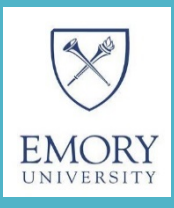




METRIC T32 News and Updates

Multidisciplinary Research Training to Reduce Inequalities
in Cardiovascular Health

November 2020



Welcome Abu Mohammed Naser Titu (Naser), New Fellow on the METRIC T32

Naser trained as a physician in Dhaka, Bangladesh, and received a PhD in Environmental Health Sciences from RSPH in 2018 (dissertation mentor: Tom Clasen). Subsequently he was a postdoctoral fellow in the Emory Global Diabetes Research Center, until he joined our program in September 2020.

His interests are on the cardiometabolic health benefits of mineral contents in drinking water. He has conducted large studies in the Bangladeshi population in this area. His long-term goals are to identify best practices to enhance and preserve mineral density in water and food products.



Congratulations and best wishes to Meghan Angley who has left the METRIC T32

Meghan, PhD student in Epidemiology, joined the METRIC as a predoctoral fellow in September 2019. She received her own funding through her **NIH F31** application, entitled "*Cardiovascular Risks Associated with Pregnancy Among African American Women with Systemic Lupus Erythematosus.*" Thus, she has "given back" her T32 slot in September 2020, although she remains part of the METRIC program. Her mentor is Penny Howards.



Updates on METRIC Fellows and Alumni

Grants and Awards

Meghan Angley, in addition to received funding for her F31, was selected to receive the 2020 **Anoop Sharma Award** for Research on Underserved Populations, in the Department of Epidemiology.

Ryan Saelee, PhD student in Epidemiology, who finished the METRIC program as a predoctoral fellow in 2018, received funding on his **NIH F31** application entitled "*Lifecourse Approach to Racial Disparities in Sleep and implications on Cardiometabolic Risk during Adulthood.*" His mentor is Shakira Suglia.

Samaah Sullivan, PhD, instructor in Epidemiology, who finished the METRIC program as postdoc in 2018, received funding for her **NIH K01** application, entitled "*Stress, Vascular Function and Inflammation as Mechanisms of Sex Differences in Cardiovascular Risk.*" This past year Samaah also received an Emory SCORE pilot grant award entitled "*The Influence of Stress and Ovarian Aging on Cardiovascular Risk.*" Her mentor is Viola Vaccarino.

Telisa Spikes, RN, PhD, who is in her second year as postdoctoral fellow in the METRIC T32, received funding from the NIH for the **Loan Repayment Program** grant titled "*Race Related Stressors and Cardiovascular Risk in Young and Early Middle Age African American Women*". Her mentor is Tené Lewis.

Dissertation Proposals and Defenses

Izraelle (Izzy) McKinnon has successfully defended her dissertation proposal on October 29, 2020, entitled “*Residential and Activity Space Racial Composition and Cardiovascular Risk in Black Women: An examination of potential neighborhood- and individual-level protective factors.*” Her committee includes Tené T. Lewis (chair), Alvaro Alonso, Natalie Crawford, and Michael Kramer.

Selected Publications from Fellows and Alumni in 2020

[Sex differences in the inflammatory response to stress and risk of adverse cardiovascular outcomes among patients with coronary heart disease.](#)

Sullivan S, Young A, Hammadah M, Lima BB, Levantsevych O, Ko YA, Pearce BD, Shah AJ, Kim JH, Moazzami K, Driggers EG, Haffar A, Ward L, Herring I, Hankus A, Lewis TT, Mehta PK, Douglas Bremner J, Raggi P, Quyyumi A, Vaccarino V. *Brain Behav Immun*. 2020 Nov;90:294-302. doi: 10.1016/j.bbi.2020.09.001. Epub 2020 Sep 8. PubMed PMID: 32916271; NIHMSID:NIHMS1632057.

[Trends in Blood Pressure Control Among US Adults With Hypertension, 1999-2000 to 2017-2018.](#)

Muntner P, **Hardy ST**, Fine LJ, Jaeger BC, Wozniak G, Levitan EB, Colantonio LD. *JAMA*. 2020 Sep 22;324(12):1190-1200. doi: 10.1001/jama.2020.14545.

[An activity space approach to understanding how food access is associated with dietary intake and BMI among urban, low-income African American women.](#)

Raskind IG, Kegler MC, Girard AW, Dunlop AL, Kramer MR. *Health Place*. 2020 Oct 6;66:102458. doi: 10.1016/j.healthplace.2020.102458. PubMed PMID: 33035746; NIHMSID:NIHMS1635577.

[Pervasive Discrimination and Allostatic Load in African American and White Adults.](#)

Van Dyke ME, Baumhofer NK, Slopen N, Mujahid MS, Clark CR, Williams DR, Lewis TT. *Psychosom Med*. 2020 Apr;82(3):316-323. doi: 10.1097/PSY.0000000000000788. PMID: 32108740

[Circulating Progenitor Cells and Cognitive Impairment in Men and Women with Coronary Artery Disease.](#)

Moazzami K, Wittbrodt MT, Lima BB, Kim JH, Hammadah M, Ko YA, Obideen M, Abdelhadi N, Kaseer B, Gafeer MM, Nye JA, Shah AJ, Ward L, Raggi P, Waller EK, Bremner JD, Quyyumi AA, Vaccarino V. *J Alzheimers Dis*. 2020;74(2):659-668. doi: 10.3233/JAD-191063. PMID: 32083582

[Association Between Change in Circulating Progenitor Cells During Exercise Stress and Risk of Adverse Cardiovascular Events in Patients With Coronary Artery Disease.](#)

Moazzami K, Lima BB, Hammadah M, Ramadan R, Al Mheid I, Kim JH, Alkholder A, Obideen M, Levantsevych O, Shah A, Liu C, Bremner JD, Kutner M, Sun YV, Waller EK, Hesaroieh IG, Raggi P, Vaccarino V, Quyyumi AA. *JAMA Cardiol*. 2020 Feb 1;5(2):147-155. doi: 10.1001/jamacardio.2019.4528. PMID: 31799987

[Atrial Fibrillation, Brain Volumes, and Subclinical Cerebrovascular Disease \(from the Atherosclerosis Risk in Communities Neurocognitive Study \[ARIC-NCS\]\).](#)

Moazzami K, Shao IY, Chen LY, Lutsey PL, Jack CR Jr, Mosley T, Joyner DA, Gottesman R, Alonso A. *Am J Cardiol*. 2020 Jan 15;125(2):222-228. doi: 10.1016/j.amjcard.2019.10.010. Epub 2019 Oct 26. PMID: 31771759

[Neighborhood Environment Measurements and Anthropometric Indicators of Obesity: Results from the Women and Their Children's Health \(WaTCH\) Study.](#)

Sullivan SM, Peters ES, Trapido EJ, Oral E, Scribner RA, Rung AL. *Environ Behav*. 2018 Nov;50(9):1032-1055. doi: 10.1177/0013916517726827. Epub 2017 Aug 20. PMID: 31571678

[Social regulation of inflammation related gene expression in the multi-ethnic study of atherosclerosis.](#)

Brown KM, Diez-Roux AV, Smith JA, Needham BL, Mukherjee B, Ware EB, Liu Y, Cole SW, Seeman TE, Kardina SLR. *Psychoneuroendocrinology*. 2020 Jul;117:104654. doi: 10.1016/j.psyneuen.2020.104654. Epub 2020 May 7. PMID: 32387875

[Association Between Mental Stress-Induced Inferior Frontal Cortex Activation and Angina in Coronary Artery Disease.](#)

Moazzami K, Wittbrodt MT, Alkhalaf M, Lima BB, Nye JA, Mehta PK, Quyyumi AA, Vaccarino V, Bremner JD, Shah AJ. *Circ Cardiovasc Imaging*. 2020 Aug;13(8):e010710. doi: 10.1161/CIRCIMAGING.120.010710. Epub 2020 Aug 10. PMID: 32772572

[Dietary Sodium Intake and Health Indicators: A Systematic Review of Published Literature between January 2015 and December 2019.](#)

Overwyk KJ, **Quader ZS**, Maalouf J, Bates M, Webster J, George MG, Merritt RK, Cogswell ME. *Adv Nutr*. 2020 Sep 1;11(5):1174-1200. doi: 10.1093/advances/nmaa049. PMID: 32449929

[Neural Correlates of Stress and Abdominal Obesity in Patients With Coronary Artery Disease.](#)

Moazzami K, Wittbrodt MT, Lima BB, Levantsevych O, Kaseer B, Martini A, Haffar A, Nye JA, Quyyumi AA, Shah A, Vaccarino V, Bremner JD. *Psychosom Med*. 2020 Apr;82(3):272-280. doi: 10.1097/PSY.0000000000000776.

[Associations between the Neighborhood Social Environment and Obesity Among Adolescents: Do Physical Activity, Screen Time, and Sleep Play a Role?](#)

Saelee R, Gazmararian JA, Haardörfer R, Suglia SF. *Health Place*. 2020 Jul;64:102380. doi: 10.1016/j.healthplace.2020.102380. Epub 2020 Jul 17. PMID: 32831579

[Anti-Müllerian hormone in African-American women with systemic lupus erythematosus.](#)

Angley M, Spencer JB, Lim SS, Howards PP. *Lupus Sci Med*. 2020 Nov;7(1):e000439. doi: 10.1136/lupus-2020-000439.

[Urinary Sodium Excretion and Blood Pressure Relationship across Methods of Evaluating the Completeness of 24-h Urine Collections.](#)

Naser AM, He FJ, Rahman M, Narayan KMV, Campbell NRC. *Nutrients*. 2020 Sep 11;12(9):2772. doi: 10.3390/nu12092772. PMID: 32932868

[Past Sodium Intake, Contemporary Sodium Intake, and Cardiometabolic Health in Southwest Coastal Bangladesh.](#)

Naser AM, Rahman M, Unicomb L, Doza S, Selim S, Chaity M, Luby SP, Anand S, Staimez L, Clasen TF, Gujral UP, Gribble MO, Narayan KMV. *J Am Heart Assoc*. 2020 Sep 15;9(18):e014978. doi: 10.1161/JAHA.119.014978. Epub 2020 Sep 2. PMID: 32875927

Please continue to submit your papers to PubMed Central and make sure **T32HL130025** is included as funding.

<https://www.nihms.nih.gov/db/sub.cgi>

Other Program Updates/Announcements

All Upcoming METRIC Events

- 11/18/2020, METRIC Career Development Conversations, Lauren McCullough & Natalie Crawford
- 11/20/2020, METRIC Seminar, Kelli Komro
- 12/9/2020, METRIC Research in Progress, Ye Ji Kim and TBD
- 12/18/2020, METRIC Seminar, Dayna Johnson
- 1/13/2021, METRIC Research in Progress, Naser Titu and Telisa Spikes
- 1/15/2021, METRIC Seminar, Julie Gazmararian
- 1/20/2021, METRIC Career Development Conversations, TBD
- 1/22/2021, METRIC Seminar, Heart Failure in African Americans: Differences and Disparities, Alanna Morris

• METRIC Seminars

- 11/20/2020, Kelli Komro
- 12/18/2020, Dayna Johnson
- 1/15/2021, Julie Gazmararian
- 1/22/2021, Alanna Morris

- **METRIC Research in Progress Series**

- 12/9/2020, Ye Ji Kim and TBD
- 1/13/2021, Naser Titu and Telisa Spikes

All current METRIC trainees are required to sign up in box: <https://emory.app.box.com/file/485753046311>

- **METRIC Career Development Conversation Series**

- 11/18/2020, Lauren McCullough & Natalie Crawford
- 1/20/2021, TBD

Please provide suggestions for topics here: https://docs.google.com/spreadsheets/d/1Qu_-_RFc60I4WZDEF66W6ULMeoO6uh3H4mpx_w03buE/edit#gid=830590726