

CANSER BOZ

HEALTH ECONOMICS

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EDUCATION

- PhD in Health Administration, Istanbul University-Cerrahpasa, Institute of Graduate Programs, 2020. Dissertation: The effects of non-communicable diseases on economic growth and health expenditures. Advisor: Prof. Dr. Haluk Zulfikar.
- MSc in Health Administration, Istanbul University, Institute of Health Sciences, 2016. Thesis: Factors affecting individuals' need assessment and demand in terms of healthcare utilization: A field study. Advisor: Prof. Dr. Haydar Sur.
- MSc in Statistics, Yıldız Technical University, Institute of Science, 2023. Thesis: Panel Causality Analysis and The Dowhy Approach In The Risk Of Catastrophic Health Expenditure Advisor: Ass. Prof. Dr. Elif Tuna
- BA in Economics, Anadolu University, Faculty of Economics and Administrative Sciences, 2012.

ACADEMIC POSITIONS

- Associate Professor, Istanbul University-Cerrahpasa, Faculty of Health Sciences, Department of Health Administration, Division of Health Economics.
- Research Assistant, Istanbul University, Faculty of Health Sciences, Department of Health Economics, 2013-2021.

RESEARCH PROJECTS

- Development of biomarkers and advanced technological warning systems for the diagnosis, monitoring and treatment of diseases associated with neuronal damage. TUBITAK 1004 Project. Researcher, since 1 May 2023. In progress.
- Household Healthcare Utilization and Expenditures in Turkey. Istanbul University-Cerrahpaşa BAP Project. Researcher, 2026–2027. In progress.

ARTICLES IN INTERNATIONAL JOURNALS

- Koçak O., Boz C., Aksoy B., Aksan E., Ozisli O., Solmaz U. (2026). The impact of quality of work life on quiet quitting in healthcare workers: The mediating and moderating effects of compassion fatigue and psychological resilience. *WORK: A Journal of Prevention, Assessment & Rehabilitation*. doi:10.1177/10519815251401877.
- Altuntaş, G., İnanç, Y., Bolelli, M., & Boz, C. (2026). Strategic Human Capital Development in Logistics: A Competency-Based Training Framework Using Fuzzy Best-Worst Method for Evidence-Based Workforce Planning. *Human Resources Management and Services*, 8(2).
- Boz C., Kurnaz F.S. (2025). Economic and demographic influences on health expenditures: robust approaches for income and aging effects. *Health Economics Review*, 15(1), 1-14. doi:10.1186/s13561-025-00631-w.
- Gunal A.M., Canturk S., Yilmaz S., Boz C., Karabay D. (2025). Examining the interconnections among income, food prices, food insecurity, and health expenditure: a multicausality approach. *BMC Public Health*, 25. doi:10.1186/s12889-025-24153-6.
- Yilmaz S., Boz C., Ozsari S.H., Yilmaz F., Fidan Turkon B., Mete A.H. (2025). Effects of neurological disorders on health expenditure and economic output: Dynamic panel analysis for OECD countries. *Systems*, 13. doi:10.3390/systems13070521.
- Yilmaz S., Boz C., Gunal A.M., Eren F.A. (2025). Unraveling the causal relationship between non-communicable diseases, obesity, and health expenditure: Insights from the Toda-Yamamoto approach. *Healthcare*, 13. doi:10.3390/healthcare13010001.
- Eren F.A., Boz C., Sargin M. (2025). Exploring the relationship between obesity and social isolation: A cross-sectional analysis. *Eurasian Journal of Family Medicine*. doi:10.33880/ejfm.2025140203.

- Fidan Turkon B., Mete A.H., Boz C. (2024). How enabling factors determine unmet healthcare needs? A panel data approach for countries. *Evaluation and Program Planning*, 107. doi:10.1016/j.evalprogplan.2024.102492.
- Fidan Turkon B., Mete A.H., Boz C. (2024). The causality between the exchange rate and health price index: An econometric analysis. *SDU Journal of Health Management*, 6(2), 220-230.
- Yilmaz F., Boz C., Senel I.K., Ozsari S.H. (2024). Causality relationship between nonpharmaceutical interventions and Coronavirus Disease 2019 in Turkey. *Archives of Health Science and Research*.
- Kus G., Yasaci Z., Boz C., Turkmen E. (2023). Association of osteoarthritis prevalence with age and obesity factors in OECD countries: Panel regression model. *American Journal of Physical Medicine & Rehabilitation*, 102(10), 901-906. doi:10.1097/PHM.0000000000002244.
- Deniz B., Boz C., Kara E., Deniz R., Oruc Y., Acar M., Yilmaz Y.Z., Atas A. (2022). Direct health expenditure analysis related to hearing loss in individuals using hearing aids and cochlear implants. *Turkish Archives of Otorhinolaryngology*, 60. doi:10.4274/tao.2022.2022-4-3.
- Boz C., Ozsari S.H. (2020). The causes of aging and relationship between aging and health expenditure: An econometric causality analysis for Turkey. *International Journal of Health Planning and Management*.
- Boz C., Mete A.H., Aslan O. (2020). Determinants of catastrophic health expenditure for surgical care: Panel regression model. *Indian Journal of Surgery*.
- Aslan O., Boz C., Cerit M. (2018). A conceptual framework on health innovation and the Health Transformation Program. *Social Sciences Studies Journal*, 4(15), 786-798.
- Boz C., Sur H., Soyuk S. (2016). Factors affecting healthcare services demand in terms of healthcare utilization: A field application. *International Journal of Health and Life Sciences*.

CONFERENCE PAPERS

- Aygun E., Boz C. (2023). The relationship between religious belief and psychological stability of individuals over 65 years in the pandemic period. 2nd International Congress of Gerontology.
- Boz C. (2020). Health expenditure and economic growth: Fourier approach for the Turkey case. *International Conference on Different Aspects of Health*.
- Boz C. (2020). Cardiovascular disease prevalence and economic output: An econometric panel data approach for OECD countries. *International Conference on Different Aspects of Health*.
- Calgi B., Boz C. (2020). Mental disorders prevalence, comorbidity and unemployment: An econometric panel data approach for middle-income countries. *International Conference on Different Aspects of Health*.
- Boz C., Sevim E., Onder E. (2019). The effect of socio-economic indicators on health outcomes. 3rd International Regional Development and the Role of Universities Symposium.
- Sevim E., Boz C., Onder E. (2019). Examination of health workforce across countries. 10th International Congress of Civil Society Organizations.
- Boz C., Mete A.H., Aslan O. (2019). Causality relationship between the health price index and exchange rate: An econometric application for Turkey. *International Congress on Health and Hospital Administration*.
- Senel I.K., Boz C. (2018). Analysis of factors affecting hospital bed utilization performance for Turkey health service regions: Pabon Lasso and logit model application. 8th ICoSReSSE.
- Boz C., Aslan O. (2017). The relationship between public health expenditures and gross domestic product in Turkey. *International Congress on Health and Hospital Administration*.
- Boz C., Senel I.K. (2017). Socio-economic factors affecting the performance of public hospital associations in Turkey. *International Congress on Health and Hospital Administration*.
- Tas N., Onder E., Boz C. (2017). Effective factors on health expenditures: A panel regression analysis for OECD countries. 31st International Business Economics Society Conference.
- Gun I., Boz C., Hosgor H. (2016). Analysis of health status indicators of OECD countries with cluster analysis. XI European Conference on Social and Behavioral Sciences.
- Boz C., Sur H. (2016). Factors affecting demand in terms of use of health services: A field application. X European Conference on Social and Behavioral Sciences.

BOOKS

- Boz C., Yilmaz F. (2024). *Quantitative Techniques and Machine Learning in Health Management*. IUC Press. Scientific book, 142 pages.
- Ozsari S.H., Boz C., Demirci U., Gurkan S. (2022). *Patient Expectations in Cancer Treatment*. Ankara Nobel Medical Bookstore. Scientific book, 50 pages.

BOOK CHAPTERS

- Boz C., Unal E. (2024). Social and Economic Determinants of Health. In Health Services and Management. Istanbul Tip Kitabevi.
- Boz C., Mete A.H. (2024). Alzheimer's Disease and Dementia: Epidemiology, Social and Economic Challenge. In Alzheimer's Disease: From Molecular Mechanisms to Clinical Practices. Nobel Tip Kitabevleri.
- Boz C., Calgi B. (2023). Sample Size Determination and Power Analysis in Clinical Studies. In How to Write a High-Quality Scientific Research Article? IUC Press.
- Boz C. (2023). Parametric and Non-Parametric Methods in Clinical Research. In How to Write a High-Quality Scientific Research Article? IUC Press.
- Ozsari S.H., Boz C. (2022). Financial Dimension of Employee Safety. In Healthcare Worker Safety. Nobel Tip.
- Ozsari S.H., Boz C. (2021). The Italian Health System. In Comparative Health Systems. Nobel Akademik.
- Tosun N., Boz C., Aslan O. (2019). Health Economics. In Sociology of Health. Ani Publishing.
- Boz C., Aslan O. (2018). The Emergence and Scope of Economics and Health Economics. In Guide to Fundamental Dimensions in Healthcare Management. Beta.
- Arslan S., Gun I., Boz C. (2018). Strategic Management in Hospitals: SWOT Analysis and Decision-Making. In Multi-Criteria Decision Making in Health Management 1. Dora.
- Boz C., Conak O., Onder E. (2018). Health Economics and Decision-Making. In Decision Making in Health Management 1. Dora.
- Boz C., Bosat Sonmez M. (2018). Medical Waste Management and Decision-Making. In Decision Making in Health Management 1. Dora.

ARTICLES IN NATIONAL JOURNALS

- Arcagok U., Boz C., Onder E. (2022). Psychosocial risk factors affecting nurses working at an education and research hospital in Istanbul. Anemon Mus Alparslan University Journal of Social Sciences. doi:10.18506/anemon.895169.
- Boz C., Zulfikar H. (2021). Chronic respiratory diseases and health expenditures: Panel regression analysis. TJFMPC.
- Boz C., Ozdemir M., Calgi B. (2020). Multidimensional analysis and ranking of OECD countries according to mental disorder prevalence using the MOORA method. Gumushane University Electronic Journal of the Institute of Social Sciences.
- Ince O., Boz C., Cengiz E., Yilmaz F. (2020). Ranking OECD countries in terms of health status indicators and the effect of income-health expenditures. Social Security, 8(17), 245-264. doi:10.21441/sosyalguvence.823704.
- Mete A.H., Boz C., Aslan O. (2019). A conceptual framework on the health innovation system. Journal of Health Sciences and Professions, 6(3), 621-629.
- Boz C., Aslan O. (2018). Examination of the relationship between per capita public health expenditure and per capita gross domestic product in Turkey, 1980-2014. Journal of Social Security.
- Boz C., Onder E., Tas N. (2018). Comparison of health status indicators with multidimensional scaling and MOORA. Journal of Health and Nursing Management, 5(3), 179-187. doi:10.5222/SHYD.2018.179.
- Boz C., Yilmaz F., Senel I.K. (2018). Factors affecting bed utilization performance of Turkish Public Hospital Associations. Ombudsman Academic, 5(9).
- Soyuk S., Boz C. (2017). Managerial problems of chain hospitals and solutions: A qualitative study of managers. Gumushane University Journal of Health Sciences.
- Boz C., Onder E. (2017). Evaluation of health system performance of OECD countries. Journal of Social Security, 6(11), 24-61. doi:10.21441/sguz.2017.54.
- Boz C., Sur H., Soyuk S. (2016). Similarities and differences among OECD countries in terms of health system indicators. Acibadem University Health Sciences Journal.
- Boz C., Sur H. (2016). Similarities and differences between EU member and candidate countries in terms of health expenditures. Journal of Social Security.
- Memis K., Hosgor H., Boz C., Gun I., Gunduz Hosgor D. (2015). Relationship between quality of work life and motivation: The case of Metin Sabanci Baltalimani Bone Diseases Hospital. Marmara University Journal of Health Sciences, 5(4), 220-230.
- Ozsari S.H., Yanik S., Vehid S., Uzgul Yenidikici A., Hosgor H., Boz C. (2015). Evaluation of clinical and outpatient costs in an otorhinolaryngology department: A university hospital example. KBB Practices.

INTERNATIONAL EXPERIENCE

- Visiting Researcher, University of Pisa, Italy, for PhD; YOK YUDAB international scholarship, 1 October 2019 - 1 April 2020.