

PAUL SORAJJA, MD

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PERSONAL INFORMATION

Born: February 29, 1972; Detroit, MI
Citizenship: USA

CURRENT POSITION

**Roger L. and Lynn C. Headrick Family Chair, Valve Science Center,
Minneapolis Heart Institute Foundation (2016-present)**
**Director, Center for Valve and Structural Heart Disease,
Minneapolis Heart Institute at Abbott Northwestern Hospital (2013-present)**
**Senior Consulting Cardiologist, Minneapolis Heart Institute at
Abbott Northwestern Hospital (2013-present)**

PRIOR POSITION

Professor of Medicine, Mayo Clinic College of Medicine (2013)
**Consultant, Division of Cardiovascular Diseases and Internal Medicine, Mayo
Clinic and Mayo Foundation (2006-13)**
Program Director, Mayo Clinic Interventional Cardiology Fellowship, (2010-13)
Program Director, ANW/HCMC Interventional Cardiology Fellowship, (2014-17)
**Co-Director for Education, Cardiac Catheterization Laboratory, Mayo Clinic
(2010-13)**
**Section Head, Interventional Cardiology, Minneapolis Heart Institute at Abbott
Northwestern Hospital (2019-21)**

EDUCATION

Mayo Clinic College of Medicine, Rochester MN (1997-98, 2000-05)
Residency in Internal Medicine
Fellowship in Cardiovascular Diseases

St. George's Hospital Medical School, NHS Trust, London, UK (1998-2000)
Clinical and Research Fellowship in the Department of Cardiological Sciences

Mayo Medical School, Rochester, MN (1993-1997)
Mayo Medical School Admissions Committee
Mayo Medical School Merit Scholarship
Harry Hoffmann Clerkship Award
Mayo International Health Program Scholar
ACP Clinical Vignette Award Winner

Southwestern University, Georgetown, TX (1989-1993)

Bachelor of Science, *magna cum laude*

Dean's List

Outstanding Senior Biology Student

Alpha Chi Honor Scholarship Society (replaced by Phi Beta Kappa following year)

University Merit Scholarship

BOARD CERTIFICATION

American Board of Internal Medicine, 2002

American Board of Cardiovascular Diseases, 2005

American Board of Interventional Cardiology, 2006, 2017

PROFESSIONAL ORGANIZATIONS

Fellow, American College of Cardiology

Fellow, Society of Cardiovascular Angiography and Interventions

Fellow, American Heart Association

International Andreas Gruentzig Society

American Medical Association

Thai Physicians Association of America

LEADERSHIP POSITIONS AND APPOINTMENTS

Roger L. and Lynn C. Headrick Family Chair, Valve Science Center, Minneapolis
Heart Institute Foundation (2017–present)

Associate Editor, *Journal of the American College of Cardiology* (2022-present)

MVARC 2 Committee faculty member (2021–present)

Heart Valve Collaboratory member (2021–present)

TVARC Committee faculty member (2021-present)

Writing Committee member, 2020 ACCF/AHA Hypertrophic Cardiomyopathy Practice
Guidelines Update (2019-present)

CLIMB, Mitral Track Chair (2021)

PCR Tricuspid Working group (2021 – present)

President, Cardiovascular Innovations Foundation (2017-18, 2021-22)

Emerging Leader Mentorship Program Fellow, Society of Cardiovascular Angiography
and Interventions (2011-13)

Tricuspid Track Chair, Heart Valve Society of America (2022)

Mitral Track Chair, Heart Valve Society of America (2021)

Structural Heart Disease Track Chair, SCAI 2020 Scientific Sessions (2019-2020)

Course Co-Director, Structural Heart Symposium: Mastery in Mitral Valve and
Tricuspid Valve Therapies (2019)

Course Director, Cardiovascular Innovations annual meeting (2017-present)

Board of Directors, Cardiovascular Innovations (2016-present)

Chair, SCAI Expert Consensus Document on Invasive Hemodynamics (2015-2017)

Course Director, Midwest Cardiovascular Forum: Controversies in Cardiovascular Disease. Minnesota Chapter of the American College of Cardiology.

(2015-2017)

Chair, Interventional Career Development Committee, Society of Cardiovascular Angiography and Interventions (2009-2012)

Co-Chair, Cardiovascular Leadership Institute, American College of Cardiology (2012-13)

Chair, American College of Cardiology Faculty Development Workgroup (2012-13)

Writing Committee member, 2014 ACCF/AHA Valvular Heart Disease Practice Guidelines Update (2012-2013)

Writing Committee member, SCAI Consensus Document on Performance of Ad Hoc PCI (2011-12)

Writing Committee member, SCAI Consensus Document on Performance of Left Ventriculography (2011-12)

Member, Structural Heart Disease Council, Society of Cardiovascular Angiography and Interventions (2016-2017).

Topic Coordinator, Myocardial and Pericardial Disease, ACC.13 Annual Scientific Session Program Committee

Topic Co-coordinator, Myocardial and Pericardial Disease, ACC.12 Annual Scientific Session Program Committee

Clinical Topic Editor for Valvular Heart Disease, American College of Cardiology (2012-present)

Editorial Board member, ACCEL (2012-2015)

Interventional Subcommittee Track for AHA Scientific Sessions Program Committee (2013)

Member, SCAI working group on transaortic valve implantation (2011-2013)

Editorial Consultant, Journal of the American College of Cardiology (2012-present)

Editorial Board member, Catheterization Cardiovascular Interventions (2011-present)

MKSAP 17 Cardiovascular Medicine Section (2013-present)

Data Monitoring Committee member, CSP #571, "Drug-Eluting vs. Bare Metal Stents in Saphenous Vein Graft Angioplasty (DIVA)" (2011-present)

Board of Councilors member, Minnesota Chapter of American College of Cardiology (2011-2013)

Member, Executive Council, Society of Cardiovascular Angiography and Interventions Interventional Heart Failure (2013-2015)

eSCAI Committee, Society of Cardiovascular Angiography and Interventions (2011-2014)

Voting member, Education Committee, Society of Cardiovascular Angiography and Interventions (2011-2014)

Voting member, Structural Heart Disease, Society of Cardiovascular Angiography and Interventions (2016-present)

Peer reviewer, 2010 ACCF Clinical Practice Guidelines in the Management of Hypertrophic Cardiomyopathy

Peer reviewer, 2011 ACCF Clinical Expert Consensus Document on Practical Clinical Considerations in the Interpretation of Troponin Elevations

Course Director, 2014 Valvular Heart Disease Summit, The Science and Delivery of Optimal Multidisciplinary Care. The Minneapolis Heart Institute Foundation.

AWARDS

Recipient of the named chair in valve science, the Roger L. and Lynn C. Headrick Family Chair. Valve Science Center, Minneapolis Heart Institute Foundation. 2017.

2017 Recipient of the Robert G. Hauser, MD, Leadership Award. Minneapolis Heart Institute Foundation.

Recipient from the Mayo Department of Medicine 2009 MIDAS award for project entitled, "Interventional Cardiology Curriculum: A New Model for Continuing Graduate Medical Education."

Recognition as Top 20% of Teachers in the Mayo Clinic Department of Medicine Internal Medicine Residency Program 2009, 2010, 2011, 2012.

Internal Medicine Residency Outstanding Subspecialty Teacher of the Year award 2010.

Elite Reviewer, Journal of the American College of Cardiology 2011, 2012.

Frank Hildner Elite Reviewer, Catheterization Cardiovascular Interventions 2011, 2012, 2013, 2014.

CLINICAL TRIAL LEADERSHIP

National Co-Principal Investigator for TRILUMINATE Pivotal U.S. Study (2018-present)

National Co-Principal Investigator for U.S. Pivotal Study (SUMMIT) of Tendyne in Severe Mitral Annular Calcification (2018-present)

National Co-Principal Investigator for EXPAND I Pivotal U.S. Trial (2020-2021)

National Co-Principal Investigator for EXPAND II Pivotal U.S. Trial (2020-present)

National Principal Investigator of VDyne Early Feasibility Study (2020-present)

National Principal Investigator of Alt-Flow Early Feasibility Study (2018-2021)

U.S. Principal Investigator for HighLife Early Feasibility Study (2019-present)

National Co-Principal Investigator for Early Feasibility Study of Tendyne in Severe Mitral Annular Calcification (2018-present)

National Principal Investigator for the SOAR-EFS Study (2022-present)

Member, Steering Committee Member, W.L. Gore Pipeline Executive Committee (2020-present)

Member, Steering Committee Member, ACCURATE NEO2 pivotal trial (2020-present)

Member, Steering Committee for TRILUMINATE CE/Early Feasibility Study (2017-present)

Member, Steering Committee for TRILUMINATE U.S. Pivotal Trial (2019-present)

Member, Eligibility Anatomy Committee for TRILUMINATE U.S. Pivotal Trial (2019-present)

Member, Steering Committee for EXPAND Study of MitraClip (2018-present)

Member, Steering Committee of SUMMIT Pivotal Clinical Trial of Tendyne (2018-present)

Member, Steering Committee of HighLife Early Feasibility Study (2019-present)

Member, APOLLO Executive Committee (2016-2018)

Member, NeoVasc Executive Steering Committee (2020-present)

Member, G4 Adverse Leaflet Events Committee (2019)

JOURNAL REVIEWER

American Journal of Cardiology

Circulation

Circulation: Catheterization Cardiovascular Interventions

Journal of the American College of Cardiology (Associate Editor)

Journal of the American College of Cardiology Interventions

Journal of the American College of Cardiology Imaging

Catheterization Cardiovascular Interventions

European Heart Journal

European Heart Journal Heart Failure

Journal of the American Society of Echocardiography

Journal of Cardiovascular Magnetic Resonance

Journal of Heart Valve Disease

New England Journal of Medicine

INDUSTRY RELATIONSHIPS

4C Medical (Consulting and Advisory Board)

Anteris (Consulting and Advisory Board)

Abbott Structural (Consulting and Advisory Boards for Global Valve Masters, Tricuspid, Global Complexity Score Advisory Board)

Boston Scientific Structural (Consulting and Advisory Board)

Evolution Medical (Consulting)

Foldax (Consulting)

GLG (Consulting)

Medtronic (Consulting and Structural Heart Advisory Board)

Phillips (Consulting)

Orsus Medical LLC (Equity and Consulting)

Shifamed (Consulting and Advisory Board)

Siemens (Consulting)

TriFlo (Consulting)

VDyne (Consulting and Advisory Board)

xDot (Consulting and Advisory Board)

PATENTS (PUBLIC)

1. Methods and apparatus for heart valve leaflet modification. US-20220361945-A1. Nov 17, 2022.
2. Pericardial anchoring system. US-20220338990-A1. Oct., 27, 2022.
3. Pericardial anchoring system. US-20220339437-A1. Oct. 27, 2022.
4. Method And Apparatus For Removing Heart Valve Therapy. US-20220265311-A1. Aug 25, 2022.

5. Devices And Methods For Guide Wire Placement. US-20220151711-A1. May 19, 2022.
6. Curled shaft temporary pacing lead. US-20220118261-A1. April 21, 2022.
7. Anchored Leaflet Device And Methods For Transcatheter Valve Repair. US-20220096234-A1. March 31, 2022.
8. Transseptal guide wire puncture system. US-20220080161-A1. March 17, 2022.
9. Transseptal guide wire puncture system. US-11224725-B2. January 18, 2022.
10. Gadolinium contrast agents, scavenging methods, and scavenging system. US-11224666-B2. January 18, 2022.
11. Radiocontrast agents, scavenging methods, and scavenging system. US-11213596-B2. January 4, 2022.
12. Method And System For Closure Of Cardiovascular Apertures. US-20210186515-A1. June 24, 2021.
13. Temporary pacing lead. US-10773076-B2. September 15, 2020.
14. Radiocontrast agents, scavenging methods, and scavenging system. US-20190275178-A1. September 12, 2019.
15. Gadolinium contrast agents, scavenging methods, and scavenging system. August 15, 2019.
16. Transseptal guide wire puncture system. US-20190167305-A1. June 6, 2019.
17. Temporary pacing lead. US-20180353751-A1. December 13, 2018.
18. Device for the Delineation of Cardiovascular or Other Anatomical Structures. US-20120330132-A1. December 27, 2012.
19. Apparatus and methods for perivalvular leak occlusion. US-20100198238-A1. August 5, 2010.
20. Abdominal retraction for medical/surgical procedures. US-20100145155-A1. June 10, 2010.

MANUSCRIPTS

1. **Sorajja P**, Cable DG, Schaff HV. Hypothermic storage in University of Wisconsin solution preserves endothelial and smooth muscle function. *Circulation* 1997 [suppl II]:II-297-II-303.
2. **Sorajja P**, Poirier MK, Bundrick JB, Matteson EL. Autonomic failure and proximal skeletal myopathy in a patient with primary Sjögren's syndrome. *Mayo Clinic Proc* 1999;74:695-697.

3. Cable DG, **Sorajja P**, Oeltjen MR, Schaff HV. Differential effects of protamine on canine coronary microvessel and conductance arteries: evidence of hyperpolarizing factor release. *Surgery* 1999;126:835-41.
4. **Sorajja P**, Elliot PM, McKenna WJ. Pacing in hypertrophic cardiomyopathy. *Cardiol Clin* 2000;18(1):67-79.
5. **Sorajja P**, Elliott PM, McKenna WJ. The molecular genetics of hypertrophic cardiomyopathy: prognostic implications. *Europace* 2000;2:4-14.
6. Matsumura Y, Elliott PM, Virdee MS, **Sorajja P**, Doi Y, McKenna WJ. Left ventricular diastolic function assessed using Doppler tissue imaging in patients with hypertrophic cardiomyopathy: relation to symptoms and exercise capacity. *Heart* 2002;87:247-251.
7. **Sorajja P**, Sweeney MG, Chalmers R, Sachdev B, Syrris P, Hanna M, Wood ND, McKenna WJ, Elliott PM. Cardiac abnormalities in patients with Leber's hereditary optic atrophy. *Heart* 2003;89:791-792.
8. **Sorajja P**, Ommen SR, Nishimura RA, Gersh BJ, Tajik AJ, Holmes DR, Jr. Myocardial bridging in adult patients with hypertrophic cardiomyopathy. *J Am Coll Cardiol* 2003;42:889-894.
9. **Sorajja P**, Ommen SR, Nishimura RA, Gersh BJ, Berger PB, Tajik AJ. Adverse prognosis of patients with hypertrophic cardiomyopathy and epicardial coronary artery disease. *Circulation* 2003;108:2342-2348.
10. **Sorajja P**, Cable DG, Schaff HV. Hirudin (desulfated, 54-65) causes contraction of canine coronary arteries which is attenuated by calcium-channel blockers. *J Surg Res* 2004;121:38-41.
11. **Sorajja P**, Ommen SR. Myocardial bridging in adult patients with hypertrophic cardiomyopathy (letter reply). *J Am Coll Cardiol* 2004;43:1133.
12. **Sorajja P**, Cable DG, Hamner CE, Schaff HV. Prolonged exposure of canine coronaries to a nitric oxide donor desensitizes soluble guanylate cyclase. *J Surg Res* 2005;123:82-88.
13. **Sorajja P**, Gersh BJ, Cox DA, Turco MA, Carroll JD, Brodie B, Garcia E, Guagliumi G, Grines CL, Stone GW. Combined prognostic utility of ST-segment recovery and myocardial blush after acute myocardial infarction. *Europ Heart J* 2005;26:667-674.
14. Veselka J, Duchoňová R, Procházková Š, Zemánek D, Páleníčková J, **Sorajja P**, Tesař D. A prospective, randomized study of ethanol dosing in patients undergoing percutaneous septal ablation for obstructive hypertrophic cardiomyopathy. *Am J Cardiol* 2005;95:675-8.

15. **Sorajja P**, Chareonthaitawee P, Miller TD, Hodge DO, Gibbons RJ. Improved survival in asymptomatic diabetic patients with high-risk SPECT imaging treated with coronary artery bypass grafting. *Circulation* 2005;112[suppl I]:I-311-I-316.
16. Vaglio J*, **Sorajja P**, Gersh BJ. Ambulatory recorded death in hypertrophic cardiomyopathy. Implications for risk stratification. *Nat Clin Pract Cardiovasc Med* 2005;2:659-62.
*trainee
17. **Sorajja P**, Chareonthaitawee P, Ommen SR, Miller TD, Hodge DO, Gibbons RJ. Prognostic utility of single photon emission computed tomography (SPECT) in adult patients with hypertrophic cardiomyopathy. *Am Heart J* 2006;151:426-35.
18. Mahapatra S, Nishimura RA, **Sorajja P**, Cha S, McGoan MD. Relationship of pulmonary arterial capacitance and mortality in idiopathic pulmonary arterial hypertension. *J Am Coll Cardiol* 2006;47:799-803.
19. **Sorajja P**, Ommen SR, Nishimura RA, Ackerman MJ, Tajik AJ, McCully RM, Gersh BJ. Utility of echocardiography in patients with hypertrophic cardiomyopathy: clinical implications of massive hypertrophy. *J Am Soc Echo* 2006;19:788-95.
20. **Sorajja P**. A case of hypertrophic obstructive cardiomyopathy complicated by a single coronary artery treated by transcatheter septal ablation. [Invited commentary] *J Invas Cardiol* 2006;18:234-8.
21. **Sorajja P**, Gersh BJ, Mehran R, Lansky AJ, Krucoff MW, Gibbons RJ, Webb J, Cox DA, Brodie BR, Stone GW. Impact of collateral circulation on myocardial reperfusion and infarct size in patients undergoing primary percutaneous coronary intervention. *Am Heart J* 2007;154:379-84.
22. **Sorajja P**, Gersh BJ, Lansky A, Grines CL, Costantini C, McLaughlin M, Tchong JE, Stone GW. Adverse impact of multivessel disease on ST-segment recovery and clinical outcome in patients undergoing primary percutaneous coronary intervention for acute myocardial infarction. *Eur Heart J* 2007;28:1709-16.
23. Singh M, Rihal CS, Gersh BJ, Lennon RJ, Prasad A, **Sorajja P**, Gullerud RE, Holmes DR. Twenty-five-year trends in in-hospital and long-term outcome after percutaneous coronary intervention. A single-institution experience. *Circulation* 2007;115:2835-41.
24. Chareonthaitawee P, **Sorajja P**, Rajagopalan N, Miller TD, Hodge DO, Frye RL, Gibbons RJ. Prevalence and prognosis of left ventricular systolic dysfunction in asymptomatic diabetic patients without known coronary artery disease. *Am Heart J* 2007;154:567-74.

25. Doyle B, Kemp BJ, Chareonthaitawee P, **Sorajja P**, Caplice NM. Dynamic tracking during intracoronary injection of 18F-FDG labeled progenitor cell therapy for acute myocardial infarction. *J Nucl Med* 2007;48:1-7.
26. **Sorajja P**, Cabalka AK, Hagler DJ, Reeder GS, Chandrasekaran K, Cetta F, Rihal CS. Successful percutaneous repair of perivalvular prosthetic regurgitation. *Cathet Cardiovasc Interv* 2007;70:815-823.
27. Geske J*, **Sorajja P**, Nishimura R, Ommen SR. Evaluation of left ventricular filling pressures by Doppler echocardiography in patients with hypertrophic cardiomyopathy: correlation with direct left atrial pressure measurement at cardiac catheterization. *Circulation* 2007;116:2702-2708.
*trainee
28. Binder J, Ommen SR, **Sorajja P**, Nishimura RA, Tajik J. Clinical and echocardiographic variables fail to predict response to dual-chamber pacing for hypertrophic cardiomyopathy. *J Am Soc Echo* 2008;21:796-800.
29. Doyle B*, **Sorajja P**, Araoz PA, Stalboerger PG, Miller D, Reed C, Schmeckpeper J, Wang S, Liu C, Terzic A, Kruger D, Riederer S, Caplice NM. Progenitor cells and secreted paracrine factors induce regional cardiomyocyte hypertrophy following therapy for acute myocardial infarction. *Stem Cell Develop* 2008;17:941-51.
*These authors contributed equally to this work.
30. **Sorajja P**, Valeti U, Nishimura RA, Ommen SR, Rihal CS, Gersh BJ, Schaff HV, Holmes Jr DR. Outcome of alcohol septal ablation for obstructive hypertrophic cardiomyopathy. *Circulation* 2008;118:131-9.
31. Martinez MW, **Sorajja P**, Ommen SR. Mid-cavitary obstruction in hypertrophic cardiomyopathy. *Heart* 2008;94:1287.
32. **Sorajja P**, Borlaug BA. Severe heart failure in relatively mild mitral stenosis: The role of invasive hemodynamic assessment. *Cathet Cardiovasc Interv* 2008;72:739-48.
33. **Sorajja P**, Nishimura RA, Ommen SR, Rihal CS, Gersh BJ, Holmes Jr DR. Effect of septal ablation on myocardial relaxation and left atrial pressure in hypertrophic cardiomyopathy: an invasive hemodynamic study. *J Am Coll Cardiol Intv* 2008;1:552-560.
34. **Sorajja P**, Nishimura RA, Thompson J, Hindrichs P, Zehr K. A novel method of percutaneous annuloplasty for ischemic mitral regurgitation. *J Am Coll Cardiol Intv* 2008;1:663-72
35. Jaber WA, Yang EH, Rihal CS, **Sorajja P**, Elesber A, Eeckhout E, Nishimura R, Lerman A. Immediate improvement in coronary flow reserve after alcohol septal

- ablation in patients with hypertrophic obstructive cardiomyopathy. *Heart* 2009;95:564-69.
36. **Sorajja P**, Nishimura RA. PFO closure without echocardiography. Are we closing the door too soon? *J Am Coll Cardiol Intv* 2009;2:124-6.
 37. **Sorajja P**, Valeti U, Nishimura RA, Ommen SR, Rihal CS, Gersh BJ, Schaff HV, Holmes Jr DR. Outcome of alcohol septal ablation for obstructive hypertrophic cardiomyopathy (letter reply). *Circulation* 2009;119:e188.
 38. **Sorajja P**, Nishimura RA, Gersh BJ, Dearani JD, Hodge DO, Wiste HA., Ommen SR. Outcome of mildly symptomatic or asymptomatic obstructive hypertrophic cardiomyopathy: a long-term follow-up study. *J Am Coll Cardiol* 2009;54:234-41.
 39. Jaber WA*, **Sorajja P**, Borlaug BA, Nishimura RA. Differentiation of tricuspid regurgitation from constrictive pericarditis: novel criteria in the catheterization laboratory. *Heart* 2009;95:1449-54.
*trainee
 40. Geske J*, **Sorajja P**, Nishimura RA, Ommen SR. Left ventricular outflow tract gradient variability in patients with hypertrophic cardiomyopathy. *Clin Cardiol* 2009 Jul;32:397-402
*trainee
 41. Geske J*, **Sorajja P**, Nishimura RA, Ommen SR. The relation of left atrial volume and pressure in hypertrophic cardiomyopathy: an echocardiographic and cardiac catheterization study. *J Am Soc Echo* 2009;22:961-6
*trainee
 42. **Sorajja P**, Gersh BJ, Cox, DA, McLaughlin MG, Zimetbaum P, Costantini C, Stuckey T, Tchong JE, Mehran R, Lansky A, Grines CL, Stone GW. Impact of delay to angioplasty in patients with acute coronary syndromes undergoing invasive management: analysis from the ACUTY trial. *J Am Coll Cardiol* [In press]
 43. Rubinshtein R, Glockner JF, Ommen SR, Araoz PA, Ackerman MJ, **Sorajja P**, Bos JM, Tajik AJ, Valeti US, Nishimura RA, Gersh BJ. Characteristics and clinical significance of late gadolinium enhancement by contrast-enhanced magnetic resonance imaging in patients with hypertrophic cardiomyopathy. *Circ Heart Fail.* 2010;3:51-8.
 44. Hagler DJ, Cabalka AK, **Sorajja P**, Cetta F, Mankad SV, Bruce CJ, MD, Sinak LJ, Chandrasekaran K, Rihal CS. Assessment of percutaneous catheter treatment of paravalvular prosthetic regurgitation. *JACC Cardiovasc Imaging* 2010;3:88-91.

45. Schaff HV, Brown ML, Dearani JA, Abel MD, Ommen SR, **Sorajja P**, Tajik AJ, Nishimura RA. Apical myectomy: a new surgical technique for management of severely symptomatic patients with apical hypertrophic cardiomyopathy. *Thorac Cardiovasc Surg*. 2010 Mar;139:634-40.
46. Hagler DJ, Cabalka AK, **Sorajja P**, Cetta F, Mankad SV, Bruce CJ, Sinak LJ, Chandrasekaran K, Rihal CS. Assessment of percutaneous catheter treatment of paravalvular prosthetic regurgitation. *JACC Cardiovasc Imaging* 2010;3:88-91.
47. Park S-J, Nishimura RA, Borlaug BA, **Sorajja P**, Oh JK. The effect of loading alterations on left ventricular torsion: a simultaneous catheterization and two-dimensional speckle tracing echocardiographic study. *Europ J Echo* 2010;11:770-7.
48. Schwartzberg S,* **Sorajja P**. Cardiac tamponade or normal respiratory variation of LVOT obstruction? An illustrative case of alcohol septal ablation for obstructive hypertrophic cardiomyopathy. *Cathet Cardiovasc Interv* 2010;76:901-6.
*trainee
49. Borlaug B, Nishimura RA, **Sorajja P**, Lam CSP, Redfield MM. Exercise hemodynamics enhance the diagnosis of early heart failure with preserve ejection fraction. *Circ Heart Fail* 2010;3:588-95.
50. Kumar G*, Macdonald RJ*, **Sorajja P**, Edwards WD, Ommen SR, Klarich KW. Papillary fibroelastomas in 19 patients with hypertrophic cardiomyopathy undergoing septal myectomy. *J Am Soc Echocardiogr* 2010;23:595-8.
*trainee
51. **Sorajja P**, Gersh BJ, Stone GW. Timing of intervention in patients undergoing invasive management for acute coronary syndromes (letter reply). *J Am Coll Cardiol* [In press]
52. Bos JM, Maron BJ, Ackerman MJ, Haas TS, **Sorajja P**, Nishimura RA, Gersh BJ, Ommen SR. Role of family history of sudden death in risk stratification and prevention of sudden death with implantable defibrillators in hypertrophic cardiomyopathy. *Am J Cardiol* 2010;106:1481-6.
53. Geske J*, **Sorajja P**, Nishimura RA, Ommen SR. Variability of the left ventricular outflow tract gradient variability during cardiac catheterization in hypertrophic cardiomyopathy. *JACC Cardiovasc Intervent* 2011;4:704-9.
*trainee
54. Correa de Sa D*, Coutinho T, **Sorajja P**. Saphenous vein graft aneurysm. *American Heart Hospital J* 2011;9:E52-4.
*trainee

55. **Sorajja P**, Cabalka AK, Hagler DJ, Cetta F, Rihal CS. Percutaneous repair of perivalvular prosthetic regurgitation: acute and 30-day outcomes. *Circulation Cardiovasc Interv* 2011;4:314-21.
56. From AM, Lam CS, Pitta SR, Kumar PV, Balbissi KA, Booker JD, Singh IM, **Sorajja P**, Reeder GS, Borlaug BA. *Am J Med* 2011;124:1051-7.
57. **Sorajja P**. Round pegs for not round holes: the challenge of percutaneous repair of perivalvular prosthetic regurgitation. *Catheter Cardiovasc Interv* 2011;78:331-2.
58. **Sorajja P**, Booker J, Rihal CS. Alcohol septal ablation after transaortic valve implantation: the dynamic nature of left ventricular outflow tract obstruction. *Catheter Cardiovasc Interv* 2012 Feb 6 [Epub ahead of print]
59. **Sorajja P**, Cabalka AK, Hagler DJ, Rihal CS. Long-term outcome of percutaneous repair of perivalvular prosthetic regurgitation. *J Am Coll Cardiol* 2011;58(21):2218-24.
60. **Sorajja P**, Nishimura RA. Outcome prediction in septal ablation: still a long way to go. *JACC Cardiovasc Interv* 2012;4:1035-6.
61. Schwartzberg S, Redfield MM, From AM, **Sorajja P**, Nishimura RA, Borlaug BA. Effects of vasodilation in heart failure with preserved or reduced ejection fraction: implications of distinct pathophysiologies on response to therapy. *J Am Coll Cardiol* 2012;59:442-51.
62. Alli O,* **Sorajja P**. The challenges of closing large holes. *Catheter Cardiovasc Interv* 2012:150-1.
*trainee
63. **Sorajja P**, Binder J, Nishimura RA, Holmes Jr DR, Rihal CS, Gersh BJ, Bresnahan JF, Ommen SR. Predictors of an optimal clinical result with alcohol septal ablation. *Catheter Cardiovasc Interv* 2012 Apr 17 [Epub ahead of print]
64. **Sorajja P**, Lam CSP, Nishimura, RA, Ommen SR. Prognostic utility of poor metabolic exercise capacity in minimally symptomatic patients with obstructive hypertrophic cardiomyopathy. *Am J Cardiol* 2012;109:1494-8.
65. Schaff HV, Dearani JD, Ommen SR, **Sorajja P**, Nishimura RA. Expanding the indications for septal myectomy in patients with hypertrophic cardiomyopathy: results of operation in patients with latent obstruction. *J Thorac Cardiovasc Surg* 2012;143:303-9.
66. Rihal CS, **Sorajja P**, Hagler D, Cabalka AK. Principles of percutaneous repair of paravalvular leaks. *JACC Interv* 2012 5:121-130.

67. Geske JB, Cullen MW, **Sorajja P**, Ommen SR, Nishimura RA. Assessment of left ventricular outflow gradient: hyperrophic cardiomyopathy versus aortic valvular stenosis. *JACC Cardiovasc Interv* 2012;5:675-81.
68. **Sorajja P**, Ommen SR, Dearani JD, Holmes DR Jr., Rihal CS, Gersh BJ, Nishimura RA. Survival after septal alcohol septal ablation for obstructive hypertrophic cardiomyopathy. *Circulation* 2012;126:2374-80.
69. Orme NO*, **Sorajja P**, Dearani JA, Schaff HV, Gersh BJ, Ommen SR. Comparison of surgical septal myectomy to medical therapy alone in patients with hypertrophic cardiomyopathy and syncope. *Am J Cardiol* 2012 Nov 17 [Epub ahead of print]
*trainee
70. Gulati R, **Sorajja P**. Sheathless in the USA. *Catheter Cardiovasc Interv* 2012;80:281-2.
71. Gulati R, **Sorajja P**. Embolic protection for renal stenting: Should it be standard of care? *Catheter Cardiovasc Interv* 2012;80:1023-4.
72. Blankenship J, Gigliotti OS, Feldman DN, Mixon TA, Patel RA, **Sorajja P**, Yakubov SJ, Chambers CE. Ad Hoc percutaneous coronary intervention: a consensus statement from the society for cardiovascular angiography and interventions. *Catheter Cardiovasc Interv* 2013;81:748-58.
73. Eleid M*, Nishimura RA, Lennon RJ, **Sorajja P**. Left ventricular diastolic dysfunction in patients with mitral stenosis undergoing balloon mitral valvotomy. *Mayo Clin Proc* 2013;88:337-44.
*trainee
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BOOK CHAPTERS

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2. **Sorajja P**, Elliott PM, McKenna WJ. Genetic mutations in hypertrophic cardiomyopathy: insights into disease pathogenesis and prognosis. In: The Vertebrate Hearts and Genetic Basis of Human Cardiac Disease, Kumar S (Ed), 2002:1-26.
3. **Sorajja P**, Nishimura RA. Hypertrophic cardiomyopathy. In: Diagnosis and Management of Adult Congenital Heart Disease, Gatzoulis M, Webb G, Daubeney P (Eds), London: Harcourt Health Sciences, 2003:451-457.
4. **Sorajja P**, Ommen SR, Nishimura RA. U.S. perspectives on dual-chamber pacing in hypertrophic cardiomyopathy. In: Diagnosis and Management of Hypertrophic Cardiomyopathy, Maron BJ (Ed), Armonk: Futura, 2004.
5. **Sorajja P**, Nishimura RA. The assessment and therapy of valvular heart disease in the cardiac catheterization laboratory. In: Cardiovascular Medicine, 3rd Edition. Willerson JP, Cohn JN, Wellens HH, Holmes DR Jr. (Eds), London: Springer, 2007.
6. **Sorajja P**, Holmes DR Jr. Percutaneous coronary intervention in small vessels. In: Essential Interventional Cardiology, 2nd Edition. Philadelphia: Saunders Elsevier; 2008. p. 298-308.

7. **Sorajja P**, Gersh BJ. Chronic stable angina: American College of Cardiology/American Heart Association guidelines. In: 900 Questions: An Interventional Cardiology Board Review, Mukherjee D, Cho L, Moliterno DJ (Eds), Philadelphia: Lippincott Williams & Wilkins, 2007.
8. **Sorajja P**, Nishimura RA. Hemodynamics in constrictive pericarditis versus restrictive cardiomyopathy. In: UpToDate, Rose, BD (Ed), UpToDate, Waltham, MA, 2007.
9. **Sorajja P**, Nishimura RA. Aortic Stenosis. In: Contemporary Cardiology: Valvular Heart Disease, Bashore T, Wang A (Eds). [In press]
10. **Sorajja P**, Nishimura RA. Myocardial and Pericardial Disease. In: CathSap 3, Moliterno DJ (Ed). [In press]
11. **Sorajja P**. Catheter septal ablation vs. surgical myectomy in the treatment of hypertrophic cardiomyopathy. In Harrison's On-line, Braunwald E (Ed). [In press]
12. **Sorajja P**. Hemodynamic assessment for restriction, constriction, hypertrophic cardiomyopathy, and cardiac tamponade. In Cardiac Catheterization, Coronary & Peripheral Angiography, and Interventional Procedures, Mukherjee D, Cho L, Moliterno DJ (Eds).
13. **Sorajja P**, Ommen SR. Hypertrophic cardiomyopathy. In Sports Cardiology, Lawless CE (Ed).
14. **Sorajja P**, Rihal CS. Percutaneous therapy for valvular heart disease and hypertrophic cardiomyopathy. In Mayo Clinic Cardiovascular Board Review, 4th Edition.
15. **Sorajja P**, Borlaug B. Invasive hemodynamics. In Mayo Clinic Cardiovascular Board Review, 4th Edition. [In press]
16. Borlaug BA, **Sorajja P**, Kern M. Research Techniques. In Cardiac Catheterization Handbook, Kern M (Ed). [In press]
17. **Sorajja P**, Holmes DR Jr. Periprocedural bleeding in patients undergoing percutaneous coronary intervention-I. In UptoDate. Rose, BD (Ed), UpToDate, Waltham, MA, 2010-2017.
18. **Sorajja P**, Holmes DR Jr. Periprocedural gastrointestinal bleeding in patients undergoing percutaneous coronary intervention-I. In UptoDate. Rose, BD (Ed), UpToDate, Waltham, MA, 2010.
19. **Sorajja P**, Gersh BJ. Chronic stable angina: American College of Cardiology/American Heart Association guidelines. In: 1001 Questions: An

Interventional Cardiology Board Review, Mukherjee D, Cho L, Moliterno DJ (Eds), Philadelphia: Lippincott Williams & Wilkins, 2011. [In press]

20. **Sorajja P**. Myocardial bridging of the coronary arteries. In UptoDate. Rose, BD (Ed), UpToDate, Waltham, MA, 2011.
21. **Sorajja P**. Invasive hemodynamics of constrictive pericarditis, restrictive cardiomyopathy, and cardiac tamponade. In: *Cardiol Clin* 2011;29:191-9.
22. Eleid M, Mankad S, **Sorajja P**. Assessment and management of aortic valve disease and left ventricular dysfunction. *Heart Failure Reviews* 2012 Mar 21 [Epub ahead of print]
23. Steckelberg R*, **Sorajja P**. Symptomatic obstructive hypertrophic cardiomyopathy. In: *Heart Failure Cases*. Rathko PS (Ed) [In press]*trainee
24. **Sorajja P**. Pericardial diseases. In: *Principles of Critical Care Medicine 2012* [In press]
25. **Sorajja P**. Hypertrophic cardiomyopathy. *SCAI Interventional Cardiology Board Review* [2015]
26. **Sorajja P**. Pericardial disease interventions. *SCAI Interventional Cardiology Board Review* [2015]
27. **Sorajja P**, Nishimura RA. Myocardial and pericardial disease. In: *CathSap 4*, Moliterno DJ (Ed). [In press]
28. **Sorajja P**. Myocardial disease. In: *MKSAP 17* (2015).
29. **Sorajja P**. Pericardial disease. In: *MKSAP 17* (2015).
30. **Sorajja P**. Cardiovascular disease in cancer survivors. In: *MKSAP 17* (2015).
31. **Sorajja P**. Alcohol septal ablation: techniques and outcomes. In: *Hypertrophic Cardiomyopathy*. Naidu SS (Ed). [2015]
32. Kern MJ, **Sorajja P**, Lim MJ, Editors. *Cardiac Catheterization Handbook*, 6th Edition (2015).
33. **Sorajja P**, Ruiz CE, Kliger C, Kern MJ. Special techniques. In: *Cardiac Catheterization Handbook*, 6th Edition (2015). Kern MJ, Sorajja P, Lim MJ (Eds).
34. **Sorajja P**. Percutaneous repair of mitral paravalvular regurgitation. In: *Interventional Clinics* (2016). Rogers J (Ed).[In press]

35. **Sorajja P.** Hypertrophic cardiomyopathy. In: SCAI Interventional Cardiology Board Review, 3rd Ed. Kern MJ, Seto AH, Eds. 2018. pp. 451-457.
36. **Sorajja P.** Pericardial disease interventions. In: SCAI Interventional Cardiology Board Review, 3rd Ed. Kern MJ, Seto AH, Eds. 2018. pp. 464-468.
37. Chhatriwalla A, **Sorajja P.** Paravalvular leaks. In: SCAI Interventional Cardiology Board Review, 3rd Ed. Kern MJ, Seto AH, Eds. 2018. pp. 458-463.
38. **Sorajja P.** Mitral stenosis. SCAI Interventional Cardiology Board Review [2015]
39. **Sorajja P.** Alcohol septal ablation. In: Interventional Cardiac Catheterization Handbook, 2nd Edition (2017). Kern MJ, Sorajja P, Lim MJ (Eds).
40. **Sorajja P.** Mitral stenosis. In: Interventional Cardiac Catheterization Handbook, 2nd Edition (2017). Kern MJ, Sorajja P, Lim MJ (Eds).
41. **Sorajja P.** Paravalvular leak repair. In: Interventional Cardiac Catheterization Handbook, 2nd Edition (2017). Kern MJ, Sorajja P, Lim MJ (Eds).
42. **Sorajja P.** Pericardiocentesis. In: Interventional Cardiac Catheterization Handbook, 2nd Edition (2017). Kern MJ, Sorajja P, Lim MJ (Eds).
43. **Sorajja P.** Mitral stenosis. In: Interventional Cardiac Catheterization Handbook, 2nd Edition (2017). Kern MJ, Sorajja P, Lim MJ (Eds).
44. **Sorajja P.** Valvular heart disease. In: MKSAP 18 (2017).
45. Chhatriwalla A, **Sorajja P.** Valvular heart disease. In: CathSAP 5 (2017).
46. Kanda B, Gossel M, **Sorajja P.** Hemodynamic assessment for restriction, constriction, hypertrophic cardiomyopathy, and cardiac tamponade. In: Cardiovascular Catheterization and Intervention: A Textbook of Coronary, Peripheral, and Structural Heart Disease, 2nd edition. Murkhejee D, Bates ER, Roffi M, Lange RA, Moliterno DJ, Eds. 2018. pp. 165-178.
47. Goessl M, **Sorajja P.** Mitral paravalvular leak closure. In: Color Atlas of Structural Interventions, 1st Edition. Baliga RR, Lilly SM, Eds. 2018. pp. 301-307.
48. **Sorajja P,** Nagueh SF. Alcohol septal ablation: techniques and outcomes. In: Hypertrophic Cardiomyopathy. Naidu SS (Ed). [In press, 2018]
49. Chhatriwalla A, **Sorajja P.** Valvuloplasty and transcatheter valve repair and replacement. In: Interventional Cardiology 1133 questions: an interventional

cardiology board review, 3rd Ed. Murkhejee D, Bates ER, Roffi M, Lange RA, Moliterno DJ, Eds. 2019. pp. 361-374.

VISITING FACULTY

1. Septal reduction therapy in hypertrophic cardiomyopathy. Ottawa Heart Institute Research Rounds. June 16, 2008.
2. Percutaneous repair of para-prosthetic regurgitation. University of Texas at San Antonio Health Sciences Center Research Conference. April 28, 2011.
3. Septal reduction therapy in hypertrophic cardiomyopathy. University of Texas Southwestern Cardiovascular Grand Rounds, November 2, 2011.
4. Percutaneous repair of para-prosthetic regurgitation. Henry Ford Heart and Vascular Institute Cardiovascular Grand Rounds, April 24, 2012.
5. Hypertrophic Cardiomyopathy 2012. Temple University Medical Center Medical Grand Rounds, May 2, 2012.
6. Hemodynamic Cases. Temple University Medical Center Cath Conference, May 2, 2012.
7. Percutaneous repair of paravalvular prosthetic regurgitation. Krannert Institute of Cardiology, Indianapolis University Medical Center. March 19, 2013.
8. Percutaneous repair of paravalvular prosthetic regurgitation. Kaiser Permanente Cardiac Catheterization Grand Rounds. October 29, 2013.
9. Septal reduction therapy in hypertrophic cardiomyopathy. William Beaumont Hospital. November 3, 2013.
10. Percutaneous repair of paravalvular prosthetic regurgitation. William Beaumont Hospital Grand Rounds. November 3, 2013.
11. Transcatheter mitral valve therapy. Cedars Sinai Medical Center. November 7, 2017.
12. Transcatheter mitral valve therapy. Christiana Care Medical Center. November 8, 2017.
13. Transcatheter mitral valve therapy. Penn State Hershey Medical Center. April 11, 2018.
14. Transcatheter mitral valve therapy. Mid-America Heart Institute. May 17, 2018.
15. Transcatheter valve therapy. Mahidol University. July 4, 2018.

16. Transcatheter mitral repair and replacement. Inaugural Lectureship, CardioVascular Clinical Research and Innovation Center, Tufts University Medical Center, May 7, 2019.
17. Transcatheter Tricuspid and Mitral Therapy, Virtual presentation, UT Health San Antonio Cardiology Grand Rounds, October 18, 2021.
18. Percutaneous intervention for mitral and tricuspid disease. Virtual presentation, University of Wisconsin Grand Rounds. October 28, 2021.
19. Percutaneous approaches for mitral and tricuspid disease. Virtual presentation, Massachusetts General Hospital Interventional Grand Rounds, October 29, 2021.
20. TransCatheter Therapy for Tricuspid Regurgitation. Virtual presentation, at Northwell Health Department of Cardiology Grand rounds on April 8th, 2022.
21. Tricuspid Valve Therapies, Virtual presentation, Rush University Grand Rounds, August 19, 2022.
22. Moderate Aortic Stenosis, MHIF Grand Rounds, September 26, 2022.
23. Tricuspid Valve Therapies, Virtual presentation, UT Health San Antonio Cardiology Grand Rounds, September 27, 2022.
24. Tricuspid Valve Therapies, Virtual presentation, West Virginia University Grand Rounds, September 30, 2022.
25. Transcatheter Tricuspid Therapy, Visiting Professor, Duke Medicine Cardiology Grand Rounds, October 4, 2022
26. Tricuspid Valve Therapies, Visiting Clinician, Mercy Hospital Grand Rounds, December 7, 2022.
27. Transcatheter Tricuspid Therapy, Visiting Clinician, Catholic Health, St. Francis Hospital & Heart Center Grand Rounds, January 13, 2023

FACULTY SPEAKING

1. Speaker, Hypertrophic cardiomyopathy: diagnosis, prognosis, and treatment. 45th International Medical Congress of the Faculty of Medicine, Chulalongkorn University and Washington University at St. Louis. January 30-February 6, 2004.
2. Speaker, How to assess low-output, low-gradient aortic stenosis. Hemodynamic symposium, EuroPCR2006. May 18, 2006.
3. Speaker, Interventional Cardiology Cases. Mayo Nurse Practitioners and Physician Assistants Symposium. September 12, 2006
4. Speaker, Pharmacology in the Cath Lab. 4th Annual (2006), 5th Annual (2007), 6th Annual (2008), 7th Annual (2009), 8th Annual (2010), and 9th Annual (2011) Mayo Interventional Cardiology Board Review Course.
5. Speaker, Percutaneous Valve Therapy. 22nd Annual Cardiology Conference, Sioux City, IA. October 18, 2006.
6. Speaker, Left Main Cases. 56th Annual Scientific Sessions of the American College of Cardiology. March 27, 2007.
7. Moderator, ABIM Maintenance of Certification modules for the Interventional Cardiology Board Examination. 4th Annual, 5th Annual, 6th Annual, 7th Annual, and 8th Annual Mayo Interventional Cardiology Board Review Course (2006-2011).
8. Speaker, Hemodynamics. 12th Annual (2007), 13th Annual (2008), and 14th Annual (2009), and 16th Annual (2011) Mayo Cardiovascular Board Review Course.
9. Speaker, Autonomics I and II. Circulation Block, Mayo Clinic College of Medicine, 2007, 2008, 2009, 2010, 2011.
10. Speaker, Catheter-based ablation: here to stay? 13th Annual Cardiology at Cancun. February 26, 2008.
11. Speaker, Cardiac Cath Handbook Live: A Hemodynamics Course – Part 3. 57th Annual Scientific Sessions of the American College of Cardiology. March 29, 2008.
12. Speaker, Radiofrequency ablation for hypertrophic obstructive cardiomyopathy. 20th and 21st Transcatheter Cardiovascular Therapeutics conference. October 12, 2008 and September 22, 2009.
13. Speaker, Acute and late outcomes after surgical treatment of hypertrophic obstructive cardiomyopathy. 20th and 21st Transcatheter Cardiovascular Therapeutics conference. October 12, 2008 and September 22, 2009.

14. Speaker, Invasive assessment of hypertrophic cardiomyopathy. Scientific Sessions 2008. American Heart Association. November 11, 2008.
15. Speaker, Hemodynamic assessment of aortic and mitral disease. Plenary session. 58th Annual Scientific Sessions of the American College of Cardiology Innovations in Intervention (i2) Summit. March 28, 2009.
16. Session moderator, Idiopathic hypertrophic subaortic stenosis septal ablation cases. 58th Annual Scientific Sessions of the American College of Cardiology Innovations in Intervention (i2) Summit. March 30, 2009.
17. Speaker, Non-invasive and invasive assessment of aortic and mitral disease – the essentials. Fellows boot camp. 58th Annual Scientific Sessions of the American College of Cardiology Innovations in Intervention (i2) Summit. March 31, 2009.
18. Speaker, The thinking catheterizer's approach to right heart catheterization. Society of Cardiac Angiography Intervention's 32nd Annual Scientific Sessions. May 6, 2009.
19. Speaker, Septal ablation or surgical myectomy for hypertrophic obstructive cardiomyopathy. 11th International Course on Cardiology and Cardiac Surgery, University of Valparaiso and La Clinica Renaca and Mayo Clinic, Vina del Mar, Chile. August 20, 2009.
20. Speaker, Percutaneous valve therapy. 11th International Course on Cardiology and Cardiac Surgery, University of Valparaiso and La Clinica Renaca and Mayo Clinic, Vina del Mar, Chile. August 20, 2009.
21. Speaker, Hemodynamic assessment of aortic regurgitation. 21st Transcatheter Cardiovascular Therapeutics conference. September 22, 2009.
22. Speaker, Stump the experts – Advanced hemodynamics and angiography. 21st Transcatheter Cardiovascular Therapeutics conference. September 22, 2009
23. Speaker, Invasive management of hypertrophic cardiomyopathy. 6th Annual (2009) and 8th Annual (2011) Mayo Interventional Cardiology Board Review Course.
24. Speaker, ABIM Maintenance of Certification modules for the Interventional Cardiology Board Examination and General Cardiology Board Examination. Coronary Artery Disease: Prevention, Detection, Treatment. October 18, 2009.
25. Speaker, Percutaneous aortic valve replacement. 22nd Annual Loma Linda University Cardiovascular Symposium March 3, 2010.

26. Speaker, Percutaneous mitral valve repair. 22nd Annual Loma Linda University Cardiovascular Symposium March 4, 2010.
27. Speaker, The complete mitral valve assessment: the subtleties. 59th Annual Scientific Sessions of the American College of Cardiology Innovations in Intervention (i2) Summit. March 15, 2010.
28. Moderator, ABIM Maintenance of Certification module for the Interventional Cardiology Board Examination. 59th Annual Scientific Sessions of the American College of Cardiology Innovations in Intervention (i2) Summit. March 15, 2010.
29. Speaker, Hemodynamics symposium. Society of Cardiac Angiography Intervention's 33rd Annual Scientific Sessions. May 5, 2010.
30. Speaker, Session moderator, Early Career Symposium. Society of Cardiac Angiography Intervention's 33rd Annual Scientific Sessions. May 6, 2010.
31. Speaker, Aortic stenosis: new perspectives and treatments. 27th Annual Cardiovascular Symposium. Sioux City, IA. October 20, 2010.
32. Speaker, Hypertrophic cardiomyopathy: 2010. 22nd Annual Cardiovascular Symposium at the University of Toledo. Toledo, OH. December 3, 2010.
33. Speaker, Percutaneous repair of para-prosthetic regurgitation: prime time? Mayo Clinic Valvular Heart Disease Satellite Symposium, 60th Annual Scientific Sessions of the American College of Cardiology. April 2, 2011.
34. Session chair, Core Curriculum: Cardiac Catheterization. 60th Annual Scientific Sessions of the American College of Cardiology. April 4, 2011.
35. Speaker, Left Heart Hemodynamics. 60th Annual Scientific Sessions of the American College of Cardiology. April 4, 2011.
36. Speaker, Selection for surgical myectomy vs. alcohol septal ablation. 60th Annual Scientific Session of the American College of Cardiology, Innovations in Intervention (i2) Summit. April 4, 2011.
37. Session chair, Core Curriculum: Clinical Cardiology. 60th Annual Scientific Sessions of the American College of Cardiology. April 5, 2011.
38. Speaker, Case-based approach to the diseased mitral valve. 60th Annual Scientific Sessions of the American College of Cardiology Innovations in Intervention (i2) Summit. April 5, 2011.

39. Speaker, Septal reduction strategies in hypertrophic cardiomyopathy. San Antonio Cardiovascular Society, April 27, 2011.
40. Speaker, Oops! An LV angiogram that does not look quite right. Society of Cardiac Angiography Intervention's 34th Annual Scientific Sessions. May 4, 2011.
41. Speaker, A case of heart failure in a normally contracting heart: sorting out the possibilities. Society of Cardiac Angiography Intervention's 34th Annual Scientific Sessions. May 4, 2011.
42. Session moderator, Early Career Interventionalist Symposium. Society of Cardiac Angiography Intervention's 34th Annual Scientific Sessions. May 7, 2011.
43. Course Co-Director. 8th Annual Mayo Interventional Cardiology Board Review Course, September 9-11, 2011.
44. Speaker, Hemodynamics. Circulation Block, Mayo Clinic College of Medicine, 2011.
45. Core Faculty. Circulation Block, Mayo Clinic College of Medicine, 2011.
46. Speaker, Angiography Coding, 16th Annual Mayo Cardiovascular Board Review, September 21, 2011.
47. Chair, ACCF Study Sessions for Maintenance of Certification: ABIM Recertification Made Easy – Cardiovascular Disease 2010 Update (A1-K). 61st Annual Scientific Sessions of the American College of Cardiology. March 24, 2012.
48. Speaker, Septal Reduction Therapy: Surgery or Ablation? 61st Annual Scientific Sessions of the American College of Cardiology. March 25, 2012.
49. Speaker, The Role of Alcohol Septal Ablation. 61st Annual Scientific Sessions of the American College of Cardiology. March 25, 2012.
50. Chair, Core Curriculum: Coronary Artery Disease. 61st Annual Scientific Sessions of the American College of Cardiology. March 25, 2012.
51. Speaker, ACC Meet the Experts Challenges in Hypertrophic Cardiomyopathy. 61st Annual Scientific Sessions of the American College of Cardiology. March 26, 2012.
52. Chair, ACCF Study Sessions for Maintenance of Certification: ABIM Recertification Made Easy – Interventional Cardiology 2010 Update (B2-K). 61st Annual Scientific Sessions of the American College of Cardiology. March 26, 2012.
53. Speaker, Overall Results of Paravalvular Leak Closure – U.S. Experience. 61st Annual Scientific Sessions of the American College of Cardiology. March 26, 2012.

54. Panelist, Multi-Disiplinary Management of the Failing Heart: Team Based Evaluation and Therapy of Advanced Heart Disease. March 26, 2012.
55. Speaker, Percutaneous AVR simulation. Seventh Annual Scientific Sessions of the Heart Valve Society of America. April 13, 2012.
56. Speaker, Diagnosis of valve disease with high-fidelity catheterization. Seventh Annual Scientific Sessions of the Heart Valve Society of America. April 13, 2012.
57. Speaker, Complications of percutaneous paravalvular leak repair. Seventh Annual Scientific Sessions of the Heart Valve Society of America. April 14, 2012.
58. Moderator, Complications of percutaneous procedures. Seventh Annual Scientific Sessions of the Heart Valve Society of America. April 14, 2012.
59. Speaker, Indications for balloon mitral valvuloplasty. Cardiology in the Capital, April 15, 2012.
60. Session Moderator, Hemodynamics Symposium Part II. Society of Cardiac Angiography Intervention's 35th Annual Scientific Sessions. May 9, 2012.
61. Speaker, To Ablate to Not Ablate. Society of Cardiac Angiography Intervention's 35th Annual Scientific Sessions. May 9, 2012.
62. Speaker, Perivalvular Leak Closure: Square Pegs and Elliptical Holes. Society of Cardiac Angiography Intervention's 35th Annual Scientific Sessions. May 11, 2012.
63. Speaker, ETOH Ablation in Hypertrophic Cardiomyopathy. Controversies in Cardiovascular Disease 2012. May 20, 2012.
64. Session Moderator, Hypertrophic Cardiomyopathy. Controversies in Cardiovascular Disease 2012. May 20, 2012.
65. Speaker, Percutaneous repair of paravalvular prosthetic regurgitation. Cardiology Update Sedona 2012. August 3, 2012.
66. Speaker, Paravalvular prosthetic regurgitation: Which leaks should be closed percutaneously. Challenges in Clinical Cardiology. August 15, 2012.
67. Speaker, TAVR for aortic stenosis: Who is a candidate? Challenges in Clinical Cardiology. August 15, 2012.
68. Speaker, HCM vs. Athlete's Heart: How do I tell the difference? Challenges in Clinical Cardiology. August 16, 2012.

69. Speaker, Transcatheter aortic valve replacement (Pro). Cardiology Update Sedona Session Moderator, High Career Achievement. Transcatheter Cardiovascular Therapeutics. October 23, 2012. August 2
70. Speaker, Post-fellowship skills training: Proctoring and Beyond. Transcatheter Cardiovascular Therapeutics. October 23, 2012.
71. Speaker, Hypertrophic cardiomyopathy 2012. 86th Annual Clinical Reviews in Internal Medicine. October 30 and November 13, 2012.
72. Speaker, The best aortic valve prosthesis choice for a 45-year-old. American College of Cardiology Cardiovascular Symposium India. January 20, 2013.
73. Speaker, State-of-the-art drug and surgical therapy of hypertrophic cardiomyopathy. American College of Cardiology Cardiovascular Symposium India. January 20, 2013.
74. Speaker, Pulmonary hypertension: Recognition of the structural etiology and hemodynamics. American College of Cardiology Cardiovascular Symposium India. January 20, 2013.
75. Speaker, Alcohol septal ablation. Cases in Structural Heart Disease 2013. January 26, 2013.
76. Speaker, Percutaneous repair of paravalvular prosthetic regurgitation: antegrade approach. Cases in Structural Heart Disease 2013. January 26, 2013.
77. Speaker, When invasive testing is needed in hypertrophic cardiomyopathy. Cases in Structural Heart Disease 2013. January 26, 2013.
78. Speaker, Transcatheter aortic valve implantation case. Cases in Structural Heart Disease 2013. January 26, 2013.
79. Speaker, Percutaneous repair of paravalvular prosthetic regurgitation. Indianapolis University, Krannert Institute Cardiovascular Grand Rounds. February 26, 2013.
80. Co-Chair, Hypertrophic cardiomyopathy: Going beyond the guidelines. American College of Cardiology 62nd Annual Scientific Sessions. March 9, 2013.
81. Speaker, Diastology, obstruction and leak: Integrating echo and cath for the hemodynamic assessment of hypertrophic cardiomyopathy. American College of Cardiology 62nd Annual Scientific Sessions. March 9, 2013.
82. Chair, ABIM Maintenance of Certification Cardiovascular Disease Module A1-L, American College of Cardiology 62nd Annual Scientific Sessions. March 9, 2013.

83. Speaker, Application of Assessment Tools. American College of Cardiology 62nd Annual Scientific Sessions. March 10, 2013.
84. Co-chair, Oral contributions in hypertrophic cardiomyopathy. American College of Cardiology 62nd Annual Scientific Sessions. March 10, 2013.
85. Co-chair, Lifelong Learning Core Curriculum in Valvular Heart Disease. American College of Cardiology 62nd Annual Scientific Sessions. March 10, 2013.
86. Speaker, Application of Assessment Tools. American College of Cardiology 62nd Annual Scientific Sessions. March 10, 2013.
87. Speaker, Challenging cases in hypertrophic cardiomyopathy in meet the experts. American College of Cardiology 62nd Annual Scientific Sessions. March 11, 2013.
88. TCT@ACC-i2 Panelist, Transcatheter aortic valve replacement (TAVR) II: Complications. American College of Cardiology 62nd Annual Scientific Sessions. March 11, 2013.
89. Chair, ABIM Maintenance of Certification Interventional Cardiology Module B2-M, American College of Cardiology 62nd Annual Scientific Sessions. March 11, 2013.
90. Speaker, Current status and future directions of pulmonary hypertension: Recognition of the structural etiology and hemodynamics. American College of Cardiology/Brazilian Cardiovascular Society. May 5, 2013.
91. Speaker, The best aortic valve prosthesis choice for a 45-year-old: Mechanic? TAVI later if degenerates? Ross Procedure? American College of Cardiology/Brazilian Cardiovascular Society. May 5, 2013.
92. Moderator, Hemodynamics Symposium: Solutions in the SHD era: basic to advanced. Society of Cardiac Angiography Intervention's 36th Annual Scientific Sessions. May 8, 2013.
93. Moderator, Hemodynamics Symposium Cases: Hemodynamics of Structural Heart Intervention. Society of Cardiac Angiography Intervention's 36th Annual Scientific Sessions. May 8, 2013.
94. Speaker, Quantitation of valvular regurgitation: PISA and beyond. Society of Cardiac Angiography Intervention's 36th Annual Scientific Sessions. May 8, 2013.
95. Speaker, Hemodynamic pitfalls in septal ablation. Society of Cardiac Angiography Intervention's 36th Annual Scientific Sessions. May 8, 2013.

96. Speaker, Most common paravalvular leaks and how to close them. Society of Cardiac Angiography Intervention's 36th Annual Scientific Sessions. May 8, 2013.
97. Speaker, Mitral paravalvular leaks: An A-Z guide to imaging and transcatheter closure. Complex Interventional Cardiovascular Therapy, A Case-based Workshop. 7th Annual Meeting. August 3, 2013.
98. Speaker, Exercise hemodynamics for valvular heart disease. American College of Cardiology 63rd Annual Scientific Sessions (2014).
99. Speaker, Incremental value of catheterization over echocardiography. American College of Cardiology 63rd Annual Scientific Sessions (2014).
100. Speaker, Septal ablation or surgical myomyectomy. American College of Cardiology 63rd Annual Scientific Sessions (2014).
101. Speaker, Pulmonary hypertension: Recognition of the structural etiology and hemodynamics. American College of Cardiology 63rd Annual Scientific Sessions (2014).
102. Co-chair, Lifelong Learning Core Curriculum in Cardiac Catheterization Hemodynamics. American College of Cardiology 63rd Annual Scientific Sessions. 2014.
103. Speaker, Paravalvular leak repair. Midwest Cardiovascular Forum. April 18, 2014.
104. Program chair, Valve Summit 2014: the Science and Delivery of Optimal, Multidisciplinary Care. April 25th and 26th, 2014.
105. Speaker, Alcohol septal ablation: techniques. Alcohol Septal Ablation Workshop. May 5, 2014.
106. Speaker, Hypertrophic cardiomyopathy. Thai Physicians Association Annual Meeting. July 1, 2014.
107. Speaker, Invasive management of HCM. Complex Interventional Cardiovascular Therapy, A Case-based Workshop. 8th Annual Meeting. July 27, 2014.
108. Speaker, Invasive assessment of aortic stenosis. HFSA Scientific Sessions. September 14, 2014.
109. Speaker, The burden of mitral regurgitation. Transcatheter Cardiovascular Therapeutics. September 16, 2014.

110. Keynote Speaker, Transcatheter valve therapy, Rapid City Cardiovascular Symposium, October 15, 2014.
111. Speaker, The 2014 Valve Practice Guidelines, Rapid City Cardiovascular Symposium, October 15, 2014.
112. Speaker, Tips and Tricks with Vascular Plugs. 4th Annual Scripps Interventional and Imaging: a Practical Approach. February 3, 2015.
113. Speaker, Evaluation and Treatment of Hypertrophic Cardiomyopathy with Transcatheter Therapy. 4th Annual Scripps Interventional and Imaging: a Practical Approach. February 4, 2015.
114. Speaker, Transcatheter Mitral Valve Repair: Procedural Technique and Imaging. 4th Annual Scripps Interventional and Imaging: a Practical Approach. February 4, 2015.
115. Speaker, Keys to Success for Aortic and Mitral Paravalvular Leak Repair. 4th Annual Scripps Interventional and Imaging: a Practical Approach. February 5, 2015.
116. Speaker, Case studies in HCM. Complex Interventional Cardiovascular Therapy, A Case-based Workshop. 9th Annual Meeting (2015).
117. Speaker, Exercise hemodynamics for valvular heart disease. American College of Cardiology 64th Annual Scientific Sessions (2015).
118. Speaker, Alcohol septal ablation and novel approaches for HCM. New York Hypertrophic Cardiomyopathy Symposium (2015).
119. Speaker, Which valve for which patient? University of Minnesota Valve Symposium (2015).
120. Speaker, Selection and outcome transcatheter mitral valve repair. Heart Valve Society of America 1st Annual Meeting (2015).
121. Speaker, Selection and outcome transcatheter mitral valve repair. Midwest Cardiovascular Symposium (2015).
122. Speaker, Selection and outcome transcatheter mitral valve repair. San Diego Heart Failure Society (2015).
123. Speaker, Emerging transcatheter therapy for mitral valve replacement. Complex Interventional Cardiovascular Therapy, A Case-based Workshop. 9th Annual Meeting (2015).

124. Speaker, A-Z guide for paravalvular leak repair. Complex Interventional Cardiovascular Therapy, A Case-based Workshop. 9th Annual Meeting (2015).
125. Speaker, Failure modes for transcatheter mitral valve repair: LVOT obstruction, embolization, and paravalvular leak. Transcatheter Cardiovascular Therapeutics, 20th Annual Meeting (2015).
126. Speaker, Establishing a mitral valve center. Transcatheter Cardiovascular Therapeutics, 20th Annual Meeting (2015).
127. Speaker, Does alcohol septal ablation increase the risk of sudden death? No, it does not. Transcatheter Cardiovascular Therapeutics, 20th Annual Meeting (2015).
128. Speaker, Who to restrict for athletic participation. Transcatheter Cardiovascular Therapeutics, 20th Annual Meeting (2015).
129. Speaker, Keys to PVL repair. 5th Annual Scripps Structural Interventional and Imaging Course, (2016).
130. Speaker, MitraClip Registries: What have we learned. 65th Annual Scientific Sessions of the American College of Cardiology (2017).
131. Speaker, Paravalvular leak repair: when and how. 65th Annual Scientific Sessions of the American College of Cardiology (2017).
132. Speaker, Transcatheter mitral valve replacement. 65th Annual Scientific Sessions of the American College of Cardiology (2017).
133. Moderator, Challenging cases in structural heart disease. 65th Annual Scientific Sessions of the American College of Cardiology (2017).
134. Keynote Speaker, Transcatheter mitral valve therapy: updates and challenges, Ohio State University 4th Annual Structural Heart Symposium, May 20, 2016.
135. Speaker, Transcatheter mitral valve therapy. Midwest Cardiovascular conference, May 21, 2016.
136. Speaker, Durability of transcatheter mitral valve repair with MitraClip. 6th Annual Piedmont Cardiology Conference, June 3, 2016.
137. Speaker, Transcatheter aortic valve replacement: ready for all comers? 6th Annual Piedmont Cardiology Conference, June 3, 2016.
138. Speaker, Landscape, challenges, and opportunities for transcatheter mitral valve replacement. Transcatheter Valve Therapies 2016, June 18, 2016.

139. Moderator, TMVR Bootcamp. Transcatheter Valve Therapies 2016, June 18, 2016.
140. Speaker, Transcatheter Mitral Valve Repair. 40th Anniversary of PTCA. International Andreas Gruentzig Society. September 18, 2017.
141. Speaker, Adding TMVR to your clinical practice. Euro-PCR London Valves. September 24, 2017.
142. Novel percutaneous therapy of LV outflow obstruction. HCM Summit VI. October 29, 2017.
143. Speaker, Current trials in transcatheter mitral valve repair. 54th meeting of the Society of Thoracic Surgeons. January 29, 2018.
144. Speaker, Novel interventional therapy of tricuspid regurgitation. 54th meeting of the Society of Thoracic Surgeons. January 29, 2018.
145. Speaker, Transcatheter Valve Therapy. Altru Heart and Vascular Conference. September 11, 2018.
146. Speaker, Imaging: Echo, ICE, CT, and Fusion. 2018 SCAI Fall Fellows Program. December 8, 2018.
147. Speaker, Understanding equipment and procedural steps: MitraClip. 2018 SCAI Fall Fellows Program. December 8, 2018.
148. Speaker, Who are the candidates for TMVR. 67th Scientific Sessions of the American College of Cardiology (2019). March 16, 2019.
149. Co-chair, TAVR Thrombosis: A real problem for your practice? 67th Scientific Sessions of the American College of Cardiology (2019). March 16, 2019
150. Speaker, HOCM and MR: When to clip. 67th Scientific Sessions of the American College of Cardiology (2019). March 17, 2019.
151. Speaker, Test Your Knowledge: Valvular and Congenital. 67th Scientific Sessions of the American College of Cardiology (2019). March 17, 2019.
152. Speaker, Future TMVR Devices II. SCAI 2019. May 20, 2019
153. Speaker, Mitraclip and Beyond: Rise of the Replacements. Session at SCAI 2019. March 21, 2019

154. Moderator, TMVR for Functional MR: An Expert Panel. SCAI 2019, Las Vegas, NV. May 20, 2019
155. Speaker, Problems with Transcatheter Rails. Session at CVI conference on July 17, 2019.
156. Speaker, The Problem of Tricuspid Regurgitation. Session at CVI conference, July 18, 2019.
157. Speaker, Working Lunch: Challenges, Solutions, and Current Status with Transcatheter Approaches - Mitraclip. Session at CVI conference, July 18, 2019.
158. Speaker, Breaking Boundaries With Mitral Valve Therapy - Complimentary Transcatheter Repair and Replacement. Session at CVI conference, July 18, 2019.
159. Speaker, Innovations in Structural Heart Therapy - TMVR for Severe Mitral Annular Calcification and Tissue Processing for Durability. Session at CVI conference, July 19, 2019.
160. Speaker, Transcatheter MVR Challenge and Management and Difficult occluder case I got done. Session at CVI conference, July 19, 2019
161. Speaker, Why does transcatheter repair work for functional mitral regurgitation? Session at CVI conference, July 19, 2019.
162. Speaker, Pinwheeling – operator recognition and correction. Session at CVI conference, July 19, 2019.
163. Speaker, Breaking Boundaries with Transcatheter Mitral Valve Repair. Session at CVI conference, July 19, 2019.
164. Speaker, The Boundaries of Structural Heart Therapy III. Session at CVI conference, July 20, 2019.
165. Speaker, Cardiovascular Innovations Case Competition Finals. Session at CVI conference, July 20, 2019.
166. Speaker, How to Start and Maintain a Successful Transcatheter Mitral Valve Center. Presentation at Structural Heart Symposium: Mastery in Mitral Valve and Tricuspid Valve Therapies. August 23, 2019, Chicago, IL.
167. Speaker, Transcatheter TV Repair: MitraClip. Presentation at Structural Heart Symposium: Mastery in Mitral Valve and Tricuspid Valve Therapies. August 23, 2019, Chicago, IL.

168. Speaker, Tricuspid Valve-in-Valve and Valve-in-Ring. Presentation at Structural Heart Symposium: Mastery in Mitral Valve and Tricuspid Valve Therapies. August 23, 2019, Chicago, IL.
169. Speaker, Tendyne, a new transcatheter treatment option that eliminates mitral regurgitation - Clinical programme update. Presented at PCR 2019. November, 18, 2019.
170. Speaker, HOCM. June 20, 2020. Virtually presented at TVT Connect 2020.
171. Speaker, Transcatheter Tricuspid Leaflet Grasping- Indications, Technique, and Outcomes. June 23, 2020. Virtually Presented at TVT Connect 2020.
172. Moderator, Technical and Clinical Challenges in the TMVR Field. June 26, 2020. Virtually Discussed at TVT Connect 2020.
173. Speaker, ViMAC-Transapical TMVR Devices. June 27, 2020. Virtually Discussed at TVT Connect 2020.
174. Speaker, Understanding the Role of TMVI in Three Distinct Populations. Session 3: The SUMMIT Trial: Frontline Perspectives on Patient Selection and Peri-operative Patient Management, Sponsored by Abbott. Presented at TCT October 14, 2020.
175. Moderator, TCT North America Connect IV: Controversies in Mitral Intervention- Special Situations in TMVR Intervention. Moderator. October 16, 2020.
176. Speaker, Presenters for Primary TR at Re-iMAGINE Echo NY February 6, 2021.
177. Speaker, Catheter Based Options for Management of Primary and Secondary TR, at STS 2021. Mar. 10, 2021
178. Moderator, Structural Heart Session I: The Year in Review, Advanced Imaging, Emerging Trends. SIF 2021 March 10, 2021.
179. Speaker, Transcatheter Treatment of Tricuspid Regurgitation: The Emerging State of the Art, at SIF 2021. March 10, 2021.
180. Speaker, Technical Pearls for TAVR: Valve Selection & Implant Technique, at SIF 2021 March 13, 2021.
181. Speaker, Transcatheter Mitral Therapy, St. Francis Heart Valve Meeting 2021, Podium Presentations, Mar. 14, 2021.
182. Lecturer and Panelist for Who is an Appropriate Candidate of MitraClip for Functional MR?, at KSIC International conference 2021.

183. Speaker, Structural Heart Innovations at the 2021 Annual Spring Scientific Conference of the KSC, South Korea, April 16th 2021.
184. Speaker, Mitral Valve Repair. Presented virtually at SCAI 2021.
185. Speaker, Mitral Valve Replacement. Presented virtually at SCAI 2021.
186. Speaker, Expanding Use of TMVR in Mitral Stenosis Associated with MAC. Presented virtually at SCAI 2021.
187. Speaker, Transcatheter Treatment Options for Mitral Valve Disease, at Miami Valves Symposium April 28th, 2021.
188. Speaker, Transcatheter Treatment Options for Mitral Valve Disease, at Miami Valves Symposium April 28th, 2021.
189. Speaker, Transcatheter Mitral and Tricuspid Therapy, at the Karolinksa Institute on May 20th, 2021.
190. Speaker, Transcatheter treatment of tricuspid regurgitation, at CIC on July 10th, 2021
191. Speaker, DurAVRTM Transcatheter Heart Valve: A Novel 3D Single-Piece Valve for Durable Aortic Valve Therapy, at TVT the structural heart summit July 20th, 2021
192. Speaker, Hypertrophic Obstructive Cardiomyopathy, Mitral; Live Case #7: Heart Team Decision-Making – Complex DMR Cases at TVT on July 20th, 2021.
193. Speaker, How the TRILUMINATE Pivotal Trial will shape TTVI, at TVT on July 21st, 2021.
194. Live Case Moderator, Transapical Tendyne TMVR, Mitral; Live Case #12: Emerging Non-TEER TMVr Devices, at TVT on July 21st, 2021.
195. Live Case Moderator, Mitral; Live Case #14: Transcatheter Valve in MAC, at TVT on July 21st, 2021.
196. Speaker, TEER in the Tricuspid Valve: Quadri-Cuspid and More – Lessons Learned, Tricuspid; Live Case #17: Challenging Situations and Anatomies for Tricuspid TEER, at TVT on July 22nd, 2021.
197. Speaker, Discussant for Round Table Discussion, Tricuspid; Live Case #17: Challenging Situations and Anatomies for Tricuspid TEER, at TVT on July 22nd, 2021.

198. Speaker, A Novel Single Piece 3D TAVR With AntiCa+2 Treatment (Anteris), Innovation; Emerging Technological Trends III: Trans-Catheter Aortic Valve Technologies, atTVT on July 22nd, 2021.
199. Speaker, Discussant for Roundtable Discussion, Mitral; Live Case #7: Heart Team Decision-Making – Complex DMR Cases, at TVT on July 20th, 2021.
200. Speaker, Professor for Master Class #8: Optimizing MitraClip Outcomes – Case-Based Strategies for 1ry/2ry MR, at TVT on July 22nd, 2021.
201. Moderator, TV Potpurri, Tricuspid Session, at TVT on July 22nd, 2021.
202. Speaker, Transcatheter mitral and tricuspid therapy. Presented at Mayo Clinic Arizona cardiovascular grand rounds on September 2nd 2021.
203. Speaker, Transcatheter Mitral Valve Replacement. (2021). Key note speaker at Miami Valve Symposium.
204. Speaker, Emerging Data From the TVT and STS Mitral Registries, at TCT November 4th, 2021.
205. Speaker, Triluminate, at TCT November 4th, 2021.
206. Speaker, Mitral Transcatheter Edge-to-Edge Repair (TEER) – Clinical Insights and Controversies, at TCT November 5th, 2021.
207. Speaker, TMVR (Replacement): Current Clinical Indications, Potential Technical Advantages, and Limitations, at TCT November 5th, 2021.
208. Speaker, Structural Heart Disease #10 - Abbott Northwestern, Minneapolis, MN, at TCT November 6th, 2021.
209. Speaker, Structural Heart Disease #12 - Abbott Northwestern, Minneapolis, MN, at TCT November 6th, 2021.
210. Speaker, Transcatheter mitral and Tricuspid therapy, at Grand-Rounds At University of Iowa Roy J. and Lucille A. Carver College of Medicine on October 18th, 2021.
211. Procedural Success, Valve Hemodynamics and Outcomes in Patients with Moderate Aortic Stenosis Undergoing Supra-Annular Transcatheter Aortic Valve Replacement, virtually at AHA, November 13th 2021
212. Speaker, Treatment in Tricuspid Regurgitation: The Future is Now, virtually at AHA 2021, Nov 13. 2021.

213. Speaker, Advances in Percutaneous Intervention for Mitral and Tricuspid Valves, at CVM Grand Rounds October 28th, 2021.
214. Speaker, Percutaneous Therapy for Tricuspid Regurgitation, at MGB Interventional Cardiology Grand Rounds October 29th, 2021.
215. Speaker, Experiences with TMVr, at Korean Society of Symposium, SHD 2021, Mar. 18, 2021.
216. Speaker, Valve Intervention, at North Florida Symposium, SHD 2021, Mar. 18, 2021.
217. Speaker, Modern TEER technology, at AATS Symposium 2021, Mar. 23, 2021.
218. Speaker, TMVR for MAC, at Heart Team Summit 2021, Mar. 24, 2021.
219. Speaker, G4 Clinical Case, at AATS Symposium 2021, Mar. 31, 2021
220. Speaker, TVARC, Apr. 23, 2021
221. Speaker, Who are the Best Candidates for TMVR, at ACC 2021, May. 5, 2021.
222. Speaker, Perspectives on Building a Mitral Program, at CLIMB 2021, Jun. 17, 2021.
223. Speaker, Transseptal Catherization, at CLIMB 2021, Jun. 17, 2021.
224. Speaker, Seminar Tricuspid Intervention, at SCAI USV 2021, Jun. 20, 2021.
225. Panelist, Managing Complexities in Patient Selection, at TMVR Experts Meeting 2021, Jun. 24 2021.
226. Panelist, Percutaneous Approach to Mitral Valvular Disease, at ACC SCAI IC Board Review 2021, Jul. 6th, 2021.
227. Panelist, Investigators Meeting, at HighLife US 2021, Jul. 6th, 2021.
228. Trilluminate Investigator Meeting, Jul. 10th, 2021
229. Panelist, Transcatheter Treatment of TR, at Curso Informacidad Cardiologia 2021, Jul. 20, 2021.
230. Speaker, TEER in the Complex Tricuspid Valve - Quadricuspid and More, at TVT 2021, Jul. 22nd, 2021.
231. Speaker, Challenges in MAC, at CVI 2021, Jul. 28, 2021.
232. Panelist, Current Updates of TR Devices, at ENCORE Seoul 2021, Jul. 31, 2021

233. Speaker, MitraClip for Functional MR, at SingValve 2021, Aug. 10, 2021
234. Panelist, Mitral PVL, at CLIMB 2021, Aug. 18, 2021.
235. Speaker, LL Braun Transcatheter Mitral valve Disease, at Adventis 2021, Oct. 8th, 2021.
236. Speaker, Structural Approaches to Treat Mitral Disease, at AHA 2021, Oct. 12, 2021.
237. Speaker, Tendyne and MitraClip, at Imagine ECHO NY DMR Cases 2021, Oct. 16th, 2021.
238. Speaker, Don't Forget the Tricuspid Valve - Transcatheter Therapeutic Options, at ACC Puerto Rico Chapter Meeting 2021, Nov. 1, 2021
239. Speaker, Percutaneous Mitral Valve Replacement, at ACC Puerto Rico Chapter Meeting 2021, November 1st, 2021.
240. Speaker, TMVR - Where are we now?, at Singapore Live, 2022, Dec. 18th, 2021.
241. Speaker, Percutaneous Transseptal TAVI of Calcific Mitral Stenosis, at Singapore Live 2022, Dec. 18th, 2021.
242. Speaker, Who is Ideal for TMVR, at CLIMB 2021, Nov. 18th, 2021
243. Panelist, TriClip Investigator Meeting, Japan, Nov. 12th, 2021.
244. Speaker, TENDYNE Investigator Meeting, Apr. 29, 2021.
245. Speaker, Innovations in Transcatheter Valve Therapy- What's coming to you, ACC Snowmass 2022 January 6, 2022
246. Speaker, Hypertrophic cardiomyopathy guidelines update 2022, ACC Snowmass 2022 January 7, 2022
247. Speaker, PFO closure for whom in 2022, ACC Snowmass 2022 January 8, 2022
248. Speaker, The Imager and the Interventionalist(with Dr. N Hamid) CVI Webinar 2022 January 10, 2022
249. Speaker, Tricuspid Valve-Forgotten No Longer, Aga Khan Cardiac Society 2022, January 15, 2022

250. Speaker, Percutaneous Treatment of Calcific Mitral Stenosis, SingLIVE 2022
January 22, 2022
251. Speaker, Percutaneous Treatment of Calcific Mitral Stenosis, Toronto Valve
Symposium 2022 January 22, 2022
252. Speaker, Tailoring Mitral Therapy with Mitraclip G4, Latin America MitraClip Club,
January 24, 2022
253. Co-Course Director, Mitral Valve Repair: Mitral Valve Repair, CRT 2022 February
26, 2022
254. Speaker, Mitral Valve Repair: Mitral Valve Repair Step-by-Step procedure Review
with the Second-Generation Clip, CRT 2022 February 26, 2022
255. Panelist, Mitral Valve Repair, Panel Discussion: Finding the Suitable Patient for
TEER, CRT 2022 February 26, 2022
256. Speaker, Mitral Valve Repair: TMVr- Next Generation Leaflet repair/Hemi-
Replacement Technologies, CRT 2022 February 26, 2022
257. Interviewee, CARDIOTUBE INTERVIEW: Next Generation of Mitral Repair Devices,
CARDIOTUBE INTERVIEW: Next Generation of Mitral Repair Devices, CRT 2022
February 26, 2022
258. Speaker, Mitral Valve Replacement, TENDYNE:Technologies Update and Results
from the EFS Trial, CRT 2022 February 27, 2022
259. Panelist, Mitral Valve Replacement: Panel Discussion: What is the Best
Management of MR-Percutaneous Valve Repair or Replacement? CRT 2022
February 27, 2022
260. Speaker, CRT Valve Tricuspid: The Feasibility and Rationale for the TRILUMINATE
II Pivotal Study Update, CRT 2022 February 27, 2022
261. Panelist, CRT Valve Tricuspid:Panel Discussion: How Should we Proceed with
Tricuspid Valve Interventions and When Should We Intervene? CRT 2022 February
27, 2022
262. Speaker, Tricuspid Valve Repair with TEER, at HVS 2022 Annual Scientific Meeting
on March 2nd, 2022.
263. Speaker, Transcatheter Edge to Edge Repair is the Procedure of Choice, at HVS
2022 Annual Scientific Meeting on March 3rd, 2022.

264. Speaker, Transcatheter Solutions to Mitral Valve Disease Secondary to Annular Calcium, at HVS 2022 Annual Scientific Meeting on March 5th 2022.
265. Moderator, 1012 – Structural Potpourri. ACC Poster Moderator, at ACC22 on April 2nd, 2022.
266. Speaker, Debate Pro: TEER for Primary MR in Low to Intermediate Risk Patients, at ACC22 on April 4th, 2022.
267. Speaker, State of the Art: MV and TV Therapies in 2022, at ACC22 on April 4th, 2022.
268. Speaker, MHI Angiography for Fellows. April 6, 2022.
269. Speaker, Sorajja, P. (2022). TransCatheter Therapy for Tricuspid Regurgitation. Virtual presentation at Northwell Health Department of Cardiology Grand rounds on April 8th, 2022.
270. Speaker, SUMMIT Investigator Meeting. April 13, 2022.
271. Speaker, MHI Baxter Update. April 26, 2022.
272. Speaker, Concepts in BMV for Tendyne Investigators. June 6, 2022.
273. Speaker, Abbott Global Complexity Score. June 6, 2022.
274. Speaker, Japan TRILUMINATE Investigator Meeting. July 16, 2022.
275. Speaker, Spectrum of TMVR. July 20, 2022.
276. Speaker, Success - What it is and how to achieve. July 20, 2022.
277. Speaker, MitraClip Masters Santa Monica. July 20 2022.
278. Speaker, Sorajja, P. (2022). Clinical Trials and the Science of TR. Presented at CVI 2022 on July 21st, 2022.
279. Speaker, Sorajja, P. (2022). Ultimate Tricuspid Case (#2): Complex Transcatheter Edge-to-Edge Repair. Presented at CVI 2022 on July 21st, 2022.
280. Speaker, Medtronic TAVR symposium. July 21, 2022.
281. Speaker, Sorajja, P. (2022). Success with Severe mitral Annular Calcification. Presented at CVI 2022 on July 22nd, 2022.
282. Speaker, St. Francis Journal Club Presenter. July 25, 2022.

283. Speaker, ESC Barcelona LBCT. August 28, 2022.
284. Speaker, Headrick Visit. September 1, 2022.
285. Speaker, MHI SHD Ad Board. September 9, 2022.
286. Speaker, Brilakis, E., Sorajja, P. (2022). LIVE Case: Abbott Northwestern – Minneapolis Heart Institute. Live Case Operators at TCT on September 17th, 2022.
287. Speaker, Brilakis, E., Sorajja, P. (2022). : LIVE Case: Abbott Northwestern – Minneapolis Heart Institute – Mitral TEER in Secondary MR. Live Case Operators at TCT on September 17th, 2022.
288. Speaker, Sorajja, P. (2022). DurAVR THV First-in-Human Study – 30-day Results. Satellitem Presenter at TCT on September 18th, 2022.
289. Speaker, Sorajja, P. (2022). Interventional Perspectives and Emerging Therapeutic Options. Lecturer at TCT on September 19th, 2022.
290. Speaker, Hamid, N., Sorajja, P. (2022). Transcatheter Tricuspid Valve Replacement. Discussant and Moderator at TCT on September 19th, 2022.
291. Speaker, China Structural TriClip Overview. October 12, 2022.
292. Speaker, CVI Imager and Interventionalist Part 3. October 13, 2022.
293. Speaker, MitraClip Masters Miami. October 14, 2022.
294. Speaker, Eden Prairie SHD Updates. October 18, 2022.
295. Speaker, Sorajja, P, Hamid, N. (2022). Transcatheter Tricuspid Valve Repair/ Replacement - What You Need to Know. Presenter and Moderator at Midwest Cardiovascular Forum on October 29th, 2022.
296. Speaker, Midwest CV Forum, Tricuspid Valve Repair-Replacement. October 29, 2022.
297. Speaker, Sorajja, P. (2022). Monaco. Podium Presentation on November 11th 2022.
298. Speaker, Mitral annular calcification-From diagnosis to treatment, at PCR London valve 2022 on November 29, 2022

ABSTRACTS

1. Sorajja P, Poirier MK, Bundrick JB, Matteson EL. Generalized autonomic failure and global skeletal myopathy in a patient with primary Sjögren's syndrome. Minnesota

American College of Physicians Clinical Vignette and Research Competition, 1996. Award Winner.

2. Sorajja P, Cable DG, Schaff HV. Hypothermic storage in University of Wisconsin solution preserves endothelial and vascular smooth muscle function. The 69th Scientific Sessions of the American Heart Association. *Circulation* 1996;94:I-343A.
3. Cable DG, Sorajja P, Schaff HV. Prolonged exposure of canine coronaries to a nitric oxide donor desensitizes soluble guanylate cyclase. The 46th Annual Scientific Sessions of the American College of Cardiology. *J Am Coll Cardiol* 1997; 29:151A.
4. Sorajja P, Cable DG, Schaff HV. Hirudin (desulfated, 54-65) causes contraction of canine coronary arteries which is attenuated by calcium-channel blockers. The 47th Annual Scientific Sessions of the American College of Cardiology. *J Am Coll Cardiol* 1998;31(Suppl A):53A.
5. Matsumura Y, Elliott PM, Virdee MS, Smith GC, Sorajja P, Doi Y, McKenna WJ. Noninvasive assessment of left ventricular diastolic function using Doppler tissue imaging in patients with hypertrophic cardiomyopathy. The 48th Annual Scientific Sessions of the American College of Cardiology. *J Am Coll Cardiol* 1999;33(Suppl A):498A.
6. Kinnaird TD, Elliott PM, Sorajja P, Smith G, McKenna WJ. Diastolic function in hypertrophic cardiomyopathy: pulmonary venous flow assessment as an adjunct to mitral valve inflow patterns. European Society of Cardiology. *Eur Heart J* 1999.
7. Desai SB, Caccitolo JA, Cable DG, Sorajja P, Rosenfeldt F, Schaff HV. Deep hypothermia preservation with University of Wisconsin (UW) solution augments coronary vascular function. *FASEB J* 1999;13(5 Pt 2):A1059.
8. Sorajja P, Matsumura Y, Virdee MS, Smith G, McKenna WJ, Elliott PM. Diminished peak J wave velocity relates to impairment of diastolic function in hypertrophic cardiomyopathy. Third Annual Euroecho Meeting. *Eur J Echo* 1999:S106.
9. Sorajja P, Matsumura Y, Virdee MS, Sharma S, Smith G, McKenna WJ, Elliott PM. Pulmonary venous flow pattern predicts impairment of exercise capacity in hypertrophic cardiomyopathy. Third Annual Euroecho Meeting. *Eur J Echo* 1999:S92.
10. Matsumura Y, Elliott PM, Virdee MS, Smith GC, Sorajja P, Doi Y, McKenna WJ. Non-invasive assessment of left ventricular diastolic function Doppler tissue imaging in patients with hypertrophic cardiomyopathy: relation to symptoms and exercise capacity. Third Annual Euroecho Meeting. *Eur J Echo* 1999:S91.

11. Sorajja P, Elliott PM, Poloniecki J, Dickie S, McKenna WJ. Prognostic values of blood pressure response in hypertrophic cardiomyopathy. The 49th Scientific Session of the American College of Cardiology. J Am Coll Cardiol 2000;35(Suppl A):188A.
12. Virdee MS, Matsumura Y, Sorajja P, Sharma S, Elliott PM, McKenna WJ. Investigation of the relation between outflow tract obstruction, exercise capacity and blood pressure response during exercise in hypertrophic cardiomyopathy. The 49th Scientific Session of the American College of Cardiology. J Am Coll Cardiol 2000;35(Suppl A):188A.
13. Virdee MS, Matsumura Y, Sorajja P, Sharma S, Elliott PM, McKenna WJ. Investigation of the prevalence of exercise stress induced outflow tract obstruction in hypertrophic cardiomyopathy. The 49th Scientific Session of the American College of Cardiology. J Am Coll Cardiol 2000;35(Suppl A):191A.
14. Sorajja P, Nishimura R. Long-term dual-chamber pacing in hypertrophic cardiomyopathy. Twelfth World Congress on Cardiac Pacing and Electrophysiology, 2003.
15. Sorajja P, Ommen SR, Nishimura RA, Gersh BJ. Long-term follow-up of patients with hypertrophic cardiomyopathy and coronary artery disease. The 52nd Scientific Session of the American College of Cardiology. J Am Coll Cardiol 2003;41(6 Suppl A):169A.
16. Sorajja P, Ommen SR, Tajik AJ, Nishimura RA, Holmes DR, Jr. Myocardial bridging in adult patients with hypertrophic cardiomyopathy. Second Asia Pacific Scientific Forum of the American Heart Association, 2003.
17. Sorajja P, Ommen SR, Nishimura RA, Ackerman MJ, Tajik AJ, McCully RM, Gersh BJ. Fifteen-year outcome of patients with hypertrophic cardiomyopathy and severe myocardial hypertrophy. Eur Heart J 2003;24(Abstract Supplement):558A.
18. Sorajja P, Chareonthaitawee P, Ommen SR, Miller TD, Hodge DO, Gibbons RJ. Prognostic utility of single photon emission computed tomography (SPECT) in adult patients with hypertrophic cardiomyopathy. The 53rd Scientific Session of the American College of Cardiology. J Am Coll Cardiol 2004;43(5 Suppl A):324A.
19. Sorajja P, Chareonthaitawee P, Miller TD, Hodge DO, Gibbons RJ. Improved survival after revascularization in asymptomatic diabetic patients with high-risk SPECT imaging. Transcatheter Cardiovascular Therapeutics 16th Annual Symposium and the 74th Scientific Sessions of the American Heart Association, 2004. Am J Cardiol 2004;94:180E and Circulation 2004;
20. Sorajja P, Gersh BJ, Cox DA, Turco MA, Carroll JD, Brodie B, Garcia E, Guagliumi G, Grines CL, Stone GW. Adverse impact of multivessel disease on ST-segment

recovery and clinical outcome in patients undergoing primary percutaneous coronary intervention for acute myocardial infarction. Transcatheter Cardiovascular Therapeutics 16th Annual Symposium and the 74th Scientific Sessions of the American Heart Association, 2004.

21. Sorajja P, Lansky A, Grines CL, Costantini C, McLaughlin M, Tchong JE, Gersh BJ, Stone GW. Prediction of survival after primary percutaneous coronary intervention by integration of ST-segment recovery and myocardial blush. Transcatheter Cardiovascular Therapeutics 16th Annual Symposium and the 74th Scientific Sessions of the American Heart Association, 2004.
22. Mahapatra S, Sorajja P, Talreja D, McGoan M, Nishimura R. Relationship of pulmonary arterial capacitance and mortality in pulmonary arterial hypertension. 74th Scientific Sessions of the American Heart Association, 2004. Am J Cardiol 2004;94:118E and Circulation 2004;
23. Chareonthaitawee P, Sorajja P, Miller TD, Hodge DO, Frye RL, Gibbons RJ. Prevalence and prognosis of left ventricular systolic dysfunction in asymptomatic diabetics without known coronary artery disease. The 54th Scientific Session of the American College of Cardiology, 2005.
24. Veselka J, Duchoňová R, Procházková Š, Zemánek D, Páleníčková J, Sorajja P, Tesař D. A prospective, randomized study of ethanol dosing in patients undergoing percutaneous septal ablation for obstructive hypertrophic cardiomyopathy. The 54th Scientific Session of the American College of Cardiology, 2005.
25. Sorajja P, Gersh BJ, Miller TD, Gibbons RJ, O'Neill WW, Dixon S, Stone GW. Rescue percutaneous coronary angioplasty is an independent predictor of infarct size in patients with acute myocardial infarction. Transcatheter Cardiovascular Therapeutics 17th Annual Symposium. Am J Cardiol 2005;96:66H.
26. Sorajja P, Ackerman MJ, Nishimura RA, Shen WK, Gersh BJ, Ommen SR. Impact of positive family history on personal risk of sudden death for patients with hypertrophic cardiomyopathy. The 55th Scientific Session of the American College of Cardiology. J Am Coll Cardiol 2006.
27. Sorajja P, Cabalka AK, Hagler DJ, Cetta F, Rihal CS. Successful percutaneous repair of peri-prosthetic valvular regurgitation. Valvular Heart Disease: New Strategies and the Second Annual Conference and Meeting of the Heart Valve Society of America. Cardiology 2006;106:115.
28. Doyle B*, Sorajja P*, Araoz PA, Stalboerger PG, Miller D, Reed C, Schmeckpeper J, Wang S, Liu C, Terzic A, Kruger D, Riederer S, Caplice NM. Progenitor cells for acute myocardial infarction induces cardiac hypertrophy, mediated by paracrine secretion of

cardiotrophic factors including TGF β 1. Eighth Annual Arteriosclerosis, Thrombosis, and Vascular Biology Conference 2007.

*These authors contributed equally to this work.

29. Sorajja P, Valeti U, Nishimura RA, Ommen SR, Rihal CS, Gersh BJ, Holmes, Jr DR. Outcome of percutaneous septal ethanol ablation for obstructive hypertrophic cardiomyopathy. The 77th Scientific Sessions of the American Heart Association, 2007. *Circulation* 2007;116(16 Suppl S):357.
30. Kumar G, MacDonald R, Sorajja P, Edwards W, Ommen S, Klarich KW. Papillary fibroelastomas in hypertrophic cardiomyopathy. The 77th Scientific Sessions of the American Heart Association, 2007. *Circulation* 2007;116(16 Suppl S):733-4.
31. Jaber WJ, Borlaug BA, Redfield MM, Lee PW, Ommen SR, Sorajja P, Lam CS, Nishimura RA. Determination of the mechanism of elevated left ventricular filling pressures with exercise: a simultaneous echocardiographic-catheterization study. The 77th Scientific Sessions of the American Heart Association, 2007. *Circulation* 2007;116(16 Suppl S):371.
32. Sorajja P, Gersh BJ, McLaurin BT, Cox DA, Bertrand ME, Lincoff AM, Moses JW, White HD, Pocock SJ, Ware JH, Mehran R, Ohman EM, Stone GW. Increased mortality in patients with acute coronary syndromes and delay to angioplasty of greater than 24 hours after hospital admission: an ACUITY substudy. The 57th Scientific Session of the American College of Cardiology. *J Am Coll Cardiol* 2008.
33. Cabalka AK, Sorajja P, Hagler DJ, Cetta F, Park S, Rihal CS. Safety and feasibility of percutaneous repair in peri-prosthetic valvular regurgitation. CSI 2008 -Congenital & Structural Interventions. June 27, 2008.
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