

CURRICULUM VITAE

1. DATE: April 20, 2015

I. PERSONAL

2. Name: Shivank Bhatia, M.D.

4. Office Phone: (305) 585- 6433

Fax #: (305) 585- 5743

7. Primary Department: Department of Radiology (R-109)
Miller School of Medicine
University of Miami
P.O. Box 016960
Miami, FL 33101

8. Secondary or Joint Appointments: Urology

IV. PUBLICATIONS

Book chapters:

1. Bruce R. Kava, Jayadev R. Mettu, **Shivank Bhatia**, Praseon P. Mohan, Gopal H. Bhadrani. Treatments for Benign Conditions of the Prostate Gland: BPH, Prostatic Abscess, Prostatic Utricular Cysts: Text book of Interventional urology: In press
2. **Bhatia SS**, Narayanan G: Interventional Radiology and Endovascular Surgery - Second Edition: Embolization and Chemoembolization of metastatic liver tumors.
3. **Bhatia SS**, Narayanan G: Interventional Radiology and Endovascular Surgery - Second Edition: General aspects and current status of tumor ablation with radiofrequency and irreversible electroporation.

Juried or refereed journal articles:

1. **Shivank S Bhatia**; Shree Venkat; Ana Echenique; Mehul Doshi; Caio Rocha-Lima; Jason Salsamendi; Katuzka Barbery; Govindarajan Narayanan. Proximal Splenic Artery embolization in chemotherapy induced thrombocytopenia: A retrospective analysis of 13 patients. Journal of Vascular and Interventional Radiology: In press
2. Jason Salsamendi; Mehul Doshi; **Shivank Bhatia**; Matthew Bordegaray, MD; Connor Morton BS; Rahul Arya, MD; Govindarajan Narayanan. Single center experience with the AngioVac aspiration system. Accepted for publication in Cardiovascular and Interventional Radiology.
3. G Narayanan, **Shivank Bhatia**, Rahul Arya: Niche Applications of IRE: Seminars in Interventional Radiology. In press
4. **Bhatia, Shivank S.**, Seth Spector, Ana Echenique, Tatiana Froud, Rekha Suthar, Ivy Lawson, Ravi Dalal, Vy Dinh, Jose Yrizarry, and Govindarajan Narayanan. "Is Antibiotic Prophylaxis for Percutaneous Radiofrequency Ablation (RFA) of Primary Liver Tumors Necessary? Results From a Single-Center Experience." *Cardiovascular and interventional radiology* (2014): 1-7.

5. Narayanan, Govindarajan, **Shivank Bhatia**, Ana Echenique, Rekha Suthar, Katuzka Barbery, and Jose Yrizarry. "Vessel patency post irreversible electroporation." *Cardiovascular and interventional radiology* 37, no. 6 (2014): 1523-1529.
6. **Bhatia, Shivank S.**, Dipen J. Parekh, Keith Pereira, Mercè Jordà, Niramol Savaraj, Ana Echenique, Jose Yrizarry, and Govindarajan Narayanan. "Successful management of renal leiomyosarcoma using radiofrequency ablation: Case report and brief review of literature." *Journal of Solid Tumors* 4, no. 3 (2014): p10.
7. Burke, Colin, Jason Salsamendi, **Shivank S. Bhatia**, and John D. Pitcher. "Transarterial Embolization of Large Retroperitoneal Ganglioneuromas." *Journal of Vascular and Interventional Radiology* 25, no. 3 (2014): 490-493.
8. **Bhatia, Shivank S.**, Tomer Z. Karas, Keith Pereira, Michael J. King, and Jose Yrizarry. "Treatment of Chyle Leak by Percutaneous Alcohol Sclerosis of the Cisterna Chyli: A Case Report." *Cardiovascular and interventional radiology* (2014): 1-3.
9. Kably, Issam M., **Shivank S. Bhatia**, and Govindarajan Narayanan. "Prostatic Artery Embolization for Intractable Hematuria in Prostate Cancer." *IO 360 Intervent Oncol* 360 03/2015; 3(3):E30-E35.
10. **Bhatia, Shivank**, Shree Venkat, Caio Max Rocha-Lima, Eduardo Gonzalez, Emily Jun, and Govindarajan Narayanan. "Treatment Options for Thrombocytopenia in Cancer Patients." *Interventional Oncology* 360 JAN2014
11. Michael, O'Neil. Jamie Rosenkrantz,, Jason Salsamendi, Shree Venkat, **Shivank Bhatia**, Govindarajan Narayanan "Diagnosis and Endovascular Treatment of Common Vascular Complications in the Post Liver Transplant Patient: A Pictorial Essay." *VASCULAR DISEASE MANAGEMENT* 10, no. 9 (2013): E170-E178.
12. David Quintana, MD; Ravi Dalal, MD; Emily Jun; Jason Salsamendi, MD; **Shivank Bhatia, MD**, Mircea Cristescu, MD; Akin Tekin, MD Govindarajan Narayanan, MD; Experience with endovascular treatment options, including ultrasound-accelerated thrombolysis, in hepatic artery thrombosis and liver transplantation. *Vascular Disease Management*. August 2013.
13. O'Neill, M., Salsamendi, J., Georgiou, M., Froud, T., **Bhatia,SS**, Cristescu, M. Kuker, R., Narayanan, G. Follow-Up Internal Pair Production Y-90

PET/CT Compared to Bremsstrahlung SPECT. Published on the E-journal at Cureus.com in October, 2012.

14. O'Neill, M., Salsamendi, J., Georgiou, M., Froud, T., **Bhatia,SS.**, Narayanan, R. Internal Pair-Production PET/CT: A High-Resolution Technique for Demonstrating Y-90 Dose Distribution. Published on the E-journal at Cureus.com in October, 2012.

Published abstracts:

1. Govindarajan Narayanan, Peter Joel Hosein, Caio Max S. Rocha Lima, Rekha Suthar, Jaime R. Merchan, Maria Restrepo, Ana Echenique, Tatiana Froud, **Shivank Bhatia**, Katuska J Barbery, Jose M Yrizarry; ASCO 2014 J Clin Oncol 32, 2014 (suppl; abstr e15249)
2. **Bhatia S**, Spector S, Dalal R, Echenique A, Narayanan G. Is antibiotic prophylaxis necessary for percutaneous radiofrequency ablation of hepatocellular carcinoma? **Journal of Vascular and Interventional Radiology** Vol 25, Issue 3, Supplement ,_Page S180, March 2014
3. **Bhatia S**, Shree Venkat, Kably Issam, Yrizarry Jose, Froud Tatiana, Narayanan G. Splenic artery embolization for Thrombocytopenia in Chemotherapy Recipients. **Journal of Vascular and Interventional Radiology** 2013 Vol. 24, Issue 7, Page 1082
4. **Bhatia S**, Shree Venkat, Kably Issam, Yrizarry Jose, Froud Tatiana, Narayanan G. Splenic artery embolization for Thrombocytopenia in Chemotherapy Recipients. **Journal of Vascular and Interventional Radiology** 2013 Vol. 24, Issue 4, Supplement, Page S115
5. M. Doshi, A. Pezeshkmehr, **S. Bhatia**, I. Kably, G. Narayanan. Single institute, six year percutaneous antegrade ureteral stent retrieval experience. **Journal of Vascular and Interventional Radiology** 2013 Vol. 24, Issue 4, Supplement, Page S99
6. J. Tresley, **S. Bhatia**, I. Kably, G Narayanan. Amplatzer Vascular Plug as an embolic agent in different vascular pathologies: a pictorial essay. **Journal of Vascular and Interventional Radiology** 2012 Vol. 23, Issue 3, Supplement, Page S138
7. O'Neil,M., Salsamendi, J, **S. Bhatia**, Shree V, Narayanan G. Diagnosis and Endovascular Treatment of Common Vascular Complications in the Post Liver Transplant Patient: A Pictorial Essay. **Vascular Disease Management** 2013.

8. O'Neill, M., Salsamendi, J., Georgiou, M., Froud, T., **Bhatia,S.**, Kuker, R. Narayanan, G. Follow-Up Internal Pair Production Y-90 PET/CT Compared to Bremsstrahlung SPECT. (Abstract) **Journal of Vascular and Interventional Radiology**. [Volume 23, Issue 6](#) , Pages 853.e1-853.e43, June 2012.
9. O'Neill, M., Salsamendi, J., Georgiou, M., Froud, T., **Bhatia,S.**, Cristescu, M. Kuker, R., Narayanan, G. Follow-Up Internal Pair Production Y-90 PET/CT Compared to Bremsstrahlung SPECT. Published on the E-journal at Cureus.com in October, 2012.
10. O'Neill, M., Salsamendi, J., Georgiou, M., Froud, T., **Bhatia,S.**, Narayanan, R. Internal Pair-Production PET/CT: A High-Resolution Technique for Demonstrating Y-90 Dose Distribution. Published on the E-journal at Cureus.com in October, 2012.
11. **Bhatia S**, P Grover, JJ Guerra, E Russell, J Yrizarry. Percutaneous Retrograde Transjejunal Cholangiography and Biliary Intervention for Benign and Malignant Strictures. JVIR, February 2008 Supplement, Vol 19, No. 2, Part 2, (Abstract # 303)

Scientific Exhibits/Posters:

1. Matthew Bordegaray, Jason Salsamendi, **Shivank Bhatia**, Mehul Doshi, Govindarajan Narayanan. New Device for Thrombectomy of large veins. South Florida Society for Vascular surgery. Key Largo, Florida. October 2014.
2. **Bhatia S**, Spector S, Dalal R, Echenique A, Narayanan G. Is antibiotic prophylaxis necessary for percutaneous radiofrequency ablation of hepatocellular carcinoma. Poster presentation: SIR 2014
3. Bordegaray M, Salsamendi J, Doshi M, Pereira K, Kably I, **Bhatia S**, Sultan A, Narayanan G. Visceral Artery Pseudoaneurysms: A Challenge for the Interventional Radiologist and Alternative Treatments. Jackson Memorial Hospital/University of Miami Miller School of Medicine, Miami, FL. ARRS 2014
4. Kably Issam, **Bhatia Shivank**, Govindarajan Narayanan. Bilateral prostatic artery embolization for intractable hematuria of prostatic origin. Conference: Pan Arab Interventional Radiology Society (PAIRS) Annual Scientific Meeting, At Dubai; 2014

5. **Bhatia S**, Shree Venkat (presenter), Kably Issam, Yrizarry Jose, Froud Tatiana, Narayanan Govindarajan Splenic artery embolization for Thrombocytopenia in Chemotherapy Recipients. Society of Interventional Radiology 2013.
6. M. Doshi, A. Pezeshkmehr, **S. Bhatia**, I. Kably, G. Narayanan Single institute, six year percutaneous antegrade ureteral stent retrieval experience. Oral presentation: Society of Interventional Radiology 2013.
7. Fourzali, Roberto; Salsamendi, Jason T.; Pereira, Keith P.; **Bhatia, S**; Doshi, Mehul; Narayanan, Govindarajan: Visceral Artery Pseudoaneurysms (VAA). A challenge for the Interventional Radiologist and the alternative treatments. FVS 2013
8. Matthew Bordegaray MD, Jason Salsamendi MD, **Shivank Bhatia MD**, G. Narayanan. Treatment of Near Aortic Occlusion Secondary to Cocaine Use with an Aortoiliac Stent Graft. C³ Conference 2013
9. O'Neill, M., Salsamendi, J., Georgiou, M., Froud, T., **Bhatia, S.**, Internal Pair-Production Y-90 PET/CT: Our Institutional Experience on Optimizing Image Acquisition and Treatment Localization. RSNA 2012, Abstract ID 12020499.
10. O'Neill, M., Salsamendi, J., Georgiou, M., Froud, T., **Bhatia, S.**, Narayanan, G. Internal Pair-Production PET/CT: A High-Resolution Technique for Demonstrating Y-90 Dose Distribution. Presented as a poster at the July 2012 Florida Medical Association Meeting.
11. O'Neill, M., Salsamendi, J., Georgiou, M., Froud, T., **Bhatia, S.**, Cristescu, M. Kuker, R., Narayanan, G. Follow-Up Internal Pair Production Y-90 PET/CT Compared to Bremsstrahlung SPECT. Presented as a poster at World Conference of Interventional Oncology, June 14-17, 2012.
12. Tresley, Jonathan; **Bhatia, S**; Kably, Issam; Narayanan, Govindarajan. Pictorial essay of the use of an Amplatzer Vascular Plug as an embolic agent in different vascular pathologies – Educational Exhibit. SIR San Francisco, Calif. March 24-29, 2012.
13. O'Neill, M, Salsamendi J, Georgiou M, Froud T, **S. Bhatia**, Cristescu M, and Narayanan G. Follow-up Yttrium-90 Internal Pair Production PET/CT Imaging in Patients with Primary or Metastatic Liver Tumors ad Compared with Brehmsstrahlung Imaging: A prospective Case Series (poster) World Conference on Interventional Oncology (WCIO) 2012. Chicago, Illinois June 14-17, 2012.

14. Robert P, Grover P, Salsamendi J, Narayanan G, and **Bhatia S**. Image-guided Foreign Removal: Electronic Exhibit; American Roentgen Ray Society; Vancouver, Canada April 29 – May 5, 2012.
15. Narayanan, G., S. Hanumanthaiah, D. Lamus, **S. Bhatia**, K. Nanavati, J. Yrizarry. Angioseal in Interventional Oncology: Safety and Efficacy of Re-Access Procedures with Reduced Intervals of Time. ISET 2008, Hollywood, Florida, January 20-24, 2008.
16. **Bhatia S**, J Casillas, P Grover, J Guerra, K Nanavati, J Yrizarry. Bronchobiliary Fistula: Diagnosis and Management by Percutaneous Transhepatic Biliary Stent Placement. Society of Thoracic Radiology, Ft. Myers, FL. March 2-5, 2008.
17. **Bhatia S**, P Grover, JJ Guerra, E Russell, J Yrizarry. Percutaneous Retrograde Transjejunum Cholangiography and Biliary Intervention for Benign and Malignant Strictures. Poster # 303, 2008 Society of Interventional Radiology, Washington, DC, March 15-20, 2008.
18. Williams S, R Leveillee, **S Bhatia**, K Nanavati. Complications After CT Guided Radiofrequency Ablation of Small Renal Masses: Analysis of Outcomes. 2008 World Conference on Interventional Oncology & Best of ASCO, Los Angeles, California. June 22-25, 2008.
19. Grover P, **S Bhatia**, J Casillas, J Parodi, J Yrizarry. Splenic Artery Aneurysms and Pseudoaneurysms: When to Intervene? A Comprehensive Pictorial Review of Etiopathology, Diagnosis, and Role of Endovascular Therapy. Radiological Society of North America, Chicago, IL. November 25-30, 2008.
20. **Bhatia S**, M Doshi, P Grover, G Narayanan, J Yrizarry-Yunque, K Nanavati. Pseudoaneurysms Related to Hemodialysis Grafts and Fistulas: Percutaneous Aspiration after Covered Stent Placement and Role of tPA in Aspiration of Clotted Pseudoaneurysm. Radiological Society of North America, Chicago, IL. November 25-30, 2008.
21. Narayanan G, M Doshi, P Grover, **S Bhatia**, J Yrizarry, D Lamus. Cases of Insertion Problems with G2 IVC Filter: Review of the Filter Design and Technical Difficulties in Placement. Radiological Society of North America, November 25-30, 2007.

22. Funded Research Performed:

1. Prospective, Randomized, Controlled Investigation Of Prostate Artery Embolization With Embosphere® Microspheres Compared to Transurethral Resection of the Prostate for the symptomatic Benign Prostatic Hyperplasia.
Sponsor: Merit Medical
Total costs: \$ 4830000
Role: Site **Principal Investigator** at University of Miami
2. Prospective pilot study to evaluate safety and efficacy of pre-operative Prostate artery embolization (PAE) before radical prostatectomy in prostate cancer patients. Investigator initiated FDA approved IDE study.
Sponsor: Society of Interventional Radiology Foundation (\$25000)
Research grant: MERIT Medical (\$ 200,000)
Role: **Principal Investigator at University Of Miami**
3. Prospective, Randomized, Controlled Investigation Of Prostate Artery Embolization With Embosphere® Microspheres Compared to Transurethral Resection of the Prostate for the symptomatic Benign Prostatic Hyperplasia.
Sponsor: Merit Medical
Total costs: \$ 300,000
Role: Site **Principal Investigator** at Miami VA
4. The PROOF Study: The PICC Related Obstruction Of Flow Study A Randomized Multicenter Evaluation to Investigate the Incidence of Catheter Related Venous Thrombosis in Patients Undergoing In-Hospital Intravenous Therapy with the BioFlo™ or Bard® Dual-L
Sponsor: Angiodynamics
Role: Co-investigator
5. Prospective, Randomized, Study on the Effectiveness of EM Navigation System in Percutaneous Liver Ablations and Biopsies.
Sponsor: Veran Technologies
Role: Co-Investigator

6. Follow-up Yttrium-90 Internal Pair Production PET/CT Imaging in Patients with Primary or Metastatic Liver Tumors as compared with Bremsstrahlung Imaging: A Prospective Case Series. IRB: 20120092
Sponsor: SIRTEX
Role: Co- investigator

■ **Awards and Honors:**

1. **Society of Interventional Radiology Pilot Study grant:** Phase II open label investigation of the safety and efficacy of pre-operative Prostate artery embolization (PAE) before radical prostatectomy in prostate cancer patients **Bhatia, Shivank**; Parekh Dipen, Govindarajan Narayanan.
2. **Bhatia S**, Shree Venkat, Kably Issam, Yrizarry Jose, Froud Tatiana, Narayanan Govindarajan Splenic artery embolization for Thrombocytopenia in Chemotherapy Recipients Society of Interventional Radiology 2013. **Best Poster Award SIR 2013**
3. O'Neill, M., Salsamendi, J., Georgiou, M., Froud, T., **Bhatia, S.**, Narayanan, R. Follow-Up Internal Pair Production Y-90 PET/CT Compared to Bremsstrahlung SPECT. **Winner of the national annual Alpha Omega Alpha post-graduate award.**

Professional and Honorary Organizations:

Society of Interventional Radiology, June 2006 -- Present

Radiological Society of North America, January 2006 -- Present

ARRS (American Roentgen Ray Society) 2013-present

CIRSE (Cardiovascular and Interventional Radiology Society of Europe) – 2011 – till date

Invited Lectureships:

Course director: Symposium on Prostate artery Embolization Synergy 2015
November 5-8 - University Of Miami CME

"A Multidisciplinary Approach to Interventional Oncology SYNERGY", Sponsored by the Society of Interventional Radiology and the University of Miami UHealth System, The Fontainebleau Hotel, Miami Beach, FL. November 5-7, 2014:
Prostate Artery embolization in prostate cancer.

"A Multidisciplinary Approach to Interventional Oncology SYNERGY", Sponsored by the Society of Interventional Radiology and the University of Miami UHealth

Shivank Bhatia, M.D.

10-

System, The Fontainebleau Hotel, Miami Beach, FL. October 11-13, 2013:
Prostate Artery embolization: Anatomy and Pitfalls.

“A Multidisciplinary Approach to Interventional Oncology - SYNERGY”,
Sponsored by the Society of Interventional Radiology and the University of Miami
UHealth System, The Fontainebleau Hotel, Miami Beach, FL. November 11-13,
2012: Splenic artery embolization in thrombocytopenia in chemotherapy
recipients.

“A Multidisciplinary Approach to Interventional Oncology - SYNERGY”,
Sponsored by the Society of Interventional Radiology and the University of Miami
UHealth System, The Eden Roc Hotel, Miami Beach, FL. November 11-13, 2011:
Peritoneal Pleurx.

“Minimally Invasive Treatments” – International Medical Congress, Miami Beach
(June 28-July 2, 2010): Role of UFE in treatment of Uterine Fibroids.

TEACHING

Teaching Awards Received: None

Teaching Specialization:

Teaching Vascular/Interventional Radiology to Radiology House Staff, Miller
School of Medicine students and Jackson Memorial Medical Center technical
students and staff. September 2006 - PRESENT

Thesis and Dissertation Advising/Post-doctoral student supervision:

MRI Changes post Prostate Artery Embolization: 4th Year Resident Ravi Dalal

Prostate Artery Embolization – Results in 15 patients: 4th year Resident Matthew
Brodegary

University Committee and Administrative Responsibilities:

Medical Director, Veterans Administration Medical Center; Department of
Radiology, Special Procedures Miami, Florida. 2009 - PRESENT