

CURRICULUM VITAE

Constantino S. Peña, M.D.

Office Address: Baptist Cardiac & Vascular Institute
Baptist Hospital of Miami
8900 North Kendall Drive
Miami, FL 33176
786-596-7050

Education:

Fellowship: Vascular Interventional Fellowship
Massachusetts General Hospital, Boston, MA
Drs. Waltman, Geller, Athanasoulis, Kaufman
July 1999- July 2000

Residency: Diagnostic Radiology
Massachusetts General Hospital, Boston, MA
July 1995-July 1999

Chief Resident - 1996-1997
Abdominal Imaging and Intervention fellowship
Drs. Mueller, Hahn, Saini, Dawson, Weissleder
1997-1998

Internship: Internal Medicine
Yale-New Haven Hospital, New Haven, CT
June 1994-July 1995

M.D. Yale University School of Medicine
New Haven, CT
Graduated cum laude
June 1994

M.S: Stanford University Department of Biology
Palo Alto, CA
1990

B.S: Stanford University Department of Biology
Palo Alto, CA
1990

Academic Appointments: Clinical Fellow in Radiology
Harvard Medical School
July 1996-June 2000

Instructor of Radiology
Harvard Medical School
July 2000 – June 2001

Affiliate Assistant Professor

University of South Florida College of Medicine
Tampa, Florida
2006-Present

**Executive Position and
Board Appointment**

Vascular and Interventional Subcommittee
Scientific Program Committee (SPC)
Radiological Society of North America (RSNA)
March 2008 - Present

Program Committee
Cardiovascular Radiology & Intervention Council
American Heart Association (AHA)
December 2009 - Present

American College of Radiology
Committee on Economics-Body MRI
2003-2004

Hospital Appointments:

Interventional Cardiology/Cardiac
Surgery QA Committee
Baptist Hospital
February 2006-Present

Medical Director of Vascular Imaging
Baptist Cardiac & Vascular Institute
Baptist Hospital
Miami, Florida
June 2005-Present

Investigational Review Board
Mercy Hospital
January 2005 – June 2006

Medical Education Committee
Mercy Hospital
July 2002 – June 2005

Director, Interventional Radiology
Mercy Hospital
July 2003-June 2005

Radiologist
Mercy Diagnostic Radiology Associates
July 2001-June 2005

Chair of Subcommittee on Contrast
Radiology Quality Assurance Committee
Massachusetts General Hospital
April 2000-June 2001

Clinical Staff in Radiology
Vascular Imaging and Interventions
Abdominal Imaging and Intervention
Massachusetts General Hospital
July 2000-July 2001

Clinical Assistant in Radiology
Massachusetts General Hospital
July 1999-June 2000

Medical Licenses: Florida (Active)

Board Certification:

Diplomate, American Board of Radiology in Diagnostic Radiology
1999

Certificate of Added Qualifications in Vascular and Interventional
Radiology 2001

Certificate Board of Cardiovascular Computed Tomography 2008

Awards and Honors

Stanley Moore Wyman Awardee for outstanding senior
radiology resident
Massachusetts General Hospital, Department of Radiology
March 1999

Samuel Kushlan Awardee for outstanding medical intern
Yale New Haven Hospital, Department of Medicine,
June 1995

RSNA Research and Education Medical Student/ Scholar Assistant
Award
Student Grant from the Radiological Society of North America
April 1993

Organizations:

Radiology Society of North America
American Roentgen Ray Society
American College of Radiology
Society of Interventional Radiology
American Heart Association
Society of Cardiovascular CT

Publications:

1. McCauley TR, **Peña CS**, Holland C, Price TB, and Gore JC. Validation of Volume Flow Measurements with Cine Phase-Contrast MR Imaging for Peripheral Arterial Waveforms. *Journal of Magnetic Resonance Imaging* 1995; 5(6): 663-8.
2. **Peña CS**, McCauley TR, Price TB, Sumpio B, Gusberg RJ, Gore JC. Quantitative Blood Flow Measurements with Cine Phase-Contrast MR Imaging of Subjects at Rest and After Exercise to Assess Peripheral Vascular Disease. *AJR* 1996; 167:153-7.

3. Boland GW, Hahn PF, **Peña CS**, Mueller PR. Adrenal Masses: Characterization with Delayed Contrast-enhanced CT. *Radiology* 1997; 202:693-6.
4. **Peña CS**, Chew FS, Keel SB. Posttransplantation Lymphoproliferative Disorder of the Liver. *AJR* 1998; 171:192.
5. Chew FS, **Peña CS**, Keel SB. Cervical Spine Osteoblastoma. *AJR* 1998; 171: 1244.
6. **Peña CS**, Kaufman JA, Geller SC, Waltman AC. Gadopentetate Dimeglumine: A Possible Alternative Contrast Agent for CTA of the Aorta. *JCAT* 1999; 23:23-4.
7. **Peña CS**, Mueller PR. Metallic Stents in the Biliary Tree. *Minimally Invasive Therapy & Allied Technologies* 1999; 8(3):191-196.
8. **Peña CS**, Boland GW, Hahn PF, Lee MJ, Mueller PR. Washout characteristics of adrenal masses on contrast-enhanced CT: Definitive lesion characterization. *Radiology* 2000; 217(3).
9. **Peña CS**, Saini S, Hamm B, Baron R, Kirchin M, Spinazzi A. Detection of Malignant Primary Hepatic Neoplasms Gadobenate Dimeglumine (Gd-BOPTA) enhanced T1 Weighted hepatocyte phase MR Imaging; *Korean Journal of Radiology*.
10. Sahani D, Saini S, **Pena C**, Nichols S, Prasad SR, Hahn PF, Halpern EF, Tanabe KK, Jueller PR. Using multidetector CT for preoperative vascular evaluation of liver neoplasms: technique and results. *Am J Roentgenol*, 2002 Jul; 179(1):53-9.
11. MacLean AA, **Pena CS**, Katzen BT. Bivalirudin in Peripheral Interventions. *Techniques in Vascular and Interventional Radiology*. Volume 9, Issue 2; June 2006; 80-83.
12. Diehm N, **Pena C**, Benenati JF, Tsoukas AI, Katzen BT. Adequacy of an early arterial phase low-volume contrast protocol in 64-detector computed tomography angiography for aortoiliac aneurysms. *J Vasc Surg* 2008; 47:492-8.
13. Diehm N, Tsoukas AI, Katzen BT, Benenati JF, Baum S, **Pena C**, Dick F. Matched-pair Analysis of Endovascular versus Open Surgical Repair of Abdominal Aortic Aneurysms in Young Patients at Low Risk. *J. Vasc Interv Radiol* 2008; 19:645-651.
14. Cury RC, Feutchner G, **Pena CS**, Janowitz WR, Katzen BT, Ziffer JA. Acute chest pain imaging in the emergency department with cardiac computed tomography angiography. *J Nucl Cardiol* 2008; 15:564-75.
15. Cantwell CP, **Pena CS**, Gervais DA, Hahn PF, Dawson SL, Mueller PR. Thirty Years' Experience with Balloon Dilation of Benign Postoperative Biliary Strictures: Long Term Outcomes. *Radiology* 2008. 249:3:1050-57.
16. Geronemus AR, **Pena C**. Endovascular Treatment of Femoral-Popliteal Disease. *Semin Intervent Radiol* 2009;26:303-314.
17. Gibbs J, **Pena C**, Benenati JF. The Occluded SFA. *Techniques in Vascular and Interventional Radiology* Volume 12 pending publication.
18. Etezadi, V, **Pena C**, Katzen BT, Benenati JF, Fuller J, Wong S, Patel RS, Diehm N. Endovascular Treatment of Popliteal Artery Aneurysms: A Single Center Experience. Submitted to *JVIR*.

Abstract Presentations

1. Cine Phase Contrast MR Measurement of Peripheral Vascular Volume Blood Flow at Rest and After Exercise. American Roentgen Ray Society: 95th Annual Meeting; May 3, 1995. **Peña CS**, McCauley TR, Price TB, Gusberg, RJ, Sumpio EB, Gore JC.
2. Percutaneous Balloon Dilation for Benign Anastomotic Biliary Strictures: Results of 5- and 10- year Follow-up. Radiological Society of North America: 82nd Scientific Assembly; December 6, 1996. **Peña CS**, Mueller PR, Boland GW, Hahn PF, Dawson SL, Lee MJ.
3. Liver lesion detection by MR imaging with the use of Gadobenate Dimeglumine (Gd-BOPTA). Radiological Society of North America: 84th Scientific Assembly; November 29, 1998. **Peña CS**, Saini S, Hamm B, Baron R, Kirchin M, Spinazzi A.
4. Contrast enhanced CT for adrenal lesion characterization: Efficacy of washout characteristics to differentiate adrenal adenomas from nonadenomas using short delayed scanning. Radiological Society of North America: 85th Scientific Assembly; November 29, 1999. **Peña CS**, Boland GW, O'Malley M, Hahn PF, Mueller, PR.
5. Surgical Conversions from Endoluminal Aortic Aneurysm Stent Graft Repair. Radiological Society of North America: 86th Scientific Assembly, November 29, 2000. **Peña CS**, Kaufman JA, Fan CM, Geller SC, Brewster DC, Waltman AC.
6. Endovascular Stent Graft repair of abdominal aortic aneurysms in female patients: technical challenges and outcomes. Society of Cardiovascular and Interventional Radiology: 26th Scientific Assembly, March 6, 2001. **Peña CS**, Fan CM, Geller SC, Greenfield A, Brewster DC, Waltman AC.
7. Society of Interventional Radiology (SIR)
Success of a Flat Panel C-Arm with Soft tissue Imaging and Needle Guidance
System for Interventional Procedures
Washington, DC
March 15-20, 2008
8. Thirty Year's Experience with Balloon dilation of Benign Post Operative Biliary Strictures: Evolution of Experience, Technical Considerations, and Long Term Outcomes. Radiology Society of North America (RSNA), November 2007. Cantwell CP, Dublin I, **Pena CS**, Gervais DA, Hahn PF, Mueller PR.
9. State of Art Endovascular Suites: Expanding Hybrid Procedures. Florida Vascular Society, Orlando, Florida, April 2009. **Peña CS**, Lim H, Benenati JF, Powell A Katzen BT.
10. How Accurate are the Carotid Duplex Results from Non-Accredited Laboratories. Florida Vascular Society, Orlando, Florida, April 2009. **Peña CS**, Katzen BT, Benenati JF, Powell A, Samuels, SS.

Invited Lectures:

1. Cross Sectional Angiography. New England Chapter of Radiological Technologists January 1998.
2. Cuban Medical Convention

Advances in Radiology
Hotel Intercontinental
Miami, July 2, 1998.

3. Massachusetts General Hospital, Quality Assurance Conference
Contrast Agents: Reactions and Treatment. Department of Radiology,
November 1998
March 1990
March 2000
August 2000
March 2001
4. MRI Centers of New England
Liver Contrast Agents.
February 1999.
5. Regional MSRT Meeting
Contrast Agents: Reactions and Treatment.
May 1999.
6. IV Simposio Internacional De Resonancia
Aortic Stent Grafts: CT Imaging. Magnética e Intervencionismo Vascular, Medellín,
Columbia.
October 22, 1999
7. IV Simposio Internacional De Resonancia Magnética e Intervencionismo Vascular,
Medellín,
MRI of the Pancreas.
Columbia.
October 22, 1999
8. Practical Interventional Radiology Course
Workshop on Central Venous Access.
Cambridge Sonesta Hotel
Boston, MA.
April 9, 2000
9. Interventional Radiology MGH Course
Workshop on Closure Devices.
Seaport Hotel,
Boston, MA
November 9, 2000
10. Vascular Radiology MGH Course
Atherosclerotic Occlusive Disease,
March 19, 2001
11. MGH/BWH Radiology Review 2001
Diagnosis and Diagnostic Procedures in the Arterial System
Tremont Hotel
Boston, MA.
May 8, 2001
12. Vena Caval Filter Opinion Leaders Meeting.
Initial Experiences with the TrapEase IVC Filter.
Heisman Room at The Downtown Athletic Club,

New York, NY.
May 8, 2001

13. XVI International Cuban Medical Conference
Dysfunctional Uterine Bleeding: Uterine Artery Embolization
Fontainebleau Hilton Hotel
Miami Beach, FL
July 4, 2001
14. Cuban Medical Conference
Interventional Radiology in the Oncologic Patient
Fontainebleau Hilton Hotel,
Miami Beach, Florida.
July 2, 2003
15. American Heart Association. Scientific Session
Alternative Contrast Agents in Peripheral Angiography
Orlando Convention Center
Orlando, Florida
November 10, 2003
16. American Roentgen Ray Society, 104th Annual Meeting
Technology Updates II- Endovenous Devices and Arterial Closures: Vena Caval
Filters
Miami Beach, Florida
May 4, 2004.
17. Grand Rounds Lecture Mercy Hospital
Imaging Diagnosis and Treatment of Pulmonary Embolism.
Miami, Florida.
April 2005
18. American Roentgen Ray Society, 105th Annual Meeting.
Arterial Interventions: Aortic Endografts.
New Orleans, LA
May 19, 2005.
19. Mercy Hospital Grand Rounds
Abdominal Aortic Stent Grafts: Past Present Future The Mercy Hospital Experience
Miami Florida.
May 23, 2005,
20. Baptist Hospital of Miami.
GI Bleeders from the Gastroenterological and Radiological Perspectives.
Miami, Florida.
January 2006
21. International Symposium on Endovascular Therapy (ISET), Fontainebleau Hotel,
Basic Techniques in Body CTA
Case Review Session 2: Cases of Brilliance Workstation
Coronary CTA: Patient Preparation and Exam Performance
Miami Beach, Florida
January 2006
22. Baptist Hospital Women's Health
The Latest in Carotid Artery Procedures

- Miami, Florida.
March 2006
23. 4th Annual Cardiovascular Magnetic Resonance and Computed Tomography
Optimal Administration of MR and CT Contrast: Hands-on
Washington, DC
June 25, 2006
 24. Society of Interventional Radiology
Vascular Imaging: CTA and MRA (Hands On) Workshop Coordinator
Toronto, Canada
March 2006
 25. 14th Annual Global Cardiovascular Interventions New Devices Seminar,
CTA of Aorta & Pulmonary Circulation
CTA of the Abdomen and Renals
Orlando, Florida
July 1-4, 2006
 26. Society of Cardiovascular Computed Tomography (SCCT)
Peripheral CTA-
Arlington, Virginia
July 13-16, 2006
 27. XII SOLACI and the XXVII SBHCI Congresses of Interventional Cardiology
Carotid Artery Disease: Lessons Learned from Clinical Trials of Surgery vs. Stents
Porto Alegre, RS, Brazil
July 18-21, 2006
 28. International Symposium on Endovascular Therapy (ISET)
CTA @ ISET
Basic CTA Principles
Getting Paid for a Coronary CT
Radiation and contrast: Is the price too high?
Mentored Case Review
The Westin Diplomat Resort & Spa, Hollywood, Florida
January 28-February 1, 2007
 29. Society of Interventional Radiology
Vascular Imaging: CTA and MRA (Hands On) Workshop Coordinator
Commentator: "Evaluation of Patients with Suspected Cardioembolic Stroke
With Cardiovascular MR: Comparison with Echocardiography"
Seattle, Washington
March 2007
 30. V Congress of Latin America
Tools of Coronary CTA
How Coronary CTA is impacting the Diagnosis and Treatment of Cardiac Disease
San Jose, Costa Rica
March 30, 2007
 31. Interamerican Society of Cardiology Congress
Immediate Impact of Coronary CTA on the Diagnosis and Treatment of Cardiac
Disease
Lima, Peru
April 27, 2007

32. International Vein Congress (IVC 2007)
Deep Vein Treatment with a Fluoroscope: Balloon vs Stent
Situations for High Pressure Balloons and Cutting Balloons
Endovascular Management of Central Venous Stenoses and Occlusions
Miami, Florida
May 16-18, 2007
33. 15th Annual New Devices Seminar
Cardiac CTA: Anatomical Background and Correlation in Angiography
CTA for the Thoracic and Abdominal Aorta
The Role of Peripheral CTA - How Does it Compare to MRA and Ultrasound
Overview of Current Status of CTA
Workshop: CTA for Physicians Interested in Coronary and Peripheral Vascular
Applications, an in Depth Look
Orlando, Florida
June 30-July 23, 2007
34. IV Curso Internacional, Avances en Echografiografía y Ultrasonido Vascular
Imaging for Diagnosis & Treatment in Cardiovascular Disease
Lima, Peru
August 2, 2007
35. SIR Multimodality Symposium
Cross-sectional Imaging (CTA, MRA)
Duplex, CTA, MRA and Angiography
Radiographic Evaluation for TAA
Indications for TAA
Washington, DC
October 5-6, 2007
36. American Heart Association
Moderator: What's New in Peripheral Vascular Intervention II
Thoracic Aortic Intervention; Aneurysms and Dissection
AAA Intervention and Follow-Up
Orlando, Florida
November 4-7, 2007
37. International Symposium on Endovascular Therapy (ISET)
CTA @ ISET
CTA Basics
Limitations and Pitfalls in Body CTA
Moderator: Stents, Bypasses and Other Problems
Pre-imaging Protocols and Issues
Is There a Role for Coronary CTA in Guiding Coronary Interventions
Hollywood, Florida
January 20-24, 2008
38. Society of Interventional Radiology (SIR)
Advances in Clinical Care: coagulation and Hemostasis
Workshop: Vascular Imaging: CTA & MRA (Hands-on)
Angiographic 3D Tools: How I use them in my practice
Washington, DC
March 15-20, 2008
39. Radiology Grand Rounds in Conjunction with Baptist Cardiac & Vascular Institute

Clinical Applications of Vascular CT
Baptist Cardiac & Vascular Institute
Miami, Florida
April 14, 2008

40. Multi Detector CT Imaging Conference
Body CT Angiography: Peripheral and Visceral
Baltimore, Maryland
April 26-27, 2008
41. 10th Annual International Symposium on Multidetector-Row CT
Low Contrast Volume Abdominal CTA
CTA for Planning Treatment of Abdominal Aortic Aneurysm
CTA in the Evaluation of Endoleaks
Wynn, Las Vegas, Nevada
May 13-16, 2008
42. 3rd Annual Scientific Meeting of the Society of Cardiovascular
Computed Tomography (SCCT)
Moderator: Indications and Technique for Peripheral CTA I
Upper Extremities
Mesenteric Arteries
CT Venography
Orlando, Florida
July 16-17, 2008
43. New Cardiovascular Horizons 2008
"Tricks" and Protocols to Optimize Extremity Imaging
New Orleans, Louisiana
September 10-13, 2008
44. South Florida Society for Vascular Surgery
Infrageniculate Intervention: Long term Outcomes
Cheeca Lodge, Islamorada, FL
October 24-26, 2008
45. SoBRICE
Percutaneous treatment of AAA
Endoleak: Treatment and Follow-up
Endovascular treatment of SFA - Resilient Trial
Endovascular treatment of Aorto-Iliac Lesions - TASC
Endovascular treatment of the Popliteal Aneurysm
Salvador, Brazil
November 19-22, 2008
46. International Symposium on Endovascular Therapy (ISET)
CTA at ISET
Moderator: Introduction to CTA
Peripheral CTA
XPer CT in Interventional Procedures
Cone Beam CT in Interventional Procedures
CCTA in Low-to-intermediate risk Chest pain Evaluation
Panelist: Clinical Case Presentations: Coronary CTA with Catheterization Correlation
Panelist: Coronary Case Reviews: Reading with the Experts
Westin Diplomat, Hollywood, Florida
January 18-22, 2009

47. 34th Annual Scientific Meeting
Society of Interventional Radiology (SIR)
Coordinator: Noninvasive Imaging (Featured Symposium)
How to Report Coronary CTA
Moderator: Coronary CTA Case Review Panel
Workshop coordinator- CTA/MRA
March 7-12, 2009
48. International Vein Congress, 2009
Ovarian Vein Reflux and Pelvic Congestion Syndrome: How to Approach
These Patients
Fontainebleau Miami Beach
Miami Beach, Florida
May 7-9, 2009
49. 15th Annual Interventional Cardiology Fellows' Course
Renal Arterial Disease: Evaluation and Technical Approach
Endovascular Approaches to Critical Limb Ischemia
Loews Miami Beach, Florida
May 10-13, 2009
50. XXII Interamerican Congress of Cardiology
Endovascular Aortic Aneurysm Repair: What is New?
Fajardo, Puerto Rico
June 12-16, 2009
51. Massachusetts General Hospital - Grand Rounds
Clinical and Endovascular management of SFA Disease
Boston, Massachusetts
September 29-30, 2009
52. 41st Mexican Congress of Angiology and Vascular Surgery
Utility of the Sixty four Detector CT angiography of infrarenal aortic neck
Length and angulation
Polytetrafluoroethylene-covered endoprosthesis placement and
Percutaneous transluminal angioplasty in the treatment of superficial
Femoral artery disease
Leon, Guanajuato, Mexico
October 7-8, 2009
53. 95th Scientific Assembly and Annual Meeting (RSNA)
Management Decisions from Imaging: What is Important?
Common Surgical Procedures
Moderator: Vascular/Interventional (Vascular Imaging)
Chicago, Illinois
November 29-December 4, 2009

Scientific Exhibits

1. Pena CS, Benenati J, Katzen BT. Rotational Imaging techniques to minimize contrast utilization in hypogastric embolization. CIRSE 2009. Lisbon, Portugal, September 19-23, 2009.