

Zahra Bagheri

Department of Biostatistics, Assistant professor
Shiraz University of Medical sciences, Shiraz, Iran
Email: zbagheri@sums.ac.ir, bagherizb@gmail.com

Education

March 2012: Awarded Doctor of Philosophy in Biostatistics, Shiraz University of Medical Sciences.

Dissertation: “Robustness of a mixed logistic model for testing homogeneity in multi-center clinical trials with equal and unequal group sizes”

Supervisor: Professor Seyyed Mohammad Taghi Ayatollahi (Biostatistics)

Advisor: Dr Peyman Jafari (Biostatistics).

February 2008: Master of Biostatistics, Shiraz University of Medical Sciences.

Thesis: “Agreement analysis standardized weight-for-height centiles charts for school children of Shiraz-Iran with body mass index to assess child obesity”

Supervisor: Professor Seyyed Mohammad Taghi Ayatollahi (Biostatistics)

Advisor: Dr Peyman Jafari (Biostatistics).

July 2004: Bachelor of Science degree with major in statistics, The University of Shiraz

Teaching Experience

2009-up to now: Introductory and advanced Biostatistics, Statistical methods II and III (M.S. of Biostatistics), Inferential statistics (M.S. of Biostatistics), Clinical trials (M.S. of Biostatistics), Generalized Linear Models (Ph. D of Biostatistics) in Shiraz University of Medical Sciences.

Publications

1. **Bagheri Z**, Chamanpara P, Jafari P, Balhara YPS, Arya S, Ransing R, Đorić A, Knez R, Thi TV, Huong TN, Kafali HY, Erzin G, Vally Z, Chowdhury MRR, Sharma P, Shakya R, Campos LAM, Szczegielniak AR, Stevanović D. Cross-cultural measurement invariance of the Quality of Life Enjoyment and Satisfaction Questionnaire-Short form across ten countries: the application of Bayesian approximate measurement invariance. *BMC Psychol.* 2022 Jun 24;10(1):160.
2. **Bagheri Z**, Noorshargh P, Shahsavari Z, Jafari P. Assessing the measurement invariance of the 10-item Centre for Epidemiological Studies Depression Scale and Beck Anxiety Inventory questionnaires across people living with HIV/AIDS and healthy people. *BMC Psychol.* 2021 Mar 9;9(1):42.
3. Sepaskhah M, Karimi F, **Bagheri Z**, Kasraee B. Comparison of the efficacy of cysteamine 5% cream and hydroquinone 4%/ascorbic acid 3% combination cream in the treatment of epidermal melasma. *J Cosmet Dermatol.* 2022 Jul;21(7):2871-2878.
4. Pasalar M, **Bagheri Z**, Hojati-Moghadam A, Büssing A, Parvizi MM. Psychometric Properties of a Persian Version of the SpREUK-P Questionnaire: An Instrument for Measuring the Importance and Frequency of Spiritual/Religious Practices in Iranian Patients with Chronic Gastrointestinal Diseases. *J Relig Health.* 2022 Aug;61(4):3458-3469.
5. Sepaskhah M, Sarani MB, **Bagheri Z**. Comparison of the efficacy of intralesional 5-fluorouracil/lidocaine/epinephrine injection with cryotherapy to treat common and palmoplantar warts: A randomized, controlled trial. *Dermatol Ther.* 2022 Sep;35(9):e15726.

6. Rezaei K, Nami M, Sinaei E, **Bagheri Z**, Kordi Yoosefinejad A. A Comparison between Effects of Neurofeedback and Balance Exercise on Balance of Healthy Older Adults. *J Biomed Phys Eng*. 2021 Dec 1;11(6):713-722.
7. Moslemi Haghighi F, Kordi Yoosefinejad A, Razeghi M, Shariat A, **Bagheri Z**, Rezaei K. The Effect of High-Frequency Repetitive Transcranial Magnetic Stimulation on Functional Indices of Affected Upper Limb in Patients with Subacute Stroke. *J Biomed Phys Eng*. 2021 Apr 1;11(2):175-184.
8. Beyzaei Z, Geramizadeh B, **Bagheri Z**, Karimzadeh S, Shojazadeh A. De Novo Donor Specific Antibody and Long-Term Outcome After Liver Transplantation: A Systematic Review and Meta-Analysis. *Front Immunol*. 2020 Dec 23;11:613128.
9. Alamolhoda M, Farjami M, **Bagheri Z**, Ghanizadeh A, Jafari P. Assessing whether child and parent reports of the KINDL questionnaire measure the same constructs of quality of life in children with attention-deficit hyperactivity disorder. *Health Qual Life Outcomes*. 2021 Jan 15;19(1):19.
10. Ebrahimi V, Bagheri Z, Shayan Z, Jafari P. A Machine Learning Approach to Assess Differential Item Functioning in Psychometric Questionnaires Using the Elastic Net Regularized Ordinal Logistic Regression in Small Sample Size Groups. *Biomed Res Int*. 2021 Dec 15;2021:6854477.
11. Zarifsaniey N, Shirazi MO, Mehrabi M, **Bagheri Z**. Promoting self-management behaviors in adolescents with type 1 diabetes, using digital storytelling: a pilot randomized controlled trial. *BMC Endocr Disord*. 2022 Mar 22;22(1):74.
12. Mahmoodi M, Hejazi N, **Bagheri Z**, Nasimi N, Clark CCT, Moosavi M, Dabbaghmanesh MH, Mazloom Z. Validation of the Persian version of the sarcopenia-specific quality of life questionnaire (SarQoL). *Aging Clin Exp Res*. 2022 Oct 26.
13. **Bagheri Z**, Ayatollahi SMT, Jafari P. Comparison of three tests of homogeneity of odds ratios in multicenter trials with unequal sample sizes within and among centers. *BMC Medical Research Methodology* 2011; 11(1):58.
14. **Bagheri Z**, Jafari P, Faghih M, Allahyari E, Dehesh T. Testing measurement equivalence of the SF-36 questionnaire across patients on hemodialysis and healthy people. *IntUrolNephrol*. 2015 Dec;47(12):2013-21.

15. **Bagheri Z**, Jafari P, Tashakor E, Kouhpayeh A, Riazi H. Assessing whether measurement invariance of the KIDSCREEN-27 across child-parent dyad depends on the child gender: a multiple group confirmatory factor analysis. *Glob J Health Sci*. 2014 May 19;6(5):142-53.
16. **Bagheri Z**, Jafari P, Mahmoodi M, Dabbaghmanesh MH. Testing whether patients with diabetes and healthy people perceive the meaning of the items in the Persian version of the SF-36 questionnaire similarly: a differential item functioning analysis. *Qual Life Res*. 2016, 26 (4), 835-845.
17. **Bagheri Z**, Taheri M, Motazedian N. The impacts of depression and anxiety on quality of life among patients with HIV/AIDS and their spouses: testing dyadic dynamics using the actor-partner interdependence model. *AIDS Care*. 2019 Mar 18:1-9.
18. **Bagheri Z**, Akbari M, Jafari P, Huedo-Medina TB. Assessing the measurement invariance of the RCADS-25 questionnaire across gender and child-parent dyads in the presence of multilevel data. *Qual Life Res*. 2019 Mar;28(3):829-840.
19. Ayatollahi SMT, **Bagheri Z**. New trends in weight-for-height charts of Shirazi school children in relation to the CDC reference data. *IranianJournal ofPediatrics* 2010; 20 (4): 407-412.
20. Stevanovic D, **Bagheri Z**, Atilola A, Vostanis P, Stupar D, Moreira P, et al. Cross-cultural measurement invariance of the Revised Child Anxiety and Depression Scale across 11 world-wide societies. *EpidemiolPsychiatr Sci*. 2016 Jun 29:1-11. [Epub ahead of print] PubMed PMID: 27353487.
21. Jafari P, Akhtar-Danesh N, **Bagheri Z**. A Flexible Method for Testing Independence in Two-Way contingency tables. *Journal of Modern Applied Statistical Methods* 2010; 9(2): 443-451.
22. Allahyari E, Jafari P, **Bagheri Z**. A Simulation Study to Assess the Effect of the Number of Response Categories on the Power of Ordinal Logistic Regression for Differential Item Functioning Analysis in Rating Scales. *Computational and Mathematical Methods in Medicine*. Volume 2016 (2016), Article ID 5080826, 8 pages. <http://dx.doi.org/10.1155/2016/5080826>.

23. Razaati S, **Bagheri Z**, Jafari P, Soltani N. Using Confirmatory Factor Analysis (CFA) to Assess Structure of SF-36 (Persian Version) questions for normal people and patients with chronic diseases. *hmj*. 2015; 19 (2) :111-118
24. Jafari P, Forouzandeh E, **Bagheri Z**, Karamizadeh Z, Shalileh S. Health related quality of life of Iranian children with type 1 diabetes: reliability and validity of the Persian version of the PedsQL™ Generic Core Scales and Diabetes Module. *Health and Quality of Life Outcomes* 2011, 9:104.
25. Jafari P, **Bagheri Z**, Ayatollahi SM, Soltani Z. Using Rasch Rating Scale Model to reassess the psychometric properties of the Persian version of the PedsQL™ 4.0 Generic Core Scales in school children. *Health and Quality of Life Outcomes* 2012; 10: 27.
26. Jafari P, **Bagheri Z**, Safe M. Item and response-category functioning of the Persian version of the KIDSCREEN-27: Rasch partial credit model. *Health Qual Life Outcomes*. 2012;10(1):127.
27. Ayatollahi SM, **Bagheri Z**, Heydari ST. Agreement Analysis among Measures of Thinness and Obesity Assessment in Iranian School Children and Adolescents. *Asian J Sports Med*. 2013 Dec;4(4):272-80.
28. Jafari P, Sharafi Z, **Bagheri Z**, Shalileh S. Measurement equivalence of the KINDL questionnaire across child self-reports and parent proxy-reports: a comparison between item response theory and ordinal logistic regression. *Child Psychiatry Hum Dev*. 2014 Jun;45(3):369-76.
29. Jafari P, **Bagheri Z**, Hashemi SZ, Shalileh K. Assessing whether parents and children perceive the meaning of the items in the PedsQL™ 4.0 quality of life instrument consistently: a differential item functioning analysis. *Glob J Health Sci*. 2013 Jun 6;5(5):80-8.
30. Jafari P, Stevanovic D, **Bagheri Z**. Cross-cultural Measurement Equivalence of the KINDL Questionnaire for Quality of Life Assessment in Children and Adolescents. *Child Psychiatry Hum Dev*. 2015 Jul 17. [Epub ahead of print] PubMed PMID: 26184967.
31. Jafari P, Allahyari E, Salarzadeh M, **Bagheri Z**. Item-level informant discrepancies across obese-overweight children and their parents on the PedsQL™ 4.0 instrument: an iterative hybrid ordinal logistic regression. *Qual Life Res*. 2015 Jun 17. [Epub ahead of print] PubMed PMID: 26081294.

32. Jeddi M, Roosta MJ, Dabbaghmanesh MH, Omrani GR, Ayatollahi SM, **Bagheri Z**, Showraki AR, Bakhshayeshkaram M. Normative data and percentile curves of bone mineral density in healthy Iranian children aged 9-18 years. *Arch Osteoporos*. 2013;8(1-2):114.
33. Jeddi M, Dabbaghmanesh MH, RanjbarOmrani G, Ayatollahi SM, **Bagheri Z**, Bakhshayeshkaram M. Relative Importance of Lean and Fat Mass on Bone Mineral Density in Iranian Children and Adolescents. *Int J EndocrinolMetab*. 2015 Jul 1;13(3):e25542.
34. Mortazavi SMJ ,Atefi M, Roshan Shomal P, Tanide N, Radpey N, **Bagheri Z**. Characteristics of cool clot, the invented novel hemostatic agent. *BLOOD (KHOON)* 2011; 8(2):115-121. (Persian).
35. Mortazavi SMJ, MoslehShirazi MA, Tavassoli AR, Taheri M, **Bagheri Z**, Ghalandari R, Bonyadi S, Shafie M, Haghani M. A comparative study on the increased radioresistance to lethal doses of gamma rays after exposure to microwave radiation and oral intake of flaxseed oil. *Iranian Journal Of Radiation Research* 2011; 9(1):9-14.
36. Jeddi M, Dabbaghmanesh MH, RanjbarOmrani G, Ayatollahi SM, **Bagheri Z**, Bakhshayeshkaram M. Body composition reference percentiles of healthy Iranian children and adolescents in southern Iran. *Arch Iran Med*. 2014 Oct;17(10):661-9.
37. Stevanovic D, Atilola O, Vostanis P, Balhara YPS, Avicenna M, Kandemir H, Knez R, TomislavFrancic T, Petrov P,Maroco J, Supic ZT, **BagheriZ**. Cross-Cultural Measurement Invariance of Adolescent Self-Report on the Pediatric Quality of Life Inventory™ 4.0. *Journal of Research on Adolescence*. Article first published online: 4 AUG 2015. In press.
38. Honarvar B, Lankarani KB, Ghahramani S, Akbari M, Tabrizi R, **Bagheri Z**, Poostforoushfard S. Satisfaction and Dissatisfaction Toward Urban Family Physician Program: A Population Based Study in Shiraz, Southern Iran. *Int J Prev Med*. 2016 Jan 11;7:3.
39. Rezaianzadeh A, Maghsoudi B, Tabatabaee H, Keshavarzi S, **Bagheri Z**, Sajedianfard J, Gerami H, Rasouli J. Factors associated with extubation time in coronary artery bypass grafting patients. *PeerJ*. 2015 Dec 3;3:e1414.

40. Jahanbin I, HoseiniMoghadam M, Nazarinia MA, Ghodsbin F, **Bagheri Z**, Ashraf AR. The effect of conditioning exercise on the health status and pain in patients with rheumatoid arthritis: a randomized controlled clinical trial. *Int J Community Based Nurs Midwifery*. 2014 Jul;2(3):169-76.
41. Stevanovic D, Jafari P, Knez R, Franic T, Atilola O, Davidovic N, **Bagheri Z**, Lakic A. Can we really use available scales for child and adolescent psychopathology across cultures? A systematic review of cross-cultural measurement invariance data. *Transcult Psychiatry*. 2017 Feb;54(1):125-152.
42. Jeddi M, Roosta M J, Dabbaghmanesh M H, **Bagheri Z**, Ansari Lari M, Ranjbar Omrani. Evaluation of bone mineral density in urban girls of Kavar-Fars. *Iran South Med J*. 2012; 15 (3) :209-220.
43. Honarvar B, Lankarani KB, Ghahramani S, Akbari M, Tabrizi R, **Bagheri Z**, Poostforoushfard S. Satisfaction and Dissatisfaction Toward Urban Family Physician Program: A Population Based Study in Shiraz, Southern Iran. *Int J Prev Med*. 2016 Jan 11;7:3.
44. Sepaskhah M, Sadat MS, Pakshir K, **Bagheri Z**. Comparative efficacy of topical application of tacrolimus and clotrimazole in the treatment of pityriasis versicolor: A single blind, randomised clinical trial. *Mycoses*. 2017 May;60(5):338-342.
45. Jafari P, Nozari F, Ahrari F, **Bagheri Z**. Measurement invariance of the Depression Anxiety Stress Scales-21 across medical student genders. *Int J Med Educ*. 2017 Mar 30;8:116-122.
46. Alamolhoda M, Ayatollahi SMT, **Bagheri Z**. A comparative study of the impacts of unbalanced sample sizes on the four synthesized methods of meta-analytic structural equation modeling. *BMC Res Notes*. 2017 Sep 6;10(1):446.
47. Abolahrari-Shirazi S, Kojuri J, **Bagheri Z**, Rojhani-Shirazi Z. Effect of Exercise Training on Heart Rate Variability in Patients with Heart Failure After Percutaneous Coronary Intervention. *J Biomed Phys Eng*. 2019 Feb 1;9(1):97-104.
48. Jeddi M, **Bagheri Z**, Dabbaghmanesh MH, Omrani GR, Bakhshayeshkaram M. Revised reference curves of bone mineral density according to age and sex for Iranian children and adolescents. *Arch Osteoporos*. 2018 Nov 19;13(1):132.

49. Ebrahimian M, Razeghi M, Zamani A, **Bagheri Z**, Rastegar K, Motealleh A. Does High Frequency Transcutaneous Electrical Nerve Stimulation (TENS) Affect EEG Gamma Band Activity? *J Biomed Phys Eng*. 2018 Sep 1;8(3):271-280.
50. Dehghan H, Keshtkaran A, Ahmadloo N, **Bagheri Z**, Hatam N. Patient Involvement in Care and Breast Cancer Patients' Quality of Life- a Structural Equation Modeling (SEM) Approach. *Asian Pac J Cancer Prev*. 2018 Sep 26;19(9):2511-2517.
51. Ebrahimian Dehaghani S, Yadegari F, Asgari A, Bagheri Z. The mediator effect of cognition on the relationship between brain lesion location and dysphagia in patients with stroke: Applying a structural equation model. *J Oral Rehabil*. 2019 Jan;46(1):33-39.
52. Abolahrari-Shirazi S, Kojuri J, Bagheri Z, Rojhani-Shirazi Z. Efficacy of combined endurance-resistance training versus endurance training in patients with heart failure after percutaneous coronary intervention: A randomized controlled trial. *J Res Med Sci*. 2018 Feb 20;23:12.
53. Sepaskhah M, Behdad K, **Bagheri Z**. The topical treatment of old world cutaneous leishmaniasis with gentian violet along with cryotherapy: a pilot single-blind randomized controlled clinical trial. *Journal of the Brazilian Society of Tropical Medicine*. 2019. 52:e20180278
54. Maghami, Z, Sepaskhah M, Moghimi Sarani E, **Bagheri Z**, Maghami M. Alexithymia in vitiligo patients: a case-control study. *Iran J Dermatol* 2018; 21: 138-141.
55. Rezaei N, Eftekhari MH, Tanideh N, Mokhtari M, **Bagheri Z**, Comparison of Antioxidant and Anti-Inflammatory Effects of Honey and *Spirulina platensis* with Sulfasalazine and Mesalazine on Acetic Acid-Induced Ulcerative Colitis in Rats. *Galen Medical Journal*, 2019; 8:e1095.
56. Taghizadeh Sh, Pirouzi S, Zamani A, Motealleh A, **Bagheri Z**. Does Muscle Fatigue Alter EEG Bands of Brain Hemispheres? *J Biomed Phys Eng*. 2017:1-10
57. Hazrati M, Hamid TA, Ibrahim R, Hassan SA, Sharif F, **Bagheri Z**. The Effect of Emotional Focused Intervention on Spousal Emotional Abuse and Marital Satisfaction among Elderly Married Couples: A Randomized Controlled Trial. *Int J Community Based Nurs Midwifery*. 2017 Oct;5(4):329-334.
58. Fard SJ, Ghodsbin F, Kaviani MJ, Jahanbin I, **Bagheri Z**. The Effect of Followup (Telenursing) on Liver Enzymes in Patients with Nonalcoholic Fatty Liver Disease: A

Randomized Controlled Clinical Trial. *Int J Community Based NursMidwifery*. 2016 Jul;4(3):239-46.

59. Moslemi Haghighi F, Kordi Yoosefinejad A, Razeghi M, Shariat A. H, **Bagheri Z**, Rezaei K. The Effect of High-Frequency Repetitive Transcranial Magnetic Stimulation on Functional Indices of Affected Upper Limb in Patients with Subacute Stroke. *J Biomed Phys Eng*.2018:1-11.
60. Molazem Z, Noormohammadi R, Dokouhaki R, Zakerinia M, **Bagheri Z**. The Effects of Nutrition, Exercise, and a Praying Program on Reducing Iron Overload in Patients With Beta-Thalassemia Major: A Randomized Clinical Trial. *Iran J Pediatr*. 2016 Jun 1;26(5):e3869.
61. Rezaei N, Eftekhari MH, Tanideh N, Mokhtari M, **Bagheri Z**. The Protective Effects of Honey and *Spirulina Platensis* on Acetic Acid-Induced Ulcerative Colitis in Rats. *Iran Red Crescent Med J*. 2018 April; 20(4):e62517.
62. Khamesi L, Sepaskhah M, Dastgheib L, **Bagheri Z**. Efficacy of combination of fractional CO2 laser and tranexamic 5% gel in the treatment of melasma. *jdc*. 2019; 10 (3) :131-140.
63. Vojoodi Sardroodi M, **Bagheri Z**, Ghahramani L, Jafari P. Application of multilevel zero-inflated Poisson regression for assessing the risk factors of excess hospitalization among patients undergoing abdominal surgeries in Shiraz, Iran. *J Gorgan Univ Med Sci*. 2018 Summer; 20(2): 93-101.

Skills

Computing

Proficient at using SAS particularly in Simulation of categorical data, WINSTEPS, SPSS, PARSCALE, LMSchartmaker, Mplus, IRTPRO, NCSS, R, and MedCalc.

Languages

Fluent in English, Farsi (Mother Tongue)