

## CURRICULUM VITAE

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### **Education**

- 2001-2005     Ph.D. (Epidemiology), School of Public Health and Tropical Medicine, Tulane University, USA
- 2000-2001     M.P.H. (International Health), School of Public Health and Tropical Medicine, Tulane University, USA
- 1980-1984     Master's in general surgery, Aleppo University School of Medicine, Aleppo, Syria
- 1974-1980     M.D., Aleppo University School of Medicine, Aleppo, Syria
- Languages:    Arabic (native), English (fluent), French (basic)

### **Other Training**

- 2021            Training seminar on using R statistical software
- 2008            Training workshop on clinical trial simulation software, Pharsight Corporation, Orlando, FL, USA
- 2007            Training workshop on pharmacokinetic/pharmacodynamic modeling and analysis, Pharsight Corporation, Mountain View, CA, USA
- 1997            Six-week training fellowship at Shriners Institute for Burned Children and Mass. General Hospital, Boston, Massachusetts, USA
- 1996            One-year training in public health during a tenure of H. H. Humphrey Fellowship Program, Department of International Health, Tulane University, USA
- 1990            Post-doctoral Fellow, University Hospital, Damascus, Syria (Burns management)

### **Professional and Work Experience**

- 2015-           Associate Professor of Epidemiology (tenured), School of Public Health, University of Memphis
- 2020-2021     Adjunct Faculty, St. Jude Children Hospital, Memphis, Tennessee.
- 2011-2015     Program Coordinator, Doctoral Program in Epidemiology, School of Public Health, University of Memphis
- 2009-2014     Assistant Professor of Epidemiology, School of Public Health, University of Memphis

- 2009-2012 Adjunct Assistant Professor, School of Public Health and Tropical Medicine, Department of Tropical Medicine, Tulane University, New Orleans, LA
- 2008-2015 Director, Epidemiology Program, Syrian Center for Tobacco Studies
- 2005-2009 Research Assistant Professor, Department of Tropical Medicine, School of Public Health and Tropical Medicine, Tulane University
- 2003-2009 Senior Clinical Coordinator, AQ-13 Clinical Trial (developing a new aminoquinoline active against resistant *P. falciparum*.) Center for Infectious Disease, Tulane University
- 2000-2003 Research Assistant/data analyst, The Bogalusa Heart Study, Tulane Center for Cardiovascular Health, Tulane University
- 1998-2000 Faculty, Institute of Nurses and Medical Technicians, Ministry of Health, Aleppo, Syria
- 1993-2000 Director, Research and Training Office, Aleppo Directorate of Health, Aleppo, Syria
- 1993-2000 Deputy Chair and surgeon, El-Razi Center for Burned Patients, Aleppo, Syria
- 1986-1993 Surgeon, Department of Emergency and Traumatic Surgery, El-Razi General Hospital, Aleppo, Syria

### **Past and Present Main Research Activities**

- 2018- Intergenerational effects of maternal and grandmaternal smoking during pregnancy on epigenetic profiles of the newborn offspring.
- 2018- The longitudinal effects of multiple CV risk factors on cardiovascular disease using systems medicine approach
- 2006- Birth weight and cardiovascular risk factors. Markers of overweight and vascular wall changes. Secondary analyses of data from the Bogalusa Heart Study and the Jackson Heart Study.
- 2009-2013 Syrian Center for Tobacco Studies, Syria: Designed and conducted a four-year longitudinal study of tobacco use among adolescents in Irbid, Jordan.
- 2007-2012 Center for Infectious Disease, Tulane University, USA: A two-stage crossover clinical trial to test the food effect on pharmacologic profile of AQ-13; a candidate antimalarial active against resistant malaria.
- 2006-2008 Center for Community Health, University of Memphis: Longitudinal study of smoking relapse and alcohol drinking in New Orleans in the aftermath of Hurricane Katrina.
- 2003-2006 Center for Infectious Disease, Tulane University, USA: AQ-13 Clinical Trial; to test the safety and pharmacokinetics of a candidate antimalarial active against resistant malaria. (Clinical coordinator)

- 2003-2005 Center for Cardiovascular Health. Tulane University, USA: A retrospective longitudinal study investigating the association of birth weight and the developmental trends of cardiovascular risk factors
- 2001-2003 Syrian Center for Tobacco Studies, Syria: Studied tobacco smoking prevalence and determinants in Syria, the Middle East, and exposure to second-hand smoking, environmental and health indicators, and cardiovascular health status in informal residential zones in Aleppo, Syria.
- 1998-2000 The Syrian Society against Cancer, Syria: Cross-sectional studies of smoking prevalence in various groups in Aleppo, Syria. Also, studied the annual incidence of different types of malignant disease in Syria

### **Honors and Awards**

- 2020 Faculty Senator for the School of Public Health, University of Memphis Faculty Senate (2020-2024)
- 2011 Faculty Research Award, University of Memphis, USA
- 2007 Research Enhancement Award, Tulane University, USA
- 2003 Pre-doctoral Fellowship, American Heart Association, USA
- 2003 Dean's Award for best research presentation. Tulane Research Days, Tulane University, USA
- 2000 Cancer Research Fellowship, International Agency for Research on Cancer (IARC), WHO, Lyon, France
- 1998 First place, American International Health Council Annual Contest for Best Research in Developing Countries, USA
- 1996 Hubert H. Humphrey Fellowship, USA

### **Professional Skills**

- Proficient in SPSS statistical software, EpiInfo, SamplePower, Rozinn Holter System Analysis software.
- Working knowledge in WinNonlin pharmacokinetic/pharmacodynamic modeling software and SAS statistical software
- Basic knowledge of R statistical software
- Epidemiological survey design and implementation.
- Proficient in eCourseware and CANVAS online teaching platforms. Working knowledge with Blackboard

### **Peer Reviewing Activities**

Associate Editor: *Health Behavior and Policy Review*

Editorial Board member: The *Journal of Translational Medicine and Epidemiology*, and the *Asian Pacific Journal of Tropical Medicine*

Reviewer: *Eastern Mediterranean Health Journal, International Journal of Epidemiology, European Journal of Epidemiology, Preventive Medicine, American Journal of Health Behavior, British Medical Journal, Clinical Epidemiology, Nicotine and Tobacco Research, PLOS One*

### **Teaching and Mentoring Experience**

- 2013- Chair, dissertation committees of six PhD students and a member in committees of 27 PhD students (22 graduated)
- 2013- Member, PhD Qualification Exam Committee
- 2012- Mentor of six PhD students (four graduated)
- 2022- Developed and teaching a new online course titled Refugees' Crisis as a Public Health Question for both graduate and undergraduate levels
- 2012- Developed and currently teach two graduate-level courses (Survey Methods and Epidemiology Methods II (both are offered online and in-class)
- 2010- Advised more than 50 MPH students (44 graduated)
- 2015 Co-teach two graduate-level courses: Introduction to Human Disease and Infectious Diseases Epidemiology

### **Administrative Experience**

- 2023-2024 Chair, Strategic Planning Committee of School of Public Health
- 2020-2024 Member, Business and Financial Committee, UofM Faculty Senate
- 2021- Chair, Committee on Faculty Affairs and Development, School of Public Health, UofM
- 2021- Member, Admission Committee, PHD Program in Epidemiology and Biostatistics, School of Public Health, UofM
- 2017-2021 Chair, Admission Committee, PhD Program in Epidemiology and Biostatistics, SPH, UofM
- 2011-2015 Epidemiology Doctorate Program Coordinator
- 2011-2013 Member, Graduate Studies Committee, SPH, UofM
- 2010-2011 Co-chair, Epidemiology Doctorate Program Development Committee (the committee was charged with developing a new PhD Program in Epidemiology at the University of Memphis School of Public Health).

## **Peer-reviewed Publications**

### Peer-reviewed Scientific Articles

1. Mukhopadhyay, A., et al. (2025). "The direct and urinary electrolyte-mediated effects of ambient temperature on population blood pressure: A causal mediation analysis." *Environment International* 195: 109208. DOI: <https://doi.org/10.1016/j.envint.2024.109208>
2. Madondo E, Mudagowa P, Mukhopadhyay A, Bartelli D, Jiang Y, Mzayek F. (2025). "Association between weight-adjusted waist-index and symptoms of sleep apnea in US adults: results from 2015–2018 national health and nutrition examination survey." *Sleep Science and Practice* 9(1): 1. DOI: 10.1186/s41606-024-00121-8
3. Surbhi S, Mahmood A, Grant C, Mzayek F, Mamudu H, Butterworth S, et al. The Tennessee Heart Health Network effectiveness study: A stepped wedge cluster randomized controlled trial to assess the effectiveness of statewide quality improvement cooperative participation on cardiovascular outcomes. *Contemp Clin Trials*. 2024;144. <https://doi.org/10.1016/j.cct.2024.107616>
4. Augusta TL, Mary A, Lee S, Mzayek F, Woodbury-Moore C. Spirituality, Self-Efficacy, and Medication Use in African American Women with Hypertension: Beyond the Prescriptions. *Res Theory Nurs Pract*. 2024 Jul 18:RTNP-2023-0139.R1. doi: 10.1891/RTNP-2023-0139. Epub ahead of print. PMID: 39025529.
5. Grant CC\*, Mzayek F\*, Mamudu HM, Surbhi S, Kabir U, Bailey JE. Building Statewide Quality Improvement Capacity to Improve Cardiovascular Care and Health Equity: Lessons from the Tennessee Heart Health Network. *Jt Comm J Qual Patient Saf*. 2024 Jul;50(7):533-541. doi: 10.1016/j.jcjq.2024.02.009. Epub 2024 Feb 28. PMID: 38555226.
6. Mazumder H, Mondol MH, Rahman M, Khan R, Doza S, Unicomb L, Jahan F, Mukhopadhyay A, Makris KC, Caban-Martinez A, Iqbal R, Ahmed F, Creencia L, Shamsudduha M, Mzayek F, Jia C, Zhang H, Musah A, Fleming LE, Mou X, Kovesdy CP, Gribble MO, Naser AM. Sex-Specific Association of Ambient Temperature with Urine Biomarkers in Southwest Coastal Bangladesh. *Kidney Int Rep*. 2024 Mar 11;9(6):1860-1875. doi: 10.1016/j.ekir.2024.03.002. PMID: 38899224; PMCID: PMC11184407.
7. Mary A, Mzayek F, Lefler LL, Jiang YJ, Meadows Taylor M. Case Management in Prevention of 30-Day Readmission in Post-Coronary Artery Bypass Graft Surgery. *Prof Case Manag*. 2024 Mar 1. doi: 10.1097/NCM.0000000000000718. Epub ahead of print. PMID: 38421737.
8. Morgan I. Bromley, Easter P. Gain, Mark'Quest Ajoku, Meredith A. Ray, Fawaz Mzayek, Satish K. Kedia, Xinhua Yu, Burden of Chronic and Heavy Opioid Use Among Elderly Community Dwellers in the U.S., *AJPM Focus*, Volume 3, Issue 2, 2024
9. Shukr B, Bartelli D, Ward KD, Ray M, Maziak W, Mzayek F. The effect of exposure to tobacco smoking-related media messages on youths' smoking behavior in Jordan: A

- longitudinal, school-based study. *Prev Med*. 2022. DOI: <https://doi.org/10.1016/j.ypmed.2022.107386>
10. Wogksch MD, Finch ER, Nolan VG, Smeltzer MP, Mzayek F, Goodenough CG, et al. Energy cost of walking in obese survivors of acute lymphoblastic leukemia: A report from the St. Jude Lifetime Cohort. *Front Pediatr*. 2022. PMID: 36389386; PMCID: PMC9650430; DOI: 10.3389/fped.2022.976012
  11. Kheirallah KA, Al-Zureikat SH, Al-Mistarehi AH, Alsulaiman JW, AlQudah M, Khassawneh AH, Loretto L, Bellizzi S, Mzayek F, Elbarazi I, Serlin IA. The Association of Conflict-Related Trauma with Markers of Mental Health Among Syrian Refugee Women: The Role of Social Support and Post-Traumatic Growth. *Int J Womens Health*. 2022;14:1251-1266. doi: 10.2147/IJWH.S360465. PMID: 36092127; PMCID: PMC9462433.
  12. Rathod, R., Zhang, H., Karmaus, W., Ewart, S., Mzayek F., Arshad SH., & Holloway J. Association of childhood BMI trajectory with post-adolescent and adult lung function is mediated by pre-adolescent DNA methylation. *Respir Res*, 23, 194 (2022). <https://doi.org/10.1186/s12931-022-02089-4>
  13. Rui Luo, Hongmei Zhang, Nandini Mukherjee, Wilfried Karmaus, Veeresh Patil, Hasan Arshad, & Fawaz Mzayek. *Epigenomics*. 2021. PMCID: PMC8503801. DOI: 10.2217/epi-2020-0433
  14. Wendy Kliever, Khalid A. Kheirallah, Caroline O. Cobb, Jomana W. Alsulaiman, Fawaz Mzayek, and Hashem Jaddou. Trauma exposure and post-traumatic stress symptoms among Syrian refugee youth in Jordan: Social support and gender as moderators. *Intranational Journal of Psychology*.2021. doi: 10.1002/ijop.12695
  15. Sunny SK, Zhang H, Relton CL, Ring S, Kadalayil L, Mzayek F, Ewart S, Holloway JW, Arshad SH. Sex-specific longitudinal association of DNA methylation with lung function. *ERJ Open Res*. 2021;7(3):00127-2021. doi: 10.1183/23120541.00127-2021. PMID: 34235211
  16. Sunny SK, Zhang H, Mzayek F, Relton CL, Ring S, Henderson AJ, Ewart S, Holloway JW, Arshad SH. Pre-adolescence DNA methylation is associated with lung trajectories from pre-adolescence to adulthood. *Clin Epigenetics*. 2021 Jan 6;13(1):5. doi: 10.1186/s13148-020-00992-5.
  17. Kheirallah KA, Alsinglawi B, Alzoubi A, Saidan MN, Mubin O, Alorjani MS, Mzayek F. The Effect of Strict State Measures on the Epidemiologic Curve of COVID-19 Infection in the Context of a Developing Country: A Simulation from Jordan. *Int J Environ Res Public Health*. 2020;17(18):6530. doi: 10.3390/ijerph17186530. PMID: 32911738; PMCID: PMC7558493.
  18. Prachi Chavan, Satish K. Kedia, Fawaz Mzayek, SangNam Ahn, Xinhua Yu. Impact of self-assessed health status and physical and functional limitations on healthcare utilization and mortality among older cancer survivors in US. *Aging Clinical and Experimental Research*. 2020. <https://doi.org/10.1007/s40520-020-01654-5>

19. Grant CG, Costillo A, Fleck SB, Lu F, Kabir UY, Mzayek F. Using Education to Improve HBA1c in Older Adults with Diabetes. *J Diabetes Manag Metab*. 2020: JDMM-10009
20. Shen Y, Zhang H, Jiang Y, Mzayek F, Arshad H, Karmaus W. Maternal Birth Weight and BMI Mediate the Transgenerational Effect of Grandmaternal BMI on Grandchild's Birth Weight. *Obesity*, 2020;28, 647-654. doi:10.1002/oby.22680
21. Kheirallah K, Cobb C, Alsulaiman J, Alzoubi A, Hoeteger C, Kliwer W, and Mzayek F. Trauma Exposure, Mental Health, and Tobacco Use among Vulnerable Syrian Refugee Youth. *Journal of Public Health*, 2019. doi:10.1093/pubmed/fdz128
22. Mzayek F, Wang L, Relyea G, Yu X, Terry JG, Carr J, et al. Impact of Abdominal Obesity on Proximal and Distal Aorta Wall Thickness in African Americans: The Jackson Heart Study. *Obesity*, 2019;27:1527-32. DOI.org/10.1002/oby.22563
23. Amoah D, Nolan V, Relyea G, Gurney G, Xinhua Yu, Tylavsky F, Mzayek F. Factors Associated with Residential Mobility During Pregnancy. *Women and Health*, 2017;58:955-66. DOI: 10.1080/03630242.2017.1372843
24. Yang Y, Jiang Y, Xu Y, Mzayek F, Levy M. A cross-sectional study of the influence of neighborhood environment on childhood overweight and obesity: Variation by age, gender, and environment characteristics. *Preventive Medicine*, 2017;108:23-8. DOI:10.1016/j.ypmed.2017.12.021
25. Annapoorna M, Mzayek F. Clinical Factors Associated with Postoperative Length of Time on Ventilator among Coronary Artery Graft Surgery Patients. *International Journal of Nursing and Medical Science*, 2016;5:489-503.
26. Mzayek F, Cruickshank JK, Amoah D, Srinivasan S, Chen W, Berenson GS. Birth weight was longitudinally associated with cardiometabolic risk markers in mid-adulthood. *Ann Epidemiol*, 2016;26:643-7. doi: 10.1016/j.annepidem.2016.07.013.
27. Ware J, Mzayek F, and Levy M. Lessons Learned in a Breastfeeding Media Campaign. *Breastfeeding Medicine*. 2016;11:380-85. doi:10.1089/bfm.2016.0047.
28. Veeranki SP, Alzyoud S, Dierking L, Kheriallah K, Mzayek F, Pbert L, & Ward KD. Associations of Adolescents' Cigarette, Waterpipe, and Dual Tobacco Use With Parental Tobacco Use. *Nicotine Tob Res*, 2016;18:879-84. doi: 10.1093/ntr/ntv224. PMCID: PMC4138134
29. Kheirallah KA, Veeranki SP, Alzyoud S, Alzoubi A, Walker L, Khader Y, Mzayek F, Pbert L, Ward, KD. Collision of Youth Waterpipe Use and Cigarette Smoking Epidemics in Arab Nations. *J Substance Use*, 2016;21:530-36. Doi: org/10.3109/14659891.2015.1082159
30. Jaber R, Mzayek F, Madhivanan P, Khader Y, Maziak W. Predictors of Cigarette Smoking Progression Among a School-Based Sample of Adolescents in Irbid, Jordan: A Longitudinal Study (2008-2011). *Nicotine Tob Res*. 2016;18:403-9. doi: 10.1093/ntr/ntv100
31. Jaber R, Madhivanan P, Khader Y, Mzayek F, Ward K, Maziak W. Predictors of waterpipe smoking progression among youth in Irbid, Jordan: A longitudinal study (2008–2011). *Drug and alcohol dependence* 2015;153:265-270. doi.org/10.1016/j.drugalcdep.2015.05.008

32. Pirkey P, Kedia S, Webb L, Relyea G, Alam MM, and Mzayek F. Cigarette Smoking Initiation among Substance Abuse Treatment Population: How applicable is the Gateway Hypothesis? *J Addiction Prevention*. 2015;3:1-7
33. Jaber R, Madhivanan P, Veledar E, Khader Y, Mzayek F, Maziak W. Waterpipe a gateway to cigarette smoking initiation among adolescents in Irbid, Jordan: a longitudinal study. *Int J Tuberc Lung Dis*, 2015;19:481–487. doi: org/10.5588/ijtld.14.0869
34. Ward K, Ahn S, Mzayek F, Al Ali R, Rastam S, Asfar T, Fouad F, Maziak W. The Relationship Between Waterpipe Smoking and Body Weight: Population-Based Findings From Syria *Nicotine Tob Res*, 2015;17: 34-40. doi:10.1093/ntr/ntu121
35. McKelvey K, Attonito J, Madhivanan P, Jaber R, Yi Q, Mzayek F. Maziak W. Determinants of Waterpipe Smoking Initiation Among School Children in Irbid, Jordan: A 4-year Longitudinal Analysis. *Drug and Alcohol Dependence*, 2014;142:307–13. doi: 10.1016/j.drugalcdep.2014.06.038
36. McKelvey K, Attonito J, Madhivanan P, Yi Q, Mzayek F. Maziak W. Determinants of Cigarette Smoking Initiation in Jordanian Schoolchildren: Longitudinal Analysis. *Nicotine Tob Res*, 2014;0:1-7. doi:10.1093/ntr/ntu165
37. Jia C, Ward K, Mzayek F, Relyea G. Blood 2,5-dimethylfuran as a sensitive and specific biomarker for cigarette smoking. *Biomarkers*, 2014;19:457–62. doi: 10.3109/1354750X.2014.935956
38. Kirby J, Dolendo M, Guimera D, Castillo C, Johnson K, Mzayek F, et al. Predictors of Wait-Time for Antibiotic Initiation and Association of Wait-Time With Hospital Length of Stay And ICU Admission Among Children With Cancer at the Southern Philippines Medical Center. *Pediatr Blood Cancer*, 2013;9999:1-7. doi: 10.1002/pbc.24836
39. McKelvey K, Wilcox ML, Madhivanan P, Mzayek F, Khader Y, Wasim Maziak W. Time trends of cigarette and waterpipe smoking among a cohort of school children in Irbid, Jordan, 2008–11. *Euro J Pub Health* 2013; 23:862-7. doi:10.1093/eurpub/ckt140
40. Mzayek F. Epigenetics: A New Peek into the Black Box of Behavior. *J Transl Med Epidemiol* 2013;1:1005
41. Nottage KA, Hankins JS, Smeltzer M, Mzayek F, Wang WC, et al. Hydroxyurea Use and Hospitalization Trends in a Comprehensive Pediatric Sickle Cell Program. *PLoS ONE* 2013;8: e72077. doi:10.1371/journal.pone.0072077
42. Al Ali R, Mzayek F, Rastam S, Fouad FM, O'Flaherty M, Capewell S, Maziak W. Forecasting future prevalence of type 2 diabetes mellitus in Syria. *BMC Public Health* 2013, 13:507. doi:10.1186/1471-2458-13-507
43. Okwechime, I.O., Segunmaru, H.D., Egarievwe, S.U., Mzayek, F., Kabagambe, E.K. and Aliyu, M.H. Quantification of cardiovascular disease research in West Africa, *Int. J. Behavioural and Healthcare Research*, 2013; 4, Nos. 3/4, pp.242–257.
44. Rastam S, Al Ali R, Maziak M, Mzayek F, Fouad MF, O'Flaherty M, Capewell S. Explaining the Increase in Coronary Heart Disease Mortality in Syria between 1996 and 2006. *BMC Public Health* 2012;12:754-62. PMID:22958443
45. Mzayek F, Khader Y, Eissenberg T, Al Ali R, Ward KD, Maziak W, MD. Patterns of Water-Pipe and Cigarette Smoking Initiation in Schoolchildren: Irbid Longitudinal Smoking Study. *Nicotine Tob Res* 2011;14:448-54. doi: 10.1093/ntr/ntu234



46. Mzayek F, Khader Y, Eissenberg T, Ward KD, Maziak W, MD. Design, Baseline Results of Irbid Longitudinal, School-based Smoking Study. *Am J Health Behav* 2011;35:746-755
47. Al Ali R, Rastam S, Fouad FM, Mzayek F, Maziak W. Modifiable Cardiovascular Risk Factors among Adults in Aleppo, Syria. *Int J Public Health* 2011. DOI 10.1007/s00038-011-0278-0
48. Mzayek F, Resnik D. International Biomedical Research and Research Ethics Training in Developing Countries. *J Clin Res Bioeth* 2010;103. doi:10.4172/2155-9627.1000103
49. Krogstad D, Diop S, Diallo A, Mzayek F, Keating J, Koita O, and Touré Y. Informed Consent in Developing and Developed Countries: the Rationale for Different Approaches. *AJTMH* 2010;83:743-47
50. Janka JJ, Koita O, Traoré B, Traoré JM, Mzayek F, Sachdev V, Wang X, Sanogo K, Sangaré L, Mendelsohn L, Masur H, Kato GJ, Gladwin MT, and Krogstad D. Increased Pulmonary Pressures and Myocardial Wall Stress in Children with Severe Malaria. *JID* 2010;202:791-800
51. Al Bache N, Al Ali R, Rastam S, Fouad F, Mzayek F, Maziak W. Epidemiology of Type 2 Diabetes in Aleppo, Syria. *Journal of Diabetes* 2010;2:85-91
52. Mzayek F, Sherwin R, Hughes J, Hassig S, Srinivasan SR, Chen W, Berenson GS. The association of birth weight with arterial stiffness in mid-adulthood: The Bogalusa Heart Study. *J Epidemiol Comm Health* 2009;63:729-733
53. Mzayek F, Ylöstalo J, Krogstad DJ. Apoptosis of Endothelial Cells in Bacterial Sepsis and Severe *P. falciparum* Malaria: Do We Know Enough to Consider Clinical Trials? (editorial) *Critical Care Medicine* 2008;36:2690-92
54. Lanctot J, Stockton MB, Mzayek F, Read MC, McDevitt-Murphy M, & Ward KD. Effects of disasters on smoking and relapse: An exploratory study of Hurricane Katrina victims. *American Journal of Health Educations* 2008;39, 91-93
55. Mzayek F, Hassig S, Sherwin R, Hughes J, Chen W, Srinivasan S, Berenson G. The Relationship of Birth Weight with the Developmental Trends of Blood Pressure from Childhood through Mid-adulthood. The Bogalusa Heart Study. *Am J Epidemiol* 2007;166:413–20
56. Maziak W, Rastam S, Mzayek F, Ward KD, Eissenberg T, KEIL U. Cardiovascular Health among Adults in Syria: A Model from Developing Countries. *Annals of Epidemiology* 2007;17:713–20
57. Mzayek F, Deng H, Mather FJ, Wasilevich EC, Liu H, et al. Randomized dose-ranging controlled trial of AQ-13, a candidate antimalarial, and chloroquine in healthy volunteers. *PLOS Clinical Trials*. 2007;2: e6.
58. Ward K, Eissenberg T, Rastam S, Asfar T, Mzayek F, Fouad MF, Hammal F, Mock J, and Maziak W. The Tobacco Epidemic in Syria. *Tobacco Control* 2006;15 (Suppl 1): i24-i29
59. Maziak W, Ward K, Mzayek F, Rastam S, Bachir ME, Fouad MF, et al. Mapping the health and environmental situation in informal zones in Aleppo, Syria: report from the Aleppo household survey. *International Archives of Occupational and Environmental Health*. 2005;78:547-58.

60. Maziak W, Ward DK, Rastam S, Mzayek F, and Eissenberg T. Extent of Exposure to Environmental Tobacco Smoke (ETS) and its Dose-response Relation to Respiratory Health among Adults. *Respiratory Research* 2005;6:13-23
61. Cruickshank JK, Mzayek F, Liu L, Kieltyka L, Sherwin R, et al. Origins of the "Black/White" Differences in Blood Pressure; Roles of Birth Weight, Postnatal Growth, Early Blood Pressure, and Adolescent Body Size: The Bogalusa Heart Study. *Hypertension* 2005;111:1932-37
62. Davison B, Kaack MB, Rogers LB, Mzayek F, Rasmussen KK, et al. Alterations in the Profile of Blood Cell Types During Malaria in Previously Unexposed Primigravidae Monkeys. *Journal of Infectious Disease* 2005;191:1940-52
63. Mzayek F, Sherwin R, Fonseca V, et al. Differential Associations of Birth Weight with Multiple Cardiovascular Risk Variables in Blacks and Whites: The Bogalusa Heart Study. *Annals of Epidemiology* 2004;14:258-64
64. Mzayek F, Asfar T, Rustom S, Maziak W. Incidence of Neoplastic Disease in Aleppo, Syria. *European Journal of Cancer Prevention* 2002;11:503-7
65. Maziak W, Asfar T, Mzayek F, Fouad M F, Kilzieh N. Socio-Demographic Correlates of Psychiatric Morbidity among Low-Income Women in Aleppo, Syria. *Social Science and Medicine* 2002;54:1419-27
66. Maziak W, Asfar T, Mzayek F. Socio-Demographic Determinants of Smoking among Low-Income Women in Aleppo, Syria. *The International Journal of Tuberculosis and Lung Diseases* 2001;5:307-12
67. Maziak W, Mzayek F, Devereaux AV. Dynamics of Cigarette Smoking During the Military Service in Syria. *The International journal of Tuberculosis and Lung diseases* 2001;5(3):292-96.
68. Maziak W, Mzayek F. Characterization of the Smoking Habits among High School Students in Syria. *European Journal of Epidemiology* 2000;17:1169-76
69. Maziak W, Mzayek F. Dynamics of Tobacco Smoking Among Educated Youths in Aleppo-Syria. *European Journal of Epidemiology* 2000;16:769-72
70. Maziak W, Mzayek F, Al Moushareff M. Smoking Behaviors among Schoolteachers in Northern Syria. *Eastern Mediterranean Health Journal* 2000;6:352-8
71. Maziak W, Mzayek F, al-Musharref M. Effects of Environmental Tobacco Smoke on the Health of Children in the Syrian Arab Republic. *East Mediterr Health Journal* 1999; 5: 690-697.
72. Maziak W, Mzayek F. Evaluation of Mail Surveys for the Assessment of Tobacco Use among Adults in Aleppo-Syria. *Saudi Medical Journal* 1999;20:224-227
73. Maziak W, Mzayek F, Asfar T, Hassig SE. Smoking among Physicians in Syria: Do as I Say not as I Do. *Annals of Saud Medicine*. 1999;19:253-56
74. Maziak W, Mzayek F, M Al-Musharref. Effects of environmental tobacco smoke on the health of children in the Syrian Arab Republic. *Eastern Mediterranean Health Journal* 1999;5:690-7

\* First author.

## Peer-reviewed Abstracts, Scientific presentations, and Books

1. Association between Weight-Adjusted Waist-Index and sleep disorders in US adults: Results from 2005-2008 National Health and Nutrition Examination Survey. Edmore Madondo, BSc, MPH, Paddington T. Mundagowa, BSc, MPH, Ayesha Mukhopadhyay, MD, MPH, Debra Bartelli<sup>1</sup>, BSE, MA, MPH, DrPH, Yu Jiang, BS, MS, PhD and Fawaz Mzayek, MD, MPH, PhD. APHA meeting, Minneapolis, MN, November 2024
2. Ogunsanmi D\*, Surbhi S, Grant C, Mzayek F, Butterworth S, Ellis A, Bailey J. Assessing Practice Characteristics That Impact the Capacity of a Practice to Improve Cardiovascular Preventive Care. Poster presentation at Academy Health 2024 annual research meeting, Baltimore, MD.
3. Augusta T, Mary A, Sohye L, Mzayek F, Woodbury-Moore C. A Correlational Study On Spiritual And Religious Well-being, Social Determinants Of Health, And Self-efficacy For Appropriate Medication Use Among African- American Women With Hypertension. AHA Hypertension Scientific Sessions 2023
4. Surbhi S, Pakker AR, Mamudu H, Mzayek F, Grant C, Bailey JE. Comparing the Appropriateness of the CMS/NQF Tobacco Use Screening and Cessation Intervention Measure with an Alternative Real-world Measurement Approach. Poster presentation at Academy Health 2023 annual research meeting, Seattle, WA.
5. Levy M, Nolan VG, Bartelli D, Mzayek F, Yu X, Frank D, Zanskas S, Auz L, Alabere R, Deal C, Jacobo A, Freeman-Foster T, Black A, Joshi A. Transforming Academia for Equity: A Model for Schools of Public Health. Presented to the 2023 Association of Schools and Programs of Public Health (ASPPH) Annual Meeting, Arlington, VA. March 2023.
6. Ashlea Semmens, MD, Andrea N. Curry, PhD, MHA, Michael Berry, MD, Richard Fine, MD, Richard Gilmore, MD, Yoriann Hull, Gene Lamanilao, Fawaz Mzayek, MD, MPH, PhD, Gregory Vidal, MD, PhD. Retrospective Evaluation of Health Disparities in De Novo Metastatic Breast Cancer. ASBrS, Boston, MA, 2023.
7. Ayesha Mukhopadhyay, MBBS, MBA, MPH, Momenul Hoque, Mahbubur Rahman, Solaiman Doza, Farjana Jahan, Alberto Caban-Martinez, Romaina Iqbal, Fawaz Mzayek, Lora Fleming, Faruk Ahmed, Anwar Musah, Matthew Gribble, Csaba Kovesdy, Xichen Mou, Abu Mohd Naser. The direct and urinary electrolyte-mediated effects of ambient temperature on systolic blood pressure in tropical coastal Bangladesh. (APHA 2022 Annual Meeting)
8. Pardasani S, Homsy M, Mzayek F, Nolan V, Caniza M. An Educational Needs Assessment of Oral Health Knowledge, Attitude and Practices Among Graduates of St. Jude Global Infectious Diseases Training Programs. *Journal of the Pediatric Infectious Diseases Society*. 2021;10:S21
9. Shadia Sunny, H Zhang, F Mzayek, SH Arshad, JW Holloway. DNA Methylation at Earlier Ages Is Associated with Lung Function Later in Life. *AJRCCM* 2020;201:A4605
10. Patel R, Ray M, Zhang H, Mzayek F. Risk factors of myocardial infarction at later age in healthy middle-aged men. *American Journal of Public Health*, 2020. Presented as ePoster at Virtual Annual meeting of American Public Health Association, October 2020.

11. Matthew D. Wogksch, Bruce T. Wolcott, Sean T. O'Neil, Amy E. Sketch, Vikki G. Nolan, Matthew P. Smeltzer, Fawaz Mzayek, et al. Fitness, Cardiovascular Disease And Mortality In Childhood Cancer Survivors: A St. Jude Lifetime Cohort. 2020
12. Patel R, Ray M, Zhang H, Mzayek F. "Risk factors of Myocardial Infarction at later age in healthy middle-aged men—a new approach for analyzing large trial data" Presented at Data Science Cluster Research presentation at University of Memphis, November 2019
13. Luo R, Mukherijee N, Arshad H, Holloway JW, Zhang H, Karmaus WJ, and Mzayek F. Transgenerational Effect of Smoking During Pregnancy on DNA Methylation of the Newborn. NIDA Genetics Consortium Meeting, 2019.
14. Julie Ware, Marion Hare, Fawaz Mzayek. Investigating Community Gaps in Breastfeeding Support. *Pediatrics* 2018;141:291
15. Reish L, Aizezi S, Sweat D, Ray M, Mzayek F. Investigating Missed Opportunities for Prevention of Mycobacterium Tuberculosis Transmission Within Contacts of Tuberculosis Cases in Shelby County, Tennessee. *Annals of Epidemiology*. 2017;27(8):521-522.
16. Wang L, Chernov C, Nolan V, Perlman S, Relyea G, Mzayek F, Gwynn C. Predictors of High Allostatic Load in New York City Residents, NYC HANES 2013-14. *Annals of Epidemiology*. 2017;27(8):510.
17. Ware J, Mzayek F, Levy M. Lessons Learned in Breastfeeding Media Campaign. National Conference of American Academy of Pediatrics, San Diego, CA, 2014
18. Ware J, Mzayek F, Levy M. Breastfeeding attitudes, beliefs, and practices in low income African American women in shelby county, Tennessee, before a planned media campaign. APHA 141<sup>st</sup> meeting, 2013, Boston, MA
19. F Mzayek, VG Nolan, G Relyea, MA Caniza. Predictors Of Wait-Time For Antibiotic Initiation And Association Of Wait-Time With Hospital Length Of Stay And ICU Admission Among Children With Cancer At The Southern Philippines Medical Center. St. Jude Children Hospital, Memphis. 2013
20. Amoah D, Mzayek F, Chen W, Srinivasan S, Berenson G. The Association of Birth Weight with Metabolic Markers of Cardiovascular Risk Later in Life. The APHA 141<sup>st</sup> Annual Meeting, Boston, MA 2013.
21. Kirby J, Johnson K, Castillo C, Dolendo M, Guimera D, Mzayek F, Nolan V, Relyea G, Caniza M. Relationship between Wait-time for Antibiotic Initiation and Outcomes of Hospitalization among Children with Cancer in Davao, Philippines. Faculty Poster Session. St. Jude Children Research Hospital. Memphis, TN 2011.
22. Amoah D, Mzayek F, Levy M, Defouw J. Perceived Risk of Hypertension in College Students and Related Lifestyles. Tennessee Public Health Association Annual Meeting, Nashville, TN 2010
23. Fawaz Mzayek, Haiyan Deng, M Azam Hadi, Vidya Mave, Frances J Mather, Christopher Goodenough, David M Mushatt, Juan J Lertora, Donald Krogstad. Randomized clinical trial (RCT) with a crossover study design to examine the safety and pharmacokinetics of a 2100 mg dose of AQ-13 and the effects of a standard fatty meal on its bioavailability. *American Journal Of Tropical Medicine And Hygiene* 2009;81:252

24. Bracken K, McDevitt-Murphy ME, Ward K, Stockton M, Lanctot J, Relyea G, Mzayek F, Forde D, & Read M. Ethnic Differences in Exposure to Hurricane Katrina and Resulting PTSD Symptoms. The 25<sup>th</sup> Annual Meeting of The International Society of Traumatic Stress Studies, Atlanta, GA, Nov. 2009
25. Meghan E McDevitt-Murphy, Kenneth D Ward, Michelle L Stockton, Jennifer Q Lanctot, George Relyea, Fawaz Mzayek, David R Forde, Mary C Read. Relations between PTSD symptoms and alcohol use among ever-smokers surviving hurricane Katrina. *Alcohol* 2009;42 (4):331-331
26. Jacqueline Janka, Ousmane A Koita, Maya Josepha, Broulaye Traore, Fawaz Mzayek, Lansana Sangare, Ousmane Cisse, Laurel Mendelsohn, Xunde Wang, Henry Masur, Mark Gladwin, Donald J Krogstad. Nitric Oxide Depletion And Endothelial Dysfunction In Children With Malaria And Marked Anemia. *American Journal of Tropical Medicine and Hygiene* 2008;79 (6), 347-34
27. Mzayek F, Hadi C, Melek B, Lertora JLJ, Krogstad DJ. Phase 1 Studies of a Candidate Aminoquinoline Antimalarial (AQ-13) in Humans. 7<sup>th</sup> Annual ICSB/ASP meeting, Oxford, MS, April 2008
28. Ward KD, Relyea G, Stockton ML, Forde DR, Lanctot JQ, McDevitt-Murphy ME, Read MC, Mzayek F. Effects of Hurricane Katrina on use of tobacco, alcohol, and marijuana, Annual meeting of the American Academy of Health Behavior, Savannah, GA, Dec. 2007
29. McDevitt-Murphy ME, Ward KD, Stockton ML, Lanctot JQ, Relyea G, Mzayek F, et al. Symptoms of PTSD among Ever-Smokers Surviving Hurricane Katrina. Annual meeting of the Association for Behavioral and Cognitive Therapies, Philadelphia, PA, Nov. 2007
30. Mzayek F, Koita O, Sissako A, Doumbia S, Krogstad D. Study Design for Antimalarial Development: Increasing the Efficiency of Phase II Efficacy Studies in Human Subjects. ASTMH 56<sup>th</sup> Meeting, Philadelphia, PA, Nov. 2007
31. Mzayek F, Deng H, Hadi A, Lertora J, Krogstad D. Two-stage Crossover Clinical Trial to Test the Food Effect on 2100 mg dose of AQ-13. ASTMH 56<sup>th</sup> Meeting, Philadelphia, PA, Nov. 2007
32. Krogstad D, Haiyan Deng, Mzayek F, Cogswell F, Hocart S, Koita O, Avery M, Cutler S. Rethinking the Development of Antimalarial Combinations. ASTMH 56<sup>th</sup> Meeting, Philadelphia, PA, Nov. 2007
33. Mzayek F, Melek BH, Krogstad DJ: Evaluating the effects of AQ-13 and chloroquine (CQ) on the cardiac QT interval. Abstract 868, presented at the 55<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine, Atlanta, GA, November 2006. *Am J Trop Med Hyg* 2006; 75(5): 250
34. Koita OA, Touré A, Cissé M, Mzayek F, Krogstad DJ: Normal ranges for chemistry and hematology panels in Mali. Abstract 331, presented at the 55<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine, Atlanta, GA, November 2006. *Am J Trop Med Hyg* 2006; 75(5): 96.
35. MB Stockton, KD Ward, F Mzayek, S Rastam, T Asfar, FM Fouad. Associations of cigarette and waterpipe smoking with body weight in the Aleppo Household Survey. The 13th World Conference on Tobacco OR Health.2006

36. Mzayek F, Hadi C, Deng H, Melek B, Lertora JL, Krogstad DJ: Phase 1 Studies of a candidate aminoquinoline antimalarial (AQ-13) in humans. Abstract 91, 54<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Washington, DC – December 2005. *Am J Trop Med Hyg* 2005; 73 (6): 31
37. Mzayek F, Melek B, Krogstad DJ: Assessment of the effect of a candidate antimalarial drug on QTc interval. Abstract 880, 53rd Annual Meeting of the American Society of Tropical Medicine and Hygiene, Miami Beach, FL – November 2004
38. Mzayek F, Deng H, Liu H, Mather FJ, Mushatt DM, Melek B, Lertora JLL, Krogstad DJ: Phase 1 Studies of AQ-13, an aminoquinoline active against chloroquine-resistant *Plasmodium falciparum*: dose adjustment based on pharmacokinetic comparison with chloroquine. Abstract 35, 52nd Annual Meeting of the American Society of Tropical Medicine and Hygiene, Philadelphia, PA – December 2003.
39. Deng H, Liu H, Mzayek F, Hocart SJ, Krogstad DJ: Identification of the major metabolite of AQ-13, an investigational aminoquinoline antimalarial. Abstract 659, 52nd Annual Meeting of the American Society of Tropical Medicine and Hygiene, Philadelphia, PA – December 2003.
40. JK Cruickshank, CP Beith, L Liu, F Mzayek, L Kieltyka, L Webber, R Sherwin, G Berenson. Origins of the 'black/white' difference in blood pressure: Roles of birth weight, postnatal growth, early blood pressure and current anthropometry. The Bogalusa Heart Study. *Pediatric Research* 53 (6), 24A-24A
41. Mzayek F, Sherwin R, Fonseca V, et al. Differential associations of birth weight with multiple cardiovascular risk variables in blacks and whites: The Bogalusa Heart Study. 2002 Southern Regional Meetings, New Orleans, LA. February 2002.
42. Maziak W, Mzayek F. 11<sup>th</sup> World Conference on Tobacco OR Health. Tobacco Control Country Profile 2000; 246-7.
43. Maziak W, Mzayek F. Smoking among high school students in Aleppo-Syria. *Am J Respir Crit Care Med* 1999;159(3): A488.
44. Mzayek F, and others. Principles of Emergency Management. Ministry of Health 1998. (Book, in Arabic).

#### Invited Presentations:

1. Epigenetics of Maternal Smoking During Pregnancy. Center for Health System Improvement, University of Tennessee Health Sciences Center, Memphis, 2021
2. Research Methods in Global Health, Global Child Health Program, St. Jude Children Hospital, Memphis, 2020.
3. Needs Assessment of Health-Related Environment. Shelby County Department of Health. 2013
4. The Burden of Cardiovascular Disease in Tennessee. Second Annual Evidence-Based Practice Stroke Conference. East Tennessee State University. Franklin, TN 2010

### **Professional Memberships**

- American Public Health Association

### **Areas of Professional Interest**

- Epigenetic mechanisms mediating the effect of environmental health determinants, with focus on maternal smoking during pregnancy
- Epidemiology of cardiovascular diseases and their risk factors, including tobacco smoking.
- Refugees' mental health and wellbeing
- Study design and methodology, including design of clinical trials, quality control, sampling methods, survey design, and data analysis and interpretation.
- Ethical issues in biomedical research

### **Research Support**

Multilevel factors affecting outcome disparities among Black women with breast cancer in Shelby County, TN (Access) study.

Funding agency	Gilead	
Amount of the award	\$29,956	
Role: (co-I)	(10% effort)	(2024-2025)

Transforming Academics for Equity

Funding agency	Robert Wood Johnson Foundation	
Amount of the award	\$175,000	
Role: (co-I)	(10% effort)	(2024-2025)

### **Completed:**

Tennessee Heart Health Network: Implementing Patient-Centered Practices in Primary Care to Improve Cardiovascular Health. PI: James Baily (UTHSC)

Funding agency	AHRQ-HHS	
Amount of the award	\$127,062	
Role: site PI	(20% effort)	(2021-2024)

COVID-19 Health Disparities in Communities that are at High-Risk and Underserved. PI: Marian Levy

Funding agency:	CDC	
Amount of the award	\$927,428	
Role: Co-investigator	10% effort	(2021-2023)

Eradicating Systemic Racism and Promoting Social Justice through Academic Public Health (Marian Levy PI)

Funding agency:	Robert Wood Johnson Foundation	
Amount of the reward	\$273,060	
Role: Co-investigator	5% effort	(2022-2023)

Tennessee Community-Engagement Research Alliance Against COVID-19 in Disproportionately Affected Communities (TNCEAL) (Paul Juarez, PI, Meharry College)

Funding agency	NIH-NHLBI	
Amount of the award	\$49,823	
Role: Co-investigator	10% effort	2020-2022

Faculty research grant. New approach for analyzing multi-dimensional data of epidemiological studies

Funding Agency	FedEx Institute	
Amount of the award	\$4,200	
Role: (PI)		2020-2021

Faculty research grant. Revisiting MRFIT randomized clinical trial (secondary analysis)

Funding agency	UOM Research Foundation	
Amount of the award	\$22,527	
Role: (PI)		2016-2017

Faculty Research Grant. The longitudinal association of hypertension and type 2 diabetes with cardiovascular outcomes

Funding agency	UOM	
Amount of award	\$6,500	
Role: PI		2011-2012

DA 024876. Assessing factors associated with early stages of tobacco smoking. (Maziak, PI)

Funding agency	NIH	
Amount of the award	\$1,701,626	
Role: Co-investigator	20% effort	2007-2013

R21 AI 074058-01A1. Informed Consent in Illiterate Subjects. (Krogstad, PI)

Funding agency	NIH	
Role Co-investigator	(15% effort)	2009-2011

R21 DA021782. A population-based study to assess post-Katrina stress effects on substance abuse and smoking relapse.

Funding Agency:	CDC	
Role Co-investigator	(20% effort)	2006-2008

AHA 0315042B. The association of birth weight with hemodynamic and metabolic markers of later CVD risk factors.

Funding agency:	American Heart Association	
Amount of the Award:	\$64,800	2003-2005