

# Neda Mohammadi

Biostatistician

## Contact information:

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## Educational Background

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- PhD in Biostatistics  
2017-2023

Department of Epidemiology and Biostatistics,  
School of Public Health, Tehran University of  
Medical Sciences, Tehran, Iran.  
Thesis Title: *Causal effect estimation using  
Targeted Maximum Likelihood estimator (TMLE)  
in repeated cross-sectional study.*  
*Under supervision of Dr Yaseri and Dr  
Mansournia*

- Master of Sciences in Biostatistics  
2015-2017

Department of Epidemiology and Biostatistics,  
School of Public Health, Tehran University of  
Medical Sciences, Tehran, Iran.  
Thesis Title: *The marginal effect of opium  
consumption on the death due to gastrointestinal  
cancer in Golestan Cohort using parametric g  
formula and IPTW.*  
*Under supervision of Dr Yaseri and Dr  
Mansournia*

- Bachelor of Sciences in Statistics  
2011-2014

Faculty of Basic Sciences and Advanced  
Technologies in biology, University of Science  
and Culture, Tehran, Iran.  
Thesis Title: *The data mining process and the  
discovery of knowledge and its implementation  
using the Clementine software.*  
*Under supervision of Dr Mahmoodi*

## Honors and Awards

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- Ranked second among PhD students of Biostatistics, Tehran University of medical science.2023
- Ranked seventh in national university entrance exam for PhD, Iran.2017
- Receive full scholarship for PhD from Tehran University of medical science 2017
- Ranked second among MSc students of Biostatistics, Tehran University of medical science.2017
- National Elites Foundation Distinguished Student Award (Society of prominent students of the country) 2017
- Ranked third in national university entrance exam for MSc, Iran.2015
- Receive full scholarship for MSc from Tehran University of medical science 2015

## Research Interest

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- Causal inference
- Machine learning
- Semiparametric Theory
- Bayesian inference

## Publications

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1. **Neda Mohammadi**, Ahad Alizadeh, Sahar Saeedi Moghaddam, Erfan Ghasemi, Naser Ahmadi, Mehdi Yaseri, Negar Rezaei, Mohammad Ali Mansournia. The causal effect of family physician program on the prevalence, screening, awareness, treatment, and control of hypertension and diabetes mellitus in an Eastern Mediterranean Region: a causal difference-in-differences analysis. *BMC Public Health*, 2023, 23(1), 1152.
2. Hamed Barabadi, Omid Hosseini, Kamyar Jounaki, Salar Sadeghian-Abadi, Fatemeh Ashouri, Ayat Mostafa Abdulabbas Alrikabi, Hossein Vahidi, Salimeh Amidi, Faraz Mojab, **Neda Mohammadi** and et al. Bioinspired green-synthesized silver nanoparticles: in vitro physicochemical, antibacterial, biofilm inhibitory, genotoxicity, antidiabetic, antioxidant, and anticoagulant performance. *Materials Advances*, 2023, 4(14), pp. 3037–3054.
3. Abdolkarim Mahrooz, Omeh Farveh Khosravi-Asrami, Ahad Alizadeh, **Neda Mohammadi**, Abouzar Bagheri, Zahra Kashi et al. Can HDL cholesterol be replaced by paraoxonase 1 activity in the prediction of severe coronary artery disease in patients with type 2 diabetes? *Nutrition, Metabolism and Cardiovascular Diseases*. 2023;33(8):1599-607.
4. Niloufar Talank, Hamed Morad, Hamed Barabadi, Faraz Mojab, Salimeh Amidi, Farzad Kobarfard, Mohammad Ali Mahjoub, Kamyar Jounaki, **Neda Mohammadi**, et al. Bioengineering of green-synthesized silver nanoparticles: In vitro physicochemical, antibacterial, biofilm inhibitory, anticoagulant, and antioxidant performance. *Talanta*, 2022, 243, 123374.

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5. Azadeh Akbari Sene, Mahnaz Ashrafi, Nasim Alaghmand-Fard, **Neda Mohammadi**, et al. Anti-Müllerian hormone predictive levels to determine the likelihood of ovarian hyper-response in infertile women with polycystic ovarian morphology. *International Journal of Fertility and Sterility* this link is disabled, 2021, 15(2), pp. 115–122.
  6. Yasaman Sadeghi, Pegah Kananizadeh, Solmaz Ohadian Moghadam, Ahad Alizadeh, Mohammad Reza Pourmand, **Neda Mohammadi**, Davoud Afshar, and Reza Ranjbar. The Sensitivity and Specificity of Loop-Mediated Isothermal Amplification and PCR Methods in Detection of Foodborne Microorganisms: A Systematic Review and Meta-Analysis. *Iranian Journal of Public Health*. 2021 Nov;50(11):2172.
  7. Negar Bizhani, Saeideh Hashemi Hafshejani, **Neda Mohammadi**, Mehdi Rezaei, Mohammad Bagher Rokni. Lymphatic filariasis in Asia: A systematic review and meta-analysis. *Parasitology Research* this link is disabled, 2021, 120(2), pp. 411–422.
  8. **Neda Mohammadi**, Masoomeh Alimohammadian, Akbar Feizesani, Hossein Poustchi, et al. The marginal causal effect of opium consumption on the upper gastrointestinal cancer death using parametric g-formula: An analysis of 49,946 cases in the Golestan Cohort Study, Iran. *PLoS ONE*, 2021, 16(11), e0246004
  9. Golshan Latifi, Ali Banafshe Afshan, Amir Houshang Beheshtnejad, Mehran Zarei-Ghanavati, **Neda Mohammadi**, Reza Ghaffari, et al. Changes in Corneal Subbasal Nerves after Punctal Occlusion in Dry Eye Disease. *Current Eye Research* this link is disabled, 2021, 46(6), pp. 777–783.
  10. Mohammad Bagher Rokni, Negar Bizhani, Farrokh Habibzadeh, Dariush Daneshvar Farhud, **Neda Mohammadi**, Ahad Alizadeh, and Ladan Rokni. Comprehensive survey of plagiarism in Iran. *Pakistan journal of medical sciences*. 2020 Nov;36(7):1441.
  11. Negar Bizhani, Saeideh Hashemi Hafshejani, **Neda Mohammadi**, Mehdi Rezaei, Mohammadi Bagher Rokni. Human cysticercosis in Asia: A systematic review and meta-analysis. *Iranian Journal of Public Health*. 2020 Oct;49(10):1839.
  12. Khosrow Jadidi, Seyed Aliasghar Mosavi, Farhad Nejat, **Neda Mohammadi**, Hosein Aghamolaei, et al. Use of low-vault posterior chamber collagen copolymer phakic intraocular lenses for the correction of myopia: a 3-year follow-up. *Graefe's Archive for Clinical and Experimental Ophthalmology*. 2019 Jul 4;257:1555-60.
  13. **Neda Mohammadi**, Mohammad Ali Mansournia, et al. Estimation of the Marginal Causal Risk Ratio in Survival Data Using Inverse Probability Treatment Weighting (IPTW). *Iranian Journal of Epidemiology*. 2018, 13(4), 356-361.
  14. Shiva Pirhadi, **Neda Mohammadi**, Seyed Aliasghar Mosavi, et al. Comparison of the MyoRing implantation depth by mechanical dissection using PocketMaker microkeratome versus Melles hook via AS-OCT. *Bmc Ophthalmology*. 2018 Dec;18:1-8.
  15. Kiarash Tanha, **Neda Mohammadi**, Leila Janani. P-value: What is and what is not. *Medical Journal of the Islamic Republic of Iran*. 2017, 31(65).

## Experience

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- **Research Experience**

1. Statistical Advisor in Academy of Persian Language and Literature (2013-2017)
2. Statistical Advisor in Vision Health Clinic in Iran (2014-2017)
3. Reviewer in Biostatistics and Epidemiology Journal
4. Reviewer in BMC Women's Health journal
5. Reviewer in Iranian Journal of Public Health
6. Reviewer in PLOS ONE Journal
7. Reviewer in Bina journal

- **Teaching Experience**

1. lecturer for BSc and MSc Biostatistics courses. (2019-2024)
2. Teaching assistant for MS Biostatistics courses (2017-2018)
3. Teaching associate (2017-2018)

## Project

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- Developed shiny app for generation block randomization list
- Contribution in research project in Academy of Persian Language and Literature

## Seminar and workshop

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Good Clinical Practice (GCP)

New statistical models for categorical data analysis and contingency tables.

Bayesian analysis using R and openbugs

Introduction to Statistical Machine Learning

workshop for reviewing articles

Clinical Trial

Machine Learning

Meta-Analysis

Bayesian Analysis

## Skills

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|---------|----------|--------------|--------------------|
| • R     | • SAS    | • Stata      | • Rmarkdown        |
| • MySQL | • Python | • Git/GitHub | • WinBUGS/OpenBUGS |