**AMY NICHOLE MERTENS, D.O.**

**CURRICULUM VITAE**

**EDUCATION**

Doctor of Osteopathic Medicine. Michigan State University College of Osteopathic Medicine. August 2010- May 2014, Detroit Medical Center Site, Detroit, Michigan.

Bachelor of Science. University of Michigan. Major: English, Minor: Biology. August 2004- December 2008, Ann Arbor, Michigan.

**POSTGRADUATE TRAINING**

Advanced Fellowship in Interventional Cardiovascular Medicine; Endovascular and CHIP. Oakland University- William Beaumont Hospital, Beaumont Health, Department Cardiology. July 2021 – June 2022, Royal Oak, Michigan. Robert D. Safian, M.D, Director, Interventional Cardiovascular Disease Fellowship. Simon R. Dixon, MBChB – Chair, Cardiovascular Medicine.

Fellowship in Interventional Cardiovascular Medicine. Oakland University- William Beaumont Hospital, Beaumont Health, Department Cardiology. July 2020 – June 2021, Royal Oak, Michigan. Robert D. Safian, M.D, Director, Interventional Cardiovascular Disease Fellowship. Simon R. Dixon, MBChB – Chair, Cardiovascular Medicine.

Fellowship in Cardiovascular Medicine. Oakland University- William Beaumont Hospital, Beaumont Health, Department Cardiology. July 2017 – June 2020, Royal Oak, Michigan. Michael J. Gallagher, M.D, Director, Cardiovascular Disease Fellowship. Simon R. Dixon, MBChB – Chair, Cardiovascular Medicine.

Internship/Residency in Internal Medicine. Oakland University- William Beaumont Hospital, Beaumont Health, Department of Internal Medicine. July 2014 – June 2017, Royal Oak, Michigan. Sandor Shoichet, M.D., Program Director. Michael Maddens, M.D., Chair, Department of Internal Medicine.

**CERTIFICATION AND LICENSURE**

Michigan State Medical License: #5101021035, valid through 3/10/2024

American Board of Internal Medicine, ABIM ID v, 2017- present

National Board of Echocardiography, ASCeXAM, Diplomate, 2019- present

Certification Board of Cardiovascular Computed Tomography, Diplomate, 2019- present

American Board of Internal Medicine Cardiovascular Disease Certification, 2020-present

American Board of Internal Medicine Interventional Cardiology Certification, 2021-present

Fellow of the American College of Cardiology, 2022-present

Fellow of the Society for Cardiovascular Angiography and Interventions, 2022-present

Advanced Cardiac Life Support (ACLS): current

Basic Life Support (BLS): current

Advanced Training for Residents As Teachers: 2016

Advanced Training for Medical Educators, Stanford Program: 2016

**EMPLOYMENT**

Interventional Cardiologist.Trinity HealthMichigan Heart, St. Joseph Ann Arbor and St. Mary Livonia locations. 8/2022-8/2023.

 Interventional Cardiologist at Denver Health and Associate Professor, Medicine-Cardiology at the University of Colorado School of Medicine. Anschutz Medical Campus. 9/2023-present.

**RECOGNITION AND AWARDS**

 **Residency:**

Beaumont Resident and Fellow Research Forum, 2nd place, Case Report, May 2016

Resident of the Month, MICU, March 2016

Intern of the Month, June 2015

Intern of the Month, October 2014

**Medical School:**

Graduated top 10th percentile of class, 2014

Sigma Sigma Phi, National Osteopathic Medical Honors Society, 2011-2014

Letter of Recognition for performance in cardiology course, written by Dr. Strobl, D.O., Professor of Medicine and Chairman of the Section of Cardiology in the Department of Internal Medicine, Michigan State University College of Osteopathic Medicine, 2012

Peru Medical Mission Featured on Big Ten Network, MSUToday: World Medicine, March,

2012

Honored by Steven Bieda, Michigan State Senator, 9th district, for gratitude of services provided as a member of the Peru Medical Mission, 2012

Golden Femur Award, Student Osteopathic Medical Association (SOMA) Chapter of the Year, 2012

COSG Translating Osteopathic Understanding through Community Health (TOUCH) Silver Award Recognition for contributing 50 hours of volunteer service to community health, 2012

**Undergraduate and Secondary Education:**

Graduation with Distinction (top 25% of class, overall GPA 3.791), 2008

James B. Angell Scholar Award, for having a perfect academic record for two consecutive

terms, 2005-2006

University Honors Award, for receiving at least a 3.5 grade point average while taking 14 or

more credits, 2005-2006

University of Michigan Women’s Varsity Swim Team, 2004

USA Swimming Scholastic All American Team Member, 2004

USA Swimming U.S. Open and Senior National Qualifier 200 breaststroke and 200 Medley Relay, 2003

All American Consideration for 100 Yd. Breaststroke, 2003

**PUBLICATIONS**

**Manuscripts**

Madanat L, Donisan T, Balanescu DV, Jabri A, Al-Abdouh A, Alsabti S, Li S, Kheyrbek M, **Mertens A**, Hanson I, Dixon S. The contemporary use of intracoronary brachytherapy for instent restenosis: A review. Cardiovasc Revasc Med. 2023 Jan 30:S1553-8389(23)00021-0. doi: 10.1016/j.carrev.2023.01.019. Epub ahead of print. PMID: 36732133.

Donisan T, Madanat L, Balanescu DV, **Mertens A**, Dixon S. Drug-Eluting Stent Restenosis: Modern Approach to a Classic Challenge. Curr Cardiol Rev. 2023;19(3):76-85. doi: 10.2174/1573403X19666230103154638. PMID: 36597603.

**Amy N. Mertens, DO**, Teodora Donisan MD, Olivia Allen DO, Dinu-Valentin Balanescu MD, Ramy Mando MD, Stacey Willner DO, Robert D. Safian MD. Coronary CT Angiography for Evaluating Patients with Coronary Artery Frequency of Potential Technical and Clinical Limitations. Disease: Publication Status: Submitted for publication

Simon R. Dixon, MBChB, Joaquin Cigarroa, MD, **Amy Mertens, DO**. Impact of Operator Height on Scatter Radiation Dose During Cardiac Catheterization. Publication Status: Submitted for publication.

Donisan T, Mertens A, Luay S. Kawasaki Related Coronary Artery Disease Refractory to Angioplasty: The Role of Intravascular Shockwave Lithotripsy. Cureus. 2021 Oct 25;13(10):e19020. doi: 10.7759/cureus.19020. PMID: 34853747; PMCID: PMC8608039.

Balanescu DV, Kado HS, **Mertens A**, Chand R, Savin M, McNally V, Bowers TR. Mechanical Thrombectomy in Pulmonary Embolism Associated with COVID-19: A "Clotography" Gallery. Vasc Endovascular Surg. 2021 Nov;55(8):903-906. doi: 10.1177/15385744211037600. Epub 2021 Aug 6. PMID: 34355600.

Dinu V. Balanescu, Teodora Donisan, **Amy Mertens**, Ivan Hanson. Early Improvement in Right Ventricular Dysfunction Following Transseptal Transcatheter Mitral Valve-in-Valve Replacement. [J Am Coll Cardiol](https://www.jacc.org/journal/jacc). 2020 Mar, 75 (11\_Supplement\_1) 2981

Jason P. Schott, **Amy N. Mertens,** Richard Bloomingdale, Thomas F. O’Connell, Michael J. Gallagher, Simon Dixon, Amr E. Abbas. Transthoracic Echocardiographic Findings in Patients Admitted with SARS- CoV-2-Infection. Echocardiography. Published 2020 September 19; 00: 1– 6. <https://doi.org/10.1111/echo.14835>

Pratik K Dalal, **Amy Mertens**, Dinesh Shah, and Ivan Hanson, “Hemodynamic Support Using Percutaneous Transfemoral Impella 5.0 and Impella RP for Refractory Cardiogenic Shock,” Case Reports in Cardiology, vol. 2019, Article ID 4591250, 6 pages, 2019.

Bloomingdale R, Walters JL 3rd, **Mertens A**, Ramos R, Gallagher M, Forbes TJ, Kobayashi D. Coronary Sinus Stenosis with Right Coronary Artery to Coronary Sinus Fistula. Ann Thorac Surg. 2018 Dec 7. pii: S0003-4975(18)31790-9. doi:

10.1016/j.athoracsur.2018.10.071. PMID: 30529675

**Mertens A,** Dalal P, Ashbrook M, Hanson I. Coil Embolization of Coronary-Cameral Fistula Complicating Revascularization of Chronic Total Occlusion. Case Rep Cardiol. 2018;2018:6857318. Published 2018 Aug 29. doi:10.1155/2018/6857318. PMID: 30245892

Jayaschandran, V., **Mertens, A.N.**, Patel, V.K., and Dalal, B. Life Threatening Massive Hemoptysis after Cryoablation for Atrial Fibrillation. Journal of Bronchology and Interventional Pulmonology. 2018 Jan;25(1):67-69. doi: 10.1097/LBR.0000000000000417. PMID: 28915140

Meka, S.G., Sheldon, D., **Mertens, A**., Christensen, P. and Patel, M. (2017) A hol(e)y predicament. Respirology Case Reports, 5 (4), e00237. doi: 10.1002/rcr2.237. PMID: 28435681

Tagami, T., **Mertens, A.N.**, Rothschild, D. and Chowdhury, P. A Case of Reverse Takotsubo Cardiomyopathy Caused by an Eating Disorder. Journal of Cardiology Cases. 016 Nov 24;15(3):77-79. doi: 10.1016/j.jccase.2016.10.015. eCollection 2017 Mar. PMID:30279744

Lakshmanadoss, U., **Mertens, A.N**., Gallagher, M.J., Kutinsky, I.B. *and* Williamson, B.D. Sudden Cardiac Arrest due to a Single Sodium Channel Mutation Producing a Mixed Phenotype of Brugada and Long QT3 syndromes. Indian Pacing and Electrophysiology

Journal. 2016 Mar-Apr; 16(2): 66–69. PMCID: PMC5031864.

Kazanji N, Klein RE, Lohani S, **Mertens AN** *and* Le J. A Case of Hypermucoviscous Klebsiella Pneumoniae Liver Abscess Syndrome in an Iraqi Male. QJM: An International Journal of Medicine. 2016 Jul; 109(7): 493-4. Cited in PubMed; PMID 27016535.

Kazanji N, Gjeorgjievski M, Yadav S, **Mertens AN**, Lauter C. [Monomicrobial vs Polymicrobial Clostridium difficile bacteremia: A Case Report and Review of the Literature.](http://www.ncbi.nlm.nih.gov/pubmed/26071832) The American Journal of Medicine. 2015 Sep; 128(9): e19-26. Cited in PubMed; PMID: 26071832.

Anderson MA, Zolotarevsky E, Cooper KL, Sherman S, Shats O, Whitcomb DC, Lynch HT, Ghiorzo P, Rubinstein WS, Vogel KJ, Sasson AR,Grizzle WE, Ketcham MA, Lee SY, Normolle D, Plonka CM, **Mertens AN**, Tripon RC, Brand RE. Alcohol and tobacco lower the age of presentation in sporadic pancreatic cancer in a dose-dependent manner: a multicenter study. American Journal of Gastroenterology. 2012 Nov; 107(11): 1730-1739. Cited in PubMed; PMID: 22929760.

Anderson MA, Brenner DE, Scheiman JM, Simeone DM, Singh N, Sikora MJ, Zhao L, **Mertens AN**, Rae JM. Reliable gene expression measurements from fine needle aspirates of pancreatic tumors: Effect of amplicon length and quality assessment. The Journal of Molecular Diagnostics. 2010 Sep; 12(5): 566-575. Cited in PubMed; PMID: PMC2928420.

Hankin MH, Harmon DJ, Martindale JR, Niculescu I, Aschmetat A, **Mertens AN**, Hanke RE, Koo AS, Kraus AE, Payne JA, Feldman MJ, Soltero Mariscal E. Needs assessment of essential anatomy: The perspective of adult primary care resident physicians. Anat Sci Educ. 2023 Jan 9. doi: 10.1002/ase.2252. Epub ahead of print. PMID: 36622764.

**Abstracts**

**Amy Mertens**, Brian Williamson. Broncho-esophageal Fistula: A Rare Complication Post Radiofrequency Catheter Ablation For Atrial Fibrillation. Presented at 40th Annual HRS Scientific Sessions. San Francisco, California. May, 2019. (poster)

**Amy Mertens**, George Hanzel. “Persistent Dyspnea After TAVR” Presented at Beaver Creek, Colorado. February, 2019.

**Amy Mertens,** Richard Bloomingdale, George Hanzel, Michael Gallagher, and Renato Ramos. Right Coronary Artery to Coronary Sinus Fistula Presenting with Pericardial Effusion. American College of Cardiology 67th Annual Scientific Session & Expo. Fellow In Training Clinical Decision Making, March 2018. Orlando, Florida. (poster)

Vivek Jayaschandran, **Amy Mertens**, Bhavinkumal Dalal, Vishal Patel. Life Threatening Massive Hemoptysis after Cryoablation for Atrial Fibrillation. Society of Critical Care Medicine, 46th Critical Care Congress, January 2017.Honolulu, Hawaii. (poster)

Travis Tagami, **Amy Mertens**, Ryan Overby, Ramona Berghea, Pertha Chowdhury. Reverse Takotsubo: A Rare Variant of Stress- Induced Cardiomyopathy. American College of Physicians Michigan Chapter Annual Scientific Meeting, September 2016. Traverse City, Michigan. (poster)

**Amy Mertens**, Thomas Verrill, Nathan Kerner. Asymptomatic Quadricuspid Aortic Valve in an Elderly Female. Beaumont Resident and Fellow Research Forum, May 2016. Royal Oak, MI. (poster). Awarded 2nd place.

Thomas Verrill, **Amy Mertens**, Travis Tagami, Jorge Alchammas, Liz Gates, Judith Boura, George Hanzel. Heparin vs. Bivalirudin: A Comparison of In-Hospital Morbidity and Mortality in a “Real World” Setting. Beaumont Resident and Fellow Research Forum, May 2016. Royal Oak, MI. (poster)

**Amy Mertens**, Thomas Verrill, Michael Gallagher. A (VF) Storm is Coming: Differentiating Between Brugada Syndrome and Brugada Pattern. American College of Physicians National Internal Medicine Meeting, May 2016. Washington, D.C. (poster)

**Amy Mertens**, Daniel Isaac, Paul Bozyk. It’s Not All in the Numbers: An Unusual Presentation of Pulmonary Leukostasis without Hyper leukocytosis. American College of Physicians National Internal Medicine Meeting May 2016. Washington, D.C. (poster)

Travis Tagami, **Amy Mertens,** Brett Holmes, Issa Makki, Sara Karnib, John Falatko. Allopurinol Exposure and Prevention of Post-Operative Atrial Fibrillation After Cardiac Surgery: A Case- Control Study. American College of Physicians Michigan Chapter Annual Associates Day, April 2016. Sterling Heights, Michigan. (poster)

Travis Tagami, **Amy Mertens**, John Falatko. Prophylactic ICD Insertion for the Prevention of Sudden Cardiac Death due to Dilated Cardiomyopathy: A Systematic Review and Meta-analysis. American College of Physicians Michigan Chapter Annual Associates Day, April 2016. Sterling Heights, Michigan. (poster)

Kassem Faraj, **Amy Mertens**. Acute Cholangitis in the setting of Iron Overload with Suspected Epstein Barr Virus (EBV) infection. American College of Physicians Michigan Chapter Annual Associates Day, April 2016. Sterling Heights, Michigan. (poster)

**Amy Mertens**, Daniel Isaac, Paul Bozyk. It’s Not All in the Numbers: An Unusual Presentation of Pulmonary Leukostasis Without Hyper leukocytosis. American College of Physicians Michigan Chapter Annual Scientific Meeting, September 2015. Traverse City, Michigan. (oral presentation)

Travis Tagami, **Amy Mertens**, Madeleine Hasbrook, Fransisco Davila. Septic Embolization: The Importance of Good Oral Hygiene. American College of Physicians Michigan Chapter Annual Scientific Meeting, September 2015. Traverse City, Michigan. (poster)

Rajesh Krishnamoorthi, Karthik Ragunathan, Kavel Visrodia**, Amy Mertens**, Kenneth K. Wang, Siddharth Singh, David A, Katzka, Prasad G, Iyer. Predictors of Progression in Barrett’s Esophagus: A Systematic Review and Meta-Analysis. Gastroenterology. 2015 April; 148(4S1) S213. (journal)

Dilip Khanal, **Amy Mertens**, Laura Diffenderfer, Laurie Bossory, Jill Gualdoni, John Falatko, Paul Bozyk. Death by hockey puck: fatal myonecrosis following minor recreational injury. Michigan Thoracic Society Annual Chapter Meeting, March 2015. Novi, Michigan. (poster)

Ahmad A, Siddique M, **Mertens A**. Megestrol Acetate Inducing Inferior Vena Cava Thrombosis. American College of Physicians Michigan Chapter Annual Associates Day, 2014. (poster)

Glass L, Scheiman JM, Kwon RS, Elta GH, Wamsteker EJ, Piraka CY, Elmunzer BJ, **Mertens AN**, Anderson, MA. Research study participation is not associated with increased complication rates in patients undergoing interventional endoscopic procedures. Gastroenterology. 2010 May; 138(5S1) S239. (journal)

**RESEARCH EXPERIENCE**

Co-investigator. CT Universe. HIC# 2016-09. William Beaumont Hospital, Department of Cardiology. Royal Oak, Michigan. Principal Investigator: Dr. Robert D. Safian, M.D.

Research Assistant. Multi-modality Imaging in Acute Myocardial Infarction (MIAMI Study). HIC# 2015-144, William Beaumont Hospital, Department of Cardiology. Royal Oak, Michigan. Principal Investigator: Dr. Robert D. Safian, M.D.

Research Assistant. Comparing Bleeding Risk between Bivalirudin and Heparin. HIC# 2014-398, William Beaumont Hospital, Department of Cardiology. Royal Oak, Michigan. Principal Investigator: Dr. George Hanzel, M.D.

Co-investigator. Across the Medical Education Continuum: Essential Anatomy in Medical Education. HIC# 2014-374, William Beaumont Hospital, Department of Internal Medicine. Royal Oak, Michigan. Principal Investigator: Dr. Iuliana Niculescu, M.D.

Clinical Research Coordinator. Biomarkers Study for the Detection of Early Pancreatic Cancer. University of Michigan, Department of Gastroenterology. Ann Arbor, Michigan. Principal Investigator: Dr. Michelle Anderson, M.D. June 2009-June 2010.

Clinical Research Coordinator. Biomarkers Study for the Detection of Early Colon Cancer. University of Michigan, Department of Hematology-Oncology, Ann Arbor. Michigan. Principal Investigator: Dr. Kim Turgeon, M.D. June 2009-June 2010.

Research Assistant. Adenovirus L1 Protein Expression. University of Michigan, Department of Microbiology, College of Literature, Science, and the Arts. Ann Arbor, Michigan. Principal Investigator: Dr. Michael Imperiale, Ph.D. June 2005-April 2006.

**PROFESSIONAL AFFILIATIONS**

American College of Cardiology, 2017-present

Society for Cardiovascular Angiography and Intervention, 2017- present

TCTMD, 2017- present

American Heart Association, 2015- present

American College of Physicians, 2010- present

American Medical Association, July 2010- present

American Osteopathic Association, July 2010- present

**TEACHING, LEADERSHIP, AND ADMINISTRATIVE EXPERIENCE**

Cardiology Class Liaison, Michigan State University College of Osteopathic Medicine, January-March, 2012. Under the direction of Dr. Strobl, D.O., chairman of the Section of Cardiology in the Department of Internal Medicine

Tutor and Small Group Leader, Above the Boards: Step 1 review sessions, Michigan State University College of Osteopathic Medicine, 2011-2012

Student Osteopathic Medical Association Local Director of Political Affairs, Michigan State University College of Osteopathic Medicine, 2011-2012

Internal Medicine Club President, Michigan State University College of Osteopathic Medicine, 2011-2012

Medical Supplies Coordinator for Peru Medical Service Elective, Michigan State University College of Osteopathic Medicine, 2011

Teaching Assistant, Organic Chemistry Lab, Department of Chemistry, University of Michigan College of Literature, Science, and Arts. Under the direction of Dr. Kathleen Nolta, Ph.D.

**Presentations**

ACS, presented to the University of Colorado Internal Medicine Residents. 9/22/2023.

Internal Medicine Clinic Grand Rounds. “Hyperlipidemia: Current Guidelines and Management.”William Beaumont Hospital, Department of Internal Medicine. July2016. Royal Oak, MI.

Senior Morning Report. “ACLS Medications in Cardiac Arrest: Examining What Works.” Case discussion and review of literature. William Beaumont Hospital, Department of Internal Medicine. June 2016. Royal Oak, Michigan.

Department of Gastroenterology Grand Rounds. “Finding a Needle in a Haystack: The Link between Obscure GI Bleeding and Aortic Stenosis.” William Beaumont Hospital, Department of Gastroenterology. February 2016. Royal Oak, MI.

Gastroenterology Fellow Conference Session. .”IBD and Pregnancy.” Case report and review of the literature. William Beaumont Hospital, Department of Gastroenterology. February 2016. Royal Oak, MI.

Senior Morning Report. “Long term Use of Antibiotics for Prevention of COPD Exacerbation.” Case discussion and review of literature. William Beaumont Hospital, Department of Internal Medicine. January 2016. Royal Oak, Michigan.

Internal Medicine Clinic Grand Rounds. “Approach to the Complete Blood Count with Differential: Analysis and Interpretation.”William Beaumont Hospital, Department of Internal Medicine. December 2015. Royal Oak, MI.

Senior Morning Report. “CABG versus PCI Outcomes for Patients with Multivessel Disease: The BEST Trial.” Case discussion and review of literature. William Beaumont Hospital, Department of Internal Medicine. September 2015. Royal Oak, Michigan.

**VOLUNTEER ACTIVITIES**

Resident to Intern Mentorship. William Beaumont Hospital, Department of Internal Medicine. Royal Oak, MI. July 2015- present.

Peru Medical Service Elective. Medical Mission Volunteer and Supplies Coordinator. Huamachuco, La Libertad, Peru. 2011.

MSUCOM Community Integrated Medicine. Service organization to promote and provide basic healthcare to underserved populations. Detroit, Michigan. 2010-2012.

Foundation for the International Medical Relief of Children (FIMRC). Global Health Volunteer Program. Alajuelita, Costa Rica. 2007.