

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)

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, APPOINTMENTS, AND COMMITTEES

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

President, Cardiovascular Innovations Foundation (2017-18)

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

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

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

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

Course Director, Cardiovascular Innovations 2017, 2018, 2019

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. The 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-present)

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-present)

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

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. April 24-26, 2014. The Minneapolis Heart Institute Foundation.

AWARDS

1. 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.
2. 2017 Recipient of the Robert G. Hauser, MD, Leadership Award. Minneapolis Heart Institute Foundation.
3. Recipient from the Mayo Department of Medicine 2009 MIDAS award for project entitled, "Interventional Cardiology Curriculum: A New Model for Continuing Graduate Medical Education."
4. Recognition as Top 20% of Teachers in the Mayo Clinic Department of Medicine Internal Medicine Residency Program 2009, 2010, 2011, 2012.
5. Internal Medicine Residency Outstanding Subspecialty Teacher of the Year award 2010.
6. Elite Reviewer, Journal of the American College of Cardiology 2011, 2012.
7. Frank Hildner Elite Reviewer, Catheterization Cardiovascular Interventions 2011, 2012, 2013, 2014.

CLINICAL TRIAL LEADERSHIP

1. National Co-Principal Investigator for TRILUMINATE Pivotal U.S. Study (2018-present)
2. National Co-Principal Investigator for Early Feasibility Study of Tendyne in Severe Mitral Annular Calcification (2018-present)
3. National Principal Investigator of Alt-Flow Early Feasibility Study (2018-present)
4. Member, Steering Committee for TRILUMINATE CE/Early Feasibility Study (2017-present)

5. Member, Steering Committee for EXPAND Study of MitraClip (2018-present)
6. Member, Steering Committee of SUMMIT Pivotal Clinical Trial of Tendyne (2018-present)
7. Member, Steering Committee of HighLife Early Feasibility Study (2019-present)

JOURNAL REVIEWER

New England Journal of Medicine

Circulation

Circulation:Catheterization Cardiovascular Interventions

Journal of the American College of Cardiology

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 Heart Valve Disease

Journal of the American Society of Echocardiography

American Journal of Cardiology

Journal of Cardiovascular Magnetic Resonance

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, McGoon 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 ACUITY 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: hypertrophic 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

74. Steckelberg R*, Tseng AS, Nishimura RA, Ommen SR, **Sorajja P**. Derivation of mean pulmonary pressure. *J Am Soc Echo* 2013;26:464-8.
*trainee
75. Nkomo VT, Pislaru SV, **Sorajja P**, Cabalka AK. Plugged! *J Am Coll Cardiol* 2013;61:356.
76. Herrmann J, Lennon RJ, Barsness GW, Sandhu GS, Gulati R, Best PJM, **Sorajja P**, Bresnahan JF, Mathew V, Bell MR, Prasad A. High sensitivity C-reactive protein and outcomes following percutaneous coronary intervention in contemporary practice. *Circ Cardiovasc Inter* December 5 2012 [Epub ahead of print]
77. **Sorajja P**. A percutaneous solution for a percutaneous problem. *Catheter Cardiovasc Interv* 2013;81:906-7.
78. Cullen M, Cabalka AK, Pislaru SV, **Sorajja P**, Malouf VT, Cetta F, Hagler DJ, Rihal CS. Transvenous, antegrade Melody valve-in-valve implantation for bioprosthetic mitral and tricuspid valve dysfunction: a case series in children and adults. *JACC Cardiovasc Interv* 2013;6:598-605.
79. Geske J*, McKie P, Ommen SR, **Sorajja P**. Brain natriuretic peptide and survival in hypertrophic cardiomyopathy. *J Am Coll Cardiol* 2013 61:2456-60.
*trainee
80. Kunkala MR, Schaff HV, Nishimura RA, Abel MD, **Sorajja P**, Dearani JA, Ommen SR. Transapical approach to myectomy for midventricular obstruction in hypertrophic cardiomyopathy. *Ann Thorac Surg* 2013;96:564-70.
81. Booker J*, Cabalka AK, **Sorajja P**, Rihal CS. A novel approach to percutaneous device closure of irregular paravalvular mitral prosthetic regurgitation. [In review]
*trainee
82. Eleid M*, Nishimura RA, Borlaug BA, **Sorajja P**. Invasive measures of afterload in low gradient severe aortic stenosis with preserved ejection fraction. *Circulation Heart Fail* 2013;6:703-10.
*trainee
83. Eleid M, Nishimura RA, **Sorajja P**, Borlaug BA. Systemic hypertension in patients with low gradient severe aortic stenosis and preserved ejection fraction. *Circulation* 2013 128:1349-53.

84. Greason KL, Brenahan JF, **Sorajja P**, Suri RM, Rihal CS, Mathew V. Transcatheter aortic valve insertion catastrophe in inoperable patients: should aortic valve replacement be denied? *J Cardiac Surg* 2013 28:336-8.
85. **Sorajja P**, Nishimura RA, Ommen SR. Symptomatic obstructive hypertrophic cardiomyopathy. *Circ Cardiovasc Interv* 2013;6:586-91
86. **Sorajja P**, Nishimura RA. Measuring pulmonary vascular resistance: Is Doppler echocardiography ready for prime time? *J Am Soc Echo* 2013;26:1178-9
87. Spoon DB, Malouf JF, Spoon JN, Nkomo VT, **Sorajja P**, Mankad SV, Lennon RJ, Cabalka AK, Rihal CS. Mitral paravalvular leak: description and assessment of a novel anatomical method of localization. *JACC Cardiovasc Imaging* 2013;6:1212-4.
88. Kunkala MR, Schaff HV, Burkhart H, Sandhu GS, Spoon DB, Ommen SR, **Sorajja P**, Dearani JA. Outcome of repair of myocardial bridging at the time of septal myectomy. *Ann Thorac Surg* 2013 Sep [Epub ahead of print]
89. Eleid MF, **Sorajja P**, Michelena HI, Malouf JF, Scott CG, Pellikka PA. Flow-gradient patterns in severe aortic stenosis with preserved ejection fraction: clinical characteristics and predictors of survival. *Circulation* 2013;128:1781-9.
90. Geske JB, Konecny T, Ommen SR, Nishimura RA, **Sorajja P**, Gersh BJ. Surgical Myectomy improves pulmonary hypertension in obstructive hypertrophic cardiomyopathy. [In review]
91. **Sorajja P**. Derivation of mean pulmonary artery pressure. *J Am Soc Echocardiogr* 2014;27:107-8.
92. Nishimura RA, Otto CM, Bonow RO, Carabello BA, Erwin JP 3rd, Guyton RA, O'Gara PT, Ruiz CE, Skubas NJ, **Sorajja P**, Sundt TM 3rd, Thomas JD. 2014 AHA/ACC guideline for the management of patients with valvular heart disease: a report of the American College of Cardiology/American Heart Association task force on practice guidelines. *Circulation* 2014 Mar 3 [Epub ahead of print]
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29. **Sorajja P**. Hypertrophic cardiomyopathy. *SCAI Interventional Cardiology Board Review* [2015]
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33. **Sorajja P.** Pericardial disease. In: MKSAP 17 (2015).
34. **Sorajja P.** Cardiovascular disease in cancer survivors. In: MKSAP 17 (2015).
35. **Sorajja P.** Alcohol septal ablation: techniques and outcomes. In: Hypertrophic Cardiomyopathy. Naidu SS (Ed). [2015]
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41. Chhatriwalla A, **Sorajja P.** Paravalvular leaks. In: *SCAI Interventional Cardiology Board Review, 3rd Ed.* Kern MJ, Seto AH, Eds. 2018. pp. 458-463.
42. **Sorajja P.** Mitral stenosis. SCAI Interventional Cardiology Board Review [2015]
43. **Sorajja P.** Alcohol septal ablation. In: Interventional Cardiac Catheterization Handbook, 2nd Edition (2017). Kern MJ, Sorajja P, Lim MJ (Eds).
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51. Goessel M, **Sorajja P**. Mitral paravalvular leak closure. In: *Color Atlas of Structural Interventions, 1st Edition*. Baliga RR, Lilly SM, Eds. 2018. pp. 301-307.
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53. 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.

PATENTS

1. Sorajja P. Approach to paravalvular leak repair. Filed at United States Patent and Trade Office on July 19, 2006.
2. Sorajja P. Abdominal retraction for medical/surgical procedures. Filed at United States Patent and Trade Office on December 12, 2008.
3. Sorajja P., Rihal CS. Device for the delineation of cardiovascular or other anatomical structures. Filed at United States Patent and Trade Office on December 7, 2009.

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 replacment (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).
149. Speaker, HOCM and MR: When to clip. 67th Scientific Sessions of the American College of Cardiology (2019).
150. Speaker,

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 symp-

toms 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, McGoon 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 cardiogenic 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 sub-study. 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.
34. Park S-J, Nishimura RA, Sorajja P, Borlaug BA, Tajik JA. The effect of loading alterations on left ventricular torsion: a simultaneous catheterization and Two-dimensional speckle tracking echocardiographic study. The 78th Scientific Sessions of the American Heart Association. *Circulation* 2008;118:S938.

35. Bos JM, Maron BJ, Ackerman MJ, Haas TS, Sorajja P, Nishimura RA, Gersh BJ, Ommen SR. Important role of positive family history of sudden death in risk stratification and prevention of death with the implantable defibrillator in patients with hypertrophic cardiomyopathy. The 78th Scientific Sessions of the American Heart Association. Circulation 2008;118:S592-593.
36. 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. The 58th Scientific Session of the American College of Cardiology. J Am Coll Cardiol 2009.
37. Geske J*, Sorajja P, Nishimura RA, Ommen SR. Variability of left ventricular outflow tract gradient in patients with hypertrophic cardiomyopathy: a cardiac catheterization – echocardiographic study. The 58th Scientific Session of the American College of Cardiology. J Am Coll Cardiol 2009.
*trainee
38. Sorajja P, Lam CSP, Nishimura, RA, Ommen SR. Reduced metabolic exercise capacity predicts death and heart failure in minimally symptomatic patients with obstructive hypertrophic cardiomyopathy. 13th Annual Meeting of the Heart Failure Society of America 2009.
39. Lam CSP*, Sorajja P, Nishimura, RA, Ommen SR. Pulmonary artery systolic pressure is an independent predictor of exercise capacity in hypertrophic cardiomyopathy. 13th Annual Meeting of the Heart Failure Society of America 2009.
*trainee
40. Sorajja P, Lam CSP, Nishimura, RA, Ommen SR. Poor metabolic exercise capacity identifies minimally symptomatic patients with obstructive hypertrophic cardiomyopathy who are at increased risk of death and severe heart failure. The 79th Scientific Sessions of the American Heart Association, 2009.
41. Sorajja P, Binder J, Nishimura RA, Holmes Jr DR, Rihal CS, Gersh BJ, Bresnahan JF, Ommen SR Predictors of surgical-like results with alcohol septal ablation for obstructive hypertrophic cardiomyopathy. The 79th Scientific Sessions of the American Heart Association, 2009.
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