. 2011;11(3):200-2.
56. Bahreini F, Ardebili M, Mojtab S, Farajnia S, Ghareh Sooran J, Nabipour I, ... **Soltanian AR**. A study on association of SNP-43 polymorphism in Calpain-10 gene with type 2 diabetes mellitus in the population of Eastern Azerbaijan province. *ISMJ*. 2012;15(1):35-42.
57. Fam IM, Nikoomaram H, **Soltanian A**. Comparative analysis of creative and classic training methods in health, safety and environment (HSE) participation improvement. *Journal of Loss Prevention in the Process Industries*. 2012;25(2):250-3.
58. Heidari M, Bahrami A, Ghiasvand AR, Shahna FG, **Soltanian AR**. A novel needle trap device with single wall carbon nanotubes sol-gel sorbent packed for sampling and analysis of volatile organohalogen compounds in air. *Talanta*. 2012;101:314-21.
59. Khoshhali M, Mahjub H, Saidijam M, Poorolajal J, **Soltanian AR**. Predicting the survival time for diffuse large B-cell lymphoma using microarray data. *J Mol Genet Med*. 2012;6:287-92.
60. M. Barati* YF, **A.R. Soltanian**, B. Moeini. Mental Health Condition and Health Promoting Behaviors among Elders in Hamadan. *Hamadan Nursing & Midwifery Faculty*. 2012;20(3):12-9.
61. M. Salavati MN, Kh. Oshvandi, Sh, **A.R. Soltanian**. The Effects of Programmed Visiting on Physiological Indexes in CCU Patients. *SCIENTIFIC JOURNAL OF HAMADAN NURSING & MIDWIFERY FACULTY*. 2012;20(3):43-9.
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63. MM Hazavehei MS, B Moeini, **AR Soltanian**, LRezaei. Assessment of oral-dental health status: using health belief model (HBM) in first grade guidance school students in Hamadan. *Jundishapur Journal of Health Sciences*. 2012;4(3):65-75.

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65. Mohammadi Z, Shalavi S, Giardino L, Palazzi F, Mashouf R, **Soltanian A**. Antimicrobial effect of three new and two established root canal irrigation solutions. *General dentistry*. 2012;60(6):534.
66. SAFARI M, SEDIGHI L, FALLAHI NG, RAHIMI BF, SOLTANIAN AR, NIKOO SM. THE EFFECTIVENESS OF BEHAVIORAL PAIN SCALE IN THE PAIN ASSESSMENT OF PATIENTS WITH LOW LEVEL OF CONSCIOUSNESS. 2012.
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68. **Soltanian AR**, Faghihzadeh S. A generalization of the Grizzle model to the estimation of treatment effects in crossover trials with non-compliance. *Journal of Applied Statistics*. 2012;39(5):1037-48.
69. **Soltanian AR**, Mahjub H. A non-parametric method for hazard rate estimation in acute myocardial infarction patients: kernel smoothing approach. *Journal of research in health sciences*. 2012;12(1):19-24.
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73. Heidari M, Bahrami A, Ghiasvand AR, Shahna FG, **Soltanian AR**. A needle trap device packed with a sol-gel derived, multi-walled carbon nanotubes/silica composite for sampling and analysis of volatile organohalogen compounds in air. *Analytica chimica acta*. 2013;785:67-74.
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77. Mohammadfam I, Mohamadi H, Ghorbani Shahna F, **Soltanian A**. Introducing a Framework for competency based Selection of Health, Safety and Environment (HSE) Managers. *Journal of Health and Safety at Work*. 2013;3(1):1-10.

78. SohrabiVafa M, Moeini B, Hazavehei M, **Soltanian** A, Rezaei L. THE EFFECT OF EDUCATION BASED ON HEALTH BELIEF MODEL (HBM) IN DECREASING DENTAL PLAQUE INDEX AMONG FIRST GRADE OF MIDDLE-SCHOOL GIRL STUDENTS IN HAMADAN. Journal of Urmia Nursing And Midwifery Faculty. 2013;11(8):0-.
79. **Soltanian** A. Survey of risk factors for development of pressure ulcers in patients with brain–Spinal injuries at home. Scientific Journal of Hamadan Nursing & Midwifery Faculty. 2013;21(2):47-57.
80. **Soltanian** A. Comparison the effect of open and closed endotracheal suctioning systems on heart disrhythmia in mechanically ventilated patients. Scientific Journal of Hamadan Nursing & Midwifery Faculty. 2013;21(4):5-11.
81. **Soltanian** A (**Corresponding Author**), Fayyazi N, Khodakarami F, Maleki M. Verifying Accuracy of data registration in households' files living in rural area of Hamadan county in 2011. Scientific Journal of Hamadan University of Medical Sciences. 2013;20(2):5-10.
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