8/17/2025.

Curriculum Vitae

Martin Tibuakuu, MD, MPH, FACC

Cardiologist, Missouri Heart Center

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Columbia, MO 65201
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Date of preparation: August 2025

PERSONAL DATA

Name: Martin Tibuakuu
Date of Birth: March 14, 1985
Birthplace: Takoradi, Ghana
Residency Status: Permanent Resident (Green Card)

Education & Training

07/2020 -07/2023	**Cardiology Fellow** The Johns Hopkins Hospital	Baltimore, MD
06/2017- 06/2020	**Resident Physician, Internal Medicine** St. Luke's Hospital	Chesterfield, MO
07/2014 – 05/2015	**M.P.H** Johns Hopkins University Bloomberg School of Public Health	Baltimore, MD
09/2005 – 12/2012	**M.D** University of Algiers	Algiers, Algeria

Research Experience

04/2016 – 6/2023 **Research Fellow**
Johns Hopkins Ciccarone Center — Baltimore, MD
My research focused on general preventive cardiology.

07/2015 – 06/2017 **Postdoctoral Fellow**
Department of Epidemiology, Johns Hopkins University. — Baltimore, MD
My research interests focused on general preventive cardiology and on the effects of environmental exposures such as air pollution on cardiovascular health.

09/2015 – 06/2017 **Research Fellow**
The American Heart Association Tobacco Regulation & Addiction Center (ATRAC) Fellowship for Early Career Investigators.
Investigated the association between cigarette smoking, systemic inflammation and subclinical atherosclerotic cardiovascular disease with the aim of identifying sensitive biomarkers of tobacco exposure that could be used to study novel tobacco products such as E-cigarettes following early exposure, and guide policy formulation regarding their use by the US FDA.

10/2014 – 05/2015 **Graduate Research Assistant**

Johns Hopkins Center for AIDS Research — Baltimore, MD
Was involved with data collection and analyses for the ALIVE Study

Board Certifications & Licenses

2020	American Board of Internal Medicine
2021	State of Maryland Medical License
2022	American Board of Echocardiography
2023	State of Missouri Medical License
2023	American Board of Cardiovascular Diseases

Honors

2020	2020 Paul Dudley White International Scholar – AHA QCOR Scientific Sessions
2015	Delta Omega National Public Health Honor Society
2014	MPH Field Experience Award, Johns Hopkins Bloomberg School of Public Health
2005	Best student in French language, University of Blida, Algeria

Leadership Experience

07/2016	2016 AHA/ASA Research Leaders Academy San Antonio, TX
07/2014 – 05/2015	Events Coordinator, Anna Baetjer Society for Public Health Practice. Johns Hopkins School of Public Health Created avenues for the MPH class of 2015 to put their classroom knowledge into public health practice Organized a school-wide field trip to PAHO, USAID and HHS in D.C. Co-organized a community involvement fair with The Student Outreach and Resource Center (SOURCE) of Johns Hopkins on September 17, 2014
08/2010	Organizer, Hepatitis B and C Awareness Campaign–Jirapa, Ghana Promoted public awareness of Hepatitis B and C infection in Jirapa community

Professional Memberships

06/2020–present	American College of Cardiology

Community Service and Volunteer Work

02/2015 – 12/2015 **Volunteer Physician**
Baltimore Rescue Mission Baltimore, MD
Provided free first aid care, alongside Dr. John S. Dalton II and his medical team to the homeless in Baltimore City

01/2015 – 02/2015 **Global Impact Fellow**
Unite for Sight New Haven, CT
MPH Practicum, hands-on global health experience through Unite for Sight at one of its partner eye clinics in Ghana
Fundraised $1500 to help provide free eye surgeries for patients living in extreme poverty
Mobilized 600 pieces of reading glasses as donations to patients

10/2014 – 05/2015 **Baltimore Community Health Volunteer**
Generation Tomorrow, Johns Hopkins University Baltimore, MD
Participated in outreach programs designed to increase awareness and detection of HIV and Hepatitis C in Baltimore

03/2013 – 05/2014 **Volunteer Physician**
Compassion International, Ghana Accra, Ghana
Helped screen hundreds of school children for common preventable illnesses in rural communities in Southern Ghana

12/2012 - 01/2013 **Volunteer Physician**
St Joseph Hospital Jirapa, Ghana
Helped with care delivery at my community hospital

Peer Reviewed Journal Articles

Published:

1. **Tibuakuu M**, Okunrintemi V, Savji N, Stone NJ, Virani SS, Blankstein R, Blumenthal RS, Michos ED. Non-dietary Cardiovascular Health Metrics and Their Association with Patient-Reported Outcomes among US Adults without Cardiovascular Disease: The Medical Expenditure Panel Survey 2006 to 2015. *JAHA.* 2020 Oct 20;9(19):e016744. PMID: 32998625

2. Okunrintemi V, **Tibuakuu M**, Virani SS, Sperling LS, Volgman AS, Gulati M; Cho L, Leucker TM, Blumenthal RS, Michos ED. Sex Differences in the Age of Diagnosis for Cardiovascular Disease and Its Risk Factors Among US Adults: Trends From 2008 to 2017, the Medical Expenditure Panel Survey. *JAHA.* 2020 Dec15;9(24):e018764. PMID: 33161825

3. Okunrintemi V, Valero-Elizondo J, Michos ED, Salami J, Ogunmoroti O, Osondu O, **Tibuakuu M**, Benson E, Pawlik T, Nasir K. Association of depression risk with patient experience, healthcare expenditure and health resource utilization among adults with atherosclerotic cardiovascular disease. *J Gen Intern Med.* 2019 Nov;34(11):2427-2434. PMID: 31489560

4. Jang S, Ogunmoroti O, Ndumele CE, Zhao D, Rao VN, Fashanu OE, **Tibuakuu M,** Otvos JD, Benson E, Ouyang P, Michos ED. The Association of the Novel Inflammatory Marker GlycA and Incident Heart Failure and its Subtypes of

Preserved and Reduced Ejection Fraction: The Multi-Ethnic Study of Atherosclerosis. *Circ Heart Fail* 2020 Aug;13(8):e007067. PMID: 32762458

5. Osibogun O, Ogunmoroti O, **Tibuakuu M**, Benson EM, Michos ED. Sex differences in the association between ideal cardiovascular health and biomarkers of cardiovascular disease among adults in the United States: a cross-sectional analysis from the multiethnic study of atherosclerosis. *BMJ Open*. 2019 Nov 25;9(11). PMID: 31772093

6. **Tibuakuu M,** Okunrintemi V, Jirru E, Tcheugui JE, Orimoloye O, Mehta PK, DeFilippis A, Blaha MJ, Michos ED. National trends in cessation counseling, prescription medication use, and associated costs among adult cigarette smokers. *JAMA Netw Open*. 2019; 2(5): e194585. PMID: 31125108

7. Okunrintemi V, Benson EA, **Tibuakuu M**, Zhao D, Ogunmoroti O, Valero-Elizondo J, Gulati M, Nasir K, Michos ED. Trends and Costs Associated with Suboptimal Physical Activity Among US Women with Cardiovascular Disease. *JAMA Netw Open*. 2019 Apr 5;2(4):e191977. PMID: 30977851

8. Fashanu OE, Oyenuga AO, Zhao D, Guallar E, **Tibuakuu M**, Mora S, Otvos JD, Stein JH, Michos ED. GlycA, a Novel Inflammatory Marker, and its Association with Peripheral Arterial Disease and Carotid Plaque: The Multi-Ethnic Study of Atherosclerosis. *Angiology*. 2019 Apr 28:3319719845185. PMID: 31030528

9. Ezeigwe A, Fashanu OE, Zhao D, Budoff MJ, Otvos JD, Thomas IC, Mora S, **Tibuakuu M**, Michos ED. The Novel Inflammatory Marker GlycA and the Prevalence and Progression of Valvular and Thoracic Aortic Calcification: The Multi-Ethnic Study of Atherosclerosis. *Atherosclerosis* 2019 Mar; 282:91-99. PMID: 30716566

10. **Tibuakuu M**, Fashanu OE, Zhao D, Otvos JD, Brown TT, Haberlen SA, Guallar E, Budoff MJ, MD, Palella FJ, Martinson JJ, Akinkuolie AO, Mora S, Post WS, Erin D. Michos ED. GlycA, a Novel Inflammatory Marker, and Subclinical Coronary Artery Disease: The Multicenter AIDS Cohort Study (MACS). *AIDS*. 2019 Mar 1;33(3):547-557. PMID:30475263

11. Okunrintemi V, Valero-Elizondo J, Patrick B, Salami J, **Tibuakuu M**, Ahmed S, Ogunmoroti O, Mahaja S, Khan SU, Gulati M, Nasir K, Michos ED. Gender Differences in Patient-reported Outcomes Among Adults with ASCVD. *J Am Heart Assoc. 2018 Dec 18;7(24): e010498.* PMID: 30561253

12. Benson EA, **Tibuakuu M**, Akinkuolie AO, Zhao D, Otvos JD, Duprez DA, Jacobs DR, Mora S, Michos ED. Associations of Ideal Cardiovascular Health with GlycA, a Novel Inflammatory Marker: The Multi-Ethnic Study of Atherosclerosis (MESA). *Clin Cardiol. 2018 Nov;41(11):1439-1445.* PMID: 30452775

13. Townsend J, Keller S, **Tibuakuu M**, Thakker S, Webster B, Siegel M, Psoter KJ, Mansour O, Perl TM; Outpatient Parenteral Therapy for Complicated *Staphylococcus aureus* Infections: A Snapshot of Processes and Outcomes in the Real World, *Open Forum Infectious Diseases*. 2018 Oct 24;5(11): ofy274. PMID: 30488039

14. **Tibuakuu M**, Michos E.D, Navas-Acien A, Jones MR. Air Pollution and Cardiovascular Disease: a Focus on Vulnerable Populations Worldwide. Curr Epidemiol Rep. *2018 Dec;5(4):370-378*. PMID: 30931239

15. **Tibuakuu M**, Kianoush S, DeFilippis AP, McEvoy JW, Zhao D, Guallar E, Ballantyne CM, Hoogeveen RC, Blaha M, Michos ED. Usefulness of Lipoprotein-Associated Phospholipase A2 Activity and C-Reactive Protein in Identifying High Risk Smokers for Atherosclerotic Cardiovascular Disease (From the ARIC Study). *Am J Cardiol. 2018 May 1;121(9):1056-1064.* PMID: 29525060

16. **Tibuakuu M**, Zhao D, Saxena A, Brown TT, Jacobson L, Patella FJ, Witt MD, Korada SK, Budoff MJ, Post WS, Michos ED. Low Thigh Muscle Mass is Associated with Coronary Artery Stenosis Among HIV-Infected and -Uninfected Men: The Multicenter AIDS Cohort Study (MACS). *J Cardiovasc Comput Tomogr. 2018 Mar -*

Apr;12(2):131-138. PMID: 29396194

17. **Tibuakuu M**, Navas-Acien A, Jones MR, Kaufman JD, Zhao D, Guallar E, Gassett A, Budoff M, Sheppard L, Michos ED. Exposure to Ambient Air Pollution and Valvular Calcification (Mitral Annular Calcification and Aortic Valve Calcification): The Multi-Ethnic Study of Atherosclerosis (MESA). *Environ Health. 2017 Dec 21;16(1):133.* PMID: 29268751

18. **Tibuakuu M**, Kamimura D, Hall ME, Kianoush S, Mahmoud A, Defilippis A, Mosley T, Blaha MJ. The association between cigarette smoking and inflammation: The Genetic Epidemiology Network of Atherosclerosis (GENOA) Study. *PLoS One. 2017 Sep 18;12(9):e0184914.* PMID: 28922371

19. **Tibuakuu M,** Zhao D, de Boer IH, Guallar E, Bortnick AE, Lutsey PL, Budoff MJ, Kizer JR, Kestenbaum BR, Michos ED. Relation of Serum Vitamin D to Risk of Mitral Annular and Aortic Valve Calcium (from the Multi-Ethnic Study of Atherosclerosis). *Am J Cardiol. 2017 Aug 1;120(3):473-478.* PMID: 28583687

20. Kianoush S, Bittencourt M**,** Lotufo P, Bensenor I, Jones S, DeFilippis A, Toth P, Otvos J, **Tibuakuu M**, Hall M, Blaha M. The Association between Smoking and Serum GlycA Levels: The Multi-Ethnic Study of Atherosclerosis (MESA) and Brazilian Longitudinal Study of Adult Health (ELSA-Brasil). *J Am Heart Assoc. 2017 Aug 23;6(8).* PMID: 28838917

21. Chin K, Zhao D, **Tibuakuu M**, Martin SS, Ndumele CE, Florido R, Windham BG, Guallar E, Lutsey PL, Michos ED. Physical Activity, Vitamin D, and Incident Atherosclerotic Cardiovascular Disease in Whites and Blacks: The ARIC Study. J Clin Endocrinol Metab. 2017 Apr 1;102(4):1227-1236. PMID: 28323928

22. Korada SK, Zhao D, **Tibuakuu M**, Post W, Brown T, Jacobson L, Guallar E, Bolan R, Palella F, Margolick J, Michos ED. Frailty and subclinical coronary atherosclerosis: The Multicenter AIDS Cohort Study (MACS). *Atherosclerosis.* 2017 Nov; 266:240-247. PMID: 28886899

23. **Tibuakuu M**, Jjingo C, Kirk GD, Thomas DL, Gray R, Ssempijja V, Nalugoda F, Serwadda D, Ocama P, Opio CK, Kleiner DE, Quinn TC, Reynolds SJ. Elevated liver stiffness without histological evidence of liver fibrosis in rural Ugandans. *J Viral Hepat.* 2020 Oct;27(10):1022-1031. PMID: 32388879

24. Amoakwa K, Fashanu OE, **Tibuakuu M**, Zhao D, Guallar E, Whelton SP, O'Neal WT, Post WS, Budoff MJ, Michos ED. Resting Heart Rate and the Incidence and Progression of Valvular Calcium: The Multi-Ethnic Study of Atherosclerosis (MESA). *Atherosclerosis*. 2018 Jun; 273:45-52. PMID: 29677630

25. Salazar IMC, **Tibuakuu M**, Blumenthal RS, Sarkar S. Cardiovascular Disease in Patients with Diabetes: A Comparison of Professional Society Guidelines. *Curr Diabetes Rev*. 2022;18(4):e200821195733. PMID: 34420507

26. Pisaniello AD, Alfaddagh A, **Tibuakuu M,** Whelton SP, Czarny MJ, Blaha MJ, Tsai MY, Budoff MJ, Shea S, Allison MA, Post WS. Association Between Omega-3 Fatty Acid Levels and Aortic Valve Calcium (from the Multi-Ethnic Study of Atherosclerosis). *Am J Cardiol*. 2022 Dec 1; 184:104-110. PMID: 36127180

27. Oshunbade AA, Lirette ST, Windham BG, Shafi T, Hamid A, Gbadamosi SO, Tin A, Yimer WK, **Tibuakuu M,** Clark D 3rd, Kamimura D, Lutz EA, Mentz RJ, Fox ER, Butler J, Butler KR, Garovic VD, Turner ST, Mosley TH Jr, Hall ME. Hypertensive Diseases in Pregnancy and Kidney Function Later in Life: The Genetic Epidemiology Network of Arteriopathy (GENOA) Study. *Mayo Clin Proc*. 2022 Jan;97(1):78-87. PMID: 34565606

28. Shahu A, Okunrintemi V, **Tibuakuu M,** Khan SU, Gulati M, Marvel F, Blumenthal RS, Michos ED. Income disparity and utilization of cardiovascular preventive care services among U.S. adults. *Am J Prev Cardiol*. 2021 Nov 6; 8:100286. PMID: 34816144

29. Oshunbade AA, Lirette ST, Windham BG, Shafi T, Hamid A, Gbadamosi SO, Tin A, Yimer WK, **Tibuakuu M**, Clark D 3rd, Kamimura D, Lutz EA, Mentz RJ, Fox ER, Butler J, Butler KR, Garovic VD, Turner ST, Mosley TH Jr, Hall ME. Greater Acculturation is Associated with Poorer Cardiovascular Health in the Multi-Ethnic Study of Atherosclerosis. *J Am Heart Assoc*. 2021 Apr 20;10(8): e019828. PMID: 33834848

30. Jang S, Ogunmoroti O, Ndumele CE, Zhao D, Rao VN, Fashanu OE, **Tibuakuu M**, Otvos JD, Benson EM, Ouyang P, Michos ED. Association of the Novel Inflammatory Marker GlycA and Incident Heart Failure and Its Subtypes of Preserved and Reduced Ejection Fraction: The Multi-Ethnic Study of Atherosclerosis. *Circ Heart Fail.* 2020 Aug;13(8): e007067. PMID: 32762458

First Author Abstracts and Poster Presentations:

American Heart Association (AHA) Scientific Sessions 2019, Philadelphia, PA

1. **Tibuakuu M**, Okunrintemi V, Savji N, Stone NJ, Virani SS, Blankstein R, Blumenthal RS, Michos ED. Non-dietary Cardiovascular Health Metrics and Their Association with Patient-Reported Outcomes among US Adults without Cardiovascular Disease: The Medical Expenditure Panel Survey 2006 to 2015.

American Heart Association (AHA) Scientific Sessions 2018, Chicago, IL

2. **Tibuakuu M**, Okunrintemi V, Jirru E, Tcheugui JE, Hamid M, Mehta PK, DeFilippis A, Blaha MJ, Michos ED. National Trends in Smoking Cessation Pharmacotherapy Use and its Expenditures Among US Adult Current Smokers with ASCVD: Insights from the 2006 to 2015 Medical Expenditure Panel Survey (MEPS) (**Scored as Best of Quality of Care and Outcomes Research Abstract**).

3. **Tibuakuu M**, Okunrintemi V, Jirru E, Tcheugui JE, Hamid M, Mehta PK, DeFilippis A, Blaha MJ, Michos ED. National Trends in Smoking Cessation Counseling by Health Care Providers Among US Adult Smokers with ASCVD: Insights from the 2006 to 2015 Medical Expenditure Panel Survey (MEPS).

American Heart Association Epidemiology and Lifestyle 2018, New Orleans, LA

4. **Tibuakuu M**, Fashanu OE, Zhao D, Otvos JD, Brown TT, Haberlen SA, Guallar E, MD, Budoff MJ, Palella FJ, Martinson JJ, Akinkuolie AO, Mora S, Post WS, Michos ED. GlycA, a Novel Inflammatory Marker, and Subclinical Coronary Atherosclerosis in the Multicenter AIDS Cohort Study (MACS).

American Heart Association (AHA) Scientific Sessions 2017, Anaheim, CA

5. **Tibuakuu M**, Kianuoush S, DeFilippis AP, McEvoy JW, Zhao D, Guallar E, Ballantyne CM, Hoogeveen RC, Blaha MJ, Michos ED. The Role of Lipoprotein-Associated Phospholipase A2 Activity and High-Sensitivity C-Reactive Protein in Identifying High Risk Smokers for Incident Atherosclerotic Cardiovascular Disease: The Atherosclerosis Risk in Communities (ARIC) Study.

6. **Tibuakuu M**, Jones MR, Navas-Acien A, Zhao D, Guallar E, Gassett AJ, Sheppard L, Budoff MJ, Kaufman JD, Michos ED. Exposure to Ambient Air Pollution and Calcification of the Mitral Annulus and Aortic Valve: The Multi-Ethnic Study of Atherosclerosis (MESA).

American Heart Association Epidemiology and Lifestyle 2017, Portland, OR

7. **Tibuakuu M**, Zhao D, de Boer IH, Guallar E, Bortnick AE, Lutsey PL, Budoff MJ, Kizer JR, Kestenbaum BR and Michos ED. Abstract P212: The Association Between Serum Vitamin D and Valvular Calcification in the Multi-Ethnic Study of Atherosclerosis.

8. **Tibuakuu M**, Kamimura D, Kianoush S, DeFilippis A, Al Rifai M, Butler KR, Mosley TH, Hall ME, Blaha MJ. The Association Between Cigarette Smoking and Cardiovascular Inflammation: The Genetic Epidemiology Network of Arteriopathy Study.

Contributing writer, US News and World Report Health Column (lay public education)

These articles are widely shared on Social Media, not only from US News, but also by Johns Hopkins Medicine via Facebook and Twitter pages.

Kianoush, S., **Tibuakuu, M**., & Michos, ED. (2016, September 06). Electronic cigarettes: Are they safer than traditional cigarettes? http://health.usnews.com/health-news/patient-advice/articles/2016-09-22/electronic-cigarettes-are-they-safer-than-traditional-cigarettes

Tibuakuu, M., & Michos, ED. (2016, August 24). Know Your A1C: What This Blood Test Can Tell You About Your Risk for Diabetes and Cardiovascular Disease. http://health.usnews.com/health-news/patient-advice/articles/2016-08-24/know-your-a1c-what-this-blood-test-can-tell-you-about-your-risk-for-diabetes-and-cardiovascular-disease

Journal Peer Review Activities

I have frequently reviewed for *PLOS ONE* and *JAMA Network Open.*

Oral Presentations

1. **Tibuakuu M**, Sathiyakumar V, Al Faddagh A, Michos ED, Kalyani R, Blumenthal RS, Sarkar S. (April, 2019). ACC/AHA versus ADA Guidelines on Prevention of Cardiovascular Disease: How do they compare? Oral Presentation presented at: Johns Hopkins Ciccarone Center Research Meeting; Baltimore, MD, USA.

1. **Tibuakuu M.** (February, 2019). Salmonella Gastroenteritis in a 28-year old Female Returning Traveler from Hong Kong Oral Presentation presented at: Internal Medicine Residency Case Conference; Chesterfield, MO, USA.

2. **Tibuakuu M.** (March, 2019). 'STEMI–like' Acute Necrotizing Pancreatitis, an unusual presentation Oral Presentation presented at: Internal Medicine Residency Case Conference; Chesterfield, MO, USA.

3. **Tibuakuu M.** (October, 2018). A 50-year old Woman with Acute Postoperative Negative Pressure Pulmonary Edema Oral Presentation presented at: Internal Medicine Residency Case Conference; Chesterfield, MO, USA.

4. **Tibuakuu M**. (August, 2018). A Case of Sustained and Symptomatic Monomorphic VT in a 32-year old Man with Suspected Infiltrative Heart Disease. Oral Presentation presented at: Internal Medicine Residency Case Conference; Chesterfield, MO, USA.

5. **Tibuakuu M.** (August, 2018). The Sgarbossa Criteria: Diagnosing STEMI in an 89-year old Man Presenting with Chest Pain and LBBB Pattern on EKG. Oral Presentation presented at: Internal Medicine Case Conference; Chesterfield, MO, USA.

6. **Tibuakuu M.** (May, 2019). A Case of Metastatic Renal Cell Carcinoma Presenting as a Bleeding Gastric Polyp Oral Presentation presented at: Internal Medicine Residency Case Conference; Chesterfield, MO, USA.

7. **Tibuakuu, M.** (May, 2019). A Case of Anomalous RCA Arising from the Left Aortic Sinus in a Woman Presenting with Syncope. Oral Presentation presented at: Internal Medicine Case Conference; Chesterfield, MO, USA.

8. **Tibuakuu, M.** (September, 2018). Complications of PICC Lines Oral Presentation presented at: St. Louis Area Vascular Ultrasound Group Meeting; St. Louis, MO, USA.

Hobbies & Interests

I love working out, listening to music, cooking, and watching soccer. I also enjoy activities through which I can interact with and mentor younger members of my family and community.