**CURRICULUM VITAE**

Howard Richard III, M.D.

Associate Professor, Department of Diagnostic Radiology and Nuclear Medicine

University of Maryland School of Medicine

**Date** October 19, 2016

**Contact Information**

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**Education**

1986 B.S., Bio-Mechanical Engineering, Massachusetts Institute of Technology

1990 M.D., University of Virginia, School of Medicine

**Post Graduate Education and Training**

1990-1991 Internship, General Surgery, Johns Hopkins Hospital, Baltimore, Maryland

1995-1999 Residency, Diagnostic Radiology, Mount Sinai Medical Center, New York, New York

1999-2000 Fellowship, Angiography/Interventional Radiology, University of Maryland School of Medicine

**Certifications**

1991 Diplomat, National Board of Medical Examiners

2000 Diplomat, American Board of Radiology in Diagnostic Radiology,

2001 Diplomat, American Board of Diagnostic Medical Sonographers, Registered Vascular Technologist

2002 Diplomat, American Board of Radiology, Certificate of Added Qualifications in Interventional Radiology

2005 Diplomat, American Board of Diagnostic Medical Sonographers, Registered Physician in Vascular Interpretation

2012-2022 Maintenance of Certification, American Board of Radiology, Certificate of Added Qualifications in Interventional Radiology

**Medical Licensures**

Inactive Washington DC

Inactive Virginia

Active Maryland

Inactive New York

**Military Service**

1991-1992 Captain, US Army Troop Medical Clinic, Republic of Korea

1992-1995 Captain, US Army Kimbrough Army Community Hospital, Ft. Mead, Maryland

**Employment History**

**Academic Appointments**

2001-2002 Assistant Professor, Department of Diagnostic Radiology and Nuclear Medicine, University of Maryland School of Medicine

2004-2012 Assistant Professor, Department of Diagnostic Radiology and Nuclear Medicine, University of Maryland School of Medicine

2012-present Associate Professor, Department of Diagnostic Radiology and Nuclear Medicine, University of Maryland School of Medicine

**Other Employment**

2000-2001 Virginia Radiology Associates

2002-2004 Washington Hospital Center

**Major Clinical Tasks**

2010-present Site Chief for Interventional Radiology, Good Samaritan Hospital, Baltimore, MD

2012-present Physician Liaison for the PICC Team, University of Maryland Medical Center, Baltimore, MD

**Professional Society Memberships**

1986-1995 General Member, American Medical Association

1986-1999 General Member, National Medical Association

1996-present General Member, American Roentgen Ray Society

1996-present General Member, Radiological Society of North America

1997-present General Member, Society of Cardiovascular and Interventional Radiology

1999-present General Member, American College of Radiology

2001-present General Member, American Registry for Diagnostic Medical Sonography

2002-2004 General Member, District of Columbia Radiological Society

2006-present General Member, South Eastern Angiographers Society

2007-present General Member, Eastern Radiology Society

**Honors and Awards**

1987 University of Virginia Short Term Training Fellowship

1988 Commonwealth of Virginia Graduate Fellowship

1989 Virginia State Medical Fellowship

1991 Exhibit Special Recommendation for Publication, The Radiologic Society of North America

1996 Kodak Award for Outstanding Resident-Fellow Presentation, The National Medical Association Annual Convention

1998 Roentgen Resident-Fellow Research Award, The Radiologic Society of North America

1999 Travel Scholarship, The Cardiovascular and Interventional Radiology Research and Educational Foundation

2000 Presenter of Featured Abstract, Society of Cardiovascular and Interventional; Radiology Annual meeting

2012 Selected as Baltimore Magazine “Top Doctor” in Interventional Radiology

2014 Top Doc award at Medstar Good Samaritan Hospital

2016 Elected to Fellowship in the Society of Interventional Radiology

**Clinical Activities**

**Clinical Expertise**

Board certified diagnostic radiologist

Additional board certification in the sub-specialty of interventional radiology

Board certification as Registered Physician in Vascular Ultrasound Interpretation

Clinical and research focus trauma, pelvic pain, renal cancer, and MRI guided interventions

**Scope of Clinical Practice**

2000-present Interventional radiology service

 ~1000 patients per year

2006-present Interventional radiology clinic

 ~250 patients per year

2010-present Good Samaritan Hospital Site chief

 Leadership/administrative role

**Development of Clinical Programs**

Uterine fibroid embolization

Minimally invasive treatment of chronic pelvic venous insufficiency

CT guided renal cryoablation

CT guided peripheral nerve block for chronic pelvic pain

Prostate embolization for Benign Prostatic Hyperplasia

**Development of Innovative Techniques**

Referral resource for difficult inferior vena cava filter removal

CT guided pulsed radio-frequency neurotomy for chronic pelvic pain

**Administrative Service**

**Institutional Service**

2010 - present Site Chief

 Interventional Radiology Service

 Good Samaritan Hospital

2012 - present PICC team Physician Liaison

 University of Maryland Medical Center

2013 – present Steering committee for the Advances in Vascular Surgery and Endovascular Therapy Meeting

 University of Maryland Medical Center

**National Service**

2002-present *Ad Hoc* Reviewer, *Journal of Vascular and Interventional Radiology*

2008-present *Ad Hoc* Reviewer, *Journal of CardioVascular and Interventional Radiology*

2015-present Society of Interventional Radiology Needs Assessment/Outcomes Measurement Subcommittee

**Teaching Service**

**Medical Student Teaching**

2001-present Introduction to interventional radiology lecture for fourth year medical students on the diagnostic radiology elective

**Resident and Fellow Teaching**

2001-present Didactic lecture series for diagnostic radiology residents

2001-present Case review conferences for diagnostic radiology residents

2001-present 2-5, Interventional radiology residents and fellows on the interventional radiology clinical service

2008-present Didactic lecture series for interventional radiology fellows

2010-present Didactic lecture series for the family medicine residents

**National Teaching**

2002 Workshop: Women’s Health. Society of Cardiovascular and Interventional Radiology annual meeting, April, 2002

2012 Workshop: Women's Health II: Pelvic Congestion & Fallopian Tube Recanalization. Society of Interventional Radiology annual meeting, San Francisco, CA March 24-29, 2012

2012 Moderator: Interventional Oncology abstract session. Global Embolization Symposium and Technologies, New York, NY May 2012.

2013 Workshop: Women's Health II: Pelvic Congestion & Fallopian Tube Recanalization. Society of Interventional Radiology annual meeting, New Orleans, LA April 13-18, 2013

2013 Workshop Coordinator: Non Vascular Urology Interventions. Society of Interventional Radiology annual meeting, New Orleans, LA April 13-18, 2013

2014 Workshop Coordinator: Nonvascular Urology Interventions. Society of Interventional Radiology annual meeting, San Diego, California, 25 April, 2014

2014 Workshop: Embolization III: Trauma Society of Interventional Radiology annual meeting, San Diego, California, 26, April, 2014.

2015 In-The-Classroom Session: Trauma: A Global Perspective. Society of Interventional Radiology annual meeting, Atlanta, GA, March 1, 2015.

2015 In-The-Clinic Workshop: Embolization III: Trauma. Society of Interventional Radiology annual meeting, Atlanta, GA, March 2, 2015.

**Grant Support**

9/1/2008-9/1/2012 Co-PI (1.0%) I provide interventional radiology expertise and guidance for image guided biopsy and ablation.

 Principal Investigator: Jaydev Desai

Robotic Haptic Feedback System for Bx/RFA of Breast Tumor under Continuous MRI

 NIH Grant Number: EB008713-01

 Total Direct Costs: $1,083,192

 Total Indirect Costs: $400,000

1/1/2006-1/1/2007 PI (1.0%)

Radiology Department Intramural Seed Grant

 UMMS

 Total Direct Costs: $5,770

**Patents, Inventions and Copyrights**

US Patent Application No. 11/957,777, Filed: 12.17.2007

Title: Inter-Communicator Process for Simultaneous MRI Thermography

and Radio Frequency Ablation. Drs. Richard, Zhang, and Gullapalli

US Patent Application No. 61/098,554, Filed: 09.19.2008

Title: Teleoperated Robotic System for Image Guided Radiofrequency

Ablation and Biopsy. Drs. Desai, Gullapalli, Kokes, Lister, Richard and Zhang

**Publications**

**Journal Articles (Peer Reviewed)**

1. McDaniel N, Rembold CM, **Richard III, HM**, Murphy R. Cyclic AMP relaxes swine arterial smooth muscle predominantly by decreasing cell potassium concentration. A.J. Physiol, 1991 439: 147-160.

2. Rembold CM, **Richard III, HM**, Chen XL. Sodium and potassium exchange, myoplasmic calcium concentration and contraction of arterial smooth muscle. Hypertension 1992 19:308-13.

3. **Richard III, HM**, Selby JB, Gay SB, Tegtmeyer CJ. Upper extremity venous thrombosis: Normal anatomy and collateral pathways. Radiographics 1992 12:527-534.

4. **Richard III, HM**, Thall EH, Mitty H, Gribetz, ME, Gelernt I. Desmoid tumor-ureteral fistula in Gardner-s syndrome. Urology 1997 , 49:135-168.

5. **Richard III, HM**, Stancato-Pasik A, Slaky BA, Mendelson DS.Pneumothorax and pneumomediastinum after laparoscopic surgery.Clinical Imaging 1997 21:337-339.

6. Stancato-Pasik A, Mitty HA, **Richard III, HM**, Eshkar N. Obstetric embolotherapy: Effect on menses and pregnancy. Radiology 1997 204(3): 791-793.

7. **Richard III, HM**, Cooper JM, Ahn J, Silberzweig JE, Emre S, Mitty HA. Transjugular intrahepatic portosystemic shunt in the management of Budd-Chiari syndrome in the liver transplant patient with intractable ascites: Anatomic considerations in the liver transplant patient. Journal of the society of Vascular and Interventional Radiology, 1998 9:137-140.

8. **Richard III, HM**, Parsons RB, Broadman KF, Shapiro RS, Yeh HC. Torsion of the fallopian tube: Progression of sonographic findings. Journal of Clinical Ultrasound, 1998 26:374-376.

9. **Richard III, HM**, Mitty HA, Lou WYW, Ahn J, Cooper JM. Hepatic arterial complications in liver transplant recipients treated with pre-transplantation chemoembolization. Radiology 2000 214:775-9.

10. **Richard III, HM**, Hastings GS, Boyd-Kranis RL, Murthy R, Radack DM, Santilli JG.Ostergaard C, Coldwell DM. A Randomized, Prospective Evaluation of the Tesio, Ash Split and Opti-flow Hemodialysis Catheters. J VascIntervRadiol 2001 12:431-435.

11. **Richard III, HM**, Coldwell DM, Boyd-Kranis RL, Murthy R, Van Echo DA. Pleurx7 tunneled catheter in the management of malignant ascites. J VascIntervRadiol 2001 12:373-375.

12. Murthy R, Arbabzadeh M Lund G, **Richard III, HM**, Levitin A, Stainken B. Percutaneous transrenal hemodialysis catheter insertion. J VascIntervRadiol 2002 Oct; 13(10):1043-6.

13. Murthy R, Arbabzadeh M, **Richard III, HM**, Levitin A, Lund G, Stainken B, Cooper C. Axillary artery traumatic pseudoaneurysm managed with WallgraftEndoprothesis. J VascIntervRadiol. 2003 Jan; 14(1):117-8.

14. **Richard III, HM**, Siskin G, Stainken BS. Uterine artery embolization with metalic gold labeled versus bland Embospheres J VascIntervRadiol 2004 April;15(4):406

15. **Richard III, HM**, Lowe SR, Malloy PC. Retrieval of Bard Recovery Filter from Left-sided Inferior Vena Cava. 2005 J vascIntRadiol 16: 1039-1041

16. **Richard III, HM**, Widlus D, Malloy PC. Percutaneous Fluoroscopically Guided Jejunostomy Placement The Journal of Trauma, Injury, Infection and Critical Care 2008 2008; 65:1072-1077

17. Mamery, H, Shanmuganathan K, Mirvis SE, Sliker CW, Miller LM, **Richard III, HM**, David Widlus DM, Haan JM . Correlation of Multidetector CT Findings with Splenic Arteriography and Surgery: Prospective Study in 392 Patients Journal of the American College of Surgeons 2008 2008 206(4):685-693

18. Widlus DM, Moeslein F, **Richard III, HM.** Evaluation of the Amplatzer Vascular Plug for proximal splenic artery embolization JVIR 2008 2008 19(5):652-656

19. Kokes R, Lister K, Gullapalli R, Zhang B, MacMillan A, **Richard III, HM**, Desai JP. Towards a teleoperated needle driver robot with haptic feedback for RFA of breast tumors under continuous MRI. 2009 Med Image Anal. Jun;13(3):445-55

20. **Richard III, HM**, Widlus DM, Scalea TM. Inferior vena cava filters in trauma: balancing pulmonary embolism prevention with the risk of deep venous thrombosis. J Trauma 2010 69(4):1003; author reply 1003-4

21. Suson KD, **Richard III, HM**, Phelan MW. Cryoablation of Renal Fossa Recurrence After Radical Nephrectomy. J Endourol 2011 Apr;25(4):559-62.

22. Atluri S, **Richard III, HM**, Shanmuganathan K. Optimizing multidetector CT for visualization of splenic vascular injury. Validation by splenic arteriography in blunt abdominal trauma patients. EmergRadiol 2011 18(4):307-12

23. **Richard III HM**, McMillan A, Staats PN, d'Othee BJ. Real-time MR imaging guidance for percutaneous core biopsy of US- and CT-negative lesion. 2012 J Vasc Interv Radiol. Nov;23(11):1539-42.

24. **Richard III HM**. Removal of a TrapEase Inferior Vena Cava Filter for Chronic Abdominal Pain 2 Years after Implantation. 2013 J Vasc Interv Radiol. Sep;24(9):1419-21.

25. **Richard III, HM**, Marvel, RP. CT guided pudendal nerve block. Open Journal of Radiology, 2013; 3:41-44

26. Saksobhavivat N, Shanmuganathan K, Chen HH, DuBose JJ, **Richard III HM**, Khan MA, Menaker J, Mirvis SE, Scalea TM. Blunt Splenic Injury: Use of a Multidetector CT–based Splenic Injury Grading System and Clinical Parameters for Triage of Patients at Admission. 2015 Radiology: 274(3):702-711

**Journal Articles (Non-Peer Reviewed)**

1.  **Richard III, HM**. Clinical evaluation prior to fallopian tube recanalization and ovarian vein embolization. JVIR 2002, 13;S248-252.

2. **Richard III, HM.** Perirenal Transplant Fluid Collections Semin Intervent Radiol 2004 21: 235-237

3. Malloy PC, **Richard III, HM.** Thoracic angiography and intervention in trauma Radiology clinics 2006 44; 239-249

4. **Richard HM**. Primum non nocere. The Cold Freeze for This Unease? JVIR 2013; 24: 219 -220.

**Book Chapters**

1. **Richard III, HM.** Radiofrequency Ablation, In: Thyroid Cancer; A guide for patients, Baltimore, MD: Keystone Press, Inc., 2004, pp 233

2. **Richard III, HM.** Radiofrequency ablation, In: Thyroid Cancer: A Guide for Patients, Second addition, Baltimore, MD: Keystone Press, Inc, 2010, pp 303

3 **Richard III, HM.** Pelvic Congestion Syndrome, In: Embolization Therapy; Principles and Clinical Applications. Phildelphia, PA, Wolters Kluwer Inc. 2015, pp 544.

**Major Invited Speeches or Presentations**

**Exhibits**

1. **Richard HM, III**, Selby JB, Gay SB, Tegtmeyer CJ. Upper extremity venous thrombosis: Normal anatomy and collateral pathways American Roentgen Ray Society annual meeting, May, 1990

2. **Richard III, HM**, Selby, JB, Gay SB, Tegtmeyer C J. Upper extremity venous thrombosis: Normal anatomy and collateral pathways Radiographic Society of North America annual meeting, November, 1991

3. Silbersweig JE, **Richard III, HM**, MittyHA. Indwelling transfemoral central venous catheters in patients with inferior vena cava thrombus Association of University Radiologist annual meeting, April, 1997

4. **Richard III, HM**, Silberzaeig JE, Tuite C, Lorberboym M, Mitty HA, Cooper JM, AhnJ. Correlation of radiopharmaceutical uptake with tunnel infection in patients with tunneled central venous catheters Association of University Radiologist annual meeting, April, 1997

5. **Richard III, HM**, Coldwell DM, Hastings GS, Boyd-Kranis RL, Murthy R, Radack DM, Santilli JG, NovakZ. Pleurex tunneled catheter in the management of malignant ascites Presented at the Society of Cardiovascular and Interventional Radiology for the annual meeting, March, 2000

6. **Richard III, HM**, Widlus DM, and Malloy PC. Percutaneous Fluoroscopically Guided Jejunostomy Placement Society of Interventional radiology for the annual meeting, March, 2006

7. **Richard III, HM**, Zhang B, Gullalli RP.MRI Thermography Guidance for Radiofrequency Ablation SIR, Seatle, WA March 1-6, 2007

8. **Richard III, HM**, Zhang B, Gullapalli RP, Malloy PC. Heating and Artifact Emanating from Embolization Coils During MR Imaging Examination SIR, Seatle, WA March 1-6, 2007

9. Iliescu B, **Richard III, HM**, Widlus W, Haskal Z, Kim M, Moeslein F, Elsayed S. Retrievable Inferior Vena Cava Filter Review: Routine and Difficult Removal Techniques. SIR Annual, San Diego, CA, March, 2009

10. Atluri S, **Richard III, HM**, Kyere S, Chen JJ, Shanmuganathan K, Seth R. Blunt Splenic Injury: Review of Current Imaging Techniques, Grading Systems, and Endovascular Treatments SIR Annual, San Diego, CA, March, 2009

11. **Richard III, HM**, Marvel RP.CT-Guided Pudendal Nerve Block Society of Interventional Radiology annual meeting, Chicago, Il, March 25-31, 2011

12. Rucks AT, Haskal Z, **Richard HM**, Patel RS. Single session management of SVC syndrome and complex central vein occlusion. Society of Interventional Radiology annual meeting, San Francisco, CA March 24-29, 2012

13. Janne D’Othee B, Haskal Z, Rodgers A, **Richard HM**, Iliescu B. Influence of self-reporting metric (SRM) on IR physicians’ documentation of adverse events and complications. Society of Interventional Radiology annual meeting, San Francisco, CA March 24-29, 2012

14. Kyere SK, **Richard HM**, Patel RS, Phelan M, Haskal Z. Increasing the margin of safety for percutaneous thermal ablation using hydro-dissection. Global Embolization Symposium and Technologies, New York, NY May 2012.

15. Chen L , Marvel RP, **Richard HM**. Analysis of ischial spine orientation in patients with pudendal compression neuropathy – a study using 3d computed tomography. Society of Skeletal Radiology annual meeting. San Antonio, TX March 17-20, 2013

16. **Richard HM**, Marvel RP. CT-guided diagnostic and superior hypogastric plexus block and alcohol ablation treatment for nonmalignant chronic pelvic pain. Society of Interventional Radiology annual meeting, New Orleans, LA April 13-18, 2013

17. **Richard HM**, Marvel RP. Pulsed Radiofrequency Treatment for Pudendal Neuralgia. International Pelvic Pain Society annual meeting, Orlando, FL October 17-20, 2013.

18. **Richard HM**, Marvel RP. CT-Guided Diagnostic Superior Hypogastric Plexus Block and

 Alcohol Ablation Treatment for Nonmalignant Chronic Pelvic Pain. International Pelvic Pain Society annual meeting, Orlando, FL October 17-20, 2013.

**Invited Speeches**

1. Uterine Fibroid Embolization Cordis Endovascular Updates Conference, May 12, 2001

2. Pelvic Congestion Syndrome Penn-Hopkins-Maryland Conference on Interventional Radiology, June 1, 2001

3. Setting up and operating the non-invasive vascular laboratory South Eastern Angiographers Society - Annual meeting, October, 2004

4. Beyond fibroids: Treating pelvic congestion South Eastern Angiographers Society - Annual meeting, October, 2004

5. Intravascular ultrasound: Is it worth the hassle South Eastern Angiographers Society - Annual meeting, October, 2004

6. MRI Guided Radiofrequency Ablation Eastern Radiology Society, Kingsmill, VA, October 12, 2006

7. Radio-Frequency Ablation of Breast Cancer 2006 Vail Creative Concepts Meeting, Vail, CO, December 3, 2006

8. Percutaneous Jejunostomy Revisited Eastern Radiological Society Scientific Program, August 26 – 31, 2007

9. Advancement in Managing Malignant Ascites Eastern Radiological Society, August 26 – 31, 2007

10. Non operative management of liver trauma with transcatheter embolization Eastern Radiology Society, Southern Pines, N.C., April 22, 2009

11. "Cryotherapy: Beyond the Kidney" South Eastern Angiography Society, Charleston, S.C., 2009

12. "Interventional Radiology In Trauma: Out of the Pelvis Into the Abdomen" South Eastern Angiography Society, Charleston, S.C., 2009

13. Embolic Agents: Continuing to Evolve Eastern Radiological Society, Tucson, AZ, 2010

14. Pelvic trauma: Blunt & Penetrating Global Embolization Symposium and Technologies, San Francisco, CA, 2010

15. Pelvic Congestion Syndrome The Sanctuary of Endovascular Therapies Conference, Meeting Kiawah Island SC February 24-26, 2011

16. Endovascular maintenance and salvage of dialysis grafts. Advances in Vascular Surgery and Endovascular Therapy. May 12-14, 2011.

17. MRI guidance for targeting. Global Embolization Symposium and Technologies, New York, NY May 2012.

18. Splenic Trauma: The data on the level of embolization. Global Embolization Symposium and Technologies, New York, NY May 2012.

19. A time to kill: Ablation techniques deconstructed. Eastern Radiological Society, Napa CA, May 2012.

20. Interventional oncology vs. Liver tumors: What’s in the quiver. Eastern Radiological Society, Napa CA, May 2012.

21. Uterine Fibroid Embolization: An Alternative to Surgery. ABC’s of Interventional Radiology; Maryland Nurses Association, October 31, 2012

22. High intensity focused ultrasound- Where is it going? Eastern Radiological Society Scientific Program April 21 - 25, 2013

23. Uterine Fibroid Embolization. Maryland Ultrasound Society, May 4, 2013

24. Retrieval of the Mal-positioned IVC Filter. Advances in Vascular Surgery and Endovascular Therapy. May 9-12, 2013.

25. Coiling Principles for the Vascular Surgeon. Advances in Vascular Surgery and Endovascular Therapy. May 9-12, 2013.

26. Interventional Radiology for Chronic Pelvic Pain. Grand Rounds; Department of Obstetrics and Gynecology, St. Joseph Medical Center, Towson, MD. September 26, 2013.

27. Trauma and Interventional radiology: The role of angiography in Trauma. University of MD Medical Center Radiology Nursing Conference. Baltimore, MD, February 5, 2014.

28. The new initiatives of Trauma Management. Sanctuary of Endovascular Therapy Conference, Kiawah Island, S.C. February 22, 2014.

29. IR in Trauma. Eastern Radiology Society Meeting. Wild Dunes, S.C. April 9, 2014.

30. Retrieval of the Malpositioned and Old IVC Filter. Advances in Vascular Surgery and Endovascular Therapy program, Baltimore, MD, May 8-10, 2014.

31. CT Guided and Fluoroscopy Guided Nerve Blocks. Pudendal Neuralgia Conference Waltham, MA. September 27, 2014.

32. Bleeding in Trauma: Is laparotomy going the way of the Dodo? Sanctuary of Endovascular Therapy Conference, Kiawah Island, S.C. February 21, 2015.

33. UAE & Women’s Health. AVIR annual conference, Atlanta, GA. 3 March, 2015.

34. Diagnosis and Management of Endoleaks after Abdominal Aortic Aneurysm Repair. Eastern Radiology Society annual meeting. Palm Springs, CA. 30 April, 2015.

35. Prostate arterial embolization (PAE) for benign prostatic hypertrophy (BPH) University of MD Medical Center Radiology Nursing Conference. Baltimore, MD, May 19, 2015

36. Retrieval of the Malpositioned and Old IVC Filter. Advances in Vascular Surgery and Endovascular Therapy, Baltimore Maryland, August 20-22, 2015.

37. Diagnosis and Management of Endoleaks After Abdominal Aortic Aneurysms (AAA). University of MD Medical Center Interventional Radiology Nursing Conference. Baltimore, MD, March 15, 2016

38. Management of Visceral Aneurysms. Eastern Radiological Society, annual Grand Cypress Orlando, Florida, April 10-14, 2016

39. Caval Recanalization Techniques: New Devices to Treat Large Venous Occlusive Disease Advances in Vascular Surgery and Endovascular Therapy, Baltimore, MD, May 12-14, 2016

**Presentations**

1. **Richard III, HM.** Pneumothorax and pneumomediastinum after laparoscopic surgery National Medical Association Meeting, July, 1996

2. **Richard III, HM.** Hepatic arterial complications in liver transplant recipients treated with pre-transplantation chemoembolization Radiologic Society of North America annual meeting, November, 1997

3. **Richard III, HM.** Outcome of Schon duo-flow hemodialysis catheter insertion Society of Cardiovascular and Interventional Radiology annual meeting, March, 1998

4. **Richard III, HM.** Hepatic arterial chemoembolization for hepatocellular carcinoma in liver transplant candidates Cardiovascular and Interventional Radiology annual meeting, March, 1998

5. **Richard III, HM.** A randomized, prospective evaluation of the Tesio, Ash Split and Bard Opti-flow hemodialysis catheters Society of Cardiovascular and Interventional Radiology annual meeting, March, 2000

6. **Richard III, HM.** Uterine artery embolization with metalic gold labeled versus bland Embospheres Society of Cardiovascular and Interventional Radiology annual meeting, April, 2002

7. Atluri S, **Richard III, HM**, and Marvel R . Pelvic Congestion Syndrome Treated with Ovarian and Internal Iliac Vein Embolization Society of Interventional Radiology annual meeting, Washington, D.C., 2008

8. Atluri S, **Richard III, HM**, Shanmuganathan K. Optimizing Multidetector CT for Visualiation of Splenic Vascular Injury. Validation by Splenic Arteriography in Blunt Abdominal Trauma Patients. SIR annual, San Diego, CA, March, 2009

9. **Richard III, HM,** Atluri S, Shanmuganathan K, Stein D, Widlus DM, Iliescu B, Kim M. Non-Operative Management of Blunt Trauma to the Liver by Transcatheter Embolization: Risk Factors for Late Re-Bleeding SIR annual, San Diego, CA, March, 2009

10. **Richard III, HM**, Marvel R. CT-guided pudendal nerve block SIR annual, San Diego, CA, March, 2009

11. **Richard III, HM**, Haskal Z, Moeslein FM, Brevard S, Scalea TM. Skin and Muscle complications in pelvic trauma patients undergoing transcatheter embolization: Are there increased complications? Society of Interventional Radiology, Tampa, FL, 2010

12. Morgan T, **Richard HM,** Marvel RP. Long term outcomes in treatment of pelvic congestion syndrome with venous embolization. Society of Interventional Radiology annual meeting, San Francisco, CA March, 2012