

CURRICULUM VITAE
GAURAV CHOUDHARY, MBBS, FACC, FAHA

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830 Chalkstone Avenue, Providence, RI 02908

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EDUCATION

Medical School

All India Institute of Medical Sciences, New Delhi, India, 08/1991- 03/1997

Degree: MBBS (1997)

POSTGRADUATE TRAINING

Residency

University of Illinois at Chicago/ Michael Reese Hospital, 2929 S Ellis Avenue, Chicago, IL 30329

Internal Medicine Resident 06/97- 06/00

Fellowship

Emory University, Division of Cardiology
1639 Pierce Drive, Suite 319 WMB
Atlanta, GA 30322

Cardiovascular Diseases Fellow 07/00-06/04

Mentoring Training Program and Culturally Aware Mentoring-
Facilitated by certified NRMN and CIMER faculty mentors

Advance-CTR, Alert Medical School of Brown University

POSTGRADUATE HONORS AND AWARDS

2000

Heart Failure Society Travel Award

2001

Pfizer Travel Award for American Heart Association Meeting, 2001

2006

Fellow, American College of Cardiology

2006

Dean's Teaching Excellence Award, Brown Medical School

2007	Subspecialty Clinical Champion, Systems Redesign (ACA), Providence VA Medical Center, Providence, RI
2007	Special Contribution Award, Providence VAMC
2008	Northwestern University Young Investigators' Forum- Third Prize
2008	Actelion Pharmaceuticals Young Investigator Award
2009	Northwestern University Young Investigators' Forum- Finalist
2018	ICARE Award, Providence VA Medical Center
2019	Fellow, American Heart Association
2020	Deputy Secretary of Veterans Affairs Challenge Coin
2020	Disabled American Veterans, Department of Rhode Island- Physician of the Year award
2022	Mid-Career Research Achievement Award, Brown University

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

2000	Georgia Physician Licensure
2000, 2013	American Board of Internal Medicine
2004, 2014	ABIM- Cardiovascular Diseases
2010	Massachusetts Physician License
2014	Rhode Island Physician License

ACADEMIC APPOINTMENTS

2004- 2012	Assistant Professor in Medicine Brown Medical School, Providence RI
2012-2020	Associate Professor in Medicine

Alpert Medical School of Brown University,
Providence RI

2019-Present Adjunct Clinical Professor of Pharmacy Practice,
University of Rhode Island, Providence RI.

2020- Present Professor of Medicine, Research Scholar Track
Alpert Medical School of Brown University,
Providence RI

2021- Present Ruth and Paul Levinger Professor of Cardiology
Alpert Medical School of Brown University,
Providence RI

HOSPITAL/ UNIVERSITY APPOINTMENTS

2004- Present Staff Cardiologist, Providence VAMC

2004- 2017 Director, Cardiology Clinics & ECHO Lab
Providence VA Medical Center, Providence, RI

2012- 2016 Associate Program Director,
Cardiology Fellowship Program,
Alpert Medical School of Brown University

2013- Present Co-Director,
Pulmonary Hypertension Clinic,
Providence VA Medical Center

2014-2016 Acting, Associate Chief of Staff (Research)
Providence VA Medical Center

2014- Present Staff Cardiologist, Newport Hospital

2014- Present Staff Cardiologist, Rhode Island Hospital

2014- Present Staff Cardiologist, Miriam Hospital

2016- Present	Medical Director, Lifespan Cardiovascular Institute-Clinical & Translational Research Core
2021-	Director of Cardiovascular Research, Division of Cardiology, Alpert Medical School of Brown University and Lifespan Cardiovascular Institute

OTHER APPOINTMENTS

American Heart Association

2007	Member, AHA NE Affiliate Peer Review Committee
2008-2009	Member, AHA Peer Review Committee (Region I)
2012	Member, AHA Peer Review Panel- Cardiac Bio Reg –BSci 4
2013-2014	Co-Chair, AHA Peer Review Panel- Cardiac Bio Reg – BSci 4
2015-2016	Chair, AHA Peer Review Panel- Cardiac Bio Reg – BSci 4
2019	Member, Transformational Project Award (TPA) Cardiac Basic Sciences Peer Review Committee
2021	Moderator, Cardiovascular Seminar “Bench to Bedside Insights for RV Directed Therapies” AHA Scientific Sessions 2021.
7/1/2024 - 6/30/2026	Member, 3CPR Scientific & Clinical Education Lifelong Learning Committee (SCILL)
2024	Moderator, PH.CVS.04: The Right Stuff: Right Heart Failure Beyond the Right Ventricle, AHA Scientific Sessions 2024.

National Institutes of Health

2010	Invited Participant: Strategic Planning for Pulmonary Vascular Disease Workshop, NHLBI, NIH (Bethesda, MD)
2012	Member, NHBI Special Emphasis Study Section ZHL1 CSR-H (M1), Pulmonary Vascular-Right Ventricular Axis Research Program

2016	Member, NCATS Conference Grants Peer Review Committee (ZTR1 CG-7 01)
2018	Member, PPG review panel, HLBP 1 Workgroup, NHLBI
2018	Member, Cardiovascular Sciences Peer Review Panel: 2019/01 ZRG1 CVRS-L (02) M
2019	Member, Peer Review panel for Down Syndrome or DS-related disease(s): RFA-OD-19-016
2019	Member, Peer Review Panel: ZRG1 CVRS-G (03) SEP
2020	Member, Peer Review Panel: ZRG1 CVRS-G (03) M
04/2021	Member Peer Review Panel: Member conflict PSE SEP (PSEN02)
04/2022	Member Peer Review Panel: Member conflict ZHL1-CSR-M(M1)
10/2022	2023/01 ZHL1 CSR-G (J3) 1 NHLBI Mentored Career Development K-Awards.
07/2024	2024/08 ZRG1 IVBH-V (11): Small Business: The Cardiovascular and Hematological Sciences Special Emphasis Panel (SEP)
11/2024	2025/01 ZRG1 IVBH-V (11): Small Business: The Cardiovascular and Hematological Sciences SEP

American Thoracic Society

2011	Facilitator, Thematic Poster Session, American Thoracic Society International Conference, Denver, CO, 2011
2020	Invited to moderate 2 poster sessions for American Thoracic Society International

Conference, Philadelphia PA- Meeting cancelled due to COVID-19.

Jackson Heart Study

2014-Present	Member, Heart Failure Working Group, Jackson Heart Study
2015-Present	Manuscript Proposal Reviewer, Publication and Presentations Committee, Jackson Heart Study

Department of Veterans Affairs

2010	Member, VISN 1 Career Development Award Review Committee
2015-Present	Member, Peer Review Panel- VISN 1- Career Development Award
2018	Member, ZRD1 CARA-R (01) - Cardiovascular Studies – A, Peer Review Panel
2019-2022	Elected Member-Region 1, Field Research Advisory Committee, Department of Veterans Affairs
2019-Present	Member, Nonprofit Program Oversight Board, Office of Research and Development, Veterans Health Administration, Department of Veterans Affairs
2020	Peer Reviewer, ZRD1 SPLO-K (01) 2, BLRD COVID19 Special Emphasis Review Panel
2021	Moderator, Panel Discussion on Research Partnerships in “2021 Minority Summit: The Power of Collaborating with VA” June 9, 2021 (virtual).
2021-2022	Member, Internal Ops Improvement Governance Subcommittee, Office of Research and Development, Veterans Health Administration.

2022-2025	Elected Member-Region 1, Field Research Advisory Committee, Department of Veterans Affairs
2022-2024	Member, Org Alignment Subcommittee, Office of Research and Development, Veterans Health Administration.
2024	Member, ACOS-R Planning committee for 2024 ACOS-R & NAVREF Joint Conference

American College of Cardiology

2018	Abstract Reviewer for 2019 ACC Scientific Sessions
2019	Abstract Reviewer for 2020 ACC Scientific Sessions
2020-2023	Member, Research Fellowship Awards Committee
2021	Proposal Reviewer, CTR Proposals, ACC
2023	Abstract Captain- Pulmonary Vascular Disease: Basic and Translational Science for ACC 2024
2024	Poster moderator: Spanning the Spectrum of Pulmonary Vascular Disease-04/06/24, ACC 2024 Co-Chair: Defining and Managing the Failing Right Ventricle the Right Way-04/08/2024, ACC 2024

Other

2012-present	Organizer, Cardiology Grand Rounds, Division of Cardiology, Alpert Medical School
2014-Present	Member, Board of Directors, Ocean State Research Institute, Providence RI
2015	Peer Reviewer of DEANS Award Grant Application, Alpert Medical School

2015- Present	Member, Peer Review Panel- CardioPulmonary Vascular Biology (CPVB) COBRE pilot projects
2016-2018	Member, Internal Advisory Committee, CardioPulmonary Vascular Biology (CPVB) COBRE
2016-2022	Member, Internal Advisory Committee, Rhode Island Institutional Development Award for Clinical and Translational Research
2016	Peer Reviewer, Rhode Island Institutional Development Award for Clinical and Translational Research Pilot Projects
2017	Member, Self-Study Group, Cardiovascular Diseases Fellowship Program, Brown University
2017	Invited Grant Reviewer, Collaborative Research Stimulus (CRS) initiative at American University of Beirut, Lebanon
2017	Facilitator, Poster Session, 12th Pulmonary Vascular Research Institute Annual World Congress, Singapore Jan 2018
2017	Invited Grant Reviewer, The Dunhill Medical Trust, United Kingdom
2018-Present	Member, Executive Committee, CardioPulmonary Vascular Biology (CPVB) COBRE
2018-Present	Member, Data Safety Monitoring Board, Mindfulness-Based Blood Pressure Reduction (UH3)
2018-Present	Review Panel, Lifespan Cardiovascular Institute's Fellow and Faculty Pilot Awards.
2019-Present	Member, Steering Committee of the Biomedical Informatics Core of Advance-CTR, Rhode Island Institutional Development Award for Clinical and Translational Research

2020	Moderator, Two Poster Sessions, Pulmonary Vascular Research Institute Annual World Congress, Lima, Peru- Jan 2020
2020- Present	Member, Institutional Advisory Committee (IAC) for the COBRE Center of Neuromodulation (CCN), Butler Hospital
2020- Present	Chair, Governance Committee, Ocean State Research Institute
2023	Chair, Session “Cardiopulmonary Crossroads” at Keystone Joint Conference: Heart Failure: All Cells Considered and Pulmonary Hypertension: State of the Art and Therapeutic Opportunities.
2023	Session Chair, 1 st Brown Biomed Research Retreat
2024-	Elected Member, National Committee of National Association of IDeA Principal Investigators (COBRE/CTR/I-RED representative for the Northeast Region IDeA states)
2024	Session Chair, 2 nd Brown Biomed Research Retreat
2024	Co-Chair and Organizer, Advances in Right Heart Biology: From Physiology to Therapeutics. Providence RI 2024

Editorial Board/ Reviewer:

2018-	Member, Editorial Board, Physiological Reports
2018-	Member, Editorial Board, Journal of Geriatric Cardiology
2020-2021	Member, Editorial Board, Echocardiography
2021-2022	Associate Editor, Frontiers in Cardiovascular Medicine

Ad Hoc Reviewer:

Circulation

Circulation- Cardiovascular Quality and Outcomes

Journal of the American College of Cardiology

Nature Clinical Practice Cardiovascular Medicine

Atherosclerosis Thrombosis and Vascular Biology

Journal of the American Heart Association

Lung

Journal of Respiratory Diseases

Journal of Applied Physiology

Journal of Physiology

Channels

Peptides

Regulatory Peptides

Journal of Pharmacy and Pharmacology

American Journal of Respiratory Cell and Molecular Biology

American Journal of Respiratory and Critical Care Medicine

Acta Physiologica

Proceedings of the American Thoracic Society

Pflugers Archiv-European Journal of Physiology

Archives of Internal Medicine

Pulmonary Circulation

Echocardiography

Vascular Pharmacology

BBA- Biomembranes

PLoS One

JAMA Cardiology

JAMA Internal Medicine

British Medical Journal

Scientific Reports

Respiratory Research

Physiological Reports

British Journal of Pharmacology

Heart

International Journal of Cardiology

Cardiovascular Research

Lancet Respiratory Medicine

COMMITTEE SERVICE

University

2006-2008

Member, IT Working Group, Curriculum Redesign
Committee, Brown Medical School

2010-2012	Member, Academic Technology Steering Committee, Brown University
2015-Present	Member, Council of Chairs, Alpert Medical School of Brown University
2017-2020	Member, Medical Faculty Executive Committee (MFEC), Alpert Medical School of Brown University: Grievance subcommittee, Communications taskforce and Bylaws subcommittee
2018-2019	Member, Self-Study Subcommittee for LCME Accreditation Site Visit- Standard 1: Mission, Planning, Organization and Integrity, and Standard 2: Leadership and Administration
2020-	Member, Bioimaging Advisory Committee, Brown University
2022-	Animal Care Governance Committee, Brown University
2023-	Proteomics Core Facility Advisory Board, Brown University
2023	Member, Promotion Committee, Dept. of Molecular Biology, Cell Biology & Biochemistry

Hospital

2005- 2009	Member, Advanced Clinic Access Committee, Providence VA Medical Center, Providence, RI
2005- 2009	Associate Chair and Member, Research & Development Committee, Providence VA Medical Center, Providence, RI
2006-Present	Member, Physician and Dentist Compensation Panel
2008	Member, Peer-review Committee
2010	Acting Chair, Research & Development Committee, Providence VA Medical Center, Providence, RI
2011-2014	Chair, Research & Development Committee, Providence VA Medical Center, Providence, RI
2013-2014	Member (At Large), Clinical Leadership Committee, Providence VA Medical Center, Providence, RI
2014- Present	Member, Clinical Leadership Committee, Providence VA Medical Center, Providence, RI

2014- Present	Member, Medical Executive Committee, Providence VA Medical Center, Providence, RI
2014- Present	Member, Strategic Planning Committee, Providence VA Medical Center, Providence, RI
2016- Present	Member, Executive Governing Board, Providence VA Medical Center, Providence, RI
2016- Present	Member, Deans Committee, Providence VA Medical Center, Providence, RI
2015- Present	Member, Steering Committee, VA Health Services Research and Development- Center for Innovation- Long Term Services and Support, Providence VA Medical Center
2016-Present	Member (Ex officio), Institutional Review Board, Providence VA Medical Center
2016-Present	Member (Ex officio), Institutional Animal Use and Care Committee, Providence VA Medical Center
2016-Present	Member (Ex officio), Research Safety Committee, Providence VA Medical Center
2016-Present	Member (Ex officio), Research and Development Committee, Providence VA Medical Center

VISN1

2005 Member, Working group for development of VISN-wide service agreements and consult templates

Department/Division

2014- 2023 Chair, Clinical Competency Committee, Brown Cardiology Fellowship Program

Search Committees

2015 Member, Search Committee- Assistant/ Associate Professor in Medicine- Cardiology.

2016 Member, Search Committee- Chair of the Department of Pathology and Laboratory Medicine, Brown University

2017	Chair, Search Committee, Assistant/ Associate Professor in Medicine- Cardiology.
2017	Member, Search Committee, Chief of Pathology, Providence VA Medical Center.
2017	Member, Search Committee, Investigator at the rank of Assistant/ Associate Professor in the Department of Medicine/Miriam Hospital/Rhode Island Hospital.
2018	Member, Search Committee, Tenure Track or Tenured Position in Molecular and Cellular Biology of Alzheimer's Disease and Neurodegeneration, Brown University
2019	Member, Search Committee, Chief of Medical Service, Providence VA Medical Center
2021	Member, Search Committee, Research Biologist, Providence VA Medical Center/ Brown University
2021	Chair, Search Committee, Chief of Cardiology, Providence VA Medical Center
2021	Chair, Search Committee, Investigator, Cardiovascular Research Center, Associate or full Professor, Alpert Medical School
2021	Member, Search Committee, Senior Associate Dean for Medical Education, Alpert Medical School.
2023	Member, Search Committee, Chief of Pathology, Providence VA Medical Center.
2024	Chair, Search Committee, Chief of Pulmonary, VA Providence Healthcare System

CURRENT MEMBERSHIP IN SOCIETIES

2001	Member, American Heart Association
2001	Member, American College of Cardiology
2006	Fellow, American College of Cardiology
2010	American Thoracic Society

2015	Member, Pulmonary Vascular Research Institute
2019	Fellow, American Heart Association

PATENT APPLICATION

Compositions And Methods For Treating Right Ventricle Dysfunction. **G Choudhary**, P Zhang - US Patent App. 18/533,784, 2024. Pending.

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

*Corresponding author, # Shared first author, § Trainee/Mentee

1. Wang R, Zagariya A, Ibarra-Sunga O, Gidea C, Ang E, Deshmukh S, **Choudhary G**, Baraboutis J, Filippatos G and Uhal BD. Angiotensin II Induces Apoptosis in Human and Rat Alveolar Epithelial Cells. *Am J Physiol*. 1999 May; 276(5 Pt 1):L885-9.
2. Wang R, Alam G, Zagariya A, Gidea C, Pinillos H, Lalude O, **Choudhary G**, Oezatalay D, Uhal BD. Apoptosis of Lung Epithelial Cells in Response to TNF- α Requires Angiotensin II Generation de Novo. *J Cell Phys*. 2000 Nov; 185(2): 253-9.
3. Kumar A, **Choudhary G**, Antonio C, Just V, Jain A, Heaney L, Papp MA. Carvedilol Titration in Patients with Congestive Heart Failure Receiving Inotropic Therapy. *Am Heart J*. 2001 Sep;142(3):512-5.
4. **Choudhary G**, Shang L, Li X, Dudley SC Jr. Energetic Localization of Saxitoxin in its Channel Binding Site. *Biophysical Journal*. 2002; 83: 912-919.
5. **Choudhary G**, Dudley SC Jr. Heart Failure, Oxidative Stress and Ion Channel Modulation. *Congestive Heart Failure*. 2002; 8:148-155.
6. **Choudhary G**, Yotsu-Yamashita M, Shang L, Yasumoto T, Dudley SC Jr. Interaction of C-11 hydroxyl of Tetrodotoxin with the Sodium Channel Outer Vestibule. *Biophysical Journal* 2003. Jan;84(1):287-94
7. Yotsu-Yamashita M, Kim YH, Dudley SC Jr, **Choudhary G**, Pfahnl A, Oshima Y, Daly JW. The structure of zetekitoxin AB, a saxitoxin analog from the Panamanian golden frog Atelopus zeteki: a potent sodium-channel blocker. *Proc Natl Acad Sci U S A*. 2004 Mar 30;101(13):4346-51. Epub 2004 Mar 22.
8. Sebastian CC§, Wu WC, Shafer M, **Choudhary G**, Patel PM. Pneumopericardium And Pneumothorax After Permanent Pacemaker Implantation. *Pacing Clin Electrophysiol*. 2005 May;28(5):466-8.
9. Wu WC, Sharma SC, **Choudhary G**, Coulter L, Coccio E, Eaton CB. Flow Mediated Vasodilation Predicts the Presence and Extent of Coronary Disease Assessed by Stress Thallium Imaging. *J Nucl Cardiol*. 2005 Sep-Oct;12(5):538-44
10. Ziv O§ and **Choudhary G***, Atrial Fibrillation. *Prim Care*. 2005 Dec;32(4):1083-107

11. Klinger JR, Murray JD, Casserly B, Alvarez DF, King JA, An SS, **Choudhary G**, Owusu-Sarfo AN, Warburton R, Harrington EO. Rottlerin causes Pulmonary Edema in vivo: A Possible Role for PKCδ. *Appl Physiol*. 2007 Dec;103(6):2084-94.
12. **Choudhary G***, Aliste MP, Tielemans DP, French RJ, Dudley SC Jr.. Docking of Conotoxin GIIIA in Voltage-gated Sodium Channel. *Channels*, 2007 Sep-Oct; 1(5):344-352
13. Khatana S.A.M., Taveira T.H., **Choudhary G**., Eaton C.H., Wu W-C. Change in Hemoglobin A1C and C-Reactive Protein Levels in Patients with Diabetes Mellitus. *Cardiometab Syndr*. 2009 Spring;4(2):76-80
14. Simon A[§], Harrington EO, Liu GX, Koren G, **Choudhary G***. Mechanism of C-type Natriuretic Peptide-Induced Endothelial Cell Hyperpolarization. *American Journal of Physiology – Lung Cellular and Molecular Physiology*. 2009 Feb;296(2):L248-56.
15. Simon A[§], Liu GX, Koren G, **Choudhary G***. cANF Causes Endothelial Cell Hyperpolarization By Activation of Chloride Channels. *Peptides*. 2009. Dec;30(12):2337-42.
16. **Choudhary G*#**, Shin V, Punjani S[§], Ritter N, Sharma SC, Wu WC. The Role of Calcium Score and CT Angiography in The Medical Management of Patients with Normal Myocardial Perfusion Imaging. *J Nucl Cardiol*. 2010 Jan-Feb;17(1):45-51.
17. Vang A[§], Mazer J[§], Casserly B[§], **Choudhary G***. Activation of Endothelial BK_{Ca} Channels Causes Pulmonary Vasodilation. *Vascul Pharmacol*. 2010 Sep-Oct;53(3-4):122-9.
18. Erzurum S, Rounds SI, Stevens T, Aldred M, Aliotta J, Archer SL, Asosingh K, Balaban R, Bauer N, Bhattacharya J, Bogaard H, **Choudhary G**, Dorn GW 2nd, Dweik R, Fagan K, Fallon M, Finkel T, Geraci M, Gladwin MT, Hassoun PM, Humbert M, Kaminski N, Kawut SM, Loscalzo J, McDonald D, McMurry IF, Newman J, Nicolls M, Rabinovitch M, Shizuru J, Oka M, Polgar P, Rodman D, Schumacker P, Stenmark K, Tuder R, Voelkel N, Sullivan E, Weinshilboum R, Yoder MC, Zhao Y, Gail D, Moore TM. Strategic Plan for Lung Vascular Research: An NHLBI-ORDR Workshop Report. *Am J Respir Crit Care Med*. 2010 Dec 15;182(12):1554-62.
19. **Choudhary G***, Atalay MK, Ritter N, Shin V, Grand D, Pearson C, Kirchner RM, Wu WC. Interobserver Variability in the assessment of coronary stenosis by Multi-Detector Computed Tomography. *J Comput Assist Tomogr*. 2011 Jan-Feb;35(1):126-34.
20. Punjani S[§], Wu WC, Cohen S[§], Sharma SC, **Choudhary G***. Echocardiographic indices of diastolic function relate to functional capacity and quality of life in ambulatory men with atrial fibrillation. *Journal of American Society of Echocardiography*. 2011. May;24(5):533-540.
21. **Choudhary G***, Troncales F[§], Martin D[§], Harrington E. O., Klinger JR. Bosentan Attenuates Right Ventricular Hypertrophy and Fibrosis in Normobaric Hypoxia Model of Pulmonary Hypertension. *Journal of Heart and Lung Transplantation*. 2011. Jul;30(7):827-33.
22. Jankowich,M, **Choudhary G**, Taveira TH, Wu WC. Age-, Race-, and Gender-Specific Prevalence of Diabetes among Smokers. *Diabetes research and clinical practice*. 2011; 93(3):e101-5.

23. Grinnell K, Duong H, Newton J, Rounds S, **Choudhary G**, Harrington EO. Heterogeneity in Apoptotic Responses of Microvascular Endothelial Cells to Oxidative Stress. *Journal of cellular physiology*. 2012; 227(5):1899-910.
24. Casserly B[§] , Mazer J[§] , Vang A[§] , Harrington EO , Klinger J , Sharon Rounds, **Choudhary G***. C-type Natriuretic Peptide Is a Pulmonary Vasodilator, But Does Not Improve Severe Pulmonary Hypertension. *Life Sciences*. 2011 Sep 26;89(13-14):460-6.
25. Patel N, Taveira TH, **Choudhary G**, Whitlatch H, Wu WC. Fasting Serum C-Peptide Levels Predict Cardiovascular and Overall Death in Non-Diabetic Adults. 2012. *Journal of the American Heart Association*. 2012 Dec;1(6):e003152.
26. Cohen S[§], Gaddam S[§], Wu W-C, Sharma S, **Choudhary G***. Right Ventricular Function Relates To Functional Capacity In Men With Atrial Fibrillation And Preserved Left Ventricular Ejection Fraction. *Echocardiography*. 2013 May;30(5):542-50.
27. Kim J[§], Gaddam S[§], Wu WC, Behera V[§], Sharma S, **Choudhary G***. Stratified Reporting of High Sensitivity Troponin I Assay is Associated with Suboptimal Management of Patients with Acute Coronary Syndrome and Intermediate Troponin Elevation. *J Clin Lab Anal*. 2013 Sep;27(5):402-6.
28. Maron BA#, **Choudhary G#**, Khan UA, Jankowich MD, McChesney H, Ferrazzani PA, Gaddam S, Sharma S, Optowsky AR, Bhatt DL, Rocco TP, Aragam JR. The Clinical Profile and Under-Diagnosis of Pulmonary Hypertension in U.S. Veteran Patients. *Circulation Heart Fail*. 2013 Sep 1;6(5):906-12.
29. Chatterjee S[§], Kim J[§], Dahhan A[§], **Choudhary G**, Sharma S, Wu W-C. Use of High-Sensitivity Troponin Assays Predicts Mortality in Patients with Normal Conventional Troponin Assays on Admission – Insights from a Meta-Analysis. *Clinical Cardiology*. 2013; 36(11):649-53.
30. **Choudhary G***, Jankowich M, Wu WC. Prevalence And Clinical Characteristics Associated With Pulmonary Hypertension In African-Americans. *PloS One*. 2013 Dec 16;8(12):e84264.
31. Maron BA, Goldstein RH, Rounds SI, Shapiro S, Jankowich M, Garshick E, Moy ML, Gagnon D, **Choudhary G**. Study design and rationale for investigating phosphodiesterase type 5 inhibition for the treatment of pulmonary hypertension due to chronic obstructive lung disease: the Tadalafil for Pulmonary Hypertension Associated with Chronic Obstructive Lung Disease (TADA-PhiLD) trial. *Pulm Circ*. 2013 Dec;3(4):889-97.
32. **Choudhary G***, Jankowich M, Wu W-C. Elevated Pulmonary Artery Systolic Pressure Predicts Heart Failure Admissions in African Americans: Jackson Heart Study. *Circulation Heart Fail*. 2014 Jul;7(4):558-64.
33. Sakhatskyy P, Miranda GA, Newton J, Lee CJ, **Choudhary G**, Vang A, Rounds S, Lu Q. Cigarette smoke-induced lung endothelial apoptosis and emphysema is associated with impairment of eIF2alpha and FAK signaling. *Microvasc Res*. 2014 Jul;94:80-9.
34. McCullough D[§], Vang A, **Choudhary G***. NS1619-induced vasodilation is enhanced and differentially mediated in chronically hypoxic lungs. *Lung*. 2014 Oct;192(5):811-7.

35. Mentz RJ, Greiner MA, DeVore AD, Dunlay SM, **Choudhary G**, Ahmad T, Khazanie P, Randolph TC, Griswold ME, Eapen ZJ, O'Brien EC, Thomas KL, Curtis LH, Hernandez AF. Ventricular Conduction and Long-Term Heart Failure Outcomes and Mortality in African Americans: Insights From the Jackson Heart Study. *Circulation Heart Fail.* 2015 Mar;8(2):243-51.
36. Steiner J, Wu W-C, Jankowich M, Maron BA, Sharma S, **Choudhary G***. Echocardiographic Predictors of Mortality in Patients with Pulmonary Hypertension and Cardiopulmonary Comorbidities. *PloS One.* 2015 Mar 16;10(3):e0119277.
37. Chichger H, Vang A, O'Connell K, Zang P, Harrington EO, Mende U, **Choudhary G***. PKC δ and βII Regulate Right Ventricular Fibrosis through p38 activation. *Am J Physiol Lung Cell Mol Physiol.* 2015 Apr 15;308(8):L827-36.
38. Liu Y, Xie A, Singh AK, Ehsan A, **Choudhary G**, Dudley S, Sellke FW, Feng J. Inactivation of Endothelial Small/Intermediate Conductance of Calcium-Activated Potassium Channels Contributes to Coronary Arteriolar Dysfunction in Diabetic Patients. *Journal of the American Heart Association.* 2015 Aug 24;4(8).
39. Charlton GT[§], Slomka T[§], Wu WC, **Choudhary G**. Right Ventricular Function is Associated with Left Ventricular Stroke Volume in Patients with Severe Aortic Stenosis and Preserved Ejection Fraction. *Echocardiography (Mount Kisco, N.Y.).* 2016; 33(5):749-55.
40. Maron BA, Hess E, Maddox TM, Opotowsky AR, Tedford RJ, Lahm T, Joynt KE, Kass DJ, Stephens T, Stanislawski MA, Swenson ER, Goldstein RH, Leopold JA, Zamanian RT, Elwing JM, Plomondon ME, Grunwald GK, Barón AE, Rumsfeld J, **Choudhary G**. Association of Borderline Pulmonary Hypertension With Mortality and Hospitalization in a Large Patient Cohort: Insights From the VA-CART Program. *Circulation.* 2016; 133(13):1240-8.
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ABSTRACTS

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99. Role of Mitochondrial Ca²⁺-Activated Cl-Channel anoctamin-1 and mitochondrial fusion protein OPA1 in pulmonary arterial hypertension. M Cypress, A Vang, A Fernandez-Nicolas, T Mancini, B Jhun, R Clements, **G Choudhary**, J O-Uchi. FASEB Journal. 2020; 30.
100. Right Ventricular Myoarchitecture is Associated With RV Function in Pulmonary Arterial Hypertension. D Bos, DLeichter, A Vang, A Fernandez Nicolas, M Nowruzpour, R Avazmohammadi, OP Leary, T Mancini, R Gilbert, **G Choudhary**. 2020. Circulation 142 (Suppl_3), A17254-A17254
101. Aortic Valve Calcification is Prognostic for Mild Cognitive Impairment. HE Chung, J Chen, JL Christensen, DS Ghosalkar, C Soares, A Chu, NR Shah, WC Wu, **G Choudhary**, AR Morrison. 2020. Circulation 142 (Suppl_3)
102. Acetylcholine Signaling and Endothelial to Mesenchymal Transition in Pulmonary Arterial Hypertension. A Fernandez Nicolas, A Vang, T Mancini, D Bos, R Clements, P Zhang, **G Choudhary**. 2020. Circulation. 142(Suppl_3):A17072.
103. Intrinsic Skeletal Muscle Dysfunction Does Not Explain Poor Exercise Capacity in Preclinical Models of Pulmonary Hypertension. D. Da Silva Goncalves Bos\$, P. Zhang, A. Vang, J. Feord, A. Park, T. J. Mancini, A. Fernandez Nicolas\$, J. D. McCullough, R. T. Clements, **G. Choudhary**. Am J Respir Crit Care Med 2021;203:A3672.
104. Pulmonary Artery To Aorta Diameter Ratio Derived From Lung Cancer Screening Ct Is Associated With All-Cause Mortality. H Chung , M Ramani , D Ghosalkar , A Chu, WC Wu, **G Choudhary**, A Morrison J Am Coll Cardiol. 2021 May, 77 (18_Supplement_1) 1362.
105. Duration Of Statin Therapy Is Associated With Coronary Artery Calcification In Patients Without History Of Obstructive CAD. H Chung, D Ghosalkar, A Chu, WC Wu, **G Choudhary**, A Morrison. J Am Coll Cardiol. 2021 May, 77 (18_Supplement_1) 1447.
106. Acute Functional Adaptation of the Right Ventricle in ARDS. R. Avazmohammdi, A. Vang, S. Neelakantan, T. Mancini, D. da Silva Goncalves Bos\$, **G. Choudhary**. Am J Respir Crit Care Med 2021;203:A3696.
107. Echo-Derived TAPSE/RVSP as a Measure of Ventricular-Arterial Coupling in Pulmonary Hypertension. E. Mendiola, D. da Silva Goncalves Bos, A. Vang, **G. Choudhary**, R Avaz. Oral Presentation, BMES 2021 Annual Meeting, October 6-9, 2021, Orlando, Florida.

108. Pulmonary Hypertension-Induced RV Hypertrophy and Dysfunction is Associated With Reduced Activity and Abundance of Complex IV in Respiratory Supercomplexes. Wenzhuo Ma , Alexander Vang , Scarlett Huck , Thomas Mancini , Preston Nicely , Peng Zhang , **Gaurav Choudhary** , Richard T Clements. Circulation. 2021;144:A14366
109. Impaired Mitochondrial Bioenergetics is Associated With Progression of Right Ventricular Dysfunction in Pulmonary Arterial Hypertension. Peng Zhang , Alexander Vang , Denielli da Silva Goncalves Bos , Julia Feord , Thomas Mancini , Alexander Park , **Gaurav Choudhary**. Circulation. 2021;144:A12388
110. A Deep Neural Network Detects Elevated Right Ventricular Systolic Pressure Using Data Captured from a Digital Stethoscope. Ling Guo , Urvi Tiwari , Emileigh Lastowski , John S Chorba , Suleman Ilyas , Caroline Currie , **Gaurav Choudhary** , John Maidens , Adam Saltman. Circulation. 2021;144:A9905
111. Reduction in activity and abundance of mitochondrial supercomplexes in right ventricle of pulmonary hypertension rats. W Ma, A Vang, S Huck, CC Muller, T Mancini, P Nicely, P Zhang, **G Choudhary**, RT Clements. Biophysical Journal. 2022. VOLUME 121, ISSUE 3, SUPPLEMENT 1, 507A-508A.
112. Chung H, Ghosalkar D, Chu A, Heath JR, Ho T, Wu W-C, **Choudhary G**, Morrison A. PULMONARY ARTERY TO AORTA RATIO DERIVED FROM LUNG CANCER SCREENING CT IS ASSOCIATED WITH COPD HOSPITALIZATION. Journal of the American College of Cardiology. 2022;79(9_Supplement):1251-. doi: doi:10.1016/S0735-1097(22)02242-2.
113. Khetpal V, Berkowitz J, Jiang L, Vijayakumar S, Ahmad K, Tcheugui JE, Menon A, Heffernan DS, **Choudhary G**, Rudolph J, Wu W-C, Erqou S. LONG-TERM OUTCOMES OF VETERANS WITH A DIAGNOSIS OF HEART FAILURE AFTER CORONAVIRUS-2019 (COVID-19) INFECTION. Journal of the American College of Cardiology. 2022;79(9_Supplement):2155-. doi: doi:10.1016/S0735-1097(22)03146-1.
114. Ngamdu KS, Ghosalkar D, Chung H, Lee C, Ho T, Chu A, Baig M, Wu W-C, **Choudhary G**, Morrison A. INCREASING DURATION OF STATIN THERAPY IS ASSOCIATED WITH HIGH CORONARY ARTERY CALCIUM SCORE. Journal of the American College of Cardiology. 2022;79(9_Supplement):1245-. doi: doi:10.1016/S0735-1097(22)02236-7.
115. CHRIS S. MANTSOUNGA; SHEILA SHARMA; CADENCE LEE; RACHEL CARLEY; **GAURAV CHAUDHARY**; ALAN R. MORRISON. Uncoupling of IL-1beta and VEGF-A Signaling Axis Contributes to Impaired Arteriogenesis in the Context of Aging and Diabetes Mellitus. Diabetes 2022;71(Supplement_1):484-P.
116. S Ilyas, PN Nicely, L Guo, L Pung, EK Asiedu, FV Lima, AE Saltman, **G Choudhary**. Evaluation of a Deep Learning Algorithm and Phonocardiography for Detecting Elevated Pulmonary Artery Systolic Pressure. Am J Respir Crit Care Med 2022;205:A5742
117. Isabel Chaput, Michael W. Cypress, Maria Landherr, Iuliia Polina, Yisang Yoon, Bong Sook Jhun, **Gaurav Choudhary**, Jin O-Uchi. A Ca²⁺-activated Cl- Channel Anoctamin-1 Regulates Mitochondrial Morphology. The FASEB Journal. Volume36, Issue S1. May 2022

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120. Xiaoxu Zhou, Neeta Adhikari, Michael W Cypress, Iuliia Polina, Maria Landherr, Isabel Chaput, Mark A Suckow, **Gaurav Choudhary**, Jin O-Uchi, Bong Sook Jhon. Mitochondrial PKD Activates Mitochondrial Fission and Proliferative Signaling in Cardiac Fibroblasts. *The FASEB Journal*. Volume36, Issue S1. May 2022
121. Sharma S, Mantsounga C, Neverson J, Lee C, Carley R, Butler C, Choudhary G, Morrison A. Abstract 335: Macrophage Interleukin-1 Beta Dependent Angiogenesis During Wound Healing. *Arteriosclerosis, Thrombosis, and Vascular Biology*, 11/30/2022, 42, S1, 1.335.
122. Lee C, Carley R, Mantsounga C, Sharma S, Neverson J, Butler C, Choudhary G, Morrison A.. Abstract 205: Macrophage Rac1-IL-1 β Signaling Axis Promotes Atherosclerotic Calcification. *Arteriosclerosis, Thrombosis, and Vascular Biology*, 11/30/2022, 42, S1, A205.
123. Louis D, Sheikh W, Saad M, Has P, Kennedy K Aronow H, Choudhary, G. Abstract 10384: Impact of Preexisting Pulmonary Hypertension on Outcomes in Patients Hospitalized with Covid-19. *Circulation* 10/30/2022, 146, A10384.
124. Peng Zhang, Alexander Vang, Denielli da Silva Goncalves Bos, Julia Feord, Eric Wang, Natalie D'Silva, Alexsandra Zimmer and Gaurav Choudhary. Abstract 14954: Mitochondrial C-Src Regulates Impaired Mitochondrial Bioenergetics in Right Ventricles in Pulmonary Hypertension. *Circulation*, 10/30/2022, 146, A14954.
125. Zimmer A, Zhang P, Wang E, Yalcin E, D'Silva N, Clements R, Choudhary G. Abstract 15253: Mitochondrial Trifunctional Protein HADHA Regulates Mitochondrial Cardiolipin Content in Right Ventricle in Pulmonary Hypertension. *Circulation*, 10/30/2022, 146, A15253.
126. Mantsounga Chris, Sharma Sheila, Lee Cadence, Neverson Jade, Carley Rachel, Choudhary Gaurav, Morrison, Alan R. Abstract P2066: Age-related Changes In Posttranscriptional Regulation Of Macrophage VEGF As A Mechanism Of Impaired Inflammatory Arteriogenesis. *Circulation Research*, 8/5/2022, 131, S1, AP2066.
127. T. Mukherjee, S. Neelakantan, **G. Choudhary**, and R. Avazmohammadi. Improved right ventricular strain estimation in rats using anisotropic diffusion filtering. In *Medical Imaging 2023: Ultrasonic Imaging and Tomography*. SPIE, 2023.
128. Peng Zhang, Denielli da Silva Goncalves Bos, Alexander Vang, Julia Feord, Danielle McCullough, Alexsandra Zimmer, Natalie D'Silva, Richard T Clements and Gaurav Choudhary. Reduced Exercise Capacity Occurs Before Intrinsic Changes In Skeletal Muscle In Experimental Rat Models Of Pulmonary Hypertension. *Circulation Research*. 2023;133:AP3030

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130. Chris S Mantsounga, Sheila Sharma, Julia Pierce, Rachel T Carley, Roberto Mendez, Edy Pineda, Elizabeth Amelotte, Elizabeth O Harrington, Gaurav Choudhary and Alan R Morrison. Impaired Inflammatory Angiogenesis in the Context of Aging is the Result of the Uncoupling of Macrophage Il-1beta-VEGF Expression and the Switch of VEGF Isoforms. Arteriosclerosis, Thrombosis, and Vascular Biology. 2023;43:A299
131. Sheila Sharma, Chris S Mantsounga, Cadence Lee, Jade Neverson, Julia Pierce, Elizabeth Amelotte, Rachel T Carley, Celia Butler, Gaurav Choudhary and Alan R Morrison. Impaired Macrophage Interleukin-1 β -Dependent Wound Healing In The Context Of Diabetes. Arteriosclerosis, Thrombosis, and Vascular Biology. 2023;43:A398
132. Cadence Lee, Chris S Mantsounga, Sheila Sharma, Rachel T Carley, Elizabeth Amelotte, Julia Pierce, Celia Butler, Gaurav Choudhary, Rachel Olson and Alan R Morrison. A Novel Humanized ACE2 Mouse Model For Evaluating COVID-19 Infection In Cardiovascular Disease. Arteriosclerosis, Thrombosis, and Vascular Biology. 2023;43:A262
133. Natalie D'Silva, Eric Wang, Alexander Vang, Naohiro Yano, Alexandra Zimmer, Alexey Fedulov, Peng Zhang and **Gaurav Choudhary**. : Epigenetic Regulation Of Endothelial Anoctamin1 In Pulmonary Arterial Hypertension. Arteriosclerosis, Thrombosis, and Vascular Biology. 2023;43:A427
134. Sunder Neelakantan, EDWARD P MANNING, Peng Zhang, **Gaurav Choudhary** and Reza Avazmohammadi. Right Ventricular Myocardial Stiffening is Associated With Pulmonary Arterial Stiffening in Pulmonary Hypertension. Circulation. 2023;148:A14407
135. Wenzhuo Ma, Peng Zhang, Kenneth Campbell, **Gaurav Choudhary** and Richard T Clements. Right Ventricle Dysfunction Correlates With Reduced Mitochondrial Respiratory Supercomplex Assembly In Human Hearts With Group II Pulmonary Hypertension. Circulation Research. 2023;133:AP3204
136. Tasnim F Imran, Thomas Garrett, Laura Parra, Daniel Arcuri, Christopher Nguyen, MATTHEW JANKOWICH, Reza Avazmohammadi, Michael Atalay, Wen-Chih H Wu and **Gaurav Choudhary**. Endothelin-1 And Procollagen Type-1 Carboxy-terminal Propeptide Are Associated With Functional Tolerance And Cardiac Structure And Function In Heart Failure With Preserved Ejection Fraction. Arteriosclerosis, Thrombosis, and Vascular Biology. 2023;43:A245
137. Rana Raza R Mehdi, Sunder Neelakantan, Eric Wang, Peng Zhang, **Gaurav Choudhary** and Reza Avazmohammadi. Contractile Adaptation Of The Right Ventricular Myocardium In Pulmonary Hypertension. Circulation Research. 2023;133:AP2008
138. Julia Berkowitz, Emilia Sigaityte, Zoltan Arany, Natalie A Bello, **Gaurav Choudhary**, Luc Djousse, Katharine French, Jacob Joseph, Mahnoor Khalid, Diana Lopez, Donya

- Mohebali, Athena Poppas, Marwa Sabe, Wen-Chih "Hank" Wu and Tasnim F Imran. Elevated Heart Rate at Diagnosis is Associated With Adverse Outcomes in Peripartum Cardiomyopathy. *Circulation*. 2023;148:A14760.
139. T F Imran, F Ataklte, D Lopez, D Mohebali, N A Bello, J M Gaziano, L Djousse, E Coglinease, Z Arany, M Sabe, K French, A Poppas, W Wu, **G Choudhary**. Clinical predictors of right ventricular dysfunction and association with adverse outcomes in peripartum cardiomyopathy. *European Heart Journal*, Volume 44, Issue Supplement_2, November 2023, ehad655.803
140. Jacob R Heath, Julia Pierce, Vincent Bryan Salvador, Tal A Chamdi, Peter Brodeur, Celia Butler, Wen-Chih Hank Wu, **Gaurav Choudhary**, Alan Morrison. Aortic Valve Calcification Is Associated With Peripheral Artery Disease Hospitalization. *J Am Coll Cardiol*. 2024 Apr, 83 (13_Supplement) 1440.
141. Ali A Khan, Fayez Fayad, Chan Woo Kim, Feven Ataklte, Athena Poppas, Zoltan P Arany, Wen-Chih Hank Wu, **Gaurav Choudhary**, Tasnim F Imran. Right Ventricular Dysfunction In Peripartum Cardiomyopathy Is Associated With Adverse Cardiovascular Outcomes And Lower Likelihood Of Left Ventricular Systolic Function Recovery: A Meta-Analysis. *J Am Coll Cardiol*. 2024 Apr, 83 (13_Supplement) 2426.
142. Peter Brodeur, Ahmed Shahab, Jacob R Heath, Celia Butler, Nishant R Shah, Wen-Chih Hank Wu, **Gaurav Choudhary**, Sebhate Erqou, Alan R Morrison. Aortic Valve Calcification And Clinical Outcomes In Patients With Low Coronary Artery Calcium. *J Am Coll Cardiol*. 2024 Apr, 83 (13_Supplement) 1407.
143. Shilpa Vijayakumar, David Louis, Emily Corneau, Sebhate Erqou, Stephen W Waldo, Wasiq Sheikh, Phinnara Has, Marwan Saad, J Dawn Abbott, Herbert D Aronow, Wen-Chih Hank Wu, **Gaurav Choudhary**. Effect Of Pulmonary Hypertension On Acute Covid-19 Related Outcomes. *J Am Coll Cardiol*. 2024 Apr, 83 (13_Supplement) 2120.
144. Zhang P, Zimmer A, Wei J, Khemchandani S, Zhu C, Wang E, **Choudhary G**. Mitochondrial c-Src Regulates Right Ventricular Fibroblast Metabolic Function and Activation in Pulmonary Hypertension. InD27. LATE BREAKING WAVE! LATE BREAKING ABSTRACTS IN PULMONARY VASCULAR DISEASE 2024 May (pp. A7137-A7137). American Thoracic Society.
145. Yao H, Hegarty K, Chang JI, Li X, Braza J, **Choudhary G**, Dennery PA. Reduced Endothelial Cpt1a Causes Endothelial and Pulmonary Vascular Remodeling in a Murine Model of Bronchopulmonary Dysplasia-associated Pulmonary Hypertension. InB24. WHALE WATCHING: A “RAPID” TOUR OF PAH PATHOGENESIS 2024 May (pp. A3127-A3127). American Thoracic Society.
146. Imran T, Parra L, Arcuri D, Wu WC, Atalay M, Nguyen C, **Choudhary G**. Characterizing Heart Failure with Preserved Ejection Fraction Using Cardiac Magnetic Resonance Diffusion Tensor Imaging. *Journal of Cardiovascular Magnetic Resonance*. 2024 Mar 1;26.
147. Imran T, **Choudhary G**, Terry J, Min YI, Jankovich MD. Preserved Ratio-Impaired Spirometry And Airflow Obstruction Have Differing Associations With Cardiovascular

Function On Cardiac MRI- The Jackson Heart Study. 2024. CHEST, Volume 166, Issue 4, A4883

148. Bronk P, Zhang P, Wang E, Radice G, Tran C, **Choudhary G**, Choi BR. Role of Inflammatory Cytokines in Triggering Ventricular Arrhythmias in Pulmonary Hypertension. Circulation. 2024 Nov 12;150(Suppl_1):A4143048.
149. Bronk P, Zhang P, Wang E, Lu Y, Banerjee D, Stanley M, sellke F, Radice G, **Choudhary G**, Tran C, Choi BR. Role of Cardiomyocyte Mechanotransduction in Triggering Atrial Arrhythmias in Pulmonary Hypertension. Circulation. 2024 Nov 12;150(Suppl_1):A4142747.

§ Trainee/Mentee

SCHOLARLY WORK PUBLISHED IN OTHER MEDIA

American Society of Nuclear Cardiologist Podcast: The Role of Calcium Score and CT Angiography in the Medical Management of Patients with Normal Myocardial Perfusion Imaging. **Choudhary G**. Released: 02/19/2010:

<http://www.asncpodcast.org/podcast.php?podcastID=25>

Choudhary G, Klinger JK. Inhaled Prostanoids in the Management of Pulmonary Hypertension. Focused review in Electronic version of Heart Diseases, 8th Edition, Ed. Eugene Braunwald, 2011, Elsevier.

Choudhary G. Echocardiographic Predictors of Mortality in Patients with Pulmonary Hypertension and Cardiopulmonary Comorbidities | Expert Analysis [May 28, 2015]. Accessed 06/04/2015. [http://www.acc.org/latest-in-cardiology/articles/2015/05/27/09/37/echocardiographic-predictors-of-mortality-in-patients-with-pulmonary-hypertension-and-cardiopulmonary-comorbidities?w_nav=LC#sthash.S19ThkH9.dpuf].

PRESENTATIONS

Local:

1. Pulseless Electrical Activity. *Medical Grand Rounds, Michael Reese Hospital, Chicago IL. January 2000*
2. Effect of N^G- Nitro -L- Arginine Methyl Ester (L-NAME) on Production of Testosterone in Leydig Cells in Sepsis. *Poster and Slide presentation at Michael Reese Hospital, Department of Medicine Research Fair. February 9, 1999*
3. Carvedilol Titration in Class IIIb and IV CHF Patients, on Ionotropic Therapy. *Slide presentation at Michael Reese Hospital, Department of Medicine Research Fair. March 2000.*
4. Sulfated Toxin as Probe for Voltage-gated Sodium Channel. *Slide Presentation in Fellows research Symposium, Emory University, June 2001.*

5. Quantitative analysis of stem cell derived cardiomyocytes using FACS. *Poster presentation in Fellows Research Symposium, Emory University, June 2001*
6. Exploring the Binding Site of Type I Anti-Arrhythmic Drugs. Slide Presentation in Research Symposium, Emory University, June 2002.
7. Familial Hyperlipidemia- Case Presentation. Cardiology Grand Rounds, Emory University, Atlanta GA. 2003
8. OSA and CV Diseases- Is there a role for C-type Natriuretic Peptide?- Research Conference, Providence VAMC; Jan 2005
9. Modalities to assess Endothelial Function- Research Conference, Providence VAMC; May 2005
10. Hypoxia, CNP and Pulmonary Vascular Function- Pulmonary Research Conference, Brown University/ Rhode Island Hospital; November 2005
11. Ultrafine Particles and Endothelial Function. – Research Conference, Providence VAMC; February 2006
12. CNP and Endothelial Ion Channels- Research Seminar, Cardiovascular Research Center, Rhode Island Hospital, October 2006
13. Update in Internal Medicine: Chronic Stable Angina. Medicine and Primary Care Combined Grand Rounds. Providence VAMC. December 2007
14. Role of C-type Natriuretic Peptide in Pulmonary Vascular Function. The Division of Surgical Research Seminar Series, Rhode Island Hospital. December 2007
15. Natriuretic Peptide Receptor-C and endothelial membrane potential. Research Seminar, Cardiovascular Research Center, Rhode Island Hospital, January 2008
16. BK Channels and Endothelial Function. Research Seminar, Cardiovascular Research Center, Rhode Island Hospital, May 2009.
17. Endothelial large-conductance calcium activated potassium (BK_{Ca}) channels and pulmonary endothelial function. Pulmonary Research Conference, Brown University/ Rhode Island Hospital; January 2010.
18. Sodium Channel. Clinical EP Conference, Rhode Island Hospital; March 2010
19. Diastolic Heart Failure. Basic Methodology in Cardiovascular and Pulmonary Research Seminar. Cardiovascular Research Center, Rhode Island Hospital; July 2010.
20. Acrolein. Research Conference, Providence VAMC; January 2011
21. Cardiopulmonary Effects of Cigarette Smoke- Role of Acrolein. Organic Chemistry Seminar, Department of Chemistry, Brown University. 09/20/2011.

22. Endothelial BK channels in Hypoxic Pulmonary Hypertension. Research Seminar, West Roxbury VA Medical Center, Boston, MA. August 2012.
23. Update in Internal Medicine: Pulmonary Hypertension. Medicine and Primary Care Combined Grand Rounds. Providence VAMC. January 2013
24. Non-Pulmonary Arterial Hypertension Pulmonary Hypertension. Medicine Grand Rounds. Memorial Hospital of Rhode Island. January 2013
25. Diastolic Function In Atrial Fibrillation. Cardiology Grand Rounds, Division of Cardiology, Alpert Medical School of Brown University, February 14, 2014.
26. Pulmonary Hypertension and Right Ventricular Fibrosis. Brown Institute of Respiratory Diseases Seminar. April 2015.
27. Pulmonary Hypertension in the Community:
Epidemiology, Prognosis and Treatment Targets. Cardiovascular Institute/ Brown University. Cardiology Grand Rounds. May 2015.
28. Pulmonary Hypertension and Right Ventricular Fibrosis. Rhode Island Hospital-Cardiovascular Research Center. March 2016.
29. Pulmonary Hypertension and RV fibrosis. Rhode Island Hospital- Cardiovascular Research Center. April 2017
30. Angiotensin Receptor Blocker-Neprilysin Inhibitor in Pulmonary Hypertension: A New Treatment Option? Rhode Island Hospital- Cardiovascular Research Center. March 2018
31. Right Ventricular Fibrosis in Pulmonary Hypertension. Cardiology Conference. Providence VA Medical Center. Nov 2018
32. Pulmonary Hypertension Research Program at Providence VA Medical Center.
Presentation to visiting delegation from Wuhan University, China at Cardiovascular Research Center, Rhode Island Hospital. Nov 2018
33. Exercise Intolerance in Pulmonary Hypertension: Complex or Supercomplex. Research Conference, Vascular Research Lab, Providence VAMC; March 2019.
34. Bench to Bedside Series: RV Function in Pulmonary Hypertension. Brown Pulmonary Research Conference, Rhode Island Hospital, Providence April 2019.
35. Pulmonary Hypertension -Not A Rare Condition! Lessons from the VA & Other Large Cohorts. Cardiology Grand Rounds. Brown University. 12/13/2019.
36. Right Ventricular Fibrosis and Right Ventricular Function in Pulmonary Hypertension. Vascular Research Lab, Providence VAMC; April 2020.
37. Right Ventricular Fibrosis and Right Ventricular Function in Pulmonary Hypertension. Cardiovascular Research Center, Rhode Island Hospital; April 2020.

38. Right Ventricular Remodeling in Pulmonary Hypertension. Vascular Research Lab, Providence VAMC; April 2021.
39. Exercise Intolerance in Pulmonary Hypertension: Role for Skeletal Muscle Dysfunction. Cardiovascular Research Center, Rhode Island Hospital; April 2021.
40. Pulmonary Hypertension and RV fibrosis: A Common Disease and A Novel Therapeutic Target. Cancer COBRE Seminar. November 2021
41. Improving RV energetics in PH. Vascular Research Lab, Providence VAMC; November 2021.
42. Right Ventricular Remodeling in PH: Myoarchitecture and Metabolism. Cardiovascular Research Center, Rhode Island Hospital; March 2022.
43. Panelist and talk: Pulmonary Hypertension and RV fibrosis: A Common Disease and A Novel Therapeutic Target. Brown's American Physician Scientist Association (APSA) Chapter Meeting 2023
44. Panelist: AI in Cardiology. Organized by Alpert Medical School AI Interest Group. November 30, 2023
45. Pulmonary Hypertension: Definition, Epidemiology and Novel Therapeutic Targets. Cardiology Grand Rounds, VA Providence. January 4th, 2024
46. Failing under Pressure: Mechano-Energetic Uncoupling in Right Ventricle in PH Cardiac and Vascular Biology Seminar, VA Providence, May 17th 2024

Regional:

47. CNP and Endothelial Membrane Potential. Poster presentation, RI-INBRE Retreat, Newport, RI. January 2007
48. Diagnostic Tests in Cardiovascular Diseases. Certified Diabetes Outpatient Educator-Cardiovascular Diseases Course. RI Department of Health. 10/2009 & 01/2011.
49. Diagnosis and Assessment of Pulmonary Hypertension. Pulmonary Hypertension Association (PHA) Providence Preceptorship Symposium Presentation. September 2015
50. Pulmonary Hypertension in the Community: Epidemiology, Prognosis and Treatment Targets. Brigham and Women's Hospital. Pulmonary Vascular Disease Conference Grand Rounds. April 2015.
51. Right Ventricular Fibrosis in Pulmonary Hypertension. Pulmonary Vascular Disease Seminar. Brigham and Women's Hospital. April 2018.
52. Pulmonary Hypertension Epidemiology and Treatment Targets: Lessons from the VA and Other Large Cohorts. West Roxbury VA Medical Center. October 2019.
53. VICROTY-PACT, VISN1 Military Exposure Research Consortium, Annual VISN1 Clinical Trials Network Meeting, Worcester, MA September 2023.

54. Invited Member, Panel Discussion: Providence Business News, Emerging Industries Summit, Panel on Life Sciences/ Biotech. March 14th 2024, Providence RI.
55. Vascular Research Lab Presentation: Failing under Pressure: Mechano-Energetic Uncoupling in Right Ventricle in PH. 5.12.2024
56. VA Cardiology Grand Rounds, Providence. Pulmonary Hypertension: Definition, Epidemiology and Novel Therapeutic Targets. 01.04.2024
57. Advance RI-CTR Clinical and Translational Research Seminar Series. September 12, 2024. "Pulmonary Hypertension: Definition, Epidemiology and Novel Therapeutic Targets"

National:

58. Mechanism of Natriuretic Peptide Mediated Vasodilation. Poster presentation, Grover Conference, CO, September 2008
59. Mechanism of Natriuretic Peptide Mediated Pulmonary Vasodilation. Northwestern University Young Investigator Forum, Chicago IL 2008
60. Endothelial large-conductance calcium activated potassium (BK_{Ca}) channels and pulmonary endothelial function. Northwestern University Young Investigator Forum, Chicago IL 2009
61. Large conductance calcium-activated potassium (BK) channel activation causes enhanced vasodilatation in hypoxic lung microvasculature. Grover Conference September 2011, Sedalia, Colorado.
62. Diagnosing Diastolic Dysfunction in Atrial Fibrillation. Cardiology Grand Rounds, University of Maryland, April 26, 2012.
63. Exposure To Cigarette Smoke Causes RV Dysfunction. Gaurav Choudhary, Pavlo Sakhatskyy, Qing Lu, Jason Aliotta, Sharon Rounds. Aspen Lung Conference, May 2012, Aspen, Colarado.
64. Protein Kinase C Regulation in Right Ventricular Fibrosis. Havovi Chichger, Alexander Vang, Peng Zhang, Ulrike Mende, Anlong Li, Elizabeth Harrington, Gaurav Choudhary. Grover Conference, CO, September 2013.
65. Right ventricular function predicts mortality in complex co-morbid pulmonary hypertension. Johannes Steiner, Matthew Jankowich, Wen-Chih Wu, Bradley A. Maron, Gaurav Choudhary. Grover Conference, CO, September 2013.
66. Pulmonary Hypertension and Right Ventricular Fibrosis. Vascular Medicine Institute/ Heart and Vascular Institute Seminar. University of Pittsburgh. November 2016
67. Pulmonary Hypertension and Right Ventricular Fibrosis. Department of Anesthesiology Visiting Professor Program. University of San Diego. May 2018.

68. Right Ventricular Fibrosis in Pulmonary Hypertension. Lillehei Heart Institute Lecture, University of Minnesota, September 2019.
69. Pulmonary Hypertension and RV fibrosis: a common disease and a novel therapeutic target. Rutgers RWJ Medical School, Cardiology Zoom Seminar. June 2020.
70. Pulmonary Hypertension Epidemiology and Treatment Targets: Lessons from the VA and Other Large Cohorts. Invited Seminar (Zoom). Eko Health.
71. Pulmonary Hypertension -Not A Rare Condition! Lessons from the VA & Other Large Cohorts. Pulmonary Critical Care Grand Rounds. Emory University. 01/21/2021.
72. Pulmonary Hypertension -Not A Rare Condition! Lessons from the VA & Other Large Cohorts. Medicine Grand Rounds. Rush University. 02/08/2023.
73. RV Updates from the Ocean State. Keynote Presentation, Advances in Right Heart Biology: From Physiology to Therapeutics. Providence RI 2024
74. Epidemiology of Pulmonary Hypertension and Therapeutic Targets for RV Dysfunction. UCLA Cardiovascular Theme, Distinguished Seminar Series. Los Angles, 12/09/24

International:

75. Endothelial large-conductance calcium activated potassium (BK_{Ca}) channels and pulmonary endothelial function. Poster presentation. Pittsburgh International Lung Conference, October 2009.
76. Moderator and Discussant, Abstract Oral Moderator and Discussant, Abstract Oral Session “New Insights into the Pathogenesis of Pulmonary Hypertension and Right Ventricular Failure”, American Heart Association Scientific Sessions, Orlando, FL, 2011
77. Case 4: Group 3 PH- Sleep Apnea. In Plenary Session: Clinical Case Round Table. 11th Pulmonary Vascular Research Institute Annual World Congress. Miami 2017
78. Mechanism Of Natriuretic Peptide (NP) Mediated Pulmonary Vasodilation. Jeffrey M. Mazer[§], Brian Casserly[§], Elizabeth O. Harrington, Gaurav Choudhary. Oral presentation at the AHA Scientific Sessions 2008.
79. Pulmonary Hypertension-Induced Exercise Intolerance Is Improved with Exercise and Correlates with Expression of Skeletal Muscle Respiratory Chain Proteins. N. Kue, A. Vang, D.J. McCullough, T. Mancini, R.T. Clements, G. Choudhary. Oral Presentation at American Thoracic Society International Conference, Washington DC 2017
80. Pulmonary Artery Stiffness Is Associated with Right Ventricular Fibrosis on Magnetic Resonance Imaging in Veterans with Pulmonary Hypertension. S. Abbasi[§], R. Hebel, A. Vang, WC. Wu, M. Jankowich, G. Choudhary. Poster Discussion at American Thoracic Society International Conference, Washington DC 2017

81. Pulmonary Hypertension in Obstructive Sleep Apnea: Clinical Profile and Treatment. Invited Presentation. In Session: Not All Pulmonary Hypertension Is Pulmonary Arterial Hypertension. American College of Cardiology, Annual Scientific Sessions. Orlando, FL. March 2018.
82. Invited Panelist. In Session: Not All Pulmonary Hypertension Is Pulmonary Arterial Hypertension. American College of Cardiology, Annual Scientific Sessions. Orlando, FL. March 2018.
83. Pulmonary Hypertension in the VA: A Unique Challenge. C3 Advanced Endovascular and Coronary Intervention Global Summit. Invited Speaker. In session: Veterans Affairs at C3. Orlando Florida. June 2018
84. Endurance Exercise Training In Pulmonary Hypertension Is Associated With Alterations In Electron Transport Chain Protein Expression And Supercomplex Assembly. R. Clements; DJ McCullough; N Kue; T Mancini; A Vang and G Choudhary. Poster Discussion at Pulmonary Vascular Research Institute Annual World Congress, Barcelona, Spain 2019
85. Right Ventricular Fibrosis In Pulmonary Hypertension Is Mediated By Ach/Nachr Signaling. Alexander Vang, Jamila H. Siamwala, N. Richard Kue, Thomas. J. Mancini, Danielle. J. McCullough, Ayed Allawzi, Richard Clements, Gaurav Choudhary. Invited Oral Presentaion. Thomas L. Petty Aspen Lung Conference, Denver CO. June 2019.
86. Right Ventricular Fibrosis and Right Ventricular Function in Pulmonary Hypertension. Invited Presentation. Pulmonary Vascular Research Institute Annual World Congress, Lima, Peru 2020
87. Role of bone marrow in the right ventricle remodeling. In “Bone marrow modulation of pulmonary vascular disease” session. PVRI 2022 Webinar 02/2022
88. Development and Evaluation of a Deep Learning-Based Pulmonary Hypertension Screening Algorithm Using a Digital Stethoscope. Featured Abstract Presentation. Pulmonary Vascular Research Institute Annual World Congress, London, UK. 2024

BOOKS AND BOOK CHAPTERS

1. **Gaurav Choudhary, M.D.** and Wen-Chih Wu, M.D. Atrial Myxoma In: Ferri's Clinical Advisor 2006 (p. 108) Elsevier Science
2. **Gaurav Choudhary, M.D.** and Wen-Chih Wu, M.D. Ventricular Septal Defect. In: Ferri's Clinical Advisor 2006 (p. 898-899) Elsevier Science
3. **Gaurav Choudhary, M.D.** and Wen-Chih Wu, M.D. Tricuspid Stenosis. In: Ferri's Clinical Advisor 2006 (p. 862) Elsevier Science
4. Russell Linsky, M.D. § and **Gaurav Choudhary,M.D.** Tricuspid Regurgitation. In: Ferri's Clinical Advisor 2006 (p. 860-861) and 2008 Elsevier Science (p. 920-922)

5. **Gaurav Choudhary, M.D.** and Wen-Chih Wu, M.D. Tetrology of Fallot. In: Ferri's Clinical Advisor 2006 (p. 83-1832), Elsevier Science
6. Steven B. Weinsier, M.D. § and **Gaurav Choudhary, M.D.** Cor Pulmonale. In: Ferri's Clinical Advisor 2007 (p. 220) Elsevier Science
7. Shalin B. Mehta, M.D. § and **Gaurav Choudhary, M.D.** Cardiac Tamponade.. In: Ferri's Clinical Advisor 2007 (p. 153) Elsevier Science
8. **Gaurav Choudhary, M.D.** and Jason Iannuccilli, M.D. Pulmonary Hypertension. Ferri's Clinical Advisor 2008, (p. 758-760) Elsevier Science
9. **Gaurav Choudhary, M.D.** and Peter Petropoulos, M.D. Altitude Sickness. In: Ferri's Clinical Advisor 2008 (p. 39-40) Elsevier Science
10. Hemchand Ramberan, M.D. and **Gaurav Choudhary, M.D.** Pneumothorax, Spontaneous. In: Ferri's Clinical Advisor 2008 (p. 710-711) Elsevier Science
11. Matthew Jankowich, **Gaurav Choudhary**, Sharon Rounds. Hypoxia and the Pulmonary Endothelium. In Pulmonary Endothelium. Ed. Norbert Voelkel, Sharon Rounds, 2009 (p. 287-302), Wiley-Blackwell, Oxford.
12. Douglas W. Martin, M.D. §, **Gaurav Choudhary, M.D.**, and Fred F. Ferri, M.D. Pulmonary Edema. In: Ferri's Clinical Advisor 2011 (p. 909-910) Elsevier Science
13. Frederick D. Troncales, M.D. § and **Gaurav Choudhary, M.D.** Pulmonary Embolism. In: Ferri's Clinical Advisor 2011 (p. 911-913), Elsevier Science
14. Johannes Steiner § and **Gaurav Choudhary, M.D.** Critical Care Echocardiography: Right Ventricular Dysfunction. In: Ultrasound in the Intensive Care Unit. Springer 2015
15. **Gaurav Choudhary** and Corey Ventetuolo. Epidemiology of Pulmonary Hypertension: From Quaternary Referral Centre to the Community. In Pulmonary Hypertension: Basic Science to Clinical Medicine. Springer 2016.
16. Rana Raza Mehdi, Emilio A. Mendiola, Adam Sears, Jacques Ohayon, **Gaurav Choudhary**, Roderic Pettigrew, and Reza Avazmohammadi. Comparison of three machine learning methods to estimate myocardial stiffness. In: Reduced-order Models for the Biomechanics of Living Organs" Academic Press, 2023, Pages 363-382.

§ Trainee/Mentee

GRANTS

Principal Investigator/ Co-Investigator (Investigator Initiated Studies):

Active:

10/01/2024- 09/30/2028

BX006287 VA Merit Review (Choudhary)
Title: Role of HADHA in regulating right ventricular mitochondrial structure and energetic function in pulmonary hypertension.
\$906,434
Role: PI

06/01/23-05/31/28

NIGMS- (NIH) (Choudhary)
Title: CardioPulmonary Vascular Biology COBRE
\$ 4,582,493
Role: PI

04/01/2024- 03/31/2028

NHLBI (NIH) R01HL169456 (Zhang and Choudhary, mPI)
Role of Mitochondrial c-Src in Right Ventricular Dysfunction in Pulmonary Hypertension
\$2,256,162
Role: mPI

07/01/2023- 06/30/2028

VA MERIT Review (Rounds)
Title: Effect of PDE5 inhibitor on respiratory symptoms in COPD complicated by pulmonary hypertension.
\$2,929,335 (in kind effort by Choudhary)
Role: Co-Investigator

07/01/2023- 06/30/2028

NHLBI R01HL166327 (Yao)
Title: Metabolic mechanisms underlying bronchopulmonary dysplasia-associated pulmonary hypertension
(effort by Choudhary)
Role: Co-Investigator

9/15/2022-8/31/2025

NLHBI-R44 (NIH) R44HL166025 (Venkatraman and Choudhary)
Project: Deep learning for algorithmic detection of pulmonary hypertension using a combined digital stethoscope and single-lead electrocardiogram

	\$3,001,600 Role: co-Principal Investigator
8/1/24 - 5/31/28	NLHBI-R01 (NIH) Early Developmental Risk for Adult Cardiovascular Disease: High risk Subgroups, Biomarkers, and Mechanisms (Buka and Eaton). Sub award to Choudhary: \$1,019,163 Role: Co-Investigator
09/01/24 – 08/31/28	NHLBI R01 (O-Uchi and Jhun) Title: Role of ER-Mitochondria Contact Sites in Right Ventricular Fibrosis \$78,564 (subaward to Choudhary) Role: Co-I
08/10/21-07/09/26	U54 GM115677 (Rounds) Project: Advance Clinical and Translational Research (Advance-CTR) Role: Director, Pilot Projects Core, Co-Investigator Pilot Projects Core budget: \$3,270,698
09/01/24 – 08/31/25	R56HL172052 (Avazmohammadi) Title: Role of right ventricular passive remodeling in ventricular-arterial uncoupling in pulmonary hypertension Role: Co-Investigator Project/Proposal Start and End Date: Total Award Amount (including Indirect Costs): \$240,732 (subaward to Choudhary)
07/01/19-06/30/23, NCE 6/30/25	NLHBI-R01 (NIH) 1R01HL148727-01 (Choudhary), Project: Role of Endothelial Anoctamin-1 in Pulmonary Arterial Hypertension \$1,638,745 Role: Principal Investigator
05/10/21-05/31/23, NCE 5/31/25	NIGMS (NIH) 5P20GM103652-09 (Choudhary, Harrington), Project: CardioPulmonary Vascular Biology COBRE \$6,199,138 Role: Contact PI (MPI with E. Harrington)

Completed:

06/01/23-05/31/24	Administrative Supplement – Team Science Award to NIGMS- P30GM149398 (NIH) (Choudhary and Harrington) \$ 1,091,583 Role: Principal Investigator
07/01/19-06/30/23	MERIT REVIEW (VHA) (Choudhary) Project: Role of Skeletal Muscle Mitochondrial Supercomplexes in Exercise Intolerance \$650,000 Role: Principal Investigator
12/01/18-11/30/20	NHLBI 1R21HL145420-01 (Maron) Network medicine, risk stratification, and pulmonary hypertension Role: Co-Investigator
2015-2019 NCE 01/31/20	NLHBI-R01 (NIH) RHL128661A Project: Nicotinic Acetylcholine Receptors and RV Dysfunction in Pulmonary Hypertension. \$1,049,569 Role: Principal Investigator
2019-2022	DOD W81XWH-19-1-0763 (Savitz) Impact of Open Burn Pit Exposure on Respiratory and Cardiovascular Health Among Military Veterans Role: Co-Investigator
08/31/2019-12/31/2020 NCE 01/2022	Rhode Island Foundation PI: Sebhat Erqou Cardiopulmonary fitness, premature vascular aging, and subclinical cardiovascular disease in HIV Role: Co-Investigator
12/31/2019-12/31/2020 NCE 01/2022	Center for AIDS Research (CFAR) PI: Sebhat Erqou Epigenetic markers of aging in HIV and HIV-associated cardiac dysfunction Role: Co-Investigator

2013-2018 NCE 2018-2019	MERIT REVIEW (VHA) I01 CX000908 PI: Ronald Goldstein Project: Tadalafil for Pulmonary Hypertension Associated with Chronic Lung Disease. \$ 750,000 Role: Co-Investigator, Site Co-PI
2015-2018	Novartis (LCZ696BUSNC08T) Project: LCZ696 in Pulmonary Hypertension and Right Ventricular Dysfunction. Role: Principal Investigator
5/1/18 – 11/16/18	NGIMS-U54 (Brown University) (Padbury) Institutional Development Award (IDeA) Program Infrastructure for Clinical and translational Research-Clinical Translational Research- Grant Resubmission Award Project: Role of Skeletal Muscle Mitochondrial Supercomplexes in Exercise Intolerance \$20,000 Role: Subrecipient Principal Investigator
2011-2015	MERIT REVIEW (VHA) IBX000711A Project: Endothelial BKCa Channels and Hypoxic Pulmonary Endothelial Dysfunction \$ 650,000 Role: Principal Investigator
2014-2015	DEANS award- Alpert Medical School Period: 07/2014- 07/2015 Project: Nicotinic Acetylcholine Receptors in Right Ventricular Fibrosis Role: Co- PI (with Ed Hawrot, PhD) Shared Equipment Evaluation Program (VHA) Rodent Treadmill with Metabolic Cart \$ 64,080 Role: co-Principal Investigator
2014	
2012	Shared Equipment Evaluation Program (VHA) Multiple Lab Equipment \$422,352 Role: Principal Investigator

2009-2011	VA Career Development Award -2 (VHA) Extension Project: Role of endothelial BK _{Ca} channels in pulmonary endothelial function. \$ 130,000 Role: Principal Investigator
2011-2012	VA QUERI – HSR&D RRP 10-229 (Wu, WC) Project: Medical Center Implementation of PCMH in Acute CHF to Reduce Rehospitalization Rates \$100,000 Role: Co-Investigator
2010	Shared Equipment Evaluation Program (VHA) Slide Scanner (Aperio) and Electrophoresis setup (BioRad) \$188,832 Role: Principal Investigator
2009	Shared Equipment Evaluation Program (VHA) Gel Imaging Station (ImageQuant™ RT ECL™ Imager) \$28,416 Role: Principal Investigator
2008	Shared Equipment Evaluation Program (VHA) Visualsonics Vevo 770 Imaging System \$ 166,455 Role: Principal Investigator
2008	Actelion Pharmaceuticals Young Investigator Award Project: Role of Endothelin-Induced PKC delta Activation in Right Ventricular Hypertrophy. \$ 75,000 Role: Principal Investigator

2006-2009	VA Career Development Award -2 (VHA) Project: Role of C-type Natriuretic Peptide in Pulmonary Vascular Function. \$ 150,000 Role: Principal Investigator
2006-2007	RI-INBRE Pilot Award (NIH) Project: Role of C-type Natriuretic peptide in microvascular endothelial cell proliferation and apoptosis \$ 10,000 Role: Principal Investigator
2005-2006	Rhode Island Foundation: Medical Research Award Project: Role of C-type Natriuretic Peptide in Pulmonary Vascular Function \$ 10,000 Role: Principal Investigator

Multicenter Clinical Trials:

PREVENTABLE- Pragmatic Evaluation of Events and Benefits of Lipid-lowering in Older Adults

Sponsor: National Institute of Ageing

Trial Period: 2021-

Role: Site Principal Investigator

Purpose: The purpose is to learn if taking a statin could help older adults live well for longer by preventing dementia, disability, or heart disease. A statin is a commonly used drug to lower cholesterol.

DELIVER - Dapagliflozin Evaluation to Improve the LIVEs of Patients with PReserved Ejection Fraction Heart Failure

Sponsor: AstraZeneca AB

Trial Period: 2019-2022

Role: Site Principal Investigator

Per Patient Cost: \$6079

Purpose: To determine whether dapagliflozin is superior to placebo, when added to standard of care, in reducing the composite of CV death and HF events in patients with HF and preserved systolic function

NIH Clinical trial: Influenza Vaccine to Effectively Stop cardio Thoracic Events and Decompensated heart failure

Trial Period: 2016-2019

Role: Site Principal Investigator

Per patient Cost: \$400, Maximum budgeted cost: \$63,000
Purpose: INVESTED will test the hypothesis that high dose trivalent influenza vaccine will reduce cardiopulmonary events to a greater extent than standard dose quadrivalent influenza vaccine in high-risk cardiovascular patients with a recent history of myocardial infarction or heart failure. The trial will enroll 9300 participants over one Vanguard (pilot) season and three additional influenza seasons. The primary endpoint will be a composite of all-cause mortality or cardiopulmonary hospitalization.

Novartis: Change the Management of Patients with Heart Failure (CHAMP-HF) Registry.

Period: 2016-2020

Role: Site Principal Investigator

Per patient Cost: \$4,000, Maximum budgeted cost: \$160,000

Purpose: The CHAnge the Management of Patients with Heart Failure (CHAMP-HF) registry will evaluate the care and outcomes of patients with chronic HFrEF by assessing real-world treatment patterns, as well as the reasons for and barriers to, medication treatment changes. CHAMP-HF will enroll approximately 5000 patients with chronic HFrEF (left ventricular ejection fraction $\leq 40\%$) at approximately 150 United States (U.S.) sites, and patients will be followed for a maximum duration of 24 months.

Mentor:

10/2024-09/2026

Fred Wright VISN1 Career Development Award (Imran):
Project: Mechanistic Evaluation of Myocardial Dysfunction in HFrEF using Advanced Imaging Biomarkers and Biomechanics (PI: Tasnim Imran MD)
Role: Mentor

06/2022-05/2024

CPVB COBRE: 2P20GM103652-06 (Choudhary, Harrington):
Project: Phenotyping Heart Failure with Preserved Ejection Fraction Using Non- Invasive Biomarkers (PI: Tasnim Imran MD)
Role: Mentor

03/2022-05/2024

CPVB COBRE: 2P20GM103652-06 (Choudhary, Harrington):
Project: Uncoupling of IL-1beta

	and VEGF-A Crosstalk Contributes to Impaired Arteriogenesis Response to Ischemia in Chronic Diabetes Mellitus (PI: Chris Mantsounga, PhD) Role: Co-Mentor
06/01/20-05/30/21	CPVB COBRE: 2P20GM103652-06 (Rounds): Pilot Project Project: A bio-engineering approach to treat right ventricle dysfunction in pulmonary hypertension (PI: Munarin, Fabiola, PhD) Role: Co-Mentor
7/2018- 6/2021	AHA: Career Development Award (18CDA34110091) PI: Bong Sook Jhun PhD Project: Role of PKD in right ventricular dysfunction during pulmonary arterial hypertension Role: Primary Mentor
2018-2022	CPVB COBRE: 2P20GM103652-06 Sub-Project ID: 6086 Project: IL-1 Beta Signaling Promotes Atherosclerotic Calcification And Cardiovascular Risk (PI: Alan R. Morrison, MD) Role: Mentor
2019	Rhode Island Foundation: Project: Macrophages under Pressure in Right Ventricular Dysfunction Associated with Pulmonary Arterial Hypertension (PI: Jamila H. Siamwala PhD) Role: Mentor
2019	CPVB COBRE: 2P20GM103652-06 Pilot Award

	Project: Right ventricular fibrosis from pulmonary arterial hypertension is dependent on macrophage IL-1 beta signaling (PI: Jamila H. Siamwala PhD) Role: Mentor
2014-2018	VA-ORD CDA-2 (IK2BX002527) Project: Calcific Atherosclerosis is Mediated by Macrophage Adhesion Signaling (PI: Alan R. Morrison, MD) Role: Primary Mentor
7/2017-7/2018	NIGMS/ ADVANCE CTR Pilot Project PI: Bong Sook, Frank Selke Project: A novel therapy to reduce cardiac injury and dysfunction after myocardial infarction Role: Mentor
1/2017- 1/2018	NIGMS- Advance CTR Pilot Award PI: Richard Clements, Neel Sodha Project: Mitochondrial ROS-dependent modification of RyR/BKCa signaling axis in diabetes Role: Co-Mentor, Frank Selke
2016-2017	Pilot Project: CPVB COBRE (P20 GM103652) Project: Reversal of Right Ventricular Steatosis in Pulmonary Hypertension (PI: Siddique Abbasi MD) Role: Mentor
2016	Pilot Project: CPVB COBRE (P20 GM103652) Project: Pulmonary Artery Stiffness and Right Ventricular Fibrosis in PH: A CMR Study (PI: Siddique Abbasi MD) Role: Mentor

2015

Pilot Project: CPVB COBRE (P20 GM103652)
Project: Peripheral Blood Flow and Exercise Intolerance in Pulmonary Arterial Hypertension (PI: Danielle McCullough PhD)
Role: Mentor

Consultant:

2013-2018

COBRE (NIGMS) P20 GM103652
PI: Sharon Rounds
Project: Endothelial Injury And Repair: Cardiopulmonary Vascular Biology COBRE
Role: Consultant

Trainer on Training Grants

07/2022-06/2027

1T32HL160517-01A1
PI: Frank Sellke MD
Project: Cardiovascular Surgery Research Training
Role Trainer

6/2012-6/2027

R25 HL088992
PI: Elizabeth Harrington
Project: Short-Term Training Program to Increase Diversity in Health-Related Research
Role: Trainer

2/2017-1/2027

T32HL134625
PI: Elizabeth Harrington
Project: Brown Respiratory Research Training Program
Role: Trainer

12/2014-8/2025	T35 HL094308 PI: Elizabeth Harrington Project: Alpert Medical Student Summer Research Program (AMSSRP) Role: Trainer
7/2016-6/2026	T32GM077995 PI: Elena Oancea Project: Predoctoral Training Program in Trans-disciplinary Pharmacological Sciences Role: Trainer
2008-2013	T32 HL094300 (Koren/Rounds) (NIH/ NHLBI) Period: 09/2008- 08/2013 “Brown CardioPulmonary Research Training Program” Role: Trainer
2010-2015	1T32GM077995-01A2 (Hawrot) (NIH/NIGMS) Period: 07/2010- 06/2015 “Predoctoral Training Program in Trans-Disciplinary Pharmacological Sciences” Role: Trainer

OTHER RESEARCH PROJECTS

2017-	Jackson Heart Study- Ancillary (ASN0177) Project: Metabolic, vascular, and fitness-related determinants of right ventricular structure and function among African Americans in the Jackson Heart Study Role: Co-Principal Investigator
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UNIVERSITY TEACHING ROLES

Under Graduate Teaching:

2001	Supervised Undergraduate Student Research Dr. Dudley's Lab, Atlanta VA Medical Center
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2001-2002	Supervised Undergraduate Student Research Dr. Dudley's Lab, Atlanta VA Medical Center
2006-2007	Advisor, Independent Study Project- Aaron Simon, BS 2007 -Presented Poster at RI-INBRE retreat Winter 2006 -Presented Poster at NE Science Symposium, Boston February'07 -Accepted into the MSTP program at UCSD '08
2007	Summer Research Project Advisor- Stephanie Le, MD 2012 -Recipient of Student Research Award, Brown University
2007	Summer Research Project Advisor- Lina Ramirez, University of Miami, 2008; Leadership Alliance Student
2008	Summer Research Project Advisor- Taralee Thompson, Brooklyn College; Leadership Alliance Student -Presented Poster at the 2008 Annual Biomedical Research Conference for Minority Students (ABRCMS)
2008-2009	Advisor, Independent Study Project- Hezhi Gan, BS 2009 -Accepted to MD program at the University of Hawaii
2008-2009	Advisor, Independent Study Project- Eli Harris, BS 2009 -Accepted to MD program at the University of Washington
2009	Summer Research Project- Jasmin Harpe, John Hopkins University; Leadership Alliance Student
2009-2010	Advisor, Independent Study Project- Eleanor Cutler, BS 2010
2009	Advisor, Independent Study Project- Ahmad Rana, BS 2010
2010-2011	Advisor, Independent Study Project- Joy Choi, BS 2011

2011	Summer Research Project- James Chavre, John Hopkins University; Leadership Alliance Student
2013	Summer Research Project- Sherry Gee, University of Michigan; Leadership Alliance Student
2014	Summer Research Project- Emily Bouda; Leadership Alliance Student
2016-2023	Pulmonary Hypertension (3 hour course) – School of Pharmacy, University of Rhode Island- PHP 560 Adv. Cardiovascular Therapeutics
2017	Mentor, Go Eun Jeong, Undergraduate Student, Brown University, Summer Research Award
2017	Mentor, Juanetziel Charneco-González, Biomedical Sciences Undergraduate Student, University of Puerto Rico-Aguadilla, Leadership Summer Alliance Student
2017-2018	Advisor, Independent Study Project and UTRA- Krishna Mellam,
2019	Summer Research Project- Noel Getachew, University of Maryland Baltimore County, Leadership Alliance Student
2020	Summer Research Project- Jamie G. Bozeman Tougaloo College Class of 2022, Leadership Alliance Student
2021	Summer Research Project- Alisha Rolon, Providence College, Leadership Alliance Student
2021-2022	Advisor, Independent Study Project- Julia Feord
2022	Advisor, Brown Undergraduate/PLME Student: Sarina Khemchandani (received SRA for summer research 2022)
2023-	Advisor, Brown Undergraduate Student: Dravid Navale

Medical Students Teaching:

2004-2008	Interpretation of Electrocardiogram (WebCT course for 3 rd year Medical Students) Brown Medical School
2004-2008	EKG Lecture Series- Total 20 hours/ year Series of 9 lectures in small groups of third medical students rotating through VAMC (twice a year)
2006-2007	Advisor, Independent Study Project- Omar Hyder, MD 2007 Currently Internal Medicine Resident, Brown University
2005- 2010	Cardiac Pathophysiology Course- 2 nd Year Medical Student Students, Brown Medical School -Case Presentation -1 Lecture (2008) -3 Small Group Discussions (2hrs each)
2021-2024	Advisor, Research Project- Preston Nicely MD 2024- 2 nd Year Med Student

Graduate/ Post Graduate Teaching:

2001-2002	Supervised a post-doctoral fellow in research laboratory. Dr. Dudley's Lab, Atlanta VA Medical Center
2004-2009	Congestive Heart Failure- Core Lecture to Brown IM Residents at VAMC and Miriam Hospital (2 lectures/year)
2005- present	Course Director, Cardiology Non-Invasive Rotation, Providence VAMC
2005- present	Diastolic Dysfunction- Core Lecture Series, Cardiology Fellows, Brown Medical School
2005	Advisor, Research Project- Cardiology Fellow- Clifford Sebastian, MD- Private Practice, New Jersey
2006	Pathobiology Course (BIO284C). Lecture And small group discussion: Atherosclerosis
2007-2008	Advisor, Research Project- Cardiology Fellow- Adam Chodosh, MD

2007-2008	Advisor, Post-Doctoral/Pulmonary Fellow- Jeffery Mazer, MD -Presented Moderator Poster at ATS 2007, Toronto -Presented Poster and Oral Abstract at AHA scientific sessions 2008 -Finalsist, Young Investigator Award, Lifespan Research Celebration, 2008
2008- present	Associate Director, Preventative Cardiology Fellowship Program, Providence VAMC And Brown University
2008-2009	Advisor, Post-doctoral/Pulmonary Fellow- Douglas Martin, MD -Presented Moderator Poster at ATS 2009, San Diego, CA -Finalist, Respiratory Diseases Young Investigator Forum 2009, Phoenix, AZ
2008-2010	Advisor, Post-doctoral/Preventative Cardiology Fellow- Shahnaz Punjani, MD -Accepted to Echo Fellowship at Yale University
2009-2010	Advisor, Post-doctoral/Pulmonary Fellow- Fredrick Troncales, MD -Presented Poster at ATS 2010, New Orleans, LA
2010-2011	Advisor, Post-doctoral/Preventative Cardiology Fellow- Scott Cohen, MD -Adult Congenital Heart Disease Fellow, Milwaukee, WI
2011-2012	Advisor, Post-doctoral/Preventative Cardiology Fellow- Sainath Gaddam, MD
2012	Advisor, Research Project- Cardiology Fellow- Jiwon Kim, MD
2012	Advisor, Research Project- Cardiology Fellow- Johannes Steiner, MD
2012	Advisor, Lab Rotation, MPPB Graduate Student- Nedyalka Valkov
2012-2013	Advisor, Post-doctoral/Preventive Cardiology Fellow- Ali Dahhan, MD

2012-2016	Advisor, MPPB Graduate Student- Ayed Allawzi, BS
2013-2014	Advisor, Post-doctoral/Preventive Cardiology Fellow- Teresa Slomka, MD
2013-2014	Advisor, Post-doctoral/Preventive Cardiology Fellow- George Charlton, MD
2013-2014	Advisor, Post-doctoral Research Fellow- Kelly O'Connell, PhD
2013-2015	Advisor, Post-doctoral Research Fellow- Danielle McCullough, PhD
2014-2015	Advisor, Post-doctoral/Preventive Cardiology Fellow- Amanda Leung, MD
2015-2016	Advisor, Post-doctoral/Preventive Cardiology Fellow- Jennifer Jantz, MD
2016-2018	Advisor, Post-doctoral/Preventive Cardiology Fellow- Marjan Mujib, MD
2016-2017	Advisor, Research project- Cardiology Fellow- Abhishek Mann, MD
2017	Advisor, Research project- Cardiology Fellow- Sena Kilic, MD
2017-2018	Advisor, Master's Thesis Clinical Translational Research, Brown University School of Public Health, Suvasini Lakshmanan MD
2019-2021	Advisor, Post-doctoral/Preventive Cardiology Fellow- Reema Qureshi, MD
2019-2020	Advisor, Post-doctoral Fellow- Ana Fernandez PhD
2019-2020	Advisor, Post-doctoral Fellow- Denielli Bos, PhD
2020-2021	Advisor, Research project- Cardiology Fellow- Fabio Lima, MD; Residents- Suleman Ilyas & Emmanuel Asiedu
2020	Advisor, Research project- Cardiology Fellow- David Louis, MD

2021-2023	Advisor, Post-doctoral Fellow- Natalie D'Silva PhD
2021-2024	Advisor, Post-doctoral Fellow- Alexsandra Zimmer PhD
2023-	Advisor, Post-doctoral Fellow- Abdulkadir Kiris MD
2024-	Advisor, Post-doctoral Fellow- Kathleen Tran PhD
2024-	Advisor, Post-doctoral Fellow- Megan Pantry, MBBS
2024-	Advisor, Post-doctoral Fellow- Krishna Nakuluri PhD
2024-	Advisor, Post-doctoral Fellow- Veeresh Kumar Sali PhD

HOSPITAL TEACHING ROLES

1997-2000	Third and Fourth Year Medical Students During Medicine Rotation, University of Illinois/ Michael Reese Hospital, Chicago
2002-2004	Third and Fourth Year Medical Students, PA Students and Residents during Cardiology Rotations- Emory University, Atlanta, GA
2004-2007	Weekend ICU rounds with house staff 6 weekends/ year
2004- present	EKG Morning Rounds- Weekly EKG Rounds in Morning report ½ hour/ week, 6 months/ yr (until 2008), then 2 months/yr
2004- present	Supervision of cardiology fellows performing TEEs, PA Catheterization, transvenous pacemaker placements, etc.
2004- present	ECHO rounds three times a week with Cardiology Fellows (till 2013) then once a week, and then once every 2 weeks.
2004- present	Cardiology Consult Service 2 months/ year (till 2011), then 6wks/year
2004-2015	Supervision of Cardiology Fellow's weekly outpatient clinic

2007- 2020	Acute Coronary Syndromes- Core lectures to Brown IM residents at VAMC (1 lecture/year)
2009- present	EKG noon conference- Core lectures to Brown IM residents at VAMC (1 lecture/year)

Thesis Committee Member:

- 2021- Kiera Dwyer, PhD Candidate, Brown School of Engineering, Biomedical Engineering
2022- Rachel Carley, PhD Candidate, Therapeutic Sciences Graduate Program, Alpert Medical School

Other Teaching:

2011	Laboratory/Diagnostic Tests. Cardiovascular Disease Outpatient Educator Certification Course, Rhode Island - 1 Hour Lecture
2013	Laboratory/Diagnostic Tests. Cardiovascular Disease Outpatient Educator Certification Course, Rhode Island - 1 Hour Lecture
2015	Laboratory/Diagnostic Tests. Cardiovascular Disease Outpatient Educator Certification Course, Rhode Island - 1 Hour Lecture
2016	Laboratory/Diagnostic Tests. Cardiovascular Disease Outpatient Educator Certification Course, Rhode Island - 1 Hour Lecture
2019	Laboratory/Diagnostic Tests. Cardiovascular Disease Outpatient Educator Certification Course, Rhode Island - 1 Hour Lecture
2020	Laboratory/Diagnostic Tests. Cardiovascular Disease Outpatient Educator Certification Course, Rhode Island - 1 Hour Lecture
2021	Laboratory/Diagnostic Tests. Cardiovascular Disease Outpatient Educator Certification Course, Rhode Island - 1 Hour Lecture
2024	Laboratory/Diagnostic Tests. Cardiovascular Disease Outpatient Educator Certification Course, Rhode Island - 1 Hour Lecture

Media Interviews/ Mentions:

1. Brown Daily Herald (03/23/2022): U. honors prof with Distinguished Research Achievement Awards. <https://www.browndailyherald.com/article/2022/03/university-honors-professors-with-early-mid-career-distinguished-research-achievement-awards>
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