

Atalay Demiray, MD, MSc (*He/Him/His*)

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EDUCATION

- Yale University** New Haven, CT, USA
Ph.D. student in Health Policy and Management (Economics Track) Expected August 2028
- Erasmus University Rotterdam** Rotterdam, the Netherlands
M.Sc. in Health Economics, Policy & Law July 2023
Awarded Thesis of the Year for
“Regulation of Artificial Intelligence in Medicine: Upholding Public Health”
- Koç University** Istanbul, Turkiye
M.D. (Doctor of Medicine) July 2022
Graduated with distinction, ranking third in the class
- Mayo Clinic College of Medicine and Science** Rochester, MN, USA
Visiting Medical Student Clerkships (completed with High-Pass) June-July 2022
- Koç University** Istanbul, Turkiye
Bachelor of Arts in International Relations July 2022
GPA: 3.89/4.00 with First-Class Honors, ranking first in the class
Minor in Economics
Minor GPA: 4.00/4.00
- Istanbul Atatürk Science High School** Istanbul, Turkiye
Graduation with Outstanding Achievement & Honor Certificate June 2015

RESEARCH EXPERIENCE

- Koç University** Istanbul, Turkiye
Undergraduate Researcher 2021 - 2022
Public Health Research as a Millennium Fellowship
- Questionnaire preparation for assessing demographics, health knowledge, and attitudes of university students
 - Health education design for reproductive health, including presentations, lectures, zoom meetings
 - Assessment of peer-produced health education on knowledge and attitudes of university students
- Koç University** Istanbul, Turkiye
Undergraduate Researcher 2019 - 2022
Clinical Research with Professor Kanbay
- Conducting meta-analysis and systemic reviews on the effects of SGLT2
 - Helping clinical research on evaluating a sugar beverage by recruiting volunteers and collecting blood samples
 - Working with my peers to conduct literature reviews, analyze data, and draft manuscripts
 - Published several articles in peer-reviewed journals
- The University of Castilla-La Mancha** Ciudad-Real, Spain
Summer Undergraduate Researcher July 2019
Biochemistry Lab as IFMSA Research Exchange
- Worked in the biochemistry laboratory of Professor Inmaculada Ballesteros Yáñez
 - Detection of neuronal changes of mice after cocaine administration via Western Blot
 - Observation of changes in dendrite formation via microscopy
- Koç University** Istanbul, Turkiye
Undergraduate Researcher 2017 - 2019
Microbiology Lab of Professor Can
- Identification of virulence factors of Colistin-Resistant *K. pneumonia* via PCR
 - Genotyping of *K. pneumonia* isolates by MLST
 - Presented poster at 29th European Congress of Clinical Microbiology & Infectious Diseases
 - Published an article in *Biology* (doi.org/10.3390/biology10050436)

WORK EXPERIENCE

Yale University, School of Medicine

GSAS Professional Experience Fellowship at Office of Diversity, Equity & Inclusion

New Haven, CT, USA

2023 - ongoing

- Strategic evaluation of diversity projects and statistical analysis of follow-up data

Erasmus University Rotterdam, the UNIC Project

Student Assistant to UNIC (European University of Post-Industrial Cities)

Rotterdam, the Netherlands

2022 - 2023

- Assisted with management of projects' timesheets and email box management.
- Assisted activities and projects for student engagement and coordination of projects' events.

Koc University, School of Medicine

Work & Study in Dean's Office of School of Medicine

Istanbul, Turkiye

2017-2019

- Managed social media accounts for School of Medicine (KUSOM), enhancing online presence and engagement.
- Acted as a liaison between the student body and the Dean's office, ensuring effective student representation.
- Represented students' perspectives in administration, contributing to policy development and campus initiatives.
- Implemented strategies to increase student participation and feedback in university programs and decisions.

VOLUNTARY ACTIVITIES: LEADERSHIP & TEAMWORK EXPERIENCE

Millennium Fellowship Project: Reproductive Health for All

Millennium Fellow & Team Leader, Class of 2021

Istanbul, Turkey

August – December 2021

- Leadership program presented by the United Nations Academic Impact and Millennium Campus Network
- Selected as a Millennium Fellow out of 25,000+ applicants.
- Over the semester, led the 'Reproductive Health for All' project, helping >300 university students to gain accurate and valuable knowledge on reproductive and sexual health via a peer-produced online education.
- I was engaged in 10 leadership sessions to cultivate core values of empathy, humility, inclusion in leadership, and social impact. For more information, please see [my Millennium Fellowship profile](#).

Koç University Medical Students' Association (KUMSA)

Treasurer (2017-18) & President (2018-19)

Istanbul, Turkiye

2017-2019

- Organized the budget of medical students' clubs and managed students' spending
- Provided communication between Dean's Office and medical students
- Organized meetings with the Dean's Office to discuss medical education
- Revised the KUMSA's internal rules with the executive board members for the more efficient administration

European Medical Students' Association (EMSA)

Finance Assistant (2017-18) & Treasurer (2018-19)

Brussels, Belgium

2017 – 2019

- Managed all financial transactions and budgets and coordinated legal works in Belgium
- Collected membership fees, worked with the accountant, and organized sponsorships agreements
- Renewed the bookkeeping system of EMSA to increase transparency and accessibility
- Attended external meetings as an executive board member of EMSA for representation

SKILLS & INTERESTS

Language: English (full professional proficiency), Turkish (native), Dutch (beginner).

Interests: Global Health, Health Policy, Public Health, Medical Education, Architecture.

HONORS AND AWARDS

- Thesis of the Year Award in Health Economics, Policy & Law (2023)
- Fulbright PhD Scholarship Awardee (2023)
- Jean Monnet Scholarship (2022-2023)
- Holland Scholarship (2022-2023)
- TEV Dr. Orhan Birman Honorable Mention for Medical Research (2022)
- Vehbi Koç Scholars Honor Prize (2017, 2018, 2019)
- Honor Certificate & Outstanding Achievement Certificate (2015)
- TÜBİTAK National Biology Olympiad Silver Medal (2014)

PUBLICATIONS

- Afsar, B., Afsar, R. E., **Demiray, A.**, Altay, S., Korkmaz, H., Yildiz, A., Covic, A., Ortiz, A., & Kanbay, M. (2022). Sodium–glucose cotransporter inhibition in polycystic kidney disease: Fact or fiction. *Clinical Kidney Journal*, 15(7), 1275–1283. <https://doi.org/10.1093/ckj/sfac029>
- Afsar, B., Afsar, R. E., **Demiray, A.**, Covic, A., & Kanbay, M. (2021). Deciphering nutritional interventions for podocyte structure and function. *Pharmacological Research*, 172, 105852. <https://doi.org/10.1016/j.phrs.2021.105852>
- Copur, S., **Demiray, A.**, Basile, C., & Kanbay, M. (2023). Endocrinological disorders in acute kidney injury: An often overlooked field of clinical research. *Journal of Nephrology*, <https://doi.org/10.1007/s40620-022-01554-z>
- Copur, S., **Demiray, A.**, & Kanbay, M. (2022). Uric acid in metabolic syndrome: Does uric acid have a definitive role? *European Journal of Internal Medicine*, <https://doi.org/10.1016/j.ejim.2022.04.022>
- Demiray, A.**, Afsar, B., Covic, A., Kuwabara, M., Ferro, C. J., Lanaspá, M. A., Johnson, R. J., & Kanbay, M. (2022). *The role of uric acid in the acute myocardial infarction: A narrative review*. SAGE Publications. <https://doi.org/10.1177/00033197211012546>
- Demiray, A.**, Kanbay, A., & Kanbay, M. (2022). Long-term effect of COVID-19 infection on hemodialysis patients: Should we follow hemodialysis patients more closely? *Clinical Kidney Journal*, 15(3), 369–371. <https://doi.org/10.1093/ckj/sfab265>
- Demiray, A.**, & Kanbay, M. (2022). The assessment of hypertension in kidney transplant patients: Time to change our approach? *Clinical Kidney Journal*, 15(1), 1–4. <https://doi.org/10.1093/ckj/sfab151>
- Demiray, A.**, Öztosun, Ç, Acar, S., Sakarya, S., Gürsoy, T., & Ata, B. (2022). Transition from locally developed, faculty-written (LFW) examinations to the national board of medical examiners (NBME) subject examinations in clinical medical education. *SN Social Sciences*, 2(10), 200. <https://doi.org/10.1007/s43545-022-00510-9>
- Dogan, O., Vatansever, C., Atac, N., Albayrak, O., Karahuseyinoglu, S., Sahin, O. E., Kilicoglu, B. K., **Demiray, A.**, Ergonul, O., Gönen, M., & Can, F. (2021). Virulence determinants of colistin-resistant *K. pneumoniae* high-risk clones. *Biology (Basel, Switzerland)*, 10(5), 436. <https://doi.org/10.3390/biology10050436>
- Ertuglu, L. A., Afsar, B., Yildiz, A. B., **Demiray, A.**, Ortiz, A., Covic, A., & Kanbay, M. (2021). Substitution of sugar-sweetened beverages for other beverages: Can it be the next step towards healthy aging? *Current Nutrition Reports*, 10(4), 399–412. <https://doi.org/10.1007/s13668-021-00372-2>
- Ertuglu, L. A., **Demiray, A.**, Afsar, B., Ortiz, A., & Kanbay, M. (2022). The use of healthy eating index 2015 and healthy beverage index for predicting and modifying cardiovascular and renal outcomes. *Current Nutrition Reports*, <https://doi.org/10.1007/s13668-022-00415-2>
- Ertuglu, L. A., **Demiray, A.**, Basile, C., Afsar, B., Covic, A., & Kanbay, M. (2021). Sodium and ultrafiltration profiling in hemodialysis: A long-forgotten issue revisited. *Hemodialysis International*, 25(4), 433–446. <https://doi.org/10.1111/hdi.12952>
- Ertuglu, L. A., Porrini, E., Hornum, M., **Demiray, A.**, Afsar, B., Ortiz, A., Covic, A., Rossing, P., & Kanbay, M. (2021). Glucagon-like peptide-1 receptor agonists and sodium-glucose cotransporter 2 inhibitors for diabetes after solid organ transplantation. *Transplant International*, 34(8), 1341–1359. <https://doi.org/10.1111/tri.13883>
- Kanbay, M., Copur, S., **Demiray, A.**, Sag, A. A., Covic, A., Ortiz, A., & Tuttle, K. R. (2022). Fatty kidney: A possible future for chronic kidney disease research. *European Journal of Clinical Investigation*, 52(6), e13748–n/a. <https://doi.org/10.1111/eci.13748>
- Kanbay, M., Copur, S., **Demiray, A.**, & Tuttle, K. R. (2022). Cardiorenal metabolic consequences of nighttime snacking: Is it an innocent eating behavior? *Current Nutrition Reports*, 11(2), 347–353. <https://doi.org/10.1007/s13668-022-00403-6>
- Kanbay, M., **Demiray, A.**, Afsar, B., Covic, A., Tapoi, L., Ureche, C., & Ortiz, A. (2021). Role of *klotho* in the development of essential hypertension. *Hypertension (Dallas, Tex. 1979)*, 77(3), 740–750. <https://doi.org/10.1161/HYPERTENSIONAHA.120.16635>
- Kanbay, M., **Demiray, A.**, Afsar, B., Karakus, K. E., Ortiz, A., Hornum, M., Covic, A., Sarafidis, P., & Rossing, P. (2021). Sodium-glucose cotransporter 2 inhibitors for diabetes mellitus control after kidney transplantation: Review of the current evidence. *Nephrology (Carlton, Vic.)*, 26(12), 1007–1017. <https://doi.org/10.1111/nep.13941>
- Kanbay, M., Tapoi, L., Ureche, C., Tanriover, C., Cevik, E., **Demiray, A.**, Afsar, B., Cherney, D. Z. I., & Covic, A. (2022). Effect of sodium–glucose cotransporter 2 inhibitors on hemoglobin and hematocrit levels in type 2 diabetes: A systematic review and meta-analysis. *International Urology and Nephrology*, 54(4), 827–841. <https://doi.org/10.1007/s11255-021-02943-2>

POSTER & ABSTRACT PRESENTATIONS

- Dural D, Cunedioglu BÖ, Yurtseven E, **Demiray A**, Gursoy E, Aytekin S, Aytekin V. Association between lipoprotein (a) level and chronic cardio-renal syndrome in patients with coronary artery disease. Abstract presented at World Congress on Heart Failure 2021. June 29-July 1, 2021. <https://doi.org/10.1002/ejhf.2297>
- Dogan O, Atac N, Vatansever C, Albayrak O, Sahin OE, Kilicoglu BK, **Demiray A**, Ergönül Ö, Gönen M, Can F. Yersiniabactin as a promoter of mortality of infections caused by colistin-resistant *Klebsiella pneumoniae* ST101. Poster presented at 29th European Congress of Clinical Microbiology & Infectious Diseases (ECCMID). 13-16 April 2019.
- Demiray A**, Oztosun C, Acar S, Gursoy T, Sakarya S, Ata B. The Usage of a Third-party Multiple-Choice Examination for the Assessment of Clinical Medical Education. Poster Presented at National Medical Education Congress 2022. 19-22 May 2022.