

## CURRICULUM VITAE

**NAME:** Johnson, Matthew S.

### **EDUCATION:**

**UNDERGRADUATE:** University of Michigan, Honors Program, 1979-1983  
University of Michigan, Liaison Program, 1981-1983

**GRADUATE:** University of Michigan, MD, 1983-1986

### **POSTDOCTORAL:**

Loyola University (Chicago), Residency in General Surgery, 1986-1988

Loyola University (Chicago), Residency in Diagnostic Radiology, 1988-1992

Johns Hopkins University School of Medicine, Fellowship in Interventional Radiology  
1992-1994

### **ACADEMIC APPOINTMENTS:**

July 1, 1992-  
June 30, 1994           Instructor, Interventional Radiology Section,  
The Johns Hopkins Hospital

July 1, 1994-  
June 30, 2000           Assistant Professor of Diagnostic Radiology,  
Indiana University School of Medicine

July 1, 2000-  
June 30, 2007           Associate Professor of Diagnostic Radiology,  
Indiana University School of Medicine

April 24, 2001-  
October 7, 2008        Chief, Vascular and Interventional Radiology,  
Indiana University School of Medicine

April 24, 2001-  
October 7, 2008        Chief, Vascular and Interventional Radiology  
Clarian Hospitals

March 1, 2006-  
June 30, 2007           Medical Director, Indiana University Medical Group (Specialty Care),  
Clarian North Medical Office

July 1, 2007-  
Present                 Professor of Radiology and Surgery  
Indiana University School of Medicine

August 13, 2012-  
Present                 Director, Interventional Oncology  
Indiana University Health

**ACADEMIC APPOINTMENTS:** Continued

February 1, 2016- Present      Director, Clinical Research  
Department of Radiology and Imaging Sciences,  
Indiana University Health  
October 6, 2016- Present      Gary J Becker Professor of Radiology Research,  
Indiana University School of Medicine

**HOSPITAL AND OTHER APPOINTMENTS:**

1992-1994      The Johns Hopkins Hospital  
1994-2016      Richard L. Roudebush Veteran's Administration Medical Center  
1994-present      Indiana University Hospital  
1994-present      Riley Children's Hospital  
1994-present      Sidney and Lois Eskenazi (formerly Wishard Memorial) Hospital  
2001-present      Methodist Hospital  
2004-present      Indiana University West Hospital  
2005-present      Indiana University North Hospital

**SPECIALTY BOARD STATUS:**

Certificate of Added Qualifications in Vascular and Interventional Radiology,  
American Board of Radiology, 1995, 2005, 2015  
Diplomate, American Board of Radiology, 1992  
Diplomate, National Board of Medical Examiners, 1987

**LICENSURE AND CERTIFICATION:**

Indiana Medical Licensure #01042315  
Certified, Conscious Sedation  
Certified, Advanced Cardiovascular Life Support

**PROFESSIONAL ORGANIZATIONS:**

Radiological Society of North America, 1988-2013  
American Roentgen Ray Society, 1990-2003  
American College of Radiology, 1991- 2011  
Society of Interventional Radiology, 1992- present  
Indianapolis Angio Club, 1994-2008  
American Medical Association, 1994-2004, 2013- 2014, 2017-present  
American Heart Association:  
    Council on Cardiovascular Radiology, 1994-2006  
Association of University Radiologists, 1997-2006  
Association of Program Directors in Radiology, 1997-1999  
European Society of Radiology, 2008- present  
Cardiovascular and Interventional Radiological Society of Europe, 2008- present

## **HONORS AND AWARDS:**

Certificate of Merit, American Roentgen Ray Society Annual Meeting, 1992  
Distinguished Reviewer Award, Journal of Vascular and Interventional Radiology, 1995  
Distinguished Reviewer Award, Journal of Vascular and Interventional Radiology, 1996  
Distinguished Reviewer Award, Journal of Vascular and Interventional Radiology, 1997  
Outstanding Faculty, Society of Cardiovascular and Interventional Radiology Annual Meeting, 1997, 1998  
*Radiology* Editor's Recognition Award for Reviewing "with Distinction," 1997  
*Radiology* Editor's Recognition Award for Reviewing "with Special Distinction," 1998, 1999, 2000, 2001, 2002  
Accepted as a Fellow, Society of Interventional Radiology, 2003  
Co-author with Chad Kuhlman, MD (radiology resident), whose paper presented at the Campbell-Klatte Research Symposium was awarded first place in oral presentations, 2002  
Mentor/Co-author with Farid Aladham, MD (interventional radiology research fellow), whose paper presented at the Campbell-Klatte Research Symposium was awarded second place in oral presentations, 2002  
Castle Connolly Guide to *America's Top Doctors*, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019  
The Best Doctors of America® Database, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019  
*Indianapolis Monthly magazine* Top Doctor, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019  
Co-author, Radiological Society of North America Excellence in Design Award for "HCC <sup>90</sup>Y" poster, 2007  
2009 Edition of *Who's Who in America*  
Special Recognition Award for Excellent Support of the Clinical Mission of the GI Division, 2009  
2009-2010 Top Radiology Clinical Faculty Teacher to Medical Students  
2009-2010 Top Radiology Noon Conference Lecturer  
2012-2013 Top Radiology Teacher of Medical Students

## **TEACHING ACTIVITIES:**

Daily fellow, resident, and medical student instruction in the theory and practice of interventional radiology. Daily rounds include presentation of teaching cases, discussion of procedures, and discussion of patient care.

Scheduled lectures to radiology fellows (Interventional Radiology Fellows Lecture Series):

1. Radioembolization, 1 hour/year
2. Biliary interventions, 1 hour/year
3. Thromboembolism, 1 hour/year
4. Critical evaluation of the literature, 1 hour/year

Radiology Residents:

Case conferences, 4 hours/year

Medical student teaching:

Course X802 Biomedical Paper;

1. Bryan Hankins, mentor, 1995/96. Hankins BC, **Johnson MS**, Lehman GA. Case Report: Combined percutaneous and endoscopic stent placement for an obstructed roux limb after pancreaticojejunostomy for chronic pancreatitis. *JVIR* 1997; 8(3):465-468.
2. Terry Wilkin, mentor, 1996/97. Wilkin T, **Johnson MS**, Dalsing MC. Distal embolization from an unsuspected external iliac artery pseudoaneurysm: diagnosis during urokinase infusion. *JVIR* 1997; 8:1039-1042.
3. Kenneth Stookey, mentor, 1997/98. Stookey KR, **Johnson MS**. Case 0698 10, "Maintenance of hemodialysis access via recanalization of an occluded IVC," *SCVIR Internet Case Club*, Haskal ZJ, Editor, June, 1998. <http://www.scvir.org>

CME accredited conferences:

1. Vascular Conference  
Weekly, 1994-2004  
Biweekly, 2004-2005  
Conference co-director (with S. Trerotola, MD), 1995-2001  
Conference director, 2001-2005
2. Biweekly Dialysis Access Conference, 1995-2006  
Conference co-director (with S. Trerotola, MD), 1995-2001  
Conference co-director (with G. McLennan, MD), 2001-2006
3. Weekly Multidisciplinary Liver Cancer Conference, 2003-present

**TEACHING ACTIVITIES:** Continued

National/International Level:

Faculty, Society of Interventional Radiology Annual Meeting, 1994 - present  
Faculty, American Heart Association Annual Scientific Sessions, 1997-1999, 2016  
Faculty, Radiological Society of North America Annual Meeting, 1997-1999, 2016 - present  
Faculty, Advanced Interventional Management, 2003, 2004, 2005, 2008, 2010 - present  
Faculty, International Symposium on Endovascular Therapy, 2004, 2006, 2009, 2013  
Faculty, Global Embolization Symposium and Technologies, 2008 - present  
Faculty, Vascular Interventional Advances (VIVA), 2009, 2011-2013  
Course Director, Society of Interventional Radiology Radioembolization Course, 2010-2015  
Faculty, Society of Interventional Radiology Radioembolization Course, 2016-present  
Faculty, Congress on Interventional Oncology, 2013-2016  
Faculty, Digestive Disease Interventions, 2014-present  
Faculty, Japanese Society of Interventional Radiology, 2015, 2018  
Faculty, World Congress of Interventional Oncology, 2018  
Faculty, Society of Interventional Radiology Advanced Therapies in Venous Interventions Course, 2018  
Faculty, Spectrum, 2018

Teaching at CME courses – see Professional Activities\*

## **PROFESSIONAL SERVICE:**

### 1. Professional Discipline:

National and International:

*Radiology*

Consultant to the Editor, 2008-2010

Associate Editor, 2003-2008

Manuscript reviewer, 1996-present

Radiological Society of North America:

Member, Public Information Committee, 2009-2013

Roster of Distinguished Scientific Advisors for grant reviews, 2000-2007

Grant reviewer, Research Resident Program, 2001–2007

Grant reviewer, Research Fellow Program, 2001–2007

Grant reviewer, Scholar Program, 2001–2007

Grant reviewer, Seed Grant Program, 2001–2007

Research and Education Foundation:

Grant reviewer, 1998-2006

*Journal of Vascular and Interventional Radiology*

Member, Editorial and Advisory Board, 1998-2009

Manuscript reviewer, 1994-present

*American Journal of Roentgenology*

Manuscript reviewer, 1997-2003

*Cardiovascular & Interventional Radiology*

Manuscript reviewer, 2009-2016

Association of University Radiologists, 1997-2011

Abstract Reviewer for Scientific Program, 2000-2011

Member, Scientific Program Committee, 2004-2006

Society of Interventional Radiology:

Secretary, 2019- present

Treasurer, 2016-2019

Membership Services Councilor, 2011-2016

Delegate, Corporate Ambassadors Program, 2014-present

Chair, FDA Committee & SIR-FDA Device Forum, 2011-2013

Member, SIR Foundation Research Education Division, 2010-2016

Chair, 2009 Annual Meeting

Chair, 2008 Annual Meeting Scientific Sessions

Member, Annual Scientific Meeting Research Award Committee, 2008-2016

Reviewer, Foundation Resident/Fellow and Dr. C. Cope Medical Student Research Awards, 2008-2016

Member, Exhibitor Advisory Committee, 2008-2010

Member, SIR-CIRSE Liaison Committee, 2008-2010

Chair, Annual Meeting Poster Award Committee, 2008

**PROFESSIONAL SERVICE:** Continued

Society of Interventional Radiology Continued:

Chair, 2007 Annual Meeting Workshops  
Member, Peripheral Arterial Disease Task Force, 2006-2009  
Abstract Reviewer, Annual Meeting, 2005-2015  
Member, FDA committee & SIR-FDA Device Forum, 2004-2007, 2013-present  
Grant Reviewer, Ernest J. Ring Academic Development Grant Program, 2003  
Grant Reviewer, Cardiovascular and Interventional Radiology Research and Education Foundation Pilot Research Grant, 2002-2003  
Member, Foundation Planning Retreat, July 2001  
Member, Leadership Legislative Conference, June 2001  
Grant Reviewer, Academic Transitional Award, 2000-2009  
Abstract Reviewer, Gene Therapy and Local Drug Delivery Symposium, 1999  
Guest Editor, Internet Case Club, May 1998  
Member, Research Committee, 1996-2003  
Member, Fellowship Director Group, 1996-1999  
Member, Internet Subcommittee, 1996-1997  
Member, Educational Materials Committee, 1995-2000

Society of Interventional Radiology/Society of Vascular Surgery (SVS)/FDA  
Inferior Vena Cava Filter Foundation

“Predicting Safety and Efficacy of Inferior Vena Cava Filters”  
(PRESERVE) Study Steering Committee Co-Chair, 2011-present

American Heart Association

Peer reviewer, ACC-AHA Guidelines for the Management of Peripheral Arterial Disease (Lower Extremity, Renal, Mesenteric and Abdominal Aortic), 2004  
Peer reviewer, ACC/AHA/ACP-ASIM Peripheral Vascular Disease Clinical Competence Statement, 2003  
Peripheral Vascular Imaging and Intervention Committee, 2000- 2006  
Selection Committee, Judkins Award, 1999  
Abstract reviewer, Annual Scientific Sessions, 1998

*Gastrointestinal Endoscopy*

Manuscript reviewer, 2010-2013

Lifeline Foundation

Abstract reviewer, Lifeline Foundation Research Initiatives Conference, 1999-2001

American College of Radiology Imaging Network

Member, Vascular and Interventional Radiology Committee, 1999-2003  
Protocol reviewer, 1999-2001

**PROFESSIONAL SERVICE:** Continued:

Cardiovascular and Interventional Radiological Society of Europe  
Corresponding Member, 2009-2016; 2018-present  
Abstract Reviewer, 2003 and 2005  
National Kidney Foundation  
Editorial Board, 2007-2012  
*Hepatology*  
Manuscript reviewer, 2013-2016  
Dutch Cancer Society (KWF Kankerbestrijding)  
Grant application reviewer, 2014  
GEST Annual Meeting  
Abstract Reviewer, 2016

2. Patients/Clients and Related Clinical Institutions:  
Daily care of patients on the Interventional Radiology Services at the hospitals listed above.

**UNIVERSITY SERVICE:**

3. University Administrative Service:

- a. Department:

Director, Vascular and Interventional Radiology Fellowship Program, 1996-1999  
Member, Resident Selection Committee, 1996-2002  
Member, Radiology Executive Research Committee, 1999-2001  
Chief, Vascular and Interventional Radiology, 2001-2008  
Director, Interventional Oncology, 2012-present  
Director, Clinical Research, 2016-present

- b. School:

Institutional Review Board:  
Chair IRB-05, 2001-2014  
Member IRB-04, 1998-2001  
Alternate IRB-02 & IRB-04, 2001-2014  
Member IRB Executive Committee, 2001-2014  
Member, Investigation Committee, 2015- present  
Alternate, Clarian Peripheral Vascular Planning Committee, 1998-1999  
Grant reviewer, Indiana Center for Vascular Biology and Medicine, 2001  
Member, Clarian Credentials Committee, 2002-2004  
Member, Clarian Focus Improvement Team, 2004-2008  
Member, IUMG Clarian North Steering Committee, 2005-2007



## **\* OTHER PROFESSIONAL ACTIVITIES:**

### **PATENTS:**

U.S. Patent: Time-Release Localized Drug Delivery by Percutaneous Administration. Patent Number 5,893,839, issued April 13, 1999.

U.S. Patent: Hypodermic Needle for Percutaneous Drug Delivery. Patent Number 6,200,302, issued March 13, 2001.

U.S. Patent: Thrombectomy Treatment System and Method, Co-inventor Stephen Lalka, M.D., Patent Number 6,719,717, issued April 13, 2004.

Nationalized PCTs: All derived from PCT publication number: WO 0137802; Sustained Percutaneous Delivery of a Biologically Active Substance, Co-inventor Gordon McLennan, M.D.:

Canadian Patent application 2,396,431, publication number CA2,396,431, date May 31, 2001.

European Patent application 00982263.6 - 2114

### **INVITED SPEAKER:**

Chesapeake Interventional Radiology Society, Baltimore, Maryland, 1994, "Local Administration of Heparin via Polymer Matrix"

Indiana University Vascular Diseases for the Family Practitioner and Internist Conference, Indianapolis, Indiana, 1995, "Angioplasty"

Society of Cardiovascular and Interventional Radiology Annual Meeting, Fort Lauderdale, Florida, 1995:

Abscess Drainage Workshop

Biopsy Workshop

Moderator, American Heart Association Scientific Sessions, Dallas, Texas, 1995, "Restenosis"

Society of Cardiovascular and Interventional Radiology Annual Meeting, Seattle, Washington, February 1996:

Thoracic Intervention Workshop

Dialysis Access Workshop

Embolization Workshop

Second Annual Ross Enteral Device Conference, Carefree, Arizona, 1996, "Fluoroscopically Guided Percutaneous Gastrostomy"

Indiana University Hematology/Oncology Fellows Lecture Series, Indianapolis, Indiana, 1996, "Interventional Care of the Patient with Cancer"

Indiana University School of Medicine Continuing Medical Education Venous and Hemodialysis Access Symposium, Keystone, Colorado, February 1997:

"Catheter Access for Hemodialysis"

"Peripherally Inserted Central Catheters"

"Venous Access Planning"

Society of Cardiovascular and Interventional Radiology Annual Meeting, Washington, DC, March 1997:

Dialysis Access Workshop

Venous Access Workshop

**\*PROFESSIONAL ACTIVITIES:**

**INVITED SPEAKER:** Continued

Indiana University Hospitals Operating Room Staff Lecture Series, Indianapolis, Indiana, July 1997, "Therapeutic Embolization"

American Heart Association Scientific Sessions, Orlando, Florida, November 1997,  
"The Physical and Noninvasive Examination of the Patient with Peripheral Vascular Disease"

Radiological Society of North America Annual Meeting, Chicago, Illinois, November 1997,  
'How To' Workshop: Dialysis Access Thrombectomy and Thrombolysis

Indiana University School of Medicine Continuing Medical Education Venous and Hemodialysis Access Symposium, Keystone, Colorado, February 1998:

Course Co-Director

"Venous Access Planning"

"Catheter Access for Hemodialysis

Society of Cardiovascular and Interventional Radiology Annual Meeting, San Francisco, CA, March 1998:

Biliary Interventions Workshop

Dialysis Access Workshop

Venous Access – Introduction (Hands On) Workshop

Plenary Session: "Pulmonary Angiography: Current Techniques and Complications"

Association of Vascular and Interventional Radiographers Annual Meeting, San Francisco, CA, March 1998, "Pulmonary Embolus: Diagnosis and Treatment"

State University of New York, Radiology Grand Rounds, Stony Brook, New York, May 1998:

"Diagnosis of Pulmonary Embolus"

State University of New York, Joint Radiology and Nephrology Grand Rounds, Stony Brook, New York, May 1998: "Mechanical Thrombectomy of Dialysis Conduits"

University of Pennsylvania Interventional Retreat, Skytop, Pennsylvania, June 1998:

"Venous Thromboembolic Disease"

"Dialysis Access"

Clarian Health, Indianapolis, Indiana, October 1998, Update on Venous Access: Devices, Management and Complications, "Hemodialysis Catheters"

Indiana University Mini-Medical School, Indianapolis, Indiana, October 1998: "Minimally Invasive Treatment of Abdominal Aortic Aneurysms"

Southeastern Angiographic Society Annual Meeting, White Sulphur Springs, West Virginia, October 1998:

"Mechanical Thrombolysis of Dialysis Conduits"

"Diagnosis of Venous Thromboembolic Disease"

"Catheter Access for Hemodialysis"

Moderator, American Heart Association Sunday Morning Program, Dallas, Texas, November 1998: "Carotid Disease, Diagnosis and Therapy"

American Heart Association, Dallas, Texas, November 1998, Lower Extremity Arterial and Venous Disease: Imaging and Intervention Cardiovascular Seminar, Arterial Interventions: "Lower Extremities"

## **PROFESSIONAL ACTIVITIES:**

### **INVITED SPEAKER:** Continued

Radiological Society of North America Annual Meeting, Chicago, Illinois, November 1998,  
'How To' Workshop: Dialysis Access Thrombectomy and Thrombolysis

Vascular Imaging Categorical Course: "Noninvasive Studies in Lower Extremity  
Occlusive Disease"

Indiana University School of Medicine Continuing Medical Education Venous and Hemodialysis  
Access Symposium, Keystone, Colorado, February 1999:

"Mechanical Thrombectomy of Dialysis Conduits"

"Diagnosis of Venous Thromboembolic Disease"

Society of Cardiovascular and Interventional Radiology Annual Meeting, Orlando, Florida,  
March 1999:

Moderator, Gastrointestinal Intervention Scientific Sessions

Coordinator and Faculty, Gastrointestinal Interventions Workshop

Faculty, Venous Access – Introduction (Hands On) Workshop

Plenary Session: "Gastrostomy and Gastrojejunostomy"

Categorical Course: "Venography and Pulmonary Arteriography"

Speaker, Cardiovascular and Interventional Radiology Research Education Foundation  
Breakfast, "Percutaneous Periadventitial Heparin Delivery Via Crosslinked  
Liquid Polymer"

Association of Vascular and Interventional Radiographers Annual Meeting, Orlando, Florida,  
March 1999, "Gastrostomy and Gastrojejunostomy"

The Extreme IR Interventional Course for the Interventional Adventurer, Jackson Hole,  
Wyoming, September 1999:

"Superficial Femoral Artery: Can Endovascular Patencies be Improved? Stents, Grafts,  
Radiation"

"Why We Should Perform More Pulmonary Arteriograms for PE Rather than CTA:  
Critical Analysis"

"Pulmonary Emboli: Getting the Big Clot Out"

Case Presentations:

"Retrieval of a Large Wallstent from the Heart"

"Vein-covered Stent Graft as Treatment of a Congenital Portocaval Fistula"

Indiana University Surgical Grand Rounds, Indianapolis, Indiana, September 1999, "Diagnosis  
of Venous Thromboembolic Disease"

Indiana University Pulmonary Medicine Noon Conference, Indianapolis, Indiana, September  
1999, "Diagnosis of Venous Thromboembolic Disease"

Visiting Professor, Penn State University, Hershey, Pennsylvania, October 1999:

Radiology Grand Rounds: "Diagnosis of Venous Thromboembolic Disease"

Vascular Surgery/Interventional Radiology Conference: "Abdominal Aortic Stent  
Grafts"

Radiology Resident Lectures:

"Noninvasive Evaluation of Peripheral Vascular Arterial Disease"

"Genitourinary Interventions"

**\*PROFESSIONAL ACTIVITIES:**

**INVITED SPEAKER:** Continued

7<sup>th</sup> Annual Symposium on Current Issues and New Techniques in Interventional Radiology, New York, New York, November, 1999:

“Changes in Our Practice Resulting from the DOQI Guidelines”

“Why Do Grafts Fail: What We Know and What We Don’t”

Floyd Memorial Hospital Tumor Board, New Albany, Indiana, October 1999, “Central Venous Access”

Radiological Society of North America Annual Meeting, Chicago, Illinois, November 1999,

‘How To’ Workshop: Dialysis Access Thrombectomy and Thrombolysis”

Institute for Advanced Medical Education, Phoenix, Arizona, January 2000:

“Current Practice of Vascular Ultrasound”

“The Use of Ultrasound Guidance in Interventional Procedures”

“Intravascular Ultrasound”

Indiana University School of Medicine Continuing Medical Education Hemodialysis Access and Venous Intervention Symposium, Keystone, Colorado, February 2000:

Course Director

“Diagnosis of Venous Thromboembolic Disease”

“Percutaneous Treatment of Massive Pulmonary Embolus”

Institute for Advanced Medical Education, Orlando, Florida, February 2000:

“Current Practice of Vascular Ultrasound”

“The Use of Ultrasound Guidance in Interventional Procedures”

“Intravascular Ultrasound”

Society of Cardiovascular and Interventional Radiology Annual Meeting, San Diego, California, March 2000:

“Gene Therapy and Local Drug Delivery: Imaging and Intervention” Saturday Symposium Co-Director and Moderator

Coordinator and Faculty, Gastrointestinal Interventions Workshop

“The Bleeding Edge of Medical Innovation: Tools for the 21<sup>st</sup> Century” Categorical Course Coordinator, Moderator and Speaker, “Percutaneous Periadvential Heparin Delivery via Crosslinked Liquid Polymer”

“Lessons Learned in Interventional Radiology: Vascular Access” Categorical Course, “Complications of Tunneled Catheter Placement”

American Society of Emergency Radiology Annual Meeting, Orlando, Florida, March 2000:

“Pulmonary Arteriography: Still the Gold Standard for the Diagnosis of PE”

Mid-Eastern Chapter, Society of Nuclear Medicine Annual Meeting, Williamsburg, Virginia,

April 2000, “The Diagnosis of PE: An Interventional Radiologist’s Perspective”

Visiting Professor, Johns Hopkins Hospital, Baltimore, Maryland, April 2000:

Interventional Radiology Conference: “The Diagnosis of Venous Thromboembolic Disease”

## **PROFESSIONAL ACTIVITIES:**

### **INVITED SPEAKER:** Continued

Institute for Advanced Medical Education, Chicago, Illinois, April 2000:

“Current Practice of Vascular Ultrasound”

“The Use of Ultrasound Guidance in Interventional Procedures”

“Intravascular Ultrasound”

Chesapeake Interventional Radiology Society, Baltimore, Maryland, April 2000, “The Diagnosis of Venous Thromboembolic Disease”

Institute for Advanced Medical Education, Las Vegas, Nevada, May 2000:

“Current Practice of Vascular Ultrasound”

“The Use of Ultrasound Guidance in Interventional Procedures”

“Intravascular Ultrasound”

Institute for Advanced Medical Education, Las Vegas, Nevada, September 2000:

“Diagnosis of Pulmonary Embolism”

“Current Status of Treatment for Massive PE”

“Non-invasive Evaluation of Peripheral Arterial Disease”

Harvard Medical School International Symposium on Vascular and Interventional Radiology, Boston, Massachusetts, November 2000:

“Interventional Therapy in Failing Dialysis Access Grafts/Fistulae”

“Management of Dialysis Grafts/Fistulae” Workshop

New York Roentgen Ray Society, New York, New York, November 2000:

“Pulmonary Arteriography: Still the Gold Standard for the Diagnosis of Pulmonary Embolism”

“The Non-Invasive Evaluation of Peripheral Vascular Disease”

Visiting Professor, Mayo Clinic, Rochester, Minnesota, January 2001:

Resident lectures:

“Percutaneous Biliary Intervention”

“Interventional Case Conference”

Radiology Grand Rounds, “Diagnosis of Pulmonary Embolus”

Indiana University Hemodialysis Access and Venous Interventional Symposium, Keystone, Colorado, February 2001:

Course Director

“DOQI in Current Practice”

“Etiologies of Dialysis Access Graft Failure”

“Diagnosis and Treatment of Pulmonary Embolus”

Society of Cardiovascular and Interventional Radiology Annual Meeting, San Antonio, Texas, March 2001:

Plenary Session: “CT for Thromboembolic Disease: Not Yet”

Categorical Course Coordinator and Moderator: “Interventional Oncology: Research to Practice Parts I – III”

Categorical Course: “Lessons Learned: Dialysis Access”

Workshop Coordinator and Faculty: “Gastrointestinal Interventions”

Workshop Faculty: “Clinical Care in the Interventional Radiology Suite”

**\*PROFESSIONAL ACTIVITIES:**

**INVITED SPEAKER:** Continued

Columbia University College of Physicians & Surgeons Center for Continuing Education,  
Jackson Hole, WY, June 2001:

“Strategies for Graft Declotting: Mechanical vs. Lytic, Outcomes and Expectations”

“Prolonging Patency of Infringuinal Interventions: Stent Grafts, Novel Drug Agents,  
Radiation Eluting Stents”

“CT Angiography for Pulmonary Embolism: Oversold or Underutilized? Will  
Multidetector CT Scans Replace V/Q Scans?”

“Treatment of Pulmonary Embolism: Removing the Big Clot”

Southeastern Angiographic Society, Atlanta, Georgia, October 2001:

“Removing the big clot-the Endovascular Treatment of PE”

“Non-invasive Imaging of Pulmonary Embolism-Beyond the Hype”

“Strategies for Prolonging the Patency of Vascular Interventions”

Symposium on Vascular Interventions, Las Vegas, Nevada, November 2001:

Moderator, “CT Diagnosis of PE”

“CT Diagnosis of PE: Maybe Not”

“Percutaneous Management of PE”

Radiology After 5, New York, New York, November 2001:

“Pulmonary Embolism Imaging: The Role of CT, Radionuclides and Angiography”

“Emergency Thoracic and Abdominal Interventional Radiology”

“Tutorial on Interventional Radiology and Pulmonary Embolism”

Indiana University Hemodialysis Access and Venous Interventional Symposium, Keystone,  
Colorado, February 2002:

Course Director

“Current Status of Treatment of PE”

Society of Thoracic Radiology, San Francisco, California, March 2002, “CT for PE or Don’t Let  
Go of Pulmonary Arteriography Yet”

Society of Interventional Radiology Annual Meeting, Baltimore, Maryland, April 2002:

Symposium Faculty: “Pulmonary CTA”

Scientific Session Moderator: “Venous Access/Disease”

Categorical Course Faculty: “Periadventitial Drug Delivery for the Prevention of  
Restenosis: Rationale and Results”

Gastrointestinal Interventions Workshop Faculty

Advanced Interventional Management Symposium, New York, New York, November 2002,

“Recent Clinical Developments in PET Covered Stent Grafts”

Moi Teaching and Referral Hospital Grand Rounds, Eldoret, Kenya, February 2003,

“Introduction to Interventional Radiology”

Moi University College of Health Sciences Eldoret Workshop on International Collaboration  
Research, Eldoret, Kenya, February 2003, “IU School of Medicine Perspectives and  
Standard Operating Procedures”

**\*PROFESSIONAL ACTIVITIES:**

**INVITED SPEAKER:** Continued

- Society of Interventional Radiology Annual Meeting, Salt Lake City, Utah, March 2003,  
Moderator, Categorical Course: "CT Angiography"
- Emerging Technologies: An Evening Symposium, Salt Lake City, Utah, March 2003,  
"Endovascular Treatment of Aneurysms and Traumatic Lesions"
- Society of Interventional Radiology End Stage Renal Disease-The Keystone Conference:  
Bridging Scholarship & Care, Orlando, Florida, April-May 2003:  
Course Director  
"IR Treatment of Vascular Complications of Renal Transplantation"  
"Percutaneous Treatment of the Failing Graft: On the Horizon"  
"The Call: The Catheter Doesn't Work. What Next?"
- International Conference of the American Thoracic Society, Seattle, Washington, May 2003, A3-  
Pro-Con Debates Regarding Controversies in Clinical Medicine, "PRO: The Pulmonary  
Angiogram is Still the Gold Standard for Diagnosing Pulmonary Thromboembolism"
- Indiana University School of Medicine, Division of Hematology Clinical Conference  
"Anticoagulants in Primary Care: What's New", Indianapolis, Indiana, September 2003,  
"Diagnostic Modalities for Venous Thromboembolic Disease"
- Radiology Research Symposium, Indianapolis, Indiana, October 2003, "Local Drug Delivery in  
Cardiovascular Disease"
- Albert Einstein College of Medicine's Advanced Interventional Management Symposium, New  
York City, New York, November 2003:  
"Results of Endografts for Traumatic Vascular Lesions"  
"Inferior Vena Cava Filters: When is it Beneficial to use a Retrievable Device"  
Workshop: "Retrievable IVC Filters Workshop"  
Workshop: "Central Catheters Workshop"
- International Symposium on Endovascular Therapy, Miami Beach, Florida, January 2004:  
"Results of the Wallgraft Trial for Iliac Disease"  
"Matching Embolic Agent to the Therapeutic Objective"  
"What are the Current Indications for Permanent Filters?"  
"What are the Current Indications for Retrievable Filters?"
- Indiana University School of Medicine Mini-Medical School, Indianapolis, Indiana, March 2004:  
"Endovascular Intervention"
- Society of Interventional Radiology Annual Meeting, Phoenix, Arizona, March 2004:  
Categorical Course Coordinator and Moderator: "Advanced Vascular Imaging:  
MRA/CTA"  
Moderator, Scientific Session, "Thromboembolic Disease/Filters"  
Plenary Session speaker, "Controversies in Clinical Care: Infrainguinal Disease"  
Plenary Session panelist, "IR Film Interpretation Panel":  
"Case 4: A Tragedy in a Single Act [Pyelophlebitis]"  
"Case 8: The Case of the Copper Carbuncle [Granular Cell Tumor]"  
Categorical Course panelist, "Lessons Learned: Impossible Access"

**\*PROFESSIONAL ACTIVITIES:**

**INVITED SPEAKER:** Continued

Society of Interventional Radiology End Stage Renal Disease – Keystone Conference:  
Scholarship and Care, Kiawah Island, South Carolina, July 2004:  
Course Chair  
“Catheters are Evil, but. . .”  
“The K/DOQI guidelines: What they are and what they mean”

FDA-SIR-ASITN Device Forum, Rockville, Maryland, October 2004, Discussion Leader,  
“Clinical Trial Design for Peripheral Drug Eluting Stents”

Advanced Interventional Management Symposium, New York, New York, November 2004:  
“Why and When I Would Use a Permanent Filter”  
“An Algorithm for the Treatment of Hemodialysis Catheter Malfunction”

Moi Teaching and Referral Hospital Department of Radiology Grand Rounds, Eldoret, Kenya,  
January 2005, “Interventional Radiology”

Moi Teaching and Referral Hospital Department of Radiology Grand Rounds, Eldoret, Kenya,  
January 2005, “The MTRH RIS/PACS” (co-presenter with Marc Kohli, MD, resident)

University of Nairobi Department of Radiology Grand Rounds, Nairobi, Kenya, February 2005,  
“Interventional Radiology: An Overview”

Visiting Professor, Department of Radiology Noon Conference, Stanford University, Palo Alto,  
California, March 2005, “Percutaneous Biliary Intervention”

Society of Interventional Radiology Annual Meeting, New Orleans, Louisiana, March-April  
2005:  
Investigator’s Development Symposium, “Corporate Sponsored Research”  
Categorical Course Coordinator/Moderator: “Advances in Hemodialysis Interventions”

Veith Symposium, New York City, New York, November 2005, “Use of the Wallgraft for  
Arterial Injuries”

International Symposium on Endovascular Therapy, Miami Beach, Florida, January 2006,  
Plenary presentation, “Permanent and Retrievable IVC Filters: Indications, Use and  
Results”

FDA-SIR-ASITN Device Forum, Rockville, Maryland, February 2006, “Permanent and  
Retrieval IVC Filters: Indications, Use and Results”

Society of Interventional Radiology, Toronto, Canada, March 31-April 4, 2006:  
Categorical Course Faculty: “Case-based Review: Vascular Diagnosis:  
“Embolization of PAVM”  
“Recanalization of Occluded TIPS, Portal Vein and Splenic Vein”  
“Diagnosis and Treatment of Occluded Popliteal Artery”  
Categorical Course: Hemodialysis:  
Coordinator/Moderator  
Faculty:  
“Hemodialysis catheters: There When you Need Them”  
Scientific Session Moderator: “Hemodialysis”



**\*PROFESSIONAL ACTIVITIES:**

**INVITED SPEAKER:** Continued

First International Anatolian Course of Interventional Radiology, Istanbul, Turkey, May 2006:

“Percutaneous Management of Biliary Stone Disease”

“Uterine Artery Embolization: Indications, Techniques, Patient Selection and Complications”

“Permanent and Retrievable IVC Filters: Indications, Use and Results”

New England Society of Interventional Radiology, Boston, Massachusetts, November 2006:

“Percutaneous Management of Biliary Calculi”

Society of Interventional Radiology, Seattle, Washington, February 28-March 6, 2007:

Workshop Chair, Annual Meeting Committee

Co-Moderator, Scientific Session with Dr. Gordon McLennan:

“Animal Experiments-Oncology

Plenary Session (Debate):

“CTA for Pulmonary Embolus-A Call for Restraint”

Fourth National Congress of Tumor Interventional Therapy, Shanghai, China, September 2007:

“Radioembolization of Hepatic Malignancies Using Yttrium-90 Microspheres”

“Permanent and Retrievable IVC Filters: Current Status”

Grand Rounds, Shanghai Chanzheng Hospital, Second Military Medical University, Shanghai, China, September 2007:

“Manuscript Preparation”

Grand Rounds, Worker’s Hospital, Jinchun Nonferrous Metal Group, Gansu, China, September 2007:

“Percutaneous Biliary Intervention”

“Permanent and Retrievable IVC Filters: Current Status”

International Symposium on Endovascular Therapy, Miami, Florida, January 2008:

Abstract: “Multi-Center Prospective Trial Interim Results: Option TM Vena Cava Filter for the Prevention of Pulmonary Embolism (Permanent and Retrieval Indications)”

Hepato-Pancreato-Biliary Disease: The IU Multidisciplinary Approach, Phoenix, Arizona, February 11-13, 2008:

“Percutaneous Management” in the ‘Benign Biliary Stricture Symposium”

Moderator, “Liver Techniques Symposium”

Society of Interventional Radiology Annual Meeting, Seattle, Washington, March 2008:

Faculty, “Advances in Clinical Care: Coagulation and Hemostasis”

Categorical Course: “How do I get This Tunneled Catheter to Stop Bleeding?”

The Society for Surgery of the Alimentary Tract, San Diego, California, May 2008:

“Role of Interventional Radiology in Post-Cholecystectomy Bile Duct Injuries”

“Unresolved Problems and Evolving Solutions in Surgical Gastroenterology”

Global Embolization Symposium and Technologies, Barcelona, Spain, June 5-8, 2008:

Moderator, “Plugs and Stent Grafts”

Moderator, “Oncology”

**\*PROFESSIONAL ACTIVITIES:**

**INVITED SPEAKER:** Continued

2008 Annual Southeastern Angiographic Society Meeting, Abingdon, Virginia, October 9-11:

“Radioembolization, the Next Wave”

“Cholangioscopic Laser Lithotripsy of Biliary Calculi”

“Permanent and Retrievable Inferior Vena Cava Filters: Current Status”

The Inaugural Symposium on Clinical Interventional Oncology, Miami, Florida, January 17-18, 2009:

Lecture: “Radioembolization: Radioactive Resin Beads”

Panelist: Consensus Statement: Panel Discussions Involving all Disciplines to Achieve Consensus on the Preferred Strategy for Treatment of HCC

Panelist: Consensus Panel on CRC Liver Mets: Panel Session to Establish Guidelines for Treatment

Co-Moderator (with Ziv Haskal, MD): Virtual IR Workshop: Radioablation, Cryoablation, Microwave Ablation, and Novel Guidance Technologies

Hepato-Pancreato-Biliary Disease: The Indiana University Multidisciplinary Approach, Scottsdale, Arizona, February 16-18, 2009:

“Hepatocellular Carcinoma: Hepatic Arterial Therapies”

“Percutaneous Management of Biliary Calculi”

Panelist, “Expert Case Management, Pancreatic”

Society of Interventional Radiology Annual Meeting, San Diego, California, March 7-12, 2009:

Chair, Society of Interventional Radiology Meeting

Coordinator and Moderator, Opening Symposium: “The Practice of IR: What Works”

Coordinator of Plenary Sessions:

“IR Economics”

“IR, Center Stage”

“IR Research to Better Practice”

“SIR Meets the Roman Empire”

“Frontiers of IR”

Presented abstract: “Multicenter Prospective Trial Final Results: Option Vena Cava Filter for the Prevention of Pulmonary Embolism”

Panelist: “Virtual IR” Plenary

Physician participant, The Exhibitor Advisory Committee

Global Embolization Symposium and Technologies, Paris, France, April 15-18, 2009:

Lecture: “Pushable Coils: Basic to New”

Panelist: “Master Class: live Demonstration of Coils and Plugs”

Faculty: “Master Class: Liver Demonstration: Radioembolization, Particles, and Gel Foam”

Lecture: “Venous Malformations”

Lecture: “Arteriovenous Malformations: Top Tips”

**\*PROFESSIONAL ACTIVITIES:**

**INVITED SPEAKER:** Continued

“Embolution”, Sao Paulo, Brazil, August 25-28, 2009

“Upper Gastrointestinal Tract Bleeding”

“HCC Characteristics, Algorithms, and Biology of the Endovascular Approach”

“Bone Tumor Embolization”

“Percutaneous Treatment of Venous Vascular Malformation”

Case 2: “Detachable Coil Embolization of a Splenic Artery Pseudoaneurysm”

“Permanent and Retrievable Inferior Vena Cava Filters”

Panelist: “Developing an Interventional Oncology Practice”

Grand Rounds, University of Maryland, Baltimore, Maryland, September 9, 2009

“Radioembolization of Primary and Metastatic Liver Tumors”

CIRSE (European Society of Interventional Radiology) Annual Meeting, Lisbon, Portugal, September 20-25, 2009

Moderator, “Venous Disease Special Session”

Lecture: “Vascular Malformation Special Session, ‘Pulmonary AVMs’

VIVA, Las Vegas, Nevada, October 21-22, 2009

Panelist: “Live Case Demonstrations”

Debate: “Percutaneous Treatment of Pulmonary Embolus (con)”

5<sup>th</sup> Annual Sanctuary of Endovascular Therapy, Kiawah Island, South Carolina, February 18-20, 2010

“Technical Strategies in the Embolization of Coagulopathic Patients and High-Flow Lesions”

Society of Interventional Radiology Annual Meeting, Tampa, Florida, March 14-17, 2010

Coordinator and Moderator, Plenary Session: “Frontiers of IR”

Speaker, Plenary Session: “IR in Extremis”

“IR in Kenya”

Speaker, Categorical Course: “Pitfalls and Flaws”

“How to Read, Write, and Review the Medical Literature”

9<sup>th</sup> World congress of the International Hepato-Pancreatic-Biliary Association, Satellite

Symposium, Yttrium-90 Microspheres: A new Radiation Treatment for Inoperable Liver Tumors, Buenos Aires, Argentina, April 18-22, 2010

“Radioembolization Implant Procedure: Patient evaluation and Microsphere Administration”

**\*PROFESSIONAL ACTIVITIES:**

**INVITED SPEAKER:** Continued

- Global Embolization Symposium and Technologies, San Francisco, California, May 5-8, 2010:  
Parallel Session, Vascular Malformations  
    “Percutaneous Treatment of Lymphatic Malformations”  
    “Embolization of Peripheral AVM: Bottom Tips”  
Plenary Session, Radioembolization  
    “Becoming an Authorized User: When and How is it Possible?”  
Plenary Session, Hepatocellular Carcinoma  
    “When do we Need Biopsy? Evidence and Guidelines”  
Sirtex Satellite Symposiums, Clinical Update on Radioembolization, Chair and Speaker:  
    “Improving the Outcomes for Patients with Primary or Secondary Liver Tumors”  
Chicago Angio Club, Chicago, Illinois, May 19, 2010  
    “IVC Filters Past, Present, and Future”  
Lessons Learned in Interventional Radiology, Kohler, Wisconsin, June 25 and 26, 2010:  
    “Case 1: Complicated Bronchial Artery Embolization”  
    “Case 2: Sepsis Following Hepatic Artery Embolization”  
    “Case 3. Stroke Complicating Hepatic Radioembolization”  
Advanced Interventional Management (AIM) Symposium, New York City, New York,  
November 10-12, 2010:  
    Plenary Session, Interventional Oncology  
        “Is Cross Sectional Imaging Sufficient or are Biopsies Being Underutilized?”  
        “Selecting Between the Radioembolic Agents”  
    Faculty, “TACE, Bland Embolization and/or Radioembolization for Hepatic  
    Malignancies” Workshop  
FDA Inferior Vena Cava Filter Studies Workshop, Silver Spring, MD, February 1, 2011  
    “IVC filters: Overview of Clinical Issues”  
Y90: Are yoU ready? Symposium, Scottsdale, AZ, February, February 10-13, 2011  
    Course Co-Coordinator and Co-Chair (with Riad Salem, MD and Brian Stainken, MD)  
    “Diagnosis of HCC and Guidelines”  
    “Comparing Y90 Devices”  
    “Authorized User Requirements”  
Nordion Therasphere User Meeting, Wiesbaden, Germany, February 24-25, 2011  
    “Radioembolization in Liver Metastases: Three Year Experience at Indiana University”  
    “Overcoming Difficult Anatomy”  
    “The Importance of Delayed Imaging in the Diagnosis of HCC”  
Oncology Grand Rounds, Porter Hospital, Valparaiso, IN, March 8, 2011  
    “Radioembolization in the Treatment of Hepatic Malignancies”  
Miami Valley Hospital Symposium, Dayton, OH, March 8, 2011  
    “IVC Filters: Past, Present, and Future”

**\*PROFESSIONAL ACTIVITIES:**

**INVITED SPEAKER:** Continued

Society of Interventional Radiology Annual Meeting, Chicago, Illinois, March 26-31, 2011:

Speaker, Interventional Oncology Symposium:

“Assessment and Triage of the HCC Patient”

Speaker, “Basic Y90” Workshop:

“Selecting Between the Radioembolic Agents and Outcomes of Y90”

Speaker, Plenary Session: “VTE: Opportunities for IR”

“Evaluation and Risk Stratification of Patients with PE”

Coordinator, Moderator, and Speaker, “Tools of the Trade” Workshop:

“Preclinical and Clinical Research in Device Development”

Speaker, Plenary Session: “IR Controversies” (Debate, “Pro” position)

“There is No longer Any Need For a Non-retrievable IVC Filter”

Global Embolization Symposium and Technologies, Paris, France, April 27-30, 2011:

Speaker, Parallel Session, “Liver Embolization: non-HCC”

“Colorectal Liver Metastasis: Radioembolization”

Moderator and Speaker, Plenary Session, “HCC and Radioembolization”

“How to Set Up a Practice on Radioembolization”

Interventional Radiology (IR) Meltdown, Las Vegas, Nevada, May 19-20, 2011:

“Case 1: Missed Bleed”

“Case 2: Complicated TIPS- to Hepatic Artery”

“Case 3: Filter Thrombosis, Lysis, Stenting, Etc.”

World Conference on Interventional Oncology, New York, New York, June 9-12, 2011, Y-90

Radioembolization Clinical Symposium:

Panelist, “Controversies in Y90 (Sorafenib, Chemotherapy, Elevated Lung Shunt, Segmentectomy/Lobectomy)”

Speaker, “Interventional Radiologists as Authorized Users: Why?”

Liver Tumor Working Group Conference, August 5, 2011, Indiana University Medical Center:

“Radioembolization of hepatic malignancies”

Cleveland Clinic Stent Summit, Cleveland, Ohio, August 24, 2011:

“Current Status of Approved and Upcoming Devices, Patient Selection and Device Sizing:

Introduction to Filter Designs, IVC Characteristics, and General Technology”

“Filter Fixation and Migration: Forces and Design”

Indiana University School of Medicine Oncology Grand Rounds, Indianapolis, Indiana, August 25, 2011:

“Locoregional Treatment of Hepatic Metastases: Y90, TACE and Other Interventions”

Society of Interventional Radiology Research Consensus Panel for the Development of a Research Agenda in Management of Metastatic Colorectal Cancer, Washington, D.C., October 3, 2011:

“Outcomes of Radioembolization of Liver Metastases of CRC”

**\*PROFESSIONAL ACTIVITIES:**

**INVITED SPEAKER:** Continued

VIVA (Vascular InterVentional Advances): The National Education Course for Vascular Intervention and Medicine, Las Vegas, Nevada, October 18-21, 2011

Speaker, Dialysis/IVCF *Strategies on the Frontline* “Two IVC Filter Retrieval Cases”

Panelist, Stem Cells, Translational Research, and Pre-Clinical Animal Models of Vascular Disease *Dialog Panel*

Speaker, Venous *Strategies on the Frontline* “My Worst Complication Ever”

Speaker, General Session “Is There Finally a Consensus Regarding Indications for Temporary or Permanent IVC Placement?”

Embolotherapy 2011, Hospital Italiano, Buenos Aires, Argentina, November 10-12, 2011

“Radioembolization of liver tumors”

“Pulmonary arteriovenous malformation embolization”

“Update on vena cava filters”

Advanced Interventional Management (AIM), New York, New York, November 16-18, 2011

Speaker, “Radioembolization of liver metastases from colorectal cancer”

Panelist, Case Based Tumor conference

Moi Teaching and Referral Hospital Radiology Resident lecture, Eldoret, Kenya, January 19, 2012

“Interventional Radiology”

Y90: Are you ready? Symposium, Scottsdale, AZ, February, February 9-12, 2012

Course Co-Coordinator and Co-Chair (with Riad Salem, MD and Charles Nutting, DO)

Speaker,

“Diagnosis of HCC and Guidelines”

“The Initial Clinic Visit”

“Comparing Y90 Devices”

“Authorized User Requirements”

Panelist, Advanced Concepts in Y90: Roundtable Discussion

Nordion Therasphere Summit, Denver, Colorado, February 24, 2012

“Days 30-90: What Now?”

Washington University School of Medicine Oncology Grand Rounds, St. Louis, Missouri, February 29, 2012:

“Radioembolization”

**\*PROFESSIONAL ACTIVITIES:**

**INVITED SPEAKER:** Continued

Society of Interventional Radiology Annual Meeting, San Francisco, California, March 24-29, 2012:

Moderator, Vena Cava Filter Scientific Session

Coordinator, Moderator, and Speaker, "Device Development in IR" Workshop:

"Preclinical and Clinical Research in Device Development"

Speaker, Resident Interventional Oncology Training Course:

"IO: The Fourth Pillar of Oncology"

Coordinator and Moderator, Frontiers in Interventional Oncology Categorical Course

Speaker, Venous Thromboembolic Disease Categorical Course:

"Ensuring the Responsible Use of Vena Cava Filters: A New FDA Registry"

Panelist, Intermediate/Advance HCC Tumor Board (Categorical Course)

Speaker, Morbidity and Mortality Symposium "Accidents Happen: Cases Gone Awry:"

"TIPS occlusion"

Global Embolization Symposium and Technologies, New York, New York, May 3-6, 2012:

Speaker, Parallel Session, "Vascular Malformations"

"Managing Complications of AVM Therapy"

Speaker, Focus Session, "Radioembolization"

"Redistribution is the Key: Con"

Interventional Radiology (IR) Meltdown, Vancouver, Canada, May 17-18, 2012:

"Case 1: TIPS Occlusion"

"Case 2: Radioembolization Necrosis"

VIVA (Vascular InterVentional Advances): The National Education Course for Vascular Intervention and Medicine, Las Vegas, Nevada, October 8-12, 2012

Speaker, Venous Compression Syndromes *Chalk Talk*

"Venous Compression Syndromes: When to Consider, How to Diagnose, Available Treatment Options, and What to Expect"

Panelist, Venous *Strategies on the Frontline*

Speaker, Current Practice General Session

"The PRESERVE Study: PREDicting the Safety and Effectiveness of inferior Vena cava filters"

Speaker, Current Practice General Session

"What Supports my Decision to Intervene or Conservatively Treat Patients with Acute DVT"

Advanced Interventional Management (AIM), New York, New York, November 13-16, 2012

Speaker, "IVC Filters: Self Regulation vs Government Mandate"

"Radioembolization for the Treatment of HCC"

"Why Y90 Should be the Treatment of Choice for Most Metastatic Liver Lesions"

Workshop faculty,

"Radioembolization, Chemobembolization, Chemosaturation"

**\*PROFESSIONAL ACTIVITIES:**

**INVITED SPEAKER:** Continued

Congress on Interventional Oncology, Miami, Florida, January 18-19, 2013

Panelist: "A Case-based Foray into Yttrium 90"

International Symposium on Endovascular Therapy, Miami, FL, January 19-23, 2013

Speaker, Focused Symposium: Advances in Venous Intervention and Embolotherapy

"IVC Filters: US Trends, What the FDA Wants and What You Should Know"

"New Filter Technologies: What's Coming in the Future"

"Treatment Strategies for Acute Lower Extremity DVT"

Y90: The Advanced Course, Coronado Island, California, February 7-8, 2013

Course Co-Coordinator and Co-Chair (with Riad Salem, MD and Charles Nutting, DO)

Speaker, "Hepatocellular Carcinoma Current Literature Review"

VuMedi ([www.vumedi.com](http://www.vumedi.com)) Webinar, IVC Filters, February 25, 2013

Speaker, "Current Controversies and the PRESERVE study"

Society of Interventional Radiology Annual Meeting, New Orleans, Louisiana, April 13-18, 2013:

Co-coordinator and Faculty, Leadership Development Academy

Speaker, Interventional Oncology Symposium:

"Imaging in HCC: Making the Diagnosis"

Speaker, Oncology I: Introduction to Y-90 Workshop

"Y90? Y not?"

Speaker, In the Trenches: What I Do (Categorical Course)

"IVC Filter Placement and Retrieval"

Speaker, Extreme IR Categorical Course

"Portal Thrombolysis and TIPS for Acute Budd Chiari Syndrome"

"Pulmonary AVM embolization in a Woman Pregnant with Twins"

Speaker, Embolization II: Fundamentals Workshop

"Embolization of Right Gastroepiploic Artery in Celiac Occlusion"

Speaker, Developing the Academic IR: Mentorship

"Characteristics of an Effective Mentor"

Coordinator and Moderator "Device Development in IR" Workshop

Moderator, IVC Filter Scientific Session

Global Embolization Symposium and Technologies, Prague, Czech Republic, May 1-4, 2013:

Speaker, "Coils, Plugs, and Microcatheters" Session

"Detachable Coils: I Need Them"

Speaker, AVM Session

"Merits of Onyx for High Flow AVMs"

European Congress of Interventional Radiology, Budapest, Hungary, June 19-22, 2013:

Speaker, "Liver Radioembolization" Session

"Management of Complications"

Panelist, Multidisciplinary Tumour Board: HCC



**\*PROFESSIONAL ACTIVITIES:**

**INVITED SPEAKER:** Continued

Venous Endovascular Interventions Strategies (VEINS), Chicago, Illinois, September 20-22, 2013:

Speaker, "IVC Filters" Session

    "Wide Geographic Variability in Filter Utilization"

    "Removal of Filters: When and How"

    "How to Manage a Completely Thrombosed Filter"

VIVA (Vascular InterVentional Advances): The National Education Course for Vascular Intervention and Medicine, Las Vegas, Nevada, October 7-10, 2013

Panelist, Critical Limb Ischemia Pre-Course

    "Intro to VIVA SQUARES Case Reviews"

Panelist, Comprehensive Review Course

    "Review of Endovascular Examination Questions"

Speaker, Venous Pre-course

    "Current Controversies and the Role of the PRESERVE Study"

Speaker, Cardiovascular Healthcare Professionals Course

    "Vena Cava Filter Update"

Chicago Radiological Society Meeting, Chicago, Illinois, October 17, 2013

Speaker, "Inferior Vena Cava Filters: Current Status"

Sociedad Iberoamericana de Intervencionismo (SIDI), Buenos Aires, Argentina, November 1-3, 2013

Speaker, "Retrievable filters: Are they truly retrievable?"

    "Why I prefer Y90 over DEB in the treatment of colorectal cancer metastatic to the liver"

    "The PRESERVE Study"

    "TIPS: Complex Cases and Complications"

    "How to Organize and Develop the Practice of Radioembolization"

Advanced Interventional Management (AIM), New York, New York, November 18-21, 2013

Speaker, "The Clinical Practice of IO"

    "Complications of Locoregional Therapy: Avoidance and Management"

Moderator and speaker, "Radioembolization/Chemoembolization" workshop

Philadelphia Angiography and Interventional Radiology Society (PAIRS), Philadelphia, PA, January 15, 2014

Speaker, "Inferior Vena Cava Filters: Current Status"

**\*PROFESSIONAL ACTIVITIES:**

**INVITED SPEAKER:** Continued

Congress on Interventional Oncology, Miami, Florida, January 18-19, 2014

Speaker, "Bring Me Up To Speed: The Last Year in IO" Session,  
"CRC Mets"

Panelist, "Rider Up- Catheter Jockeys and Their Little Tricks"

Speaker, "Bring Me Up To Speed- The Year in IO Technology and Modality" Session,  
"Radioembolization"

Speaker, "Urban Legends: Things We Think Are True That May Not Be"

Panelist, "The MacGyver Files- Crafty Solutions That Prove Necessity Is The Mother of  
Invention"

Panelist, "RadioPlay- Y90 Case Discussion"

Y90: The Complete Course, Scottsdale, Arizona, February 6-9, 2014

Course Co-Coordinator and Co-Chair (with Robert Lewandoski, MD and Dan Sze, MD)

Speaker, "Requirements/NRC Update"

"Diagnosis of HCC and Guidelines"

"Treatment Options for Metastatic Colorectal Cancer"

"When to Re-Treat in Patients Following Y90"

"PET/Y90"

"Hepatocellular Carcinoma: Current Literature Review"

Panelist, "HCC Case-Based Discussion"

"Cholangiocarcinoma Case-Based Discussion"

Moderator and Panelist, "Other Mixed Neoplasia Case-Based Discussion"

Society of Interventional Radiology Annual Meeting, San Diego, California, March 22-27, 2014

Panelist, Film Panel Plenary Session

Speaker, Venous Thromboembolic Disease Categorical Course

"IVC Filter for Primary PE Prophylaxis"

Speaker, Embolization II: Fundamentals Workshop

"Bland Embolization of Hepatic Adenomatosis"

"Coil Embolization of the Omental Artery for Pancreatitis-Related Hemorrhage"

"TIPS Reduction and Occlusion"

"Embolization of Umbilical Varix"

Moderator, Practice Management/Quality and Policy Scientific Session

Global Embolization Symposium and Technologies, San Francisco, California, May 1-4, 2014

Speaker, Cancer Primer 1 Focus Session

"Prognosticators: Selecting the Best Patients for Treatment"

Speaker, Hepatocellular Carcinoma I Plenary Session

"Establishing the Diagnosis: When Biopsy is Mandatory, Advisable or Optional"

Moderator and Speaker, Hepatocellular Carcinoma III Plenary Session

"Masters' Debate: Advanced Stage HCC- Radioembolization"

"Redistribution: When and How"

**\*PROFESSIONAL ACTIVITIES:** Continued

**INVITED SPEAKER:** Continued

- Dalhousie University School of Medicine, Halifax, Nova Scotia, June 5, 2014  
Radiology Grand Rounds, “The Epidemiology and Diagnosis of Hepatocellular Cancer”  
Oncology Grand Rounds, “Locoregional Therapy for Primary and Secondary Hepatic Malignancies”
- Digestive Disease Interventions 2014, Cleveland, Ohio, September 26-27, 2014  
Speaker, Hepatocellular Carcinoma Session  
“Transcatheter Management of Advanced HCC: Radioembolization”
- Veins Endovascular Interventional Strategies (VEINS), Chicago, Illinois, October 9-12, 2014  
Speaker, “IVC Filters” Session  
“Role of Suprarenal IVC Filters and Superior Vena Cava Filters”
- Advanced Interventional Management (AIM), New York, New York, November 17-20, 2014  
Speaker, Acute Venous Thromboembolic Disease Session  
“The Need for IVCF Evaluation: The IVCFSG Foundation PRESERVE Study”  
Speaker, Oncology Session  
“HCC With Portal Vein Involvement: What Are Our Options?”
- Indiana University Oncology Grand Rounds, Indianapolis, Indiana, December 12, 2014  
Speaker, “Locoregional Therapy of Hepatic Malignancies”
- Y90: The Complete Course Symposium, San Francisco, CA, January 11-14, 2015  
Course Co-Coordinator and Co-Chair (with Robert Lewandowski, MD and Dan Sze, MD)  
Speaker, “Diagnosis of HCC and Guidelines”  
“Hepatocellular Cancer Literature Review”  
“Sarcoma, Case-Based Discussion”  
“PET/Y90”  
Panelist, “Neuroendocrine Tumors”
- The Food and Drug Administration, Silver Spring, MD, January 23, 2015  
Speaker, “Radioembolization”  
Speaker, “Hepatic Locoregional Therapy Trial Design”
- Congress on Interventional Oncology, Miami, Florida, January 31- February 1, 2015  
Panelist, “Tell Me Y: Case-Based Review of Radioembolization”  
Speaker, “Getting Particular: High-Powered Microscopic Megashow of Particles Big and Small”
- Society of Interventional Radiology Annual Meeting, Atlanta, GA, February 28- March 5, 2015  
Coordinator and Moderator of “ABC’s of Embolization: Materials” Categorical Course  
Speaker, “ABC’s of Embolization: Materials” Categorical Course  
“Available Particles, Radioembolization”  
Speaker, “Oncology X: Liver Embolization: Patient Selection and Outcome Assessment”  
Workshop  
Moderator, “Radioembolization” Scientific Session  
Moderator, “IVC Filters” Scientific Session

**\*PROFESSIONAL ACTIVITIES:** Continued

**INVITED SPEAKER:** Continued

- Japanese Society of Interventional Radiology, Miyazaki, Japan, May 28- June 1, 2015  
Speaker, Hepatocellular Carcinoma Symposium  
    “Trend of Microsphere Embolization”  
Commentator, Featured Abstracts Session  
Coordinator, Moderator, and Speaker, Vascular Intervention Case Session  
    “My Best and Worst Cases”  
Speaker, Beyond the Evidence- Oncology Symposium  
    “Radioembolization of Hormonally-Active PNET Metastases to the Liver”
- Global Embolization Symposium and Technologies (GEST) Lab In Vivo Training Program,  
Memphis, Tennessee, June 5-6, 2015  
Speaker, “Embolization and TIPS cases”
- Global Embolization Symposium and Technologies Meeting Europe, Seville, Spain, June 24-27,  
2015  
Moderator and Speaker, Hepatocellular Carcinoma Session  
    “Chemotherapy and Curative Options for Hepatocellular Carcinoma”  
Speaker, Colorectal Metastases Session  
    “Current Evidence and Clinical Trials for Radioembolisation in mCRC”  
Speaker, Oncology- Miscellaneous Session  
    “Exotic Oncological Embolisation”
- MDEpiNet Annual Meeting, FDA Headquarters, Silver Spring, MD, October 2, 2015  
Speaker, “PRESERVE Registry Collaborations”
- First State Annual Conference of IRIA Telangana State Chapter: Indo-US Radiology Update,  
Hyderabad, India, October 10-11, 2015  
Speaker, Abdominal Radiology Session  
    “Diagnosis of Hepatocellular Carcinoma”  
    “Locoregional Therapy for Hepatocellular Carcinoma”  
    “2015 Update on IVC Filters”
- Digestive Disease Interventions, Boston, MA, October 22-24, 2015  
Speaker, Hepatocellular Carcinoma Session  
    “Management of Unresectable HCC: Radioembolization”  
Panelist, Tumor Board
- Advanced Interventional Management (AIM), New York, New York, November 16-19, 2015  
Speaker, PE/Lymphatic Intervention Session  
    “IVC Filter Registry Update”  
Speaker, Advances in Interventional Oncology Session  
    “mCRC: What Interventional Oncology Offers”  
Speaker, Benign and Malignant Liver Pathology Session  
    “TIPS: Why I Use WallStents for All TIPS”  
Faculty, Oncology: Embolization Workshop

**\*PROFESSIONAL ACTIVITIES:** Continued

**INVITED SPEAKER:** Continued

- Y90: The Complete Course Symposium, San Francisco, CA, January 20-22, 2016  
Speaker, "Evaluating the HCC for Y90 Therapy"  
Panelist, Hepatocellular Cancer Session  
Moderator and Speaker, Miscellaneous Tumors Session  
    "Cholangiocarcinoma"  
Speaker, Advanced Concepts in Y90 Session  
    "Evolving Concepts in Dosimetry"
- Congress on Interventional Oncology, Miami, Florida, February 6-7, 2016  
Panelist, "Special Report: To SIRFLOX With Love: Panelists, What Does It All Mean"  
Speaker, "Y90: Considerations in HCC, Including Dosimetry and High Lung Shunt Fractions"  
Panelist, "Rapid Case Review: Focus on Hits, Misses, and Gaps"  
Panelist, "Viral Video: Case Archives from MCVI"
- Society of Interventional Radiology Annual Meeting, Vancouver, Canada, April 2-7, 2016  
Speaker, M & M and Extreme IR Symposia  
    "Transplenic TIPS for Acute Portal Venous System Thrombosis"  
Coordinator, Moderator, and Speaker, Embolization Materials in IR: The Essentials Categorical Course  
    "Overview of Embolization"  
Coordinator, Moderator, and Speaker, Basic Embolization III (Emboloc Selection) Case-Based Workshop  
    "Radioembolization: The Clinic Appointment"  
    "Radioembolization: The Procedure"  
    "Radioembolization: Follow Up"  
Coordinator and Speaker, Coil/Occluders Hands-On Workshop  
Moderator, "Radioembolization I" Scientific Session  
Moderator, "Radioembolization III" Scientific Session
- Global Embolization Symposium and Technologies Meeting, New York, New York, May 5-8, 2016  
Coordinator, Moderator and Panelist, Colorectal Metastases Session  
Faculty, Ablation Hands-On Workshop  
Speaker, Hepatocellular Carcinoma I Session  
    "Portal Vein Invasion and the Role of Liver-Directed Therapies"  
Coordinator and Faculty, Particles and Radioembolization Hands-On Workshop  
Speaker, Portal Hypertension and BRTO Session  
    "What is the Modern role for Embolization in TIPS for Esophageal Varices?"
- OhioHealth Vascular Symposium, Columbus, Ohio, May 20, 2016  
Speaker, "IVC Filters: Placement, Retrieval, and the PRESERVE Trial"
- Digestive Disease Interventions, San Diego, CA, October 26-28, 2016  
Speaker, Hepatocellular Carcinoma Session  
    "Management of Unresectable HCC: Combined Therapies"

**\*PROFESSIONAL ACTIVITIES:** Continued

**INVITED SPEAKER:** Continued

Advanced Interventional Management (AIM), New York, NY, November 14-17, 2016

Speaker, IR Role in Diagnostic Imaging Session,

"Transjugular Liver Biopsy, Transjugular Route: Indications and Technique"

Speaker, Interventional Oncology Session,

"When is Y90 Best and When is Ablation Best?"

Moderator and Speaker, IVC Filter Controversies Luncheon Session,

"The PRESERVE Trial: Rationale, Design, and Update"

Moderator and Speaker, TACE/Y90 Workshop,

"Case Presentations"

American Heart Association Scientific Sessions, New Orleans, LA, November 15, 2016

Speaker, Down the Rabbit Hole: Adventures in Chronic Venous Disease Cardiovascular Seminar,

"Life After PREPIC2: Who Benefits from IVC Filters?"

Radiological Society of North America (RSNA), Chicago, IL, November 27- December 2, 2016

Speaker, Interventional Series, Venous Disease Refresher Course,

"IVC Filters: New Evidence and Trials"

Presiding Officer and Speaker, Interventional Series, Embolotherapy,

"Embolization Pre-Y90"

Global Embolization Symposium and Technologies (GEST) Asia, Tokyo, Japan, December 16 and 17, 2016

Speaker, Material- Particles and More Plenary,

"Drug Eluting Particles: Do We Know Optimal Drug Release?"

Speaker, Management of Portal Hypertension Parallel Session,

"Complex Procedures for PV Occlusion: Transplenic, Transjugular, Transhepatic"

Speaker, Aneurysms and Endoleaks Parallel Session,

"The Role of Stent Grafts in Visceral Aneurysms"

Moderator and Speaker, Trauma Plenary Session,

"Severe Pelvic Fracture: Anatomy, Embolization, Infection, and Results"

Speaker, Material- Coils and Plugs Plenary Session,

"Covered Stents and Flow Diverters as "Embolitic" Tools"

Speaker, Best of the Rest Plenary Session,

"Colorectal Liver Mets- Y90"

Y90: The Complete Course Symposium, San Francisco, CA, January 22-24, 2017

Speaker, Advanced Concepts in Y-90 Session

"Alternatives to Coil Embolization: Redistribution, Advanced Embolics, and Antireflux Catheters"

Panelist, Hepatocellular Cancer Session

**\*PROFESSIONAL ACTIVITIES:** Continued

**INVITED SPEAKER:** Continued

Society of Interventional Radiology Annual Meeting, Washington, DC, March 4-9, 2017

Coordinator, Moderator, and Speaker, Liver Tumor Board Categorical Course

“Cholangiocarcinoma”

Speaker, Basic IO Embolization Case-Based Workshop

“Locoregional Therapy for Hepatocellular Carcinoma”

Panelist, Extreme IR and M & M Symposium

Panelist, Meet the Experts Session: Regional HCC Tumor Therapy: Practical Approach to Expanding Options

Global Embolization Symposium and Technologies (GEST) Europe Meeting, Florence, Italy, May 31-June 3, 2017

Speaker, Coils and Plugs Plenary Session

“Detachable Coils: Con” (debate)

Speaker, Embolization of Liver Metastatic Cancer and Cholangiocarcinoma Parallel Session

“Radioembolization for colorectal carcinoma: results”

Digestive Disease Interventions, New York, New York, October 18-21, 2017

Speaker, Liver Oncology Session

“Transcatheter therapies for liver metastasis: case based approach”

Advanced Interventional Management (AIM), New York, NY, November 13-16, 2017

Speaker, Veins and Filters Session,

"Current Indications for IVC Filters: Permanent, Optional, or Convertible"

Radiological Society of North America (RSNA), Chicago, IL, November 26- December 1, 2017

Speaker, Interventional Series, Venous Disease Refresher Course,

"IVC Filters: New Evidence and Ongoing Trials"

“IVC Filters: Past, Present, and Future”

Y90: The Complete Course Symposium, San Francisco, CA, January 11-13, 2018

Speaker, Angiography and Treatment of Y-90 Patients Session

“Imaging Responses”

Moderator, Speaker and Panelist, Metastatic Tumors (Miscellaneous) Session

“Sarcoma”

“Miscellaneous Metastatic Tumor Board”

Indiana University School of Medicine GI Grand Rounds, Indianapolis, IN, January 23, 2018

“Locoregional Therapy for Hepatocellular Cancer”

Society of Interventional Radiology Annual Meeting, Los Angeles, CA, March 17-22, 2018

Speaker, Extreme IR Symposium

“Emergency TIPS”

Speaker, Basic IO Embolization Case-Based Workshop

“Drug-Eluting Bead Transarterial Chemoembolization (DEB-TACE)”

Speaker, Endoscopy For The Interventional Radiologist Case-Based Workshop

“Biliary and Non-biliary Endoscopy”

Panelist, Meet the Experts Session: Regional HCC Tumor Therapy: Practical Approach to Expanding Options

**\*PROFESSIONAL ACTIVITIES:** Continued

**INVITED SPEAKER:** Continued

Global Embolization Symposium and Technologies (GEST) Meeting, New York, NY, May 17-20, 2018

Speaker, Coils and Plugs Plenary Session

“Coil Design: Fibered vs. Non-Fibered, Hydrogel”

Speaker, Hepatocellular Cancer Plenary Session

“Pricey Microcatheters, Precious Radiopharmaceuticals, Rich Doctors- Can We Afford To Treat All HCC?”

Japanese Society of Interventional Radiology Meeting, Tokyo, Japan, May 31-June 2, 2018

Speaker, Embolization Symposium

“Trends of Research in Embolotherapy”

Coordinator, Moderator, and Speaker, Interventional Oncology Options for Hepatocellular Cancer Case-Based Discussion

World Conference on Interventional Oncology (WCIO) Annual Meeting, Boston, MA, June 7-9, 2018

Speaker, SIO Meets NANETS: Advances and Controversies in NET Management Plenary Session

“TARE Should Remain 1<sup>st</sup>-Line Therapy for (Some Patients With) Liver-Dominant Metastases”

Coordinator, Moderator, and Speaker, Hepatocellular Carcinoma Tumor Board

FDA Oncology Center of Excellence Mini-Symposium on Liver-Directed Therapies for HCC, Silver Spring, MD, September 26, 2018

“Challenges and Opportunities in the Design of Liver-Directed Therapy Trials for HCC”

Society of Interventional Radiology Advanced Therapies in Venous Interventions (ACTiVE) Meeting, Chicago, IL, September 27-29, 2018

Speaker, IVC Filter Session

“Gamechanger: How PRESERVE Has Changed How I Use IVC Filters”

“Evolution of IVC Filter Design”

Panelist, IVC Filter Case Review

Digestive Disease Interventions, New York, New York, October 17-20, 2018

Moderator and Speaker, Radioembolization Session

“Dosimetry”

Moderator and Panelist, Case Based Workshop: Neuroendocrine Tumors

Spectrum Multidisciplinary IO/IR, Miami, FL, November 1-4, 2018

Coordinator, Moderator, and Speaker, HCC Tumor Board

Speaker, Liver Metastasis Session

“Radioembolization Versus Bland Embolization in the Treatment of Neuroendocrine tumors”

Panelist, Liver Metastasis Tumor Board

**\*PROFESSIONAL ACTIVITIES:** Continued



**INVITED SPEAKER:** Continued

Advanced Interventional Management (AIM) Symposium, New York, NY, November 12-15, 2018

Speaker, Portal Hypertension Session

“Transjugular Liver Biopsies: Indications, Technique, Results and Complications”

Speaker, Deep Vein Thrombosis and Pulmonary Embolus Session,

"IVC Filter Controversies: Current Indications and Contraindications for IVC Filters”

Radiological Society of North America (RSNA), Chicago, IL, November 25-30, 2018

Speaker, Interventional Series, Venous Disease Refresher Course,

"IVC Filters: New Evidence and Ongoing Trials"

Global Embolization Symposium and Technologies (GEST) Asia, Hong Kong, December 7 and 8, 2018

Speaker, Embolization Principles and Tools Plenary Session,

"Coils: What’s Out There (Pushable, Detachable, Fibered, etc.)"

Moderator and Speaker, Hepatocellular Carcinoma II Plenary Session,

"Combination of TACE and Sorafenib for HCC"

Speaker, Portal Vein Intervention Parallel Session,

"Advanced TIPS Techniques"

“Techniques and Indications for Embolization of Variceal Veins During TIPS”

“Trans-splenic Approach: When and How”

New England Society of Interventional Radiology, Boston, MA, December 10, 2018

“Inferior Vena Cava Filters and the PRESERVE Trial”

Middle East Endovascular Therapy Symposia, Cairo, Egypt, January 15-17, 2019

Moderator and Speaker, Oncology: Liver Cancer Session

“Outcomes of Locoregional Therapy for Neuroendocrine Tumors”

“Radioembolization vis-à-vis Peptide Receptor Radionuclide Therapy (PRRT)

Panelist, Oncology Tumor Board, Hepatocellular Carcinoma

Moderator and Speaker, Venous Disease: Caval Filters Session

“Filter Management & Filter Retrieval Programs”

Moderator and Speaker, Best of SPECTRUM, Spectrum-2018: Miami, USA Session

“Triaging the HCC Patient”

Speaker, Best of SIR, SIR-2018: Los Angeles, USA Session

“This is SIR”

Panelist, Oncology Tumor Board, Cholangiocarcinoma

Moderator and Speaker, Portal Hypertension Session

“Transjugular Intrahepatic Portosystemic Shunt for Ascites

Society of Interventional Radiology Annual Meeting, Austin, TX, March 23-28, 2019

Speaker, IR & Positive Disruption: The Potential Impact of High-Tech Image Guided Intervention on Global Health Categorical Course

“Africa: What If Core IR Were Widely Available?”

Speaker, Current Perspectives In The Medical Device Development Process Categorical Course

“The Clinical Investigator’s Experience”

Speaker, Endoscopy For The Interventional Radiologist Case-Based Workshop

“Beyond the Bile Duct”

Panelist, Film Panel Plenary Session

FDA/SIR Collaboration Meeting, Silver Spring, MD, April 4, 2019

Speaker, “Inferior Vena Cava Filters: Current Status of the PRESERVE Study”

44<sup>th</sup> Annual Campbell-Klatte Oration, Indianapolis, IN, April 15, 2019

Speaker, “PRESERVE”



**\*PROFESSIONAL ACTIVITIES:** Continued

**GRANTS AND FELLOWSHIPS:**

Boston Scientific Corporation, \$16,495, Local administration of fraxiparine to the site of angioplasty via hydrogel balloon: effect on intimal hyperplasia, April 1, 1995 to December 31, 1997, **principal investigator**

LaRoche-Hoffman, Inc., \$37,000, and Research Investment Fund, Indiana University, \$90,000, Clinical pancreatic islet cell transplantation, both grants, June, 1996-1998, co-investigator

Impra, Inc., \$15,000, Morphologic study of aortoiliac aneurysmal disease: development of an aneurysm model for aortic imaging, 1995-1998, co-investigator

Cardiovascular and Interventional Radiology Research and Education Foundation, \$25,000, Percutaneous periadventitial heparin delivery via cross-linked polymer, Phases 1 and 2, August 1, 1997 to March 31, 1999, **principal investigator**

Bard Access Systems, Inc., \$20,000, Tunneled catheters, August 1, 1997 to July 31, 1998, co-investigator

Boston Scientific Corporation, \$74,076, Wallgraft endoprosthesis and the Unistep LS delivery system for complex iliac stenosis and occlusion, February 10, 1998, to February 9, 2006, **principal investigator**, 3% effort

Boston Scientific Corporation, \$41,228, Wallgraft endoprosthesis and the Unistep LS Delivery System for peripheral aneurysm and trauma, February 10, 1998, to June 14, 2006, **principal investigator**, 1.5% effort

Boston Scientific Corporation, \$26,646, The creation and evaluation of hemodialysis fistulas with stenosis in the pig model-Phase 1, July 21, 1998 to July 21, 2001, **principal investigator**, 5% effort

Boston Scientific Corporation, \$39,130, The creation and evaluation of hemodialysis fistulas with stenosis in the pig model-Phase 2, July 21, 1998 to July 21, 2001, **principal investigator**, 3% effort

Bard Access Systems, \$18,032, Randomized comparison of Split Tip versus Step Tip High Flow hemodialysis catheters, October 1, 1998 to December 31, 2000, co-investigator

Boston Scientific Corporation, \$13,059, Evaluating the local delivery of dexamethasone on hydrogel coated balloons in porcine veins, November 1, 1999 to December 31, 2001, **principal investigator**

Cook, Inc., \$321,150, Clinical evaluation of the Cook Zenith AAA endovascular graft, January 19, 2000 to May 30, 2003, co-investigator

**GRANTS AND FELLOWSHIPS:** Continued

Cardiovascular and Interventional Radiology Research and Education Foundation, \$25,000, Percutaneous periadventitial heparin delivery via cross-linked polymer, Phase 3, June 1, 2000 to November 30, 2001, **principal investigator**

Boston Scientific Corporation, \$36,603, Phase III Feasibility Study: Evaluation of the Destiny Stent vs. PTA in the porcine hemodialysis model, April 19, 1999 to March 31, 2000, **principal investigator**, 3% effort

Percardia, Inc., \$29,909, Technical feasibility of creating an endovascular left ventricle to coronary artery shunt, November 1, 1999 to April 30, 2001, co-investigator

Genentech, Inc., \$14,612, TPA infusion for the treatment of central venous catheter tip thrombosis, February 15, 2000 to June 30, 2001, co-investigator

W.L. Gore, Inc., \$101,129, Investigational device evaluation of the Gore TIPS endoprosthesis (Viatorr) in de novo TIPS and TIPS revisions, May 18, 2000 to May 31, 2004, co-investigator

Boehringer-Ingelheim, \$50,000, Therapeutic arteriogenesis using locally-delivered MCP-1 in the porcine femoral arterial system, November 1, 2000 to October 31, 2001, **principal investigator**

Impra, \$92,155, A prospective, multi-center, randomized evaluation of an Impra/Bard ePTFE encapsulated carbon lined nitinol endoluminal device for AV access graft, January 1, 2001 to December 31, 2004, co-investigator

W.L. Gore & Associates, Inc., \$33,250, A randomized multicenter study comparing use of the Hemobahn endovascular prosthesis to percutaneous transluminal angioplasty (PTA) in the treatment of superficial femoral artery obstructive disease, April 6, 1998 to October 5, 2001, co-investigator

Bard Access Systems, \$31,012, Relationship between tip stagger and recirculation in a porcine model, March 1, 2001, to February 28, 2003, **principal investigator**

Boston Scientific, \$7,688, Cutting balloon trial, September 1, 2002 to September 30, 2003, **principal investigator**, 3.88% effort

Boston Scientific, \$48,518, Performance of peripheral cutting balloon in comparison to standard percutaneous transluminal angioplasty in a pig model, September 18, 2002 to September 17, 2003, **principal investigator**, 3.39% effort

Boehringer Ingelheim, \$105,848, Evaluation of pharmacokinetics of peri-adventitial delivery of MCP1 within alginate feasibility experiments on therapeutic arteriogenesis using locally delivered MCP1, September 19, 2002 to September 18, 2003, **principal investigator**, 5% effort

**GRANTS AND FELLOWSHIPS:** Continued

Boston Scientific, \$18,000, gift to Matthew Johnson, M.D. for the resident animal lab practicum, June 2003, gift to Matthew S. Johnson, M.D.

Thomas J. Maginot, MD, \$20,000, in support of the Interventional Radiology Research Program, May 8, 2003, gift to Matthew S. Johnson, M.D.

Bard Access Systems, \$16,900, Clinical Comparison of Ash-Split and Hemosplit Tunneled Hemodialysis, February 4, 2004 to February 3, 2006, **principal investigator**, 4% effort

Boston Scientific, \$103,651, Paclitaxel-eluting stent in prevention of venous intimal hyperplasia in pigs-animal model development, June 1, 2004 to May 31, 2005, **principal investigator**, 3% effort

Toshiba Medical Systems, \$33,400, Toshiba large field flat panel detector evaluation for angiographic/interventional applications (FPD 12 x 16), July 2005 to October 2005, **principal investigator**

Bard Access Systems, \$2,000, Fellow Educational Support Grant, January 1, 2006 to December 31, 2007, grant given to Matthew S. Johnson, M.D.

Boston Scientific, \$113,240, A non-GLP study to demonstrate phenotypes of vascular protein expression in normal carotid, renal, iliac and femoral arteries of Yucatan mini swine and human, and their correlation with vessel wall shear rates, December 8, 2005 to June 8, 2007, **principal investigator**, 1% effort

Cook, Inc., \$15,590, A non-randomized, prospective study of IVC filter retrieval out to 12 weeks without interim filter manipulation utilizing the Gunther Tulip vena cava filter, April 25, 2005 to March 31, 2007, co-investigator

The University of Toledo (NIH pass-through), \$22,176, Cardiovascular outcomes in renal atherosclerotic lesions (CORAL), August 24, 2005 to March 31, 2010, co-investigator

Rex Medical, \$76,250, Option vena cava filter IDE clinical study, December 22, 2006 to December 22, 2009, **principal investigator**

BTG, \$75,284, A phase III clinical trial evaluating the efficacy and safety of Therasphere® in patients with metastatic colorectal carcinoma of the liver who have failed first line chemotherapy (EPOCH), July 1, 2012 to December 31, 2017, **principal investigator**, 1% effort

Biocompatibles UK Ltd, \$150,680, Retrospective review of radiographic and clinical outcomes of patients treated with Y-90, an institutional review, November 1, 2014 to October 31, 2015, **principal investigator**, 10% effort

**GRANTS AND FELLOWSHIPS:** Continued

Novate Medical, \$91,900, SENTRY Clinical Trial, October 22, 2013 to December 31, 2017, **principal investigator**, 1% effort

BTG, \$196, 850, Assess the effect of Y90 on non-targeted/background liver, March 30, 2017 to Marcy 30, 2019, co-investigator, 1% effort

Biocompatibles UH Ltd, \$293,743, A TheraSphere® advanced dosimetry retrospective global study evaluation in hepatocellular carcinoma treatment, August 12, 2016 to August 12, 2019, **principle investigator**, 1% effort

NIH-SBIR, R44HL127734, \$83,867, Clinical evaluation of a resorbable vena cava filter, April 1, 2017 to December 31, 2018, Site **principle investigator** (Mitch Eggers is national PI), 10% effort

## PRINT AND ELECTRONIC PUBLICATIONS:

\*\* Publications which resulted from work performed at Indiana University.

### I. Teaching:

#### A. Publications:

1. Trerotola SO, Darcy MD, Ehrman KO, Harris VJ, **Johnson MS**, et al. 1994 SCVIR Annual Meeting Notes JVIR 1994; 5:541-8. (Non-refereed)
2. **Johnson MS**. Case 22: Acute Cholecystitis. In: LaBerge, JM, Ed. in Chief and Venbrux, AC, Editor. SCVIR Syllabus, Biliary Interventions. Fairfax, VA: Society of Cardiovascular and Interventional Radiology, 1995; pp. 374-380. (Non-refereed)
- \*\*3. **Johnson MS**. Tunneled dialysis catheters. In: Trerotola SO, Savader SJ, Editors, Durham JD Editor-in-Chief. SCVIR Syllabus: Venous Interventions. Fairfax, VA: The Society of Cardiovascular and Interventional Radiology 1995; pp. 111-122. (Non-refereed)
- \*\*4. **Johnson MS**. Tunnel infection. In: Trerotola SO, Savader SJ, Editors. SCVIR Syllabus: Venous Interventions. Fairfax, VA: The Society of Cardiovascular and Interventional Radiology 1995; pp. 368-369. (Non-refereed)
5. Lund GB, **Johnson MS**. Techniques to facilitate the difficult percutaneous transhepatic biliary drainage. Seminars in Interventional Radiology 1996; 13(3):241-252. (Non-refereed)
- \*\*6. **Johnson MS**. Case 14. Subclavian artery stent. In: Haskal ZJ, Kerlan RK Jr, Editors. Trerotola SO, Editor in Chief. SCVIR Syllabus: Thoracic and Visceral Vascular Interventions. Fairfax, VA: The Society of Cardiovascular and Interventional Radiology, 1996; 409-411. (Non-refereed)
- \*\*7. **Johnson MS**. Case 61. Embolization following percutaneous nephrostomy. In: Haskal ZJ, Kerlan RK Jr, Editors. Trerotola SO, Editor in Chief. SCVIR Syllabus: Thoracic and Visceral Vascular Interventions. Fairfax, VA: The Society of Cardiovascular Interventional Radiology, 1996; 607-610. (Non-refereed)
- \*\*8. **Johnson MS**. Radiologic placement of gastrostomy tubes. Nutr Clin Pract 1997 Feb; 12(1 Suppl):S20-2. (Non-refereed)
- \*\*9. **Johnson MS**. Pulmonary angiography: current techniques and complications. JVIR 1998; 9(1) Part 2 Supplement:142-145. (Refereed)



## PRINT AND ELECTRONIC PUBLICATIONS:

\*\* Publications which resulted from work performed at Indiana University.

### I. Teaching:

#### A. Publications: Continued:

- \*\*10. **Johnson MS.** Catheter access for hemodialysis. *Seminars in Dialysis* 1998; 11(6):326-330. (Non-refereed)
- \*\*11. **Johnson MS, Lalka SG.** Ultrasound: role in the diagnosis of peripheral vascular disease. *RSNA Categorical Course in Vascular Imaging* 1998; 183-190. (Non-refereed)
- \*\*12. **Johnson MS.** Catheter access for hemodialysis. *New Developments in Central Venous Access, Winter* 1998-99; 1(1):18-21. (Non-refereed)
- \*\*13. Lalka SG, **Johnson MS, Stockberger SM.** Evaluation of abdominal aortic aneurysms. *Perspectives in Vascular Surgery* 1999; 1(10):43-68. (Non-refereed)
- \*\*14. **Johnson MS.** Percutaneous placement and management of hemodialysis catheters. In: Savader S, Trerotola SO, Editors. Venous Interventional Radiology, 2<sup>nd</sup> edition. New York, NY: Thieme Medical Publishers, 2000; 301-314. (Non-refereed)
- \*\*15. **Johnson MS.** Pulmonary embolism: diagnosis and interventional options for treatment. In: Savader S, Trerotola SO, Editors. Venous Interventional Radiology, 2<sup>nd</sup> edition. New York, NY: Thieme Medical Publishers, 2000; 487-501. (Non-refereed)
- \*\*16. **Johnson MS.** Breathing easier: Diagnosing pulmonary emboli. *Advance for Administrators in Radiology & Radiation Oncology* 2000; 10(11):99-102. (Non-refereed)
- \*\*17 **Johnson MS.** Diagnosis of venous thromboembolic disease. *Seminars in Interventional Radiology* 2001; 18(2):99-112. (Non-refereed)
- \*\*18. Stecker MS, Armenoff D, **Johnson MS.** Physician Assistants in Interventional Radiology. *JVIR*, March 2004; 15:221-227. (Refereed)
- \*\*19. **Johnson MS, Bizila S, Gonzalez M.** Responsible conduct of radiology research Part V: The health insurance portability and accountability act and research. *Radiology*, 2005; 237:757-764. (Refereed)

## PRINT AND ELECTRONIC PUBLICATIONS:

\*\* Publications which resulted from work performed at Indiana University.

### I. Teaching:

#### A. Publications: Continued:

- \*\*20. Marshalleck FE, **Johnson MS**. Current strategies for the diagnosis of pulmonary embolus. In: Sze, Daniel, Ferral, Hector, Editors. SIR Syllabus Venous Interventional Radiology, Fairfax, VA: The Society of Interventional Radiology, 2005, 149-160. (Non-refereed)
- \*\*21. Marshalleck FE, **Johnson MS**. Classification and percutaneous management of vascular malformation. In: Golzarian S, Sharafuddin M, Editors: Embolotherapy. New York, NY: Springer, 2006. (Non-refereed)
- \*\*22. Mehta RP, **Johnson MS**. Update on anticoagulant medications for the interventional radiologist. *JVIR*, 2006; 17(4):597-612. (Refereed)
- \*\*23. Salem R, Lewandowski RJ, Gates VL... **Johnson, MS**... Standards of Practice Research Reporting Standards for Radioembolization of Hepatic Malignancies. *JVIR* 2010, in press. (Refereed)
- \*\*24. **Johnson MS**, Marshalleck FE, Johnson CN. Pulmonary embolism: IVC filters- indications and technical considerations. In: Geschwind, F and Dake, M, Editors. Abrams' Angiography and Interventional Radiology, 3<sup>rd</sup> Edition, Philadelphia, Lippincott Williams & Wilkins, 2014, 990-997.
- \*\*25. Zhang D, **Johnson MS**, McLennan G. Restenosis. In: Mauro, Murphy, Thomson, Venbrux, Morgan, Editors. Image-Guided Interventions, 2<sup>nd</sup> Edition, Philadelphia, Elsevier, 2014, 123-127.
- \*\*26. Hartke J, **Johnson MS**, Ghabril M. The diagnosis and treatment of hepatocellular carcinoma. *Seminars in Diagnostic Pathology*. 2017; 34:153-159.
- \*\*27. Haste P, **Johnson MS**. Transarterial Chemoembolization. In: Keefe, Haskal, Park, Angle, Editors. IR Playbook, 1<sup>st</sup> Edition, Cham, Switzerland, 2018, 381-387.
- \*\*28. El-Serag H, Zhu A, **Johnson MS**. The treatment path in hepatocellular carcinoma. *Clin Adv Hematol Oncol*. 2017; 15 Suppl 9(8):1-20.

## PRINT AND ELECTRONIC PUBLICATIONS:

\*\* Publications which resulted from work performed at Indiana University.

### B. Multimedia:

- \*\*1. **Johnson MS.** "Case 22: Acute Cholecystitis." In: LaBerge, JM, Editor in Chief and Venbrux, AC, Editor. CIRREF Videodisc III, Biliary Interventions. Fairfax, VA: The Society of Cardiovascular and Interventional Radiology, 1995; 374-380.
- \*\*2. **Johnson MS.** "Tunneled Dialysis Catheters." In: Trerotola SO, Savader SJ, Editors. CIRREF Videodisc, Venous Interventions. Fairfax, VA: The Society of Cardiovascular and Interventional Radiology, 1995; 111-122.
- \*\*3. **Johnson MS.** "Tunnel Infection." In: Trerotola SO, Savader SJ, Editors. CIRREF Videodisc, Venous Interventions. Fairfax, VA: The Society of Cardiovascular and Interventional Radiology, 1995; 368-369.:
- \*\*4. **Johnson MS.** "Case 14. Subclavian artery stent." In: Trerotola SO, Editor in Chief and Haskal ZJ, Kerlan RK Jr, Editors. CIRREF Videodisc, Thoracic and Visceral Vascular Interventions. Fairfax, VA: The Society of Cardiovascular and Interventional Radiology, 1996;409-411
- \*\*5. **Johnson MS.** "Case 61. Embolization following percutaneous nephrostomy." In: Trerotola SO, Editor-in-Chief and Haskal ZJ, Kerlan RK Jr, Editors. CIRREF Videodisc, Thoracic and Visceral Vascular Interventions. Fairfax, VA: The Society of Cardiovascular and Interventional Radiology, 1996; 607-610.
- \*\*6. **Johnson MS.** Case 0397 03, "Upper extremity ischemia," SCVIR Internet Case Club, Haskal ZJ, Editor, March, 1997. <http://www.scvir.org>
- \*\*7. Sasadeusz K, **Johnson MS.** Case 0298 09, "Non-operative management of traumatic aortic injury," SCVIR Internet Case Club, Haskal ZJ, Editor, February, 1998. <http://www.scvir.org>
- \*\*8. Stookey KR, **Johnson MS.** Case 0698 10, "Maintenance of hemodialysis access via recanalization of an occluded IVC," SCVIR Internet Case Club, Haskal ZJ, Editor, June, 1998. <http://www.scvir.org>
- \*\*9. Sasadeusz K, **Johnson MS.** Case 0798 03, "Aortic dissection occluding the main right pulmonary artery," SCVIR Internet Case Club, Haskal ZJ, Editor, July, 1998. <http://www.scvir.org>
- \*\*10. Lee T, **Johnson MS.** Case 0798 07, "Descending thoracic aortic trauma," SCVIR Internet Case Club, Haskal ZJ, Editor, July, 1998. <http://www.scvir.org>

## PRINT AND ELECTRONIC PUBLICATIONS:

\*\* Publications which resulted from work performed at Indiana University.

### I. Teaching:

#### B Multimedia: Continued:

- \*\*11. **Johnson MS**, Lalka SG. Role of ultrasound in the diagnosis of peripheral vascular disease. In: 1998 Categorical Course in Diagnostic Radiology: Vascular Imaging and Selected Scientific Exhibits from RSNA '97 in Vascular Imaging. Radiographics November 1998; 18 (suppl 2, compact disk) 1621-1630 (abstr).
- \*\*12. **Johnson MS**, Lalka SG. 1998 Categorical Course in diagnostic radiology: vascular imaging. RadioGraphics 1998; 18(6)Supplement 2.
- \*\*13. McLennan G, **Johnson MS**. Bronchial artery embolization. SCVIR Case Club February 1999. <http://www.scvir.org>
- \*\*14. **Johnson MS**. Tutorial on interventional radiology and pulmonary embolism. Educational Symposia, Inc. 2002. Video Teaching Program.
- \*\*15. **Johnson MS**. Pulmonary embolism imaging: the role of CT, radionuclides, and arteriography. Educational Symposia, Inc. 2002. Video Teaching Program.
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## PRINT AND ELECTRONIC PUBLICATIONS:

\*\* Publications which resulted from work performed at Indiana University.

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- \*\*16 Safety of Yttrium-90 Radioembolization for patients with history of biliary tract instrumentation: a multicenter study. Fidelman N, Devulapalli K, Miller M, **Johnson, MS**, Nutting C, Morrison J, Farsad K, Kaufman J, Lokken R, Bui J, Gaba R, Fleming J, Brown D, Kwan S, Rose S, Pennycooke K, Liu D, White S, Zhang C, Kerlan R. Presented by Kavi Devulapalli at the SIR Annual Meeting in Vancouver, Canada, April, 2016.
- \*\*17 Clinical predictors of overall survival (OS) among cholangiocarcinoma (CCa) patients treated with Yttrium 90 Radioembolization. Gichoya J, Oancea L, Johnson C, **Johnson MS**. Presented by Judy Gichoya at the SIR Annual Meeting in Washington DC, March, 2017.
- \*\*18 TIPS creation to improve surgical candidacy prior to abdominal operation: a retrospective analysis. Schmitz A, Haste P, **Johnson MS**. Presented by Adam Schmitz at the SIR Annual Meeting in Austin, TX, March, 2019.

## PRINT AND ELECTRONIC PUBLICATIONS:

\*\* Publications which resulted from work performed at Indiana University.

### II. Research:

#### C. Exhibits:

1. Love L, **Johnson MS**, Bresler ME, Nelson JE, Olson MC, Flisak ME. The persistent computed tomography nephrogram: its significance in the diagnosis of contrast-associated nephrotoxicity. Presented at the ARRS, 1992, Orlando, FL.
- \*\*2. McLennan G, **Johnson MS**, Zang Z, Fife WK, Ambrosius WT. Comparison of HPLC and scintillation heparin assays. Poster presented at Society of Vascular Medicine and Biology (SVMB), June 4-5, 1999, Washington, DC.
- \*\*3. Eclavea A; Hari JK; Salis AI; Lalka SG, **Johnson MS**. Treatment of atheroembolization by percutaneous intravascular stent placement. Poster presented at the Research Initiatives in Vascular Biology, February 17-18, 2000, Bethesda, MD
- \*\*4. Rydberg J, Kopecky KK, Stockberger Jr SS, Lalka SG, **Johnson MS**, Persohn SA, Dalsing MC, Cikrit DF, Sawchuk AP. Multi-slice helical computed tomography in the pre- and post-operative assessment of endovascular stent grafting for abdominal aortic aneurysm. Poster presented at the 100<sup>th</sup> Annual Meeting of the American Roentgen Ray Society, May 7-12, 2000, Washington, DC.
- \*\*5. Ford JM, Sandrasegaran K, McLennan G, Wertman DE, Agarwal DM, **Johnson MS**. Yttrium-90(Y-90) Intra-arterial Brachytherapy for Hepatocellular Carcinoma. Poster presented at the Radiological Society of North America, November 25-30, 2007, Chicago, IL
- \*\*6. Gichoya J, Haste P, Mills A, Kohli M, **Johnson MS**. Creating an interventional oncology translational database: early experience at Indiana University. Gichoya J, Haste P, Mills A, Kohli M, Johnson M. Poster presented at the at the SIR Annual Meeting in Vancouver, Canada, April, 2016.