

RENUKA JAIN MD FACC FASE

Governor, Wisconsin Chapter of American College of Cardiology
Medical Director of Echocardiography
Aurora St. Luke's Medical Center, Advocate Aurora Health
Clinical Adjunct Associate Professor of Medicine
University of Wisconsin Madison School of Medicine and Public Health
Renuka.jain@aah.org
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EDUCATION

1998 Bachelor of Arts (*Magna Cum Laude*) in Human Biology
Brown University
Providence, RI

2002 Doctorate in Medicine
Columbia University College of Physicians and Surgeons
New York, NY

POSTDOCTORAL TRAINING

2002–2005 Residency in Internal Medicine
New York-Presbyterian Hospital
Columbia University College of Physicians and Surgeons
New York, NY

2006–2009 Fellowship in Cardiology and Echocardiography
University of Michigan Health System
Ann Arbor, MI

ACADEMIC APPOINTMENTS

2009–2011 Clinical Lecturer
Cardiovascular Division, University of Michigan

2011–2014 Assistant Professor of Medicine
Cardiovascular Division, University of Minnesota

2014–2018 Adjunct Clinical Assistant Professor of Medicine
University of Wisconsin School of Medicine and Public Health

2018–Present Adjunct Clinical Associate Professor of Medicine
University of Wisconsin School of Medicine and Public Health

CERTIFICATION, LICENSURES, EXAMINATIONS

2000-2002	United States Medical Licensing Examination (USMLE), Step I, II, III
2005–present	DEA Registration
2005–2015	American Board of Internal Medicine - Certification in Internal Medicine
2005–present	Certification in Basic and Advanced Cardiac Life Support
2003–2006	New York State License
2005–2007	Pennsylvania State License
2006–2013	Michigan Medical License
2009–2014	American Society of Nuclear Cardiology Board Certified in Nuclear Cardiology, COCATS Level II
2009–present	American Board of Internal Medicine - Certification in Cardiovascular Disease
2010–present	American Society of Echocardiography Certification in Comprehensive Echocardiography, COCATS Level III
2011–2014	Minnesota Medical License
2014-present	Wisconsin Medical License
2020-present	Society of Cardiac CT (SCCT) Board Certified in Cardiac CT, COCATS Level II
2022	Physician National Leadership Program The HealthCare Academy, Rosslyn, VA

CLINICAL / HOSPITAL APPOINTMENTS

2005–2006	Intensive-Care Hospitalist Penn-Presbyterian /University of Pennsylvania Health System
2009–2011	Acting Director, Echocardiography Laboratory Staff Physician, Ann Arbor VA Healthcare System Staff Physician, University of Michigan Hospital
2011–2014	Medical Director, Cardiovascular Genetics Clinic Staff Physician, University of Minnesota Medical Center-Fairview
2014-Present	Cardiologist Aurora St. Luke’s Medical Center, Advocate Aurora Health
2019-Present	Director of Structural and Interventional Echocardiography Aurora Cardiovascular Service Line

- 2023—Present Director of Echocardiography
Aurora St. Luke's Medical Center, Advocate Aurora Health
- 2023—Present Interim Director, Advanced Imaging Fellowship
Aurora St. Luke's Medical Center, Advocate Aurora Health

COMMITTEE AND ADMINISTRATIVE SERVICE

- 1999–2002 Student Coordinator and Co-Director, Student Success Network
Columbia University College of Physicians and Surgeons
New York, NY
- 2000–2002 Dean's Advisory Committee
Elected by the medical-school class as a representative to the dean's office
Columbia University College of Physicians and Surgeons
New York, NY
- 2010 Judge, Fellows' Case Competition
American College of Cardiology (Michigan Chapter)
- 2011–2012 Series Coordinator, Multimodality Imaging Conference
University of Minnesota Medical Center-Fairview
- 2015 – 2018 Co-Chair, Faculty-Initiated Cardiovascular Investigator Research Committee
Aurora Health Care
- 2015 – 2021 Rotation Director
Echocardiography Curriculum General Cardiology Fellowship
Aurora Health Care
- 2016 – 2018 Member, Aortic Stenosis Committee, Cardiovascular Service Line
Aurora Health Care
- 2017 – Present Member, Conflict of Interest Committee
Advocate Aurora Health
- 2017 – 2021 Member, Guidelines and Standards Committee
American Society of Echocardiography
- 2019– 2021 Co-Chair, Cardiovascular Clinical Trials Committee
Aurora Health Care St. Luke's Medical Center
- 2019 – Present Member, Board of Directors
American College of Cardiology, Wisconsin Chapter
- 2019 – 2021 Member, Committee for Leadership Development
Advocate Aurora Health
- 2020– Present Member, ASE Scientific Sessions Program Committee
Chair, Structural and Valve Disease Track, ASE 2021
American Society of Echocardiography

2022-2023 Governor-Elect, American College of Cardiology, Wisconsin Chapter

2022-2024 Member, Industry Relations Committee
American Society of Echocardiography

2023-Present Governor, American College of Cardiology, Wisconsin Chapter

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

2006–Present American College of Cardiology, Fellow (2012→Present)

2009–Present American Society of Echocardiography, Fellow (2015→ Present)

2022-Present European Society of Cardiology

HONORS AND AWARDS

1998 "Healthcare of Older People in London after the 1991 Market Reforms"
Honors Thesis for Bachelor of Arts (*magna cum laude*)
in Human Biology / Human Health and Disease
Brown University
Providence, RI

1999 Arnold P. Gold Foundation Fellowship

2002 Marie Necessian Memorial Award
Presented to a graduating medical student for showing care, unusual
concern, and dedication to helping patients
Columbia University College of Physicians and Surgeons
New York, NY

2003 Medical-Student Housestaff Teaching Award
Presented by medical students to residents
Columbia College of Physicians and Surgeons
New York, NY

2005 Medical-Student Housestaff Teaching Award
Presented by medical students to residents
Columbia College of Physicians and Surgeons
New York, NY

2007 Ron J. VandenBelt, M.D. Memorial Award
Awarded to the winning challenging case presented
by a fellow
American College of Cardiology (Michigan Chapter)
19th Annual Conference

Traverse City, MI

- 2016 Aurora “Star” Award
Nominated by the Stress Lab for “above and beyond” teamwork.
- 2019 Aurora “Kudos” Award for Clinical Excellence
Nominated by the Exercise Hemodynamics Lab
- 2020 Aurora “Kudos” Award for Clinical Excellence
Nominated by the Structural Heart Program
- 2021 Aurora “Kudos” Award for Clinical Excellence
Nominated by the Transesophageal Echocardiography Lab
- 2021 Aurora “Living our Values Everyday” Award
Nominated by patient

CME CONFERENCES

- 2015 Faculty, Milwaukee Heart Failure Symposium, Milwaukee, WI
- 2016 Faculty, Echo Milwaukee 2016: Echocardiography is still the Heart of Cardiology, Milwaukee WI
- 2016 Faculty, Milwaukee Heart Failure Symposium, Milwaukee, WI
- 2017 Co-Director, Echo Milwaukee 2017: Echocardiography is still the Heart of Cardiology, Milwaukee, WI
- 2017 Faculty, Milwaukee Heart Failure Symposium, Milwaukee, WI
- 2018 Faculty, State of Art Cardiology, Cancun, Mexico
- 2018 Faculty, American Society of Echocardiography Scientific Sessions 2018, Nashville, TN
- 2019 Faculty, American Society of Echocardiography State-of-the-Art Echocardiography, San Diego, CA
- 2019 Faculty, Milwaukee Heart Failure Symposium, Milwaukee, WI
- 2020 Faculty, American Society of Echocardiography State-of-the-Art Echocardiography, Scottsdale, AZ
- 2020 Faculty, Society of Cardiovascular Anesthesiologists, Echo Week Atlanta, GA
- 2020 Faculty, Milwaukee Heart Failure Symposium, Milwaukee, WI
- 2020 Faculty, Minnesota Valve Symposium, Minneapolis, MN

2021 Faculty, Society of Cardiovascular Anesthesiologists, Echo Week

2021 Faculty, American Society of Echocardiography Board Review Course

2021 Faculty, American Society of Echocardiography Scientific Sessions
Chair, Structural and Valve Disease Track

2021 Faculty, Re-Imagine Echo New York 2020/2021 Virtual Education Series

2021 Faculty, ASE Webinar “Hypertrophic Cardiomyopathy”

2021 Faculty, ASE Emerging Echo Enthusiast Webinar “Tricuspid
Regurgitation”

2022 Planning Committee Member, Wisconsin ACC Annual Meeting 2021
Milwaukee, WI

2021 Faculty, Transcatheter Valve Therapeutics (TVT), Orlando, FL

2021 Faculty, Indian Association of Cardiac Imaging Annual Conference

2021 Faculty, Re-Imagine Echo New York 2021/2022 Virtual Education Series

2022 Faculty, American Society of Echocardiography State-of-the-Art
Echocardiography, Scottsdale, AZ

2022 Faculty, American College of Cardiology Scientific Sessions 2022,
Washington DC

2022 Faculty, American Society of Echocardiography Board Review Course

2022 Faculty, Milwaukee Heart Symposium
Milwaukee, WI

2022 Faculty, American Society of Echocardiography Scientific Sessions
Chair, Adult Congenital Heart Disease
Seattle, WA

2022 Faculty and Steering Committee, Midwest ACC WIC Symposium
Chicago, IL

2022 Faculty and Steering Committee, Wisconsin ACC Annual Meeting 2022
Madison, WI

2022 Faculty, Late-Breaking Trial Presentor
TCT, Boston, MA

2023 Faculty, American Society of Echocardiography State-of-the-Art
Echocardiography, Scottsdale, AZ

2023 Faculty, American Society of Echocardiography Board Review Course

2023 Course Director, Midwest Women in Cardiology Symposium
Milwaukee, WI

2023 Faculty, American College of Cardiology Scientific Sessions
New Orleans, LA

2023 Faculty, American Society of Echocardiography Scientific Sessions
Chair, Learning Lab: Advanced Strain Workshop
National Harbor, MD

SCIENTIFIC ACTIVITIES

2007 *Ad Hoc* Reviewer
Circulation

2010 *Ad Hoc* Reviewer
Archives of Internal Medicine

2010→Present *Ad Hoc* Reviewer
Journal of American College of Cardiology

2012 Abstract Reviewer
American Heart Association Scientific Sessions 2012

2013 Abstract Reviewer
American Heart Association Scientific Sessions 2013

2014→Present *Ad Hoc* Reviewer
European Heart Journal - Cardiovascular Imaging

2015→Present *Ad Hoc* Reviewer
Journal of Patient-centered Research and Reviews

2018→Present *Ad Hoc* Reviewer
Journal of American Society of Echocardiography

2020→Present *Ad Hoc* Reviewer
CASE Journal – American Society of Echocardiography

2020 Abstract Reviewer
American Society of Echocardiography Scientific Sessions 2020

2021 Abstract Reviewer
American Society of Echocardiography Scientific Sessions 2021

2022 Abstract Reviewer
American Heart Association Scientific Sessions 2022

2022→Present *Ad Hoc* Reviewer
Structural Heart Journal

2021 Abstract Reviewer
American Society of Echocardiography Scientific Sessions 2022

2022 Topical Content Advisor
Circulation: Cardiovascular Imaging

2022→Present *Ad Hoc* Reviewer
Journal of Cardiovascular Imaging

2022 Abstract Reviewer
American College of Cardiology Scientific Sessions 2023

2022→2025 Advisor, *JASE* Editorial Board
Journal of American Society of Echocardiography

GRANT SUPPORT

- 1.) Funding institution: Blue Cross-Blue Shield Physician Investigators' Program
Grant title: "What are the consequences of medical errors in cardiopulmonary resuscitation?"
Name of PI: Renuka Jain, M.D.
Project dates: 07/01/2008-06/30/2009
- 2.) Funding institution: Michigan Institute for Clinical and Health-Services Research
University of Michigan, Ann Arbor, MI
Grant title: "Preventing deaths from in-hospital arrest"
Name of PI: Renuka Jain, M.D.
Project dates: 09/01/2008–08/31/2009
- 3.) Funding institution: Aurora Research Institute and Aurora Health Care Foundation
Aurora Health Care, Milwaukee, WI
Grant title: "Aortic wall stress in bicuspid aortic valves: correlation with surgical outcomes"
Name of PI: Renuka Jain, M.D.
Project dates: 04/01/2018–04/1/2019
- 4.) Funding Institution: American College of Cardiology
Grant title: "MidWest Women in Cardiology (WIC) Alliance Outreach"
Name of PI: Dierdre Mittema
Project Dates: 3/1/2020 – 3/1/2021
- 5.) Funding Institution: GE HealthCare
Grant title: "Feasibility of 3D TTE Mitral and Tricuspid Annular Dimensions for Transcatheter Intervention Planning"
Name of PI: Renuka Jain M.D.

Project Dates: 9/1/2022 – 9/1/2023

TEACHING PRESENTATIONS

- “Mitral Regurgitation and Heart Failure.” Heart-Failure Conference, University of Michigan Department of Cardiology. Ann Arbor, MI. 2007.
- “Ventricular Arrhythmias and Sudden Cardiac Death.” University of Michigan Department of Cardiology. Ann Arbor, MI. 2007.
- “The Intern’s Guide to Codes.” Presentation at internal-medicine interns’ noon conference, University of Michigan. Ann Arbor, MI. 2007.
- “Atrial Fibrillation.” Presentation to second-year medical students, University of Michigan. Ann Arbor, MI. 2007.
- “Preventing Deaths from In-Hospital Cardiac Arrest: A Pilot Study.” VA Health Services Research and Development Conference. Ann Arbor, MI. 2008.
- “Low-Flow, Low-Gradient Aortic Stenosis.” University of Michigan Department of Cardiology. Ann Arbor, MI. 2008.
- “Echocardiography for First-Year Fellows.” Teaching Session, University of Michigan Healthcare System. Ann Arbor, MI. 2008.
- “Echo in Tumors, Masses, and Cardiac Emboli.” Echocardiography Case Conference, University of Michigan Healthcare System. Ann Arbor, MI. 2009.
- “Echo in Hypertrophic Cardiomyopathy.” Echocardiography Case Conference, University of Michigan Healthcare System. Ann Arbor, MI. 2009.
- Moderator, Internal Medicine Board-Review Conference. University of Michigan Healthcare System. Ann Arbor, MI. 2010.
- Panelist, Internal-Medicine Morbidity & Mortality Conference. Ann Arbor VA Healthcare System. Ann Arbor, MI. 2010.
- “Hypertrophic Cardiomyopathy and Hypertensive Heart Disease.” Echocardiography Case Conference, University of Michigan Healthcare System. Ann Arbor, MI. 2010.
- “Hypertrophic Cardiomyopathy.” Presentation at residents’ conference, University of Michigan Healthcare System. Ann Arbor, MI. 2010.
- “Morning Report.” Presentation at residents’ conference, University of Michigan Healthcare System. Ann Arbor, MI. 2010.
- Faculty mentor, “Coronary Calcium.” Multimodality Imaging Conference, University of Minnesota Medical Center-Fairview. Minneapolis, MN. 2011.

“Stress Testing.” Department of Anesthesia Morning-Lecture Series, University of Minnesota Medical Center-Fairview. Minneapolis, MN. 2011.

Faculty mentor, “Hypertrophic Cardiomyopathy.” Multimodality Imaging Conference, University of Minnesota Medical Center-Fairview. Minneapolis, MN 2012.

“Hypertrophic Cardiomyopathy Echocardiography Protocols.” Echocardiography Morning Conference, University of Minnesota, Minneapolis MN, 2013.

“Imaging in Hypertrophic Cardiomyopathy.” Cardiology Fellows Lecture Series, University of Minnesota Medical Center-Fairview, Minneapolis, MN 2014.

Faculty mentor, “Multi-modality Imaging Case Conference.” Multimodality Imaging Conference, University of Minnesota Medical Center-Fairview. Minneapolis, MN 2014

“Echo in Heart Transplant.” Sonographer Lecture series, Echo Lab. University of Minnesota Medical Center. University of Minnesota. Minneapolis, MN 2014

“Bicuspid Aortic Valve Disease.” Faculty Mentor, Echocardiography Case Conference, Aurora Health Care, Milwaukee, WI. 2014.

“Endocarditis: Epidemiology, Diagnosis, and Timing of Surgery.” Fellows’ Core Curriculum. Aurora Health Care, Milwaukee, WI. 2014.

“Endocarditis Case Presentation.” Faculty Mentor, Fellow’s Conference, Aurora Health Care, Milwaukee, WI. 2015.

“Multi-Valve Endocarditis.” Faculty Mentor, Fellow’s Conference, Aurora Health Care, Milwaukee, WI 2015

“Congenital Heart Disease: Part I: PFO, ASD, BAV, Coarctation.” Fellows’ Core Curriculum. Aurora Health Care, Milwaukee, WI. 2015

“Echo Boot Camp Series: I-VI. Fellows’ Core Curriculum. Aurora Health Care, Milwaukee, WI, 2016

“Echocardiography in LVADs.” Echocardiography Case Conference, Aurora Health Care, Milwaukee, WI. 2016.

“Echocardiography in TAVR – Part I.” Echocardiography Case Conference, Aurora Health Care, Milwaukee, WI. 2017.

“Echocardiography in Structural Heart Disease.” Echocardiography Case Conference, Aurora Health Care, Milwaukee WI 2017.

“Congenital Heart Disease: Part I: PFO, ASD, BAV, Coarctation.” Fellows’ Core Curriculum. Aurora Health Care, Milwaukee, WI. 2017.

“Echo Boot Camp Series I-VI.” Fellows’ Core Curriculum. Aurora Health Care, Milwaukee WI, 2017.

“Echocardiography in TAVR – Part II.” Echocardiography Case Conference, Aurora Health Care, Milwaukee, WI. 2017.

“Echocardiography in Mitral Valve Interventions” Echocardiography Case Conference, Aurora Health Care, Milwaukee, WI. 2018.

“Echo Boot Camp Series I-VI.” Fellows’ Core Curriculum. Aurora Health Care, Milwaukee WI, 2018

“Darkness Under the LAMP.” Challenging Cardiovascular Case Series, Aurora St. Luke’s Medical Center, Advocate Aurora Health, Milwaukee, WI, 2019.

“Echo Boot Camp Series I-II” Fellows’ Core Curriculum. Aurora Health Care, Milwaukee WI, 2019.

“Echo Structural Curriculum I-IV” Core Curriculum. Aurora Health Care, Milwaukee WI, 2020.

“Echo Boot Camp Series I-III” Fellows’ Core Curriculum. Aurora Health Care, Milwaukee WI, 2021.

“Aortic Stenosis”. Fellows’ Imaging Lecture Series. Aurora Health Care, Milwaukee WI 2022.

INVITED PRESENTATIONS

Invited Presentations at National and International Level:

Moderator, “Echocardiography: Right-Ventricular Function, Abstract Session.” American Heart Association Scientific Sessions. Los Angeles, CA. Nov 6, 2012.

Moderator, “Hypertrophic Cardiomyopathy and Athlete’s Heart.” American Heart Association Scientific Sessions. Dallas, TX. Nov 18, 2013.

Presenter, “Bicuspid Aortic Valve +/- Aortopathy: Diagnosis, Surveillance, Treatment Update” American College of Cardiology Scientific Sessions. Chicago, IL. Mar 19, 2016.

Panelist, “Aortic Stenosis and TAVR: Pre and Post Intervention.” VuMedi Structural Heart Disease Seminar, Mar 2016.

Presenter, “Non-invasive Imaging in Stable CAD: Which Test for Which Patients?” State of the Art Cardiology 2018, Cancun, Mexico, Mar 2, 2018.

Moderator, “Heart Valve Heart Disease.” State of the Art Cardiology 2018, Cancun, Mexico, Mar 3, 2018.

Presenter, “Diagnostic Challenges in Heart valve Disease: Case Studies.” State of the Art Cardiology 2018, Cancun, Mexico, Mar 3, 2018.

Presenter, “What is a Structural Heart Program?” American Society of Echocardiography Scientific Sessions, Nashville, TN 2018.

Presenter, “Hypertension Cases – Guidelines Say What Echo Should Get,” 32nd Annual State-of-the-Art Echocardiography, San Diego, CA, Feb 16, 2019.

Moderator, “Structural Heart Disease: II.” 32nd Annual State-of-the-Art Echocardiography, San Diego, CA, Feb 17, 2019.

Presenter, “Left Atrial Appendage Closure: IntraProcedure.” 32nd Annual State-of-the-Art Echocardiography, San Diego, CA, Feb 17, 2019.

Presenter, “Stress Echocardiography: Single and Multivessel,” 32nd Annual State-of-the-Art Echocardiography, San Diego, CA, Feb 18, 2019.

Presenter, “Pathologies of the Right Ventricle: Illustrative Cases.” 32nd Annual State-of-the-Art Echocardiography, San Diego, CA, Feb 18, 2019.

Presenter, “Atrial and Ventricular Septal Defects,” SCA 2020 – Society of Cardiovascular Anesthesiologists Echo Week, Atlanta, GA, Feb 20, 2020

Presenter, “Echocardiography for Valve in Valve Therapy,” Society of Cardiovascular Anesthesiologists Echo Week, Atlanta, GA, Feb 20, 2020

Moderator, “Coronary Artery Disease: Still the Mainstay.” 33rd Annual State-of-the-Art Echocardiography, Scottsdale, AZ, Feb 22, 2020.

Presenter, “Complications of Myocardial Infarction.” 33rd Annual State-of-the-Art Echocardiography, Scottsdale, AZ, Feb 22, 2020.

Presenter, “What Should a Successful TAVR Look Like for Echocardiographers.” 33rd Annual State-of-the-Art Echocardiography, Scottsdale, AZ, Feb 23, 2020.

Presenter, “Pathologies of Tricuspid Valve.” 33rd Annual State-of-the-Art Echocardiography, Scottsdale, AZ, Feb 23, 2020.

Presenter, “Endocarditis and Complication of Mitral Valve.” 33rd Annual State-of-the-Art Echocardiography, Scottsdale, AZ, Feb 23, 2020.

Presenter, “Fabry and LAMP: Case Studies” 33rd Annual State-of-the-Art Echocardiography, Scottsdale, AZ, Feb 23, 2020.

Presenter, “Diabetes and the Heart.” 33rd Annual State-of-the-Art Echocardiography, Scottsdale, AZ, Feb 24, 2020.

Presenter, “Fusion Imaging.” 33rd Annual State-of-the-Art Echocardiography, Scottsdale, AZ, Feb 24, 2020.

Presenter, “The Building Blocks of Interventional Echocardiography,” Multimodality Imaging Conference, Johns Hopkins University, Nov 12, 2020

Panelist, “Procedural Imaging for APOLLO Trial,” Medtronic Physician Case Review, Dec 2, 2020.

Presenter, “Secondary Tricuspid Regurgitation.” Re-Imagine Echo New York 2020/2021 Virtual Education Series, Feb 6, 2020.

Presenter, “Valve-in-Valve Therapy.” Society of Cardiac Anesthesiologists Virtual Echo Week. Feb 26-28, 2021.

Presenter, “Echo Guidance of Septal Reduction Therapy.” ASE Hypertrophic Cardiomyopathy Webinar. May 11, 2021

Presenter, “Normal TEE Examination: Applications, Pitfalls, Probe Insertion and Manipulation, Risks and Complications.” 2021 ASCeXAM/ReASCE Review Course., July 10, 2021.

Presenter, “Primer of Interventional Echo.” 2021 ASCeXAM/ReASCE Review Course., July 10, 2021.

Presenter, “Tricuspid Regurgitation.” ASE Emerging Echo Enthusiasts Webinar. May 25, 2021.

Presenter, “TAVR for Newer Indications.” ASE Scientific Sessions, June 20, 2021

Presenter, “Intrepid transseptal valve-in-MAC.” Transcatheter Valve Therapeutics (TVT), 2021.

Presenter, “Myocardial Work: A Novel Assessment of LV Function.” Indian Association of Cardiac Imaging, October 23, 2021.

Presenter, “Case Presentation: Atrial Fibrillation from Cardioversion to PVI to LAAO.” American College of Cardiology Scientific Sessions, Washington DC, April 2, 2022.

Presenter, “Hemodynamics and Structural Valve Detoriation: An Echocardiographer’s Perspective.” Medtronic Innovation Theater, Washington DC, April 4, 2022.

Presenter, “Endocarditis and Its Complications: The Role of Echocardiography.” 2022 ASCeXAM/ReASCE Review Course., May 2022.

Presenter, “Normal TEE Examination: Applications, Pitfalls, Probe Insertion and Manipulation, Risks and Complications.” 2022 ASCeXAM/ReASCE Review Course., May 2022.

Presenter, “Primer of Interventional Echo.” 2022 ASCeXAM/ReASCE Review Course., May 2022.

Presenter, “Aortic Stenosis.” American Society of Echocardiography Scientific Sessions, Seattle, WA, June 25 2022.

Presenter, “Complications of Myocardial Infarction.” 35nd Annual State-of-the-Art Echocardiography, Scottsdale, AZ, Feb 19, 2023.

Presenter, “What Should a Successful TAVR Look Like for Echocardiographers.” 35nd Annual State-of-the-Art Echocardiography, Scottsdale, AZ, Feb 19, 2023.

Presenter, “Diabetes and the Heart.” 35nd Annual State-of-the-Art Echocardiography, Scottsdale, AZ, Feb 19, 2023.

Presenter, “Fusion Imaging.” 35nd Annual State-of-the-Art Echocardiography, Scottsdale, AZ, Feb 19, 2023.

Presenter, “Masses in the Right Heart.” 35nd Annual State-of-the-Art Echocardiography, Scottsdale, AZ, Feb 19, 2023.

Invited Presentations at Local and Regional Level

Moderator, “Genetics of Hypertrophic Cardiomyopathy Lecture Series.” University of Michigan Healthcare System. Ann Arbor, MI, 2009.

“Insights into Hypertrophic Cardiomyopathy.” Grand Rounds, Oakwood Southshore Hospital. Trenton, MI, 2010.

“Stress Testing.” Department of Anesthesia Morning-Lecture Series, University of Minnesota Medical Center-Fairview. Minneapolis, MN, 2011.

Panelist, “Meet the Experts.” Go Red for Women Luncheon, Presented by the Minnesota Chapter of the American Heart Association. Minneapolis, MN, Jan 2012.

“Women’s Cardiac Health.” “Ladies’ Night” public presentation at the Maple Grove Medical Center. Maple Grove, MN, May 2012.

“Imaging in Hypertrophic Cardiomyopathy.” Presented at *Controversies in Cardiology*, Minnesota Chapter of American College of Cardiology, Minneapolis, MN, May 2012.

“Restrictive and Hypertrophic Cardiomyopathy.” Presentation at *Advanced Heart Failure Symposium*, University of Minnesota, Minneapolis, MN, Oct 28, 2012.

Women’s Cardiac Health.” “Ladies’ Night” public presentation at the Maple Grove Medical Center. Maple Grove, MN, Oct 2012.

Speaker, “Women Take Heart Symposium.” Presented by the Minnesota Medical Foundation. Minneapolis, MN, Oct 2012.

“Stroke and Other Complications of Hypertrophic Cardiomyopathy.” Cardiovascular Medicine Grand Rounds, University of Minnesota, Minneapolis, MN, May 2013.

“Women’s Cardiac Health.” “Ladies’ Night” public presentation at the Maple Grove Medical Center. Maple Grove, MN, May 2013.

“Challenging Cases from Inpatient Consults.” *Lillehei Heart Symposium*, Minneapolis, MN, Sep 5, 2013

“Imaging in Hypertrophic Cardiomyopathy.” Cardiovascular Grand Rounds, Medical College of Wisconsin, Milwaukee, WI, Feb 2014.

Speaker, “Women Take Heart Symposium.” Presented by the Minnesota Medical Foundation. Minneapolis, MN, Feb 2014.

“Hypertrophic Cardiomyopathy: Diagnosis and Management” Presented at 24th Annual New Developments in Cardiology. Pewaukee, WI, Apr 2015.

“Advances in Cardiovascular Imaging and their role in Heart Failure Management.” Milwaukee Heart Failure Symposium. Milwaukee, WI, May 2015.

“Advances in Cardiovascular Imaging and their role in LVAD Management.” Advanced Heart Failure Therapies Educational Seminar Series, Milwaukee, WI, Oct 2015.

“What to get out of an Echo Report” Aurora Primary Care Symposium. Milwaukee, WI, Nov 2015

“Noncompaction Cardiomyopathy: Diagnosis, Management, and Treatment.” Presented at 25th Annual New Development in Cardiology. Pewaukee, WI, Mar 2016.

“Clinical Cases in Echocardiography.” Presented at ECHO Milwaukee. Milwaukee, WI, Mar 2016.

“Noncompaction Cardiomyopathy: Diagnosis, Management, and Treatment.” Advanced Heart Failure Therapies Educational Seminar Series, Milwaukee, WI, Apr 2016.

“Advances in Cardiovascular Imaging and their role in Heart Failure Management.” Milwaukee Heart Failure Symposium. Milwaukee, WI, May 2016.

“Echocardiography in Structural Heart Disease.” Great Lakes Cardiology Symposium. Pleasant Prairie, WI, Mar 2017

“Advances in Cardiovascular Imaging and their role in Heart Failure Management.” Milwaukee Heart Failure Symposium. Milwaukee, WI, May 2017.

“Advances in Cardiovascular Imaging and their role in Heart Failure Management.” Milwaukee Heart Failure Symposium. Milwaukee, WI, May 2018

“Advances in Cardiovascular Imaging and their role in Heart Failure Management.” Milwaukee Heart Failure Symposium. Milwaukee, WI, May 2019.

“Mitral Regurgitation Leads to Heart Failure; Heart Failure Leads to Mitral Regurgitation.” Advanced Heart Failure Therapies Educational Seminar Series, Milwaukee, WI, Dec 2019

“Tricuspid Regurgitation and Heart Failure.” Advanced Heart Failure Therapies Educational Seminar Series, Milwaukee, WI, Oct 2020

“Advances in Cardiovascular Imaging and their role in Heart Failure Management.” Milwaukee Heart Failure Symposium. Milwaukee, WI, Aug 2021.

“Advances in Cardiovascular Imaging and their role in Heart Failure Management.” Milwaukee Heart Failure Symposium. Milwaukee, WI, Aug 2022.

“The Future of Structural Imaging.” Advocate Aurora TedTalk Virtual Series. February 16, 2023

PUBLICATIONS

Jain R, Kolas TJ. 3-dimensional transesophageal echocardiography of pacemaker endocarditis. *J American College Cardiology*, 2008; 53(14):1241.

Chan PS, **Jain R**, Nallamotheu BK, Berg RA, Sasson C. Rapid-response teams: A systematic review and meta-analysis. *Arch Int Med* 2010 Jan 11;170(1):1-9.

Jain R, Nallamotheu BK, Chan PS. Body-mass index and survival after in-hospital cardiac arrest. *Circ Cardiovasc Qual Outcomes* 2010 Sep;3(5):490-497.

Jain R, Kuhn L, Repaskey W, Chan PS, Kronick SL, Flanders S, Nallamotheu BK. Physician implicit review to identify preventable errors during in-hospital cardiac arrest. *Arch Intern Med* 2011 Jan 10;171(1):89-90

Svatikova A, **Jain R**, Chervin RD, Hagan PG, Brown DL. Echocardiographic findings in ischemic stroke patients with obstructive sleep apnea. *Sleep Med* 2011 Aug;12(7):700-703.

Jain R, Helms A, Day SM, Booher AM. Prevalence of Aortic Dilation in Hypertrophic Cardiomyopathy. *J Amer CV Dis*, 2013 Jun; 3(2): 79-84.

Jain R, Duval S, Adabag S. How accurate is the "eyeball test?" A comparison of physicians' subjective assessment versus statistical methods in estimating mortality risk after cardiac surgery. *Circulation: Cardiovascular Quality and Outcomes*, 2014 Jan; 7(1): 151-6.

Razzaque I, Khandheria BK, **Jain R**, Ammar KA. Synovial sarcoma invades the left atrium: visualization with three-dimensional trans-esophageal echocardiography. *Eur Heart J Cardiovasc Imaging*, 2015 Feb; 16(2): 189.

Jahangir A, **Jain R**. Strain Echocardiography and LQTS Subtypes: Mechanical Alterations in an Electrical Disorder. *JACC Cardiovasc Imaging*, 2015 May, 8(5): 511-3.

Jain R, Bajwa T, O'Hair D, Khandheria BK. Three-dimensional echocardiography guidance in case of papillary fibroelastoma complication transaortic valve implantation. *Eur Heart J Cardiovasc Imaging*, May 2015; 16(5): 570.

Machernis NP, **Jain R**, Anigbogu M, Ammar KA, Brauer E, Khandheria BK. Prosthetic aortic valve endocarditis with pseudoaneurysm complicated by additional rupture of mitral-aortic intervalvular fibrosa. *European Heart Journal*, 2015 Oct; 36(40): 2741.

Jain R, Algahim MF, Bajwa T, Khandheria B, O'Hair DP. Native mitral stenosis treated with transcatheter mitral valve replacement. *Ann Thorac Surg*, 2016 Mar; 101(3): e75-7.

Yousefzai R, Trivedi S, **Jain R**, Cheema O, Crouch JD, Thohan V, Khandheria BK. Expecting the unexpected: Right atrial mass in a transplant patient. *ESC Heart Failure* 2015 Dec; 2(4): 165-167.

Longobardo L, **Jain R**, Carerj S, Zito C, Khandheria BK. Bicuspid aortic valve: Unlocking the morphogenetic puzzle. *Am J Med*, Aug 2016; 129(8): 796-805.

Longobardo L, Kramer C, Carerj S, Zito C, **Jain R**, Suma V, Thohan V, Sulemanjee N, Downey FX, Khandheria BK. Role of echocardiography in the evaluation of left ventricular assist devices: The importance of emerging technologies. *Curr Cardiol Rep*. Jul 2016; 18(7).

Harland DR, **Jain R**, Kostopolous LN, Khandheria BK, Kay J. Preoperative transthoracic echocardiography shows resolution of presumed papillary fibroelastoma; patient goes home instead of to operating room. *J Cardiothorac Vasc Anesth*. 2017; 31(1): e14-16.

Ammar KA, Khandheria BK, Bajwa T, Port SC, Allaqaband S, **Jain R**, Neitzel G, Tajik AJ. Cardiac amyloidosis presenting as severe mitral regurgitation: A case series. *JACC Cardiovasc Imaging*. Aug 2016; 9(8): 1003-6.

Ganguli S, **Jain R**, Barragry T, Khandheria B. Aortic fenestration mimicking aortic perforation. *Eur Heart J Cardiovasc Imaging*, 2017 Feb; 18(2): 127.

Wang D, **Jain R**, Weiss ES, Khandheria BK. Transthoracic echocardiographic imaging in diagnosis of postoperative left ventricular pseudoaneurysm. *Eur Heart J Cardiovasc Imaging*, Nov 2016 17(11): 1319.

Yousefzai R, Agarwal A, Jan MF, Cho C, Anigbogu M, Shetabi K, Singh M, Bush M, Treiber S, Port S, Ammar KA, Paterick TE, **Jain R**, Khandheria BK, Tajik AJ. Hypertrophic cardiomyopathy with aortic dilation: a novel observation. *Eur Heart J Cardiovasc Imaging*. 2017 Dec 1;18(12):1398-1403.

Ahmad MM, Kiani IA, Ammar KA, Ahmad MN, Khandheria BK, Paterick TE, **Jain R**, Tajik AJ. Ascending aortic aneurysm is an inherited disease: A contemporary literature review based on Hill's Criteria of specificity, strength of association and biological coherence. *Cardiol Rev* 2017 Nov/Dec;25(6):268-278.

Longobardo L, **Jain R**, Carerj S, Zito C, Khandheria BK. Interpreting phenotypic features of bicuspid aortic valve disease: From simplification to complexity to simplicity? The reply. *Am J Med* 2017.

Roemer S, **Jain R**, Bernstein P, Umland M, Khandheria BK. Real-time four-dimensional echocardiography in the diagnosis and management of cor triatriatum. *CASE (Phila)*. 2017 Jun 16;1(4):138-140.

Samad F, **Jain R**, Jan MF, Sulemanjee N, Menaria P, Calvin L, Bush M, Jahangir A, Khandheria BK, Tajik AJ. Malignant Cardiac Phenotypic Expression of Danon Disease. *Int J Cardiol* Oct 15, 2017; 245: 201-206.

Longobardo L, Suma V, **Jain R**, Carerj S, Zito C, Zwicke DL, Khandheria BK. Role of Two Dimensional Speckle Tracking Echocardiography Strain in the Assessment of Right Ventricular Systolic Function and Comparison with Conventional Parameters. *J Am Soc Echocardiogr*. 2017 Oct;30(10):937-946.

Jain R, O'Hair DP, Bajwa TK, Kirby AK, Harland D, Ignatowski D, Kay J, Khandheria BK. Transthoracic Echocardiography is Adequate for Intraprocedural Assessment of Transcatheter Aortic Valve Replacement. *Echo Res Pract*. 2017 Dec;4(4):63-72.

Jain R, Osranek M, Jan MF, Calvin LR, Olet S, Allaqaband SQ, Jahangir A, Khandheria BK, Tajik AJ. Marked Respiratory Related Fluctuations in LVOT Gradients in Hypertrophic Obstructive Cardiomyopathy: An Observational Study. *Eur Heart J Cardiovasc Imaging*. 2018 Oct 1;19(10):1126-1133.

Kirby AM, Kruger B, **Jain R**, O'Hair DP, Granger BB. Using Clinical Decision Support to Improve Referral Rates in Severe Symptomatic Aortic Stenosis: A Quality Improvement Initiative. *Comput Inform Nurs* 2018.

Jain R, Calvin L, Johnson B, Muthukumar L, Khandheria BK, Tajik AJ. Many faces of Fabry cardiomyopathy. *JACC Cardiovasc Imaging*. 2018 Apr;11(4):644-647.

Ali Z, **Jain R**, Sawlani R, Tajik AJ. Esophageal duplication cyst mimicking cardiac mass. *Eur Heart J Cardiovasc Imaging*. 2018 Apr 1;19(4):469.

Desai D, Jan MF, **Jain R**, Mookadam F, Tajik AJ. Pectus excavatum causing dynamic right ventricular outflow tract obstruction: increased obstruction during expiration and decreased during inspiration. *Eur Heart J Cardiovasc Imaging*. 2018 Aug 1;19(8):925.

Jain R, Ammar KA, Kalvin L, Ignatowski D, Olet S, Tajik AJ, Khandheria BK. Diagnostic accuracy of bicuspid aortic valve by echocardiography. *Echocardiography* 2018;35(12):1932-1938.

Richmond RL, O'Hair DP, Harland DR, Bajwa TK, Allaqaband SQ, Kirby A, Olet S, Khandheria BK, **Jain R**. Echocardiographic Parameters Continue to Improve in Patients with Self-Expandable Transcatheter Aortic Valve for Failing Bioprosthetic Aortic Valve Replacement. *Structural Heart* 2019; 3(6):507-509

Popma JJ, Deeb GM, Yakubov SJ, Mumtaz M, Gada H, O'Hair D, Bajwa T, Heiser JC, Merhi W, Kleiman NS, Askew J, Sorajja P, Rovin J, Chetcuti SJ, Adams DH, Teirstein PS, Zorn GL 3rd, Forrest JK, Tchétché D, Resar J, Walton A, Piazza N, Ramlawi B, Robinson N, Petrossian G, Gleason TG, Oh JK, Boulware MJ, Qiao H, Mugglin AS, Reardon MJ; Evolut Low Risk Trial Investigators (**Jain R**). Transcatheter Aortic-Valve Replacement with a Self-Expanding Valve in Low-Risk Patients. *N Engl J Med*. 2019 May 2;380(18):1706-1715.

Ali Z, Sharma P, Mengesha T, Dalmar A, Ammar KA, Allaqaband SQ, O'Hair DP, Khandheria BK, **Jain R**, Bajwa T. Early clinical and procedural outcomes in large series of 34-mm self-expanding transcatheter aortic valve replacement. *Catheter Cardiovasc Interv* 2020 Oct 1;96(4):940-946.

Sengupta S, **Jain R**, Burkule N, Olet S, Khandheria BK. Myocardial work index: A novel method for assessment of myocardial function in South Asian recreational athletes. *J Patient Cent Res Rev* 2020 Apr 27;7(2):147-156.

Ignatowski D, Schweitzer M, Pesek K, **Jain R**, Muthukumar L, Khandheria, BK, Tajik AJ. Pickelhaube spike, high-risk marker for bileaflet myxomatous mitral valve prolapse: Sonographer's quest for the highest spike. *J Am Soc Echocardiogr* 2020 May;33(5):639-640.

Jain R, Khandheria BK. Using the electronic medical record to transform care for severe aortic stenosis (Letter). *J Am Soc Echocardiogr* 2020 Sep;33(9):1159-1160.

Galazka P, **Jain R**, Muthukumar L, Sanders H, Bush M, Jan MF, Jahangir A, Khandheria BK, Tajik AJ. Familial LEOPARD syndrome with hypertrophic cardiomyopathy. *Am J Cardiol* 2020 Nov 15;135:168-173.

Jain R, Salinas PD, Kroboth S, Kaminski A, Roemer S, Perez Moreno AC, Khandheria BK. Comprehensive echocardiographic findings in critically ill COVID-19 patients with prior cardiac disease. *J Patient Cent Res Rev*. 2021;8:68-76.

Jain R, Kroboth S, Ignatowski D, Khandheria BK. Seroprevalence of SARS-CoV-2 Antibody in Echocardiography and Stress Laboratory. *J Patient Cent Res Rev* 2021 Spring; 8(2): 146–150.

Wani A, **Jain R**, Singank Z, Khandheria BK. Trend of global longitudinal strain in takotsubo cardiomyopathy and clinical predictors of recovery. *J Am Soc Echocardiogr*. 2021;34:452-453.

Jain R, Bajwa T, Roemer S, Huisheree H, Allaqaband SQ, Kroboth S, Perez Moreno AC, Tajik AJ, Khandheria BK. Myocardial work assessment in severe aortic stenosis undergoing transcatheter aortic valve replacement. *Eur Heart J Cardiovasc Imaging* 2021; 22 (6): 715–721.

Jain R, Khandheria BK, Tajik AJ. Myocardial Work in Aortic Stenosis: It Does Work! *J Am Soc Echocardiogr* 2021; 34 (3): P267-9.

Jain R, Kruger B, Citronberg R, Kroboth S, Perez Moreno AC, Khandheria BK. Pre-procedure COVID-19 testing in early phase of pandemic. *J Patient Cent Res Rev.* 2021;8:151-3.

Wani A, Adil A, Gardezi SAA, **Jain R**, Galazka P, Waples MJ, Tajik AJ. Pheochromocytoma masquerading as hypertrophic obstructive cardiomyopathy. *JAMA Cardiol* 2021;e210944.

Roemer S, Jaglan A, Santos D, Umland M, **Jain R**, Tajik AJ, Khandheria BK. The utility of myocardial work in clinical practice. *J Am Soc Echocardiogr* 2021;34(8):807-818.

Wani A, Harland DR, Bajwa TK, Kroboth S, Ammar KA, Allaqaband SQ, Duval S, Khandheria BK, Tajik AJ, **Jain R**. Left ventricular mechanics differ in subtypes of aortic stenosis following transcatheter aortic valve replacement. *Front Cardiovasc Med* 2022; 17(8).

Jain R, Galazka P, Khandheria BK, Tajik AJ. Myocardial work in aortic regurgitation: It also works! (editorial) *J Am Soc Echocardiogr* 2022 Jul; 35(7): 712-714.

O’Hair D, Yakubov SJ, Grubb KJ, Oh JK, Ito S, Deeb GM, Van Meighem N, Adams DH, Bajwa T, Lleiman NS, Chetcuti S, Sondergaard L, Gada H, Mumtaz M, Heiser J, Merhi WM, Petrossian G, Robinson N, Tang GH, Rovin JD, Little SH, **Jain R**, Vedoliva S, Hanson T, Li S, Popma JJ, Reardon MJ. Structural Valve Deterioration after Self-Expanding or Surgical Aortic Valve Implantation in Intermediate or High Risk Patients. *JAMA Cardiol*. Published online December 14, 2022. doi:10.1001/jamacardio.2022.4627

Marzlin N, Hays AG, Peters M, Kaminski A, Roemer S, O’Leary P, Kroboth S, Harland DR, Khandheria BK, Tajik AJ, **Jain R**. Myocardial Work By Echocardiography. *Circ Cardiovasc Imaging* 2023 (in press).

BOOK CHAPTERS

Jain R, Armstrong WF. Non-invasive Cardiac Imaging. *Inpatient Cardiovascular Medicine*. Publisher: Wiley-Blackwell, 1st edition, Nov 2013.

Longobardo L, **Jain R**, Kramer CJ, Umland M, Zito C, Carerj S, Khandheria BK. Role of Echocardiography in Selection, Implantation, and Management of Patients Requiring LVAD Therapy. In: Abraham, WT, ed. *Color Atlas on Heart Failure*. New York, NY: McGraw-Hill; 2016.

Jain R. Introduction to Transesophageal Echocardiography – Indications, Risks, Complications, Protocol. In: Lang R, Khandheria, BK, Goldstein S, Kronzon I, Saric M (eds). *American Society of Echocardiography’s Comprehensive Echocardiography*. 3rd Edition. Philadelphia, PA: Elsevier, 2021.

Jain R, Khandheria BK. Percutaneous mitral edge-to-edge repair. In: Lang R, Khandheria, BK, Goldstein S, Kronzon I, Saric M (eds). *American Society of Echocardiography’s Comprehensive Echocardiography*. 3rd Edition. Philadelphia, PA: Elsevier, 2021.

ABSTRACTS

Jain R, Horn EM, Landry DW. Peripheral vasodilation complicated by pulmonary hypertension: A role for vasopressin. Abstract from *Am J Respir Care* 2008 Apr;177.

Jain R, Booher AM, Pagani FD, Armstrong WF. Continuous-wave Doppler profile of aortic insufficiency in patients with continuous-flow, rotary pump left-ventricular assist devices. Poster presentation, American College of Cardiology (Michigan Chapter) 2008.

Jain R, M Kuskowski, Adabag S. How accurate is the "eyeball test?" A comparison of physicians' subjective assessment versus statistical methods in estimating mortality risk after cardiac surgery. Presented at American Heart Association Scientific Sessions. Los Angeles, CA. Nov 6, 2012.

Vercimack D, Duval S, **Jain R**. Clinical-risk profile of stroke in hypertrophic cardiomyopathy: A case-matched study from the Nationwide Inpatient Survey (NIS). Presented at American Heart Association Scientific Sessions. Los Angeles, CA. Nov 7, 2012.

Jain R, Nallamotheu BK, Chan PS. Association of body-mass index to survival after in-hospital cardiac arrest. Poster presentation, American College of Cardiology Scientific Sessions 2009.

Yarmohammadi H, Duval S, **Jain R**. Trends and Outcomes in the Use of Extracorporeal Membrane Oxygenation for Adults in the United States: A 10 year survey. Presented at American Heart Association Scientific Sessions, Dallas, TX, Nov 19, 2013.

Oluleye O., Duval S, **Jain R**. Sex Differences In Heart Failure Hospitalizations In Patients With Hypertrophic Cardiomyopathy. Presented at American College of Cardiology Scientific Sessions, Washington DC, Mar 2014.

Faizer R, Wedinhandl ED, Duval S, Ashely A, Oldenburg NC, **Jain R**, Loor G, Levin S, Santilli S, Hirsch AT. Comparing Trends in Ruptured Thoracic and Abdominal Aortic Aneurysms. Presented at Vascular Annual Meeting, Society of Vascular Surgery, 2014.

Taimh Z, Vaikl K, Martin C, **Jain R**, Colvin M. Heart Transplantation for Genetic Cardiomyopathies is Associated with Favorable Long-term survival and graft outcomes. Presented at American Heart Association Scientific Sessions, Chicago, IL, Nov 2014.

Algahim M, **Jain R**, Bajwa T, Khandheria BK, O'Hair D. Transcatheter balloon expandable valve for native mitral stenosis – a paradigm for sizing. Abstract accepted at Houston Aortic Symposium, Houston, TX, Mar 2015.

Ammar KA, Ahmad MM, Ahmad MN, Yousefzai R, Krishnaswamy J, Khandheria BK, **Jain R**, Tajik AJ. Is Hypertrophic Cardiomyopathy Associated With Aortopathy: An Imaging and Epidemiologic Case Control Study. Poster presentation for the American Heart Association, Nov 2015, Orlando, FL.

Ahmad MN, Ahmad MM, Hussaini SF, Khandheria BK, **Jain R**, Tajik AJ, Ammar KA. Aortopathy in Hypertrophic Cardiomyopathy; Association with Sinus of Valsalva versus Mid-Ascending Aorta: An epidemiological study. Poster presentation for the American College of Cardiology Scientific Sessions, Apr 2016, Chicago IL.

Ahmad MM, Ammar KA, Ahmad MN, Yousefzai R, Krishnaswamy J, Khandheria BK, **Jain R**, Tajik AJ. Thoracic Aortic Dilation is a Hereditary Disease: A Large Cross Sectional Imaging Study. Poster presentation for the American College of Cardiology Scientific Sessions, Apr 2016, Chicago IL.

Jain R, Ammar KA, Olet S, Umland MM, Khandheria BK, Tajik AJ. Diagnostic Accuracy of Echocardiography for Bicuspid Aortic Valve in 2016. Poster presentation for American Society of Echocardiography, Jun 2016, Seattle, WA.

Harland DR, O'Hair DP, Khandheria B, Richmond R, Bajwa TK, Kirby A, Olet S, **Jain R**. Recovery of Left Ventricular Mechanics Following Transcatheter Aortic Valve Implantation: Long-term Follow-up in Patients with Four Subtypes of Aortic Stenosis. Poster presentation for the American Heart Association, Nov 2016, New Orleans, Louisiana.

Jain R, Osranek M, Jan MF, Calvin L, Olet S, Allaqaband SQ, Khandheria BK, Tajik AJ. Marked Respiratory Related Variation in LVOT gradients in Hypertrophic Cardiomyopathy in Obese HCM Patients with Sleep-disordered Breathing. Poster presentation for the American College of Cardiology Scientific Sessions, Mar 2017, Washington DC.

Harland DR, O'Hair DP, Bajwa TK, Allaqaband SQ, Khandheria BK, Kirby A, **Jain R**. Echocardiographic guidance and monitoring of transcatheter mitral valve replacement in severe mitral annular calcification and failing bioprostheses; mid-term follow-up data are encouraging. Poster presentation for American Society of Echocardiography, Jun 2017, Baltimore, MD.

Jain R, O'Hair DP, Bajwa TK, Kirby AK, Harland D, Ignatowski D, Kay J, Khandheria BK. Transthoracic Echocardiography is Adequate for Intraprocedural Assessment of Transcatheter Aortic Valve Replacement. Poster presentation for American Society of Echocardiography, Jun 2017, Baltimore, MD.

Jain R, Calvin L, Johnson B, Muthukumar L, Khandheria BK, Tajik AJ. The Many Faces of Fabry's Cardiomyopathy: A Case Series. Poster presentation for American Society of Echocardiography, Jun 2017, Baltimore, MD.

Richmond RL, O'Hair DP, Harland DR, Bajwa TK, Kirby A, Hammonds T, Khandheria BK, **Jain R**. Echocardiographic Predictors of Elevated Gradients After Transcatheter Aortic Valve Replacement for Failing Bioprosthetic Aortic Valve Replacement. Poster presentation for American Society of Echocardiography, Jun 2017, Baltimore, MD.

O'Hair DP, **Jain R**, Khitha J, Khandheria BK, Allaqaband SQ, Bajwa TK. Transcatheter Aortic Valve Replacement with a Self-Expanding Bioprosthesis Augmented with a Porcine Pericardial Wrap. Poster Presentation to TCT Oct 2017, Denver, CO.

Jain R, Khandheria BK, Tajik AJ. The development of an apical pouch with exercise stress echocardiography in patients with apical hypertrophic cardiomyopathy: a novel observation. Poster presentation for the European Society of Cardiology EuroEcho-Imaging Dec 2017, Lisbon, Portugal.

Jain R, O'Hair DP, Bajwa TK, Kirby AK, Ignatowski D, Khandheria BK. Transthoracic echocardiography is adequate for intraprocedural assessment with the latest generation self-expandable transcatheter aortic valve replacement. Poster presentation for the European Society of Cardiology EuroEcho-Imaging, Dec 2017, Lisbon, Portugal.

Jain R, Khandheria BK, Olet S, Johnson B, Ignatowski D, Tajik AJ. Genetic Basis of Aortopathy in Bicuspid Valve Disease. Poster presentation for the American College of Cardiology's Scientific Sessions 2018 meeting, Mar 2018, Orlando, FL.

Harland DR, **Jain R**, Calvin LR, Jan MF, Khandheria BK, Tajik AJ. Prevalence of respiratory variation in left ventricular outflow tract obstruction in hypertrophic cardiomyopathy. Poster presentation at American Society of Echocardiography Scientific Sessions, Jun 2018, Nashville, TN.

Jain R, Khandheria BK, Ignatowski D, Johnson B, Olet S, Muthukumar L, Tajik AJ. Revisiting the relationships between bicuspid aortic valve and aortopathy: insights from a large community cohort. Poster presentation at American Society of Echocardiography Scientific Sessions, Jun 2018, Nashville, TN.

Muthukumar L, Jan MF, Umland M, **Jain R**, Khandheria BK, Olet S, Tajik AJ. Global and regional left ventricular peak longitudinal strain in bileaflet myxomatous mitral valve prolapse: in search of high risk markers. Poster presentation at American Society of Echocardiography Scientific Sessions, Jun 2018, Nashville, TN.

Wani A, Singsank Z, Olet S, **Jain R**, Khandheria BK. Morbidity in takotsubo cardiomyopathy: echocardiographic predictors of clinical outcomes in a detailed cohort. Poster presentation at American Society of Echocardiography Scientific Sessions, Jun 2018, Nashville, TN.

Galazka P, Sawlani R, **Jain R**, Skulborstad E, Johnson B, Olet S, Khandheria BK, Jahangir A, Tajik AJ. T2 mapping in gene positive and VOUS gene hypertrophic cardiomyopathy patients. Poster presentation for the Society of Cardiovascular Magnetic Resonance 22nd Annual Scientific Sessions, Feb 2019, Bellevue, WA.

Wani A, **Jain R**, Olet S, Khandheria BK. Clinical Predictors of Global Longitudinal Strain Recovery in Takotsubo Cardiomyopathy. Flat-board poster presentation for the American College of Cardiology's Scientific Sessions, Mar 2019, New Orleans, LA.

Hritani AW, Razzaque I, Kirby AM, Allaqaband SQ, Khandheria BK, O'Hair DP, **Jain R**, Bajwa TK. Early Structural Valve Deterioration of a Balloon Expandable Edward Sapien Valve Treated with Self Expandable Evolut-R Using Transcatheter Valve in Valve Technique. Flat-board poster presentation for the American College of Cardiology's Scientific Sessions, Mar 2019, New Orleans, LA.

Ali ZS, Mengesha T, Allaqaband SQ, **Jain R**, Bajwa TK. Early Clinical and Procedural Outcomes in a Large Series of 34 mm Self-Expanding Transcatheter Aortic Valve Replacement. Flat-board poster presentation for the American College of Cardiology's Scientific Sessions, Mar 2019, New Orleans, LA.

Jain R, Sengupta S, Olet S, Burkule N, Khandheria BK. Myocardial Work: A Novel Index of Left Ventricular Systolic Function in South Asian Half-Marathon Runners Correlated With Echocardiographic and Clinical Variables. Flat-board poster presentation for the American College of Cardiology's Scientific Sessions, Mar 2019, New Orleans, LA.

Adil A, **Jain R**, Sawlani R, Galazka P, Wani A, Kazmi FN, Syed SA, Tajik AJ. An Unusual Case of Hypertrophic Cardiomyopathy Phenotype. Flat-board poster presentation for the American College of Cardiology's Scientific Sessions, Mar 2019, New Orleans, LA.

Ali M, Atzenhoefer M, Sharma P, Odeh K, Perez Moreno A, **Jain R**, Allaqaband SQ, Bajwa T, Kostopoulos L. Treatment strategies in patients with stable obstructive coronary artery disease and severe aortic valve stenosis who underwent TAVR. Moderated poster presentation at TCT 2019, Sept. 25-29, 2019, San Francisco, CA.

Houff D, **Jain R**, Baig M, Ali M, Crouch J, Galazka P, J. Khitha. Multimodality Imaging in Evaluation of Complications of Myocardial Infarction: Is It an Aneurysm, Pseudaneurysm, or Neither? Flatboard poster presentation at American College of Cardiology's Scientific Sessions 2020, March 28-30, 2020, in Chicago, IL.

Ali M, Galazka P, Khandheria BK, Tajik AJ, **Jain R**. The Dynamic Nature of Apical Pouch in Apical Hypertrophic Cardiomyopathy: Insights from Contrast-Enhanced Exercise Echocardiography. Flatboard poster presentation at American College of Cardiology's Scientific Sessions 2020, March 28-30, 2020, in Chicago, IL.

Houff D, **Jain R**, Khitha J, Port S, Mortada EM. Second Reported Case of Pulmonary Vein Compression Following WATCHMAN Left Atrial Appendage Closure Device Implantation. Poster Presentation at 2020 Heart Rythmi Scientific Sessions, May 6-9, 2020 in San Diego, CA.

Jain R, Khandheria BK, Kroboth S, Perez Moreno AC, Esenberg R, Johnson B, Ignatowski D, Schweitzer M, Tajik AJ. Evaluating aortic wall strain by noninvasive methods to understand relationships between bicuspid aortic valve and aortopathy. Moderated e-poster presentation at American Society of Echocardiography Scientific Sessions, June 19-22, 2020, Denver, Colorado.

Muthukumar L, Jahangir A, Galazka P, Schweitzer M, Pesek K, Perez Moreno AC, **Jain R**, Jan MF, Khandheria BK, Tajik AJ. Heterogenous myocardial work indices in bileaflet myxomatous mitral valve prolapse. E-poster presentation at American Society of Echocardiography Scientific Sessions, June 19-22, 2020, Denver, Colorado.

Harland DR, Bajwa T, Allaqaband SQ, Roemer S, Khandheria BK, **Jain R**. Feasibility of Vortex Imaging During Mitraclip™ Implantation: The First Step in Using High-Frame Rates to Reveal Complex Flow Patterns After Transcatheter Edge-To-Edge Repair. E-poster presentation at American Society of Echocardiography Scientific Sessions, June 19-22, 2020, Denver, Colorado.

Esenberg R, Ignatowski D, Pesek K, Khandheria BK, **Jain R**. Prescreening: A method for optimizing appropriate use of echocardiography and improving workflow in outpatient echocardiography laboratory. Moderated e-poster presentation at American Society of Echocardiography Scientific Sessions, June 19-22, 2020, Denver, Colorado.

Wani A, Richards L, **Jain R**, Allaqaband S, Fisher WJ, Bajwa T. Debulking of Tricuspid Valve Endocarditis AngioVac System. Oral presentation at Society for Cardiovascular Angiography and Interventions Complete Higher Risk Indicated Percutaneous Coronary Intervention (CHIP) Coronary Total Occlusion (CTO) 2021 on February 7, 2021 (Virtual).

McDiarmid M, Sherry C, Zilinski J, Nfor T, Simpson D, **Jain R**. Interprofessional communication in the cardiac catheterization laboratory cardiology. Capstone presentation presented at the Alliance of Independent Academic Medical Centers 2021 National Initiative VII Virtual Meeting 4.. March 26, 2021; Nashville, TN & Virtual.

Baig M, Galazka P, Dakwar O, Muthukumar L, Syed, SA, **Jain R**, Jan MF, Sawlani R, Shahir K, Port S, Khandheria B, Jahangir A, Tajik, AJ. Prevalence of Myocardial Edema with T2 Mapping in

Hypertrophic Cardiomyopathy. Moderated poster presentation at American College of Cardiology's Scientific Sessions Annual Scientific Session May 15-17, 2021, in Atlanta, GA.

McDiarmid M, Kroboth S, Perez Moreno A, Khandheria BK, Allaqaband SQ, Crouch J, Weiss E, Sherry C, **Jain R**, Bajwa T. Comparison of Self-Expanding Evolut Pro+ And Evolut R in the 34mm TAVR, a Single-Center Experience. Flatboard poster presentation at American College of Cardiology's Scientific Sessions Annual Scientific Session May 15-17, 2021, in Atlanta, GA.

Jain R, Ignatowski D, Perez Moreno AC, Kroboth S, Khandheria BK. Seroprevalence of SARS-CoV-2 Antibody in Echocardiography and Stress Laboratory During COVID-19 Pandemic: A Longitudinal Study. ePoster Presentation at American Society of Echocardiography Annual Scientific Sessions June 18-21, 2021 (virtual).

Jain R, Ignatowski D, Perez Moreno AC, Kroboth S, Khandheria BK. Reversibility of Echocardiographic Abnormalities in Patients with COVID-19 Infection. ePoster Presentation at American Society of Echocardiography Annual Scientific Sessions June 18-21, 2021 (virtual).

Kaushal S, **Jain R**, Schweitzer M, Pesek K, Perez Moreno AC, Khandheria BK, Tajik AJ. Assessing Gradients in Hypertrophic Cardiomyopathy: Please Stand Up! ePoster Presentation at American Society of Echocardiography Annual Scientific Sessions June 18-21, 2021 (virtual).

Kaushal S, **Jain R**, Perez Moreno AC, Kroboth S, Port SC, Harland DR. Relationship Of A Semi-Quantitative Novel MAC Assessment With Automated Quantitative MAC Score Using The Agatston Method. Poster presentation at Society of Cardiovascular Computed Tomography Annual Scientific meeting July 16-17, 2021 (virtual).

Bajwa T, **Jain R**, Weiss E, Allaqaband S, Reardon M, Lim S. Transseptal Intrepid Mitral Valve Implantation in a Patient with Mitral Annular Calcification. Oral presentation to Transcatheter Valve Therapeutics (TVT) Scientific Sessions, July 22, 2021, Miami, FL.

Sharma K, Laham RG, Sorajja P, Shah B, Garcia S, **Jain R**, Fender E, Philip F, Eisenberg R, Chetcuti S. Procedural Success, Valve Hemodynamics and Outcomes in Patients with Moderate Aortic Stenosis Undergoing Supra-Annular Transcatheter Aortic Valve Replacement. Moderated Poster Presentation, American Heart Association Scientific Sessions, November 31, 2021, Boston, MA.

Badr S, Sherry C, Ammar KA, **Jain R**, Galazka P, Allaqaband SQ, Crouch J, Bajwa T, Weiss ES. Transatrial balloon-expandable valve implantation for symptomatic mitral stenosis with severe annular calcification—a hybrid solution. Poster presentation, CRT 2022, February 26, 2022, Washington, DC.

Jain R, Rajagopal V, Kauten J, Bapat V, Sorajja P, Bajwa T, Weiss E, Allaqaband SQ, Khandheria BK, Gearhart E, Qasim A, Adams D, Mack M, Leon M. Mid-term Echocardiographic Outcomes Following Transapical Mitral Valve Replacement: Updates from the Intrepid Pilot Study. Late-Breaking Abstract to Transcatheter Therapeutics (TCT), Boston, MA Sept 19 2022.

Klinka M, Osman M, Sherry C, Zlochiver V, Adefisoye J, Hall J, Crouch J, Weiss E, **Jain R**, Allaqaband S, Bajwa T, Jan MF. Mortality outcomes in concordant versus discordant severe symptomatic aortic stenosis in patients with normal ejection fraction after transcatheter aortic valve replacement. Moderated poster presentation at the American College of Cardiology Together With WCC (ACC.23/WCC), March 4-6, 2023, New Orleans, LA.

Yakubov SJ, Van Meighem N, Oh JK, Ito S, Grubb KJ, O'Hair D, Forrest JK, Gada H, Mumtaz M, Deeb GM, Tang GH, Rovin JD, **Jain R**, Windecker S, Sondergaard L, Skelding KA, Kleiman N, Chetcuti SJ, Dedrick A, Vedoliva S, Reardon MJ. Five-Year Incidence of Bioprosthetic Valve Dysfunction in Patients Randomized to Surgery or TAVR: Insights from the CoreValve US Pivotal and SURTAVI Trials. Late-Breaking Trial Moderated Poster presentation, CRT 2023, February 27, 2023, Washington, DC.