

# Curriculum Vita

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## Education

- 1) **B. Sc: Statistics**, Payame noor University of Tabriz, Tabriz, Iran, 2004.
- 2) **M.Sc: Statistics**, Islamic Azad University of Tehran, North Branch, Tehran, Iran, 2011.
- 3) **PhD student: Statistics**, Islamic Azad University of Ahvaz, Ahvaz, Iran, 2020

## Thesis

**B.Sc:** Perspective review of Tabriz university students about organ donation in brain death

**M.Sc:** Comparison of PLS and OPLS methods in controlling the variety of variables. Example: A Sample in TCD

**PhD:** Two Parameters Ridge Estimator in Seemingly Unrelated Regression (SUR) Model

## Publications

### International Papers:

- 1) Soleimanpour H1, Gholipouri C, Panahi JR, Afhami MR, Ghafouri RR, Golzari SE, Soleimanpour M, **Esfanjani RM**. Role of anesthesiology curriculum in improving bag-mask ventilation and intubation success rates of emergency medicine residents: a prospective descriptive study. *BMC Emerg Med*. 2011 Jun 16;11:8.
- 2) Soleimanpour H1, Hassanzadeh K, Mohammadi DA, Vaezi H, **Esfanjani RM**. Parenteral lidocaine for treatment of intractable renal colic: a case series. *J Med Case Rep*. 2011 Jun 29;5:256.
- 3) Kianoush Fathi Vajargah, Homayoun Sadeghi-Bazargani, **Robab Mehdizadeh-Esfanjani**, Daryoush Savadi-Oskouei, Mehdi Farhoudi. OPLS statistical model versus linear regression to assess sonographic predictors of stroke prognosis. *Neuropsychiatric Disease and Treatment*, 2012;8 387–392.
- 4) Hassan Soleimanpour, Kamaledin Hassanzadeh, Hassan Vaezi, Samad EJ Golzari, **Robab Mehdizadeh Esfanjani**, Maryam Soleimanpour. Effectiveness of intravenous lidocaine versus intravenous morphine for patients with renal colic in the emergency department. *BMC Urology* 2012, 12:13.
- 5) Kianoush Fathi Vajargah, **Robabe Mehdizadeh**. Effects of Nimodipine on cerebral hemodynamic and prognosis of diffuse axonal injury patients with repeated measurements design. *Journal of mathematics and computer Science*, 2013 (6): 210-219.
- 6) Hassan Soleimanpour, IranJafar Sadegh Tabrizi, Alireza Farnam, Mehdi Nikakhtar, Mohammad Mokhtarpour, Samad E.J. Golzari, Ali Taghizadieh, Ata Mahmoodpoor, **Robab Mehdizadeh Esfanjani**. Attitudes of emergency medicine physician towards family presence during resuscitation. *Resuscitation* 84 (2013) e149– e150.
- 7) Hassan Soleimanpour, Ali Taghizadieh, Mitra Niafar, Farzad Rahmani, Samad EJ Golzari, **Robab Mehdizadeh Esfanjani**. Predictive Value of Capnography for Suspected Diabetic Ketoacidosis in the Emergency Department. *Western Journal of Emergency Medicine*, 2013; XIV(6): 590-594.
- 8) Kianoush Fathi Vajargah, **Robabe Mehdizadeh**, Homayoun Sadeghi-Bazargani. Applications of OPLS Statistical Method in Medicine. *Journal of mathematics and computer science* 2014 (8), 411-422.
- 9) Hassan Soleimanpour, Ali Taghizadieh, Rasoul Salimi, Samad EJ Golzari, Ata Mahmoodpoor, Saeid Safari, **Robab Mehdizadeh Esfanjani**, Yaghoob Heshmat. Rapid Shallow Breathing Index Survey, a Predictor of non-Invasive Ventilation Necessity in Patients With Chronic Obstructive Pulmonary Disease Exacerbation: An Analytical Descriptive Prospective Study. *Iran Red Crescent Med J*. 2014 February; 16(2): e13326.
- 10) Mohsen Abbasnezhad, Hassan Soleimanpour, Mohamadreza Sasaie, Samad EJ Golzari, Saeid Safari, Maryam Soleimanpour, **Robab Mehdizadeh Esfanjani**. Comparison of Prediction between TIMI (Thrombolysis in Myocardial Infarction) Risk Score and Modified TIMI Risk Score in

Discharged Patients From Emergency Department With Atypical Chest Pain. Iran Red Crescent Med J. 2014 February; 16(2): e13938.

- 11) Mahboob Pouraghaei, Payman Moharamzadeh, Hassan Soleimanpour, Farzad Rahmani, Saeid Safari, Ata Mahmoodpoor, Hanieh Ebrahimi Bakhtavar, **Robab Mehdizadeh Esfanjani**. Comparison Between the Effects of Alfentanil, Fentanyl and Sufentanil on Hemodynamic Indices During Rapid Sequence Intubation in the Emergency Department. Anesth Pain Med. 2014 February; 4(1): e14618.
- 12) Manouchehr Khoshbaten, Hassan Soleimanpour, Alireza Ala, Samad Shams Vahdati, Kimia Ebrahimian, Saeid Safari, Samad EJ Golzari, Fariba Salek Ranjbarzadeh, **Robab Mehdizadeh Esfanjani**.
- 13) Which Form of Medical Training is the Best in Improving Interns' knowledge Related to Advanced Cardiac Life Support Drugs Pharmacology? An Educational Analytical Intervention Study Between Electronic Learning and Lecture-Based Education. Anesth Pain Med. 2014 February; 4(1): e15546.
- 14) Sheyda Shaafi, Ehsan Sharifipour, Rouhollah Rahmanifar, Seyed Shamseddin Hejazi, Sasan Andalib, Masoud Nikanfar, Behzad Baradarn, **Robab Mehdizadeh Esfanjani**. Interleukin-6, a reliable prognostic factor for ischemic stroke. Iran J Neurol 2014; 13(2): 70-76.
- 15) Safari S, Rahmani F, Soleimanpour H, Ebrahimi Bakhtavar H, **Mehdizadeh Esfanjani R**. Can APACHE II Score Predict Diabetic Ketoacidosis in Hyperglycemic Patients Presenting to Emergency Department? Anesth Pain Med. 2014 Sep 1;4(4):e21365.
- 16) Soleimanpour H1, Gahramani K, Taheri R, Golzari SE, Safari S, **Esfanjani RM**, Iranpour A. The effect of low-level laser therapy on knee osteoarthritis: prospective, descriptive study. Lasers Med Sci. 2014 Sep;29(5):1695-700.
- 17) Soleimanpour H1, Mahmoodpoor A2, Eftekhari Milani F3, Shahsavari Nia K4, **Mehdizadeh Esfanjani R5**, Safari S6. Effectiveness of oral ketamine, midazolam, and atropine cocktail versus oral diphenhydramine for pediatric sedation in the emergency department. Iran Red Crescent Med J. 2014 Sep 5;16(9):e21366.
- 18) Soleimanpour H, Behringer W, Tabrizi JS, Sarahrudi K, Golzari SE, Hajdu S, Rasouli M, Nikakhtar M, **Mehdizadeh Esfanjani R**. An Analytical Comparison of the Opinions of Physicians Working in Emergency and Trauma Surgery Departments at Tabriz and Vienna Medical Universities Regarding Family Presence during Resuscitation. PLoS One. 2015 Apr 23;10(4):e0123765.
- 19) Soleimanpour M, Rahmani F, Ala A, Bagi HR, Mahmoodpoor A, Golzari SE, Zahmatyar F, **Esfanjani RM**, Soleimanpour H. Comparison of four techniques on facility of two-hand Bag-valve-mask (BVM) ventilation: EC, Thenar Eminence, Thenar Eminence (Dominant hand)-EC (non-dominant hand) and Thenar Eminence (non-dominant hand)-EC (dominant hand). Journal of Cardiovascular and Thoracic Research. 2016;8(4):147.

- 20) Rahmani F, Rezazadeh F, Ala A, Soleimanpour M, **Mehdizadeh Esfanjani R**, Soleimanpour H. Evaluation of overcrowding of emergency Department in Imam Reza Hospital in 2015 by implementing 2 scales: NEDOCS and EDWIN. Iran Red Crescent Med J. 2017 Jun 1;19(6):e15609.
- 21) **Esfanjani RM**, Sadeghi-Bazargani H, Golestani M, Mohammadi R. Domestic injuries among children under 7 years of age in Iran; the baseline results from the Iranian First Registry. Bulletin of Emergency & Trauma. 2017 Oct;5(4):280.
- 22) Soleimanpour M, Rahmani F, Golzari MN, Ala A, Bagi HR, **Esfanjani RM**, Soleimanpour H. Comparison of electronic learning versus lecture-based learning in improving emergency medicine residents' knowledge about mild induced hypothermia after cardiac arrest. Anesthesiology and Pain Medicine. 2017 Aug;7(4).
- 23) Rahmani F, Ebrahimi Bakhtavar H, Shams Vahdati S, Hosseini M, **Mehdizadeh Esfanjani R**. Evaluation of MGAP and GAP trauma scores to predict prognosis of multiple-trauma patients. Trauma Monthly. 2017 May 1;22(3).
- 24) Soleimanpour H, Tabrizi JS, Rouhi AJ, Golzari SE, Mahmoodpour A, **Esfanjani RM**, Soleimanpour M. Psychological effects on patient's relatives regarding their presence during resuscitation. Journal of cardiovascular and thoracic research. 2017;9(2):113.
- 25) Mahmoodpour A, Soleimanpour H, Golzari SE, Nejabatian A, Poulak T, Amani M, Hajmohammadi S, Hosseinzadeh H, **Esfanjani RM**. Determination of the diagnostic value of the Modified Mallampati Score, Upper Lip Bite Test and Facial Angle in predicting difficult intubation: A prospective descriptive study. Journal of Clinical Anesthesia. 2017 Feb 1;37:99-102.
- 26) Rahmani F, Parsian Z, Shahsavarinia K, Pouraghaei M, Negargar S, **Esfanjani RM**, Soleimanpour H. Diagnostic value of sonography for confirmation of endotracheal intubation in the emergency department. Anesthesiology and pain medicine. 2017 Dec;7(6).
- 27) Rahmani F, Soleimanpour H, Zeynali A, Mahmoodpour A, Nia KS, Panahi JR, Sanaei S, Soleimanpour M, **Esfanjani RM**. Comparison of tracheal tube cuff pressure with two techniques: fixed volume versus pilot balloon palpation. Journal of cardiovascular and thoracic research. 2017;9(4):196.
- 28) Soleimanpour M, Rahmani F, Bagi HR, Ala A, Mahmoodpour A, Hassani F, Sharifi SM, **Esfanjani RM**, Soleimanpour H. Comparison of three techniques on facility of bag-mask ventilation: Thenar eminence, EO and EC. Anesthesiology and pain medicine. 2018 Aug;8(4).
- 29) Ala A, Rahmani F, Shirzadegan S, Bakhtavar HE, **Esfanjani RM**. A New Method for Non-traumatic Epistaxis Management Using Celox® Dressing: A Randomized, Clinical Trial. Iranian Red Crescent Medical Journal. 2018 Apr 1;20(4).
- 30) Asl ES, Taheraghdam A, Rahmani F, Javadrashid R, Golzari SE, Ghaemian N, Sadeghpour Y, **Esfanjani RM**, Soleimanpour H. Determination of the predictive value of serum bilirubin in patients with ischemic stroke: a prospective descriptive analytical study. Advanced Pharmaceutical Bulletin. 2018 Nov;8(4):715.
- 31) Parsian Z, Rahmani F, Mahmoodpour A, Pouraghaei M, Jalali MB, **Esfanjani RM**, Soleimanpour H. Association between core body temperature and mean airway pressure with endotracheal cuff

- pressure in intubated patients of emergency department. *Pakistan Journal of Medical Sciences*. 2019 Sep;35(5):1248.
- 32) Sanaie S, Rahmani F, Chokhachian S, Mahmoodpoor A, Panahi JR, **Esfanjani RM**, Mirzaei M, Soleimanpour H. Comparison of tracheal tube cuff pressure with two technique: fixed volume and minimal leak test techniques. *Journal of Cardiovascular and Thoracic Research*. 2019;11(1):48.
- 33) Parish M, Paknezhad SP, Bilan M, **Esfanjani RM**, Soleimanpour H. Extended neck mallampati in supine position for predicting difficult airway in diabetic patients. *Journal of Clinical Anesthesia*. 2019 Sep 16;60:107-8.
- 34) Paknezhad S, Serati E, **Esfanjani RM**, Soleimanpour M, Soleimanpour H. Effects of fentanyl versus remifentanil pretreatment on the QTc interval in patients undergoing rapid sequence intubation: a randomized clinical trial. *Anesthesiology and Pain Medicine*. 2022 Oct;12(5).
- 35) Joudikhajeh S, Sepehri B, **Esfanjani RM**, Rezaeizadeh H, Ranjbar Y, Araj-Khodaei M. Evaluating Walnut-Fig Syrup as an Innovative Herbal Medicine for Functional Constipation in the Elderly: A Randomized Controlled Clinical Trial. *Crescent Journal of Medical & Biological Sciences*. 2022 Oct 1;9(4).
- 36) **Esfanjani RM**, Najarzadeh D, Khamnei HJ, Hormozinejad F, Talebi M. Two-parameter ridge estimation in seemingly unrelated regression models. *Communications in Statistics-Simulation and Computation*. 2022 Sep 27;51(9):4904-18.
- 37) **Mehdizadeh Esfanjani R**, Najarzadeh D, Jabbari Khamnei H, Hormozinejad F, Talebi M. A Monte Carlo study on the ridge parameter of the seemingly unrelated ridge regression models. *Journal of Statistical Computation and Simulation*. 2023 Feb 11:1-20.
- 38) Zeinaly A, Kelvanagh AM, Soleimanpour M, **Esfanjani RM**, Soleimanpour H. Comparison of Electronic Learning Versus Discussion-based learning Methods on learning rate of medical students about sedation in the emergency room: An Analytical Descriptive Prospective Study.

### **National Papers:**

- 18) Hassan Soleimanpour Hassan, Karim Marjany, Afshin Iranpour, **Esfanjani Robab Mehdizadeh**. Prevention of Hypertension Crisis and Arrhythmia during Adrenal Manipulation by Epidural Block. *Journal Of Iranian Society Of Anaesthesiology & Intensive Care*. 2009; 4(64).
- 19) Seyed Ali Sadraldini, Mahdi Farhodi, Jafar Majidi, Mohammad Moosavi, **Robab Mehdizadeh Esfanjani**. Study on Serum Magnesium Level in Alzheimer Disease and Its Relationship with the Stage of Disease. *Medical Journal of Tabriz University of Medical Sciences*, 2010; 32 (5): 58-62.
- 20) Taheraghdam A, Pourkakroudi M, Farhoudi M, Khandaghi R, Ranjbar F, Pourisa M , **Mehdizadeh Esfanjani R**. STUDY ON BRAIN ATROPHY AND COGNITIVE IMPAIRMENT IN MS PATIENTS DURING FIRST TWO YEARS OF DISEASE ONSET. *URMIA MEDICAL JOURNAL*. 2011; 22 (3) 22 (3) :203-211.

## Conference presentations

- 1) Fathi Vajargah K, **Mehdizadeh R**, Farhoudi M. Effects of Nimodipine on cerebral hemodynamic and prognosis of diffuse axonal injury patients with repeated measurements design. Regional Conference on Mathematics and its achievements. Islamic Azad University of Rasht. 27-28 Nov 2008, Rasht, Iran. (Lecture)
- 2) Kianoush Fathi Vajargah, Homayoun Sadeghi-Bazargani, **Robab Mehdizadeh-Esfanjani**, Daryoush Savadi-Oskouei, Mehdi Farhoudi. Comparison of PLS and OPLS methods in controlling the variety of variables. Example: A Sample in TCD. 10th Iranian Statistics Conference. 3-5 August 2010, Tabriz Iran. (Poster)