

COLLEGE OF MEDICINE CURRICULUM VITAE

Shiliang Sun, MD

January 22, 2009

**I. EDUCATIONAL AND PROFESSIONAL HISTORY**

**A. List of institutions attended (least to most recent)**

1977-1982 MD, Harbin Medical College, Harbin City, China

Post-Graduate Education

1982-1984 Resident Physician, Heilongjiang Province Hospital, Harbin City, China  
1984-1985 Fellowship in Interventional Radiology, Dalian School of Medicine, Dalian, China  
1985-1987 Advanced Fellowship in Interventional Radiology, Dalian School of Medicine, Dalian, China

Certification

Diploma certification, Harbin Medical College, Harbin City, China  
Diploma certification, Dalian School of Medicine, Dalian, China

Licensure

Dalian, China  
Iowa, Special License No. SP-70 (exp. 08/01/06)

**B. Professional and academic positions held (least to most recent)**

1985-1986 Postgraduate Research Assistant, Dalian School of Medicine, Dalian, China  
1986-1987 Associate Director, Interventional Radiology, Dalian School of Medicine, First Affiliated Hospital of Dalian, Dalian, China  
1987-1991 Director, Interventional Radiology, Second Affiliated Hospital, Dalian School of Medicine, Dalian, China  
1991-1993 Vice Chairman, Department of Radiology, Second Affiliated Hospital, Dalian School of Medicine, Dalian, China  
1987-1992 Attending Radiologist, Second Affiliated Hospital of DMC, Dalian, China  
1988-1993 Director, Interventional Radiology, Second Affiliated Hospital of Dalian, Dalian School of Medicine, Research Laboratory, Dalian, China  
1992-1993 Associate Professor, Second Affiliated Hospital of DMC, Dalian, China  
02/93-08/93 Visiting Assistant Research Scientist, University of Iowa Roy J. and Lucille A. Carver College of Medicine, Department of Radiology, Iowa City, IA  
09/93-06/96 Visiting Associate, Interventional Radiology, University of Iowa Roy J. and Lucille A. Carver College of Medicine, Department of Radiology, Iowa City, IA  
09/93-pres Attending Radiologist, Department of Radiology, VA Medical Center, Iowa City, IA  
07/94-09/94 Visiting Assistant Research Scientist, Department of Radiology, University of Iowa Roy J. and Lucille A. Carver College of Medicine, Iowa City, IA

- 07/96-12/00 Assistant Professor, Department of Radiology, University of Iowa Roy J. and Lucille A. Carver College of Medicine, Iowa City, IA
- 01/01-pres Associate Professor of Clinical Radiology, Department of Radiology, University of Iowa Roy J. and Lucille A. Carver College of Medicine, Iowa City, IA
- 12/01-01/02 Acting Director, Section of Cardiovascular/Interventional Radiology, Department of Radiology, University of Iowa Roy J. and Lucille A. Carver College of Medicine, Iowa City, IA
- 04/03-09/05 Acting Director, Section of Cardiovascular/Interventional Radiology, Department of Radiology, University of Iowa Roy J. and Lucille A. Carver College of Medicine, Iowa City, IA
- 10/05-8/07 Director, Interventional Radiology Fellowship Program, Department of Radiology, University of Iowa Roy J. and Lucille A. Carver College of Medicine, Iowa City, IA
- 08/08-pres Director, Division of Interventional Radiology, Department of Radiology, University of Iowa Roy J. and Lucille A. Carver College of Medicine, Iowa City, IA

**C. Honors, awards, recognitions, outstanding achievements (least to most recent)**

- 1986 Excellent Scientific Paper Award. Double contrast small intestine barium enema. Third Prize, from Dalian Branch of Chinese Medical Association, Dalian, China
- 1988 Young Scientist Research Award from the Provincial Education Committee, for work on transbronchial artery infusion therapy
- 1988 Annual Award of Excellence in Medicine, Dalian School of Medicine, Dalian, China
- 1989 Award for Excellent Worker in Science and Technology, the highest individual award given by the Municipal Health Bureau of Dalian, China
- 1990 Annual Award of Excellence in Medical Education, The Second Teaching Hospital, Dalian School of Medicine, Dalian, China
- 1990 Annual Award of Excellence in Medicine, Dalian School of Medicine, Dalian, China
- 1991 Selected by the China Educational Committee for a six-month scholarship in Foreign Studies at Beijing University, in preparation for international study
- 1992 Senior Scientist Award from the Provincial Educational Committee for a clinical histopathological study. Preoperative bronchial artery chemotherapy with CDDP and Mitomycin.
- 1996 Received national honor of presenting "Selected Abstract" during 1996 SCVIR Annual Meeting in Seattle, WA. Only six of 377 abstracts submitted were selected for this special presentation in the field of interventional radiology.
- 2003 Zahra K, Sun S, Karwal M, Sharafuddin MJ, Stolpen A, Ishigami K. Chemoembolotherapy for advanced hepatocellular carcinoma (HCC): Followup strategy and longterm survival. Poster Presentation Award, Third Place. 51<sup>st</sup> Annual Meeting of AUR, Miami, FL. April, 2003.
- 2004 Sun S, Golzarian J, Sharafuddin MJ, Small S, Lang EV. Non-visualization of portal vein during CO<sub>2</sub> WHV: Histological and hemodynamic correlation. Poster Award Winner. 2004, SIR 29<sup>th</sup> Annual Scientific Meeting, Phoenix, AZ.
- 2005 Employee of the year, Department of Radiology, UIHC
- 2005 M. Obuchi, M. Honda, A. Nishie, S. Sun, J. Golzarian, H. Mimura. 2692CE-e: Assessment of Intra and Extra Hepatic Regional Drug Distribution for Hepatic Arterial Infusion Chemotherapy by Slow-infusion MR Arteriography Using the

- 2005 Hepatic Arterial Infusion System. Certificate of Merit of Educational Exhibit, 91<sup>st</sup> Scientific Assembly and Annual Meeting of RSNA, 2005  
2005 Honorary Professor, The First Teaching Hospital, Harbin Medical University, P.R. China  
2005 Guest Professor, Dalian Medical University, P.R. China

## II. TEACHING AT THE UNIVERSITY OF IOWA

### A. Teaching assignments on semester-by-semester basis (least to most recent)

#### Classroom, Seminar, Teaching Lab

- 1985-1988 Respiratory and Circulatory System Lecturer  
1988-1991 Respiratory and Diagnostic Radiology Senior Lecturer  
1994-pres Didactic morning and/or noon conferences for radiology residents and fellows  
1994-pres American Board of Radiology preparatory course for radiology residents (Vascular/Interventional Segment)  
1995-pres Medical Students: M3-M4 rotation in Interventional Radiology  
1997-pres Medical Students: M3-M4 (Radiology Short Clerkship) – Lecture (Instruction of Angiography), Assistant Professor  
1997-pres Medical Students: M3-M4 (Radiology Short Clerkship)

#### Clinical Teaching

- 1988-1992 Establishment of a Visiting Fellowship Training Center at the Second Affiliated Hospital, Dalian School of Medicine, Dalian, China. Training Program: "Bronchial artery chemoembolotherapy"  
1990-1991 Hands-on training of residents during interventional procedures in the Department of Radiology, China  
1993-1994 Intensive hands-on training of residents during interventional radiological procedures and case read-outs  
1995-pres Medical Students: M3-M4 (Clinical Radiology Course)  
1995-pres Medical Students: M3-M4 (Interventional Radiology Elective)  
1995-pres Intensive hands-on training of Interventional Radiology fellows and residents during procedures and case read-outs

### B. Graduate students supervised

#### Graduate Students

- 1987-1990 Dong Z, MD. Research entitled, Chemoembolization of hepatocellular carcinoma. Dalian School of Medicine, Dalian, People's Republic of China

#### Postdoctoral Clinical Fellows in Interventional Radiology

- 1995-1996 Carl Black, MD  
Michael Fleedge, MD  
1996-1997 Daniel McCann, MD  
1997-1998 Dave Lacey, MD

1998-1999 Dave Kuzlov, MD  
Michael Steker, MD  
Tony Wrobllica, MD  
1999-2000 Emil Lee, MD  
Charles Leusner, MD  
2000-2001 Rick Lyerly, MD  
Amjad Safvy, MD  
Faraj Hana Al-kass, MD  
2001-2002 Fadi Youness, MD  
2002-2003 Faraj Hana Al-kass, MD (Six months additional training)  
2004-2005 Masood Jamil, MD  
2005-2006 Masood Jamil, MD  
Vikas Jain, MD  
Sugoto Mukherjee, MD  
2006-2007 Sandeep Laroia, MD  
Chirag V Patel, MD  
2007-2008 Sandeep Laroia, MD  
2008-2009 Anish Bansal, MD  
Lokesh Khanna, MD

Postdoctoral Residents in Diagnostic Radiology

1990-1994	D. Lee Bennett, MD Susan Marly, MD John Bormann, MD Charles Crouch, MD Robert Danielson, MD John Halloran, MD Rami Safadi, MD Jim Schwaiger, MD	Frederick Chen, MD Eric Fitzcharles, MD Akira Fujikawa, MD Jeff Goree, MD Mark Nathan, MD Bao Nguyen, MD Daniel Peterson, MD
1991-1995	Gary Aragon, MD Geoffrey Brown, MD Steven Davis, MD Tamara Hlavaty, MD Arne Michaelson, MD Brian Mullan, MD John Rogers, MD	
1992-1996	Abdulkader Al-Azzaz, MD Abel Castellano, MD John Hade, MD David Kuehn, MD Hoang Nguyen, MD Timothy Reiners, MD Michael Riley, MD Imad Zak, MD	
1993-1997	Steven Falconer, MD Joel G. Fletcher, MD David L. Lacey, MD Patrick P. Rheingans, MD Michael D. Rubin, MD	
1994-1998	Kevin Baskin, MD	

1995-1999 David Asinger, MD  
Marta Bogdanowicz, MD  
S. Leon Burrow, MD  
Lorenzo Carson, MD  
James Choi, MD  
Ronald Fuller, MD  
Dietrich Gerhardt, MD

1996-2000 Thomas Berg, MD  
Daniel Hoefler, MD  
John Holman, MD  
Rick Lyerly, MD  
Carl Raboi, MD  
Jeffery Van Beek, MD  
Joseph Varriano, MD

1997-2001 Michelle Kraut, MD  
Esther Argenyi, MD

1997-2002 M. Yvonne Dang, MD  
Cheryl Randel, MD  
Michael George, MD  
Shane Kraske, MD  
Bill Hession, MD

1998-2003 Pranav Patel, MD  
Randal Anderson, MD  
Scott Truhlar, MD  
Eric Bartlett, MD  
Geetika Khanna, MD

1999-2004 Jody Bolton-Smith, MD  
Jerry Decker, MD  
Kamran Janjua, MD  
Jeffery Peterson, MD  
David Van Roekel, MD  
Dina Yousef-Zahra, MD

2000-2005 Khalil Abu-Zahra, MBBS  
Matthew Berst, MD  
Eric Berst, MD  
Michael Dixon, MD  
Theodore Donta, MD, PhD  
Colin O'Brien, MD  
Maheen Rajput, MD

2001-2006	Andy Ellingson, MD Earl Maes, MD Joshua McDonald, MD Kim Olsen, MD Adnan Qalbani, MD David Rideout, MD Marc Beck, MD Mehul Doshi, MD	2002-2007	Brenton Harris, MD Anietie Okon, MD Saher Sabri, MD Derik Weldon, MD Eve Clark, MD Wei Fang, MD Bradley Hammett, MD J. Dawson Wolfe, MD
2003-2008	Steve Burke, MD Mohammad Asif Dogar, MD Jeffery Flermoen, MD Roopa Goswami, MD Joshua Lucas, MD Lee Marshall, MD Rakesh Patel, MD	2004-2009	Randy Anderson, MD Ahmad Izard, MD Roxana Leinbach, MD Kevin Llewellyn, MD Nita parekh, MD Matthew Peterson, MD Andrew Wu, MD Limin Yang, MD
2005-2010	Bao Do, MD Janet Dois, MD Wesley Ferley, MD Ameera Ismail, MD Joseph Jordahl, MD Dean McHaughton, MD Robert Post, MD		

### C. Other contributions to institutional programs

#### Institutional Conferences, Grand Rounds, Journal Clubs

1990	Lecture at Conference, Dalian Medical Association, Dalian, China (2 wks/yr, 4 hrs/wk)
1990-1991	Lecture, 5th Hospital of Shen Yang City, China (1 wk/yr, 8 hrs/wk)
1994-pres	Radiology Teaching Conference <ol style="list-style-type: none"> <li>1. Bone tumor embolization</li> <li>2. Massive hemoptysis – Bronchial artery embolization</li> <li>3. Bronchial artery chemoembolotherapy for treatment of lung cancer</li> <li>4. Hepatoma – Chemoembolotherapy</li> <li>5. Thrombolysis – General considerations</li> <li>6. Living related liver transplant – Working up hepatic arteriography</li> <li>7. Interventional Radiology curriculum conference, once monthly</li> <li>8. Uterine artery embolization for treatment of symptomatic fibroids</li> <li>9. Fallopian tube recanalization for treatment of infertility</li> <li>10. Transjugular Intrahepatic Portosystemic Shunt</li> <li>11. Percutaneous retrieval technique of malpositioned and migrated IVC Greenfield filter</li> <li>12. Chemoembolotherapy for HCC</li> <li>13. Endovascular management of hepatic pseudoaneurysm</li> <li>14. SIRT for treatment of liver metastasis from CRCA</li> </ol>
1994-pres	M&M Conference (Interventional Radiology Section and Department of Radiology), once monthly each

### Formal Study to Improve Teaching Abilities

1991           Advanced English communication; Training Center of Beijing Foreign Studies University, Beijing, China

#### **D.     Course materials (syllabi, instructional web pages, computer lab materials)**

1.    Development of a United States Teaching Center for bronchial artery chemotherapy
2.    Interventional Radiology Residents and Fellow Guidelines, 2003; revised 2005
3.    Interventional Radiology Fellowship Manual, Department of Radiology, University of Iowa, Iowa City, IA, 2003; revised 2005

### **III.    SCHOLARSHIP**

#### **A.     Publications or creative works (least to most recent)**

##### Peer-Reviewed Papers

1.    Sun S, Xu L, Zhou M. Selective bronchial arterial infusion with CDDP and Procaine in treatment of advanced bronchogenic carcinoma. Proceedings of the First National Conference of Interventional Radiology. Weifang, China. 1986;225-227.
2.    Ding Z, Sun S, Wang Q. Double contrast small intestine barium enema. Journal of Dalian School of Medicine. 1988;10(3):17-20.
3.    Sun S, Xu L. The survey of curative effects on advanced bronchogenic carcinoma cancer by bronchial artery infusion. Proceedings of the Third National Medical Conference for Youth. Beijing, China. 1988;189-192.
4.    Sun S, Xu L, Zhou M. The place of selective bronchial arterial infusion in the comprehensive treatment of an advanced bronchogenic carcinoma. Chinese Journal of Tuberculosis and Respiratory Diseases. 1989;12(5):286-287.
5.    Sun S, Xu L, Dong Z. Selective bronchial arterial infusion of carboplatin for treatment of advanced bronchial carcinoma. Proceedings of the National Conference of CDDP Derivative Anticancer Agents: Foundational and Clinical Studies. China. 1991;7-9.
6.    Sun S, Xu L, Dong Z. Experimental study on bronchial arterial infusion in dogs with polysaccharide solution as a carrier of CDDP. Proceedings of National Conference of CDDP Derivative Anticancer agents: Foundational and Clinical Studies. China. 1991;18-21.
7.    Dong Z, Sun S, Zheng HS. Experimental study on hepatic artery embolization with ethylocelluloses: CDDP microcapsules in dogs. Journal of Dalian School of Medicine, Dalian, China. 1992;14(1):28-31.
8.    Sun S, Bennett L, Lu CT. Vascular ring: Unusual cause of dysphagia in an adult with right-sided aortic arch and mirror-image branching. Am J Roentgenol. 1994;163:999-1000. Reply to Aortic or ductus diverticulum? Am J Roentgenol. 1995;165:487-488.
9.    Sun S, Lang EV. Bone metastases from renal cell carcinoma: preoperative embolization. J Vasc Interv Radiol. 1998;9(2):263-269.
10.   Farrell T, Lang EV, Sun S. Successful retrieval of unexpanded stainless-steel Greenfield filters: Report of four cases. J Vasc Interv Radiol. 1998;9(4):666-669.
11.   Sun S, Lang EV. Bronchial artery chemoinfusion for unresectable lung cancer. Seminars in Interventional Radiology. 1998;15(4):373-384.
12.   Sharafuddin MJ, Wroblecka TJ, Sun S, et al. Percutaneous vascular intervention based on gadolinium-enhanced MR angiography. J Vasc Interv Radiol. 2000;11(6):739-746.

13. Nishimura H, Zhang Y, Ohkuma K, Uchida M, Hayabuchi N, Sun S. MR imaging of soft-tissue masses of the extraperitoneal space. *RadioGraphics*. 2001;21:1141-1154.
14. Sharafuddin MJ, Andreson KJ, Sun S, Lang E, Stecker M. Primary extraperitoneal hemorrhage with hemodynamic collapse in patients on anticoagulation: Management with transcatheter selective arterial embolization. *J Vasc Interv Radiol*. 2001;12:1231-1234.
15. Sharafuddin MJ, Stolpen AH, Sun S, Leusner CR, Hoballah JJ, Sharp WJ, Corson JD. High-resolution time-resolved contrast-enhanced 3D MRA compared to 2D-TOF MRA for the identification of pedal runoff vessels. *J Vasc Interv Radiol*. 2002;13:695-702.
16. Sharafuddin MJ, Stolpen AH, Andreson KJ, Sun S, Lawton WJ, Dixon BS. Value of magnetic resonance angiography prior to percutaneous transluminal renal artery angioplasty and stenting. *J Vasc Interv Radiol*. 2002;13:901-908.
17. Sharafuddin MJ, Stolpen AH, Dang YM, Andreson KJ, **Sun S**, Yuh W. Indirect contrast-enhanced 3D MR-venography of ilio caval veins: MS-325 versus gadodiamide. *J Vasc Interv Radiol*. 2002.
18. Sharafuddin MJ, **Sun S**, Hoballah JJ. Endovascular management of venous thrombotic and occlusive disease of the lower extremities. *J Vasc Interv Radiol*. 2003;14:405-423.
19. Sharafuddin MJ, **Sun S**, Hoballah JJ. Endovascular management of venous thrombotic and occlusive disease of the upper torso and extremities. *J Vasc Interv Radiol*. 2002;13:975-990.
20. Sharafuddin MJ, Olson CH, **Sun S**, Kresowik TF, Corson JD. Endovascular treatment of celiac and mesenteric arteries stenoses: Applications and results. *J Vasc Surg*. 2003;38(4):692-698.
21. Ishigami K, **Sun S**, Berst MJ, Heery SD, Fajardo LL. Portal vein occlusion with aberrant left gastric vein functioning as a hepatopetal collateral pathway: Multislice CT portography. *JVIR*. 2004;15:501-504.
22. Golzarian J, Maes EB, **Sun S**. Endoleak: Treatment options. *Techniques in Vasc Intervent Radiol*. 2005;8:41-49.
23. Cai Z, Stolpen A, Sharafuddin M, McCabe R, Bai H, Potts T, Vannier M, Li D, Bi X, Bennett J, Golzarian J, **Sun S**, Wang G, Bai EW: Bolus characteristics based on Magnetic Resonance Angiography. *BioMedical Engineering OnLine* 2006, 5:53 (17Oct2006)
24. Burke S, Golzarian J, Weldon D, **Sun S**: Nonvariceal upper gastrointestinal bleeding. *Eur Radiol*, 2006; DOI 10.1007/s0030-006-0477-x
25. Bergmann OM, **Sun S**, Weydert J, Silverman W: Intrahepatic Trifistula causing bilhemia and hemobilia resulting from transjugular liver biopsy in the setting of biliary tract obstruction. *Gastrointestine Endoscopy* 2007, 66(4):848-850
26. Sharaffudin M, **Sun S**, at al: Long-term Outcome Following Stent-reconstruction of the Aortic Bifurcation: The Role of Geometric Determinants. In Print, 2008 *Annals of Vascular Surgery*
27. Hadi Rokni Yazdi, MD, Fadi Youness, MD, Sandeep Laroia, MD, **Shiliand Sun**, MD, Hicham Abada, MD, Melhem Sharafuddin, MD, Jafar Golzarian, MD. Mesenteric Artery Stenting for Chronic Mesenteric Ischemia. *Vascular Disease Management* 2007, 4(6):180-184

## Books and/or Chapters

### Books

- 1 **Sun S.** Selective bronchial artery infusion with CDDP for unresectable lung cancer. Dissertation Thesis. Dalian School of Medicine Press, Dalian, China: 1987.
- 2 Dong Z, **Sun S.** Embolization of liver carcinoma. Dissertation Thesis. Dalian School of Medicine Press, Dalian, China: 1990.
- 3 Golzarian J, **Sun S**, Sharafuddin MJ: Vascular Embolotherapy: A Comprehensive Approach. 2 Volumes, Springer Berlin Heidelberg New York, 2006

### Chapters

- 1 **Sun S.** Nursing of catheterization and drainage: Miscellaneous procedures – Arterial catheterization. Dalian Publishing House, Dalian, China: 1992 (book chapter).
- 2 **Sun S.** Bone metastasis from renal cell carcinoma: Preoperative embolization. In book “Vascular Embolotherapy: A comprehensive approach” Volumes II. Chapter 15, 189-199, Springer Berlin Heidelberg New York, 2006
- 3 Takahashi K and **Sun S.** Embolotherapy in portal hypertension. In book “Vascular embolotherapy: A comprehensive approach”. Volume I, Chapter 8, 99-103, Springer Berlin Heidelberg New York, 2006
- 4 Sharafuddin M, **Sun S**, Golzarian J. Embolotherapy: Basic Principles and Applications. Vascular embolotherapy: A comprehensive approach. Volume I, Chapter 1, 3-13, Springer Berlin Heidelberg New York, 2006
- 5 Abada HT, Golzarian J, **Sun S.** Interventional Management of Post Partum Hemorrhage. Vascular embolotherapy: A comprehensive approach. Volume I, P 107-118, Springer Berlin Heidelberg New York, 2006

### Abstracts

1. Sun S. The place of selective bronchial arterial infusion in the comprehensive treatment of an advanced bronchial carcinoma. China Medical Abstracts. 1990;7(2):107.
2. Sun S, Lang EV. Hypervascular bone metastases from renal carcinoma: preoperative embolization. Acad Radiol. 1995;2:1145.
3. Sun S, Lang EV. Preoperative embolization of hypervascular bone metastases from renal cell carcinoma: Factors affecting intraoperative blood loss. Society for Minimally Invasive Therapy. 1995;4(Suppl. 1);50.
4. Sun S. Bronchial artery chemo- and embolotherapy. Annual Meeting of the Western Angiographic and Interventional Society. Proceedings Syllabus. 1995.
5. Sun S, Lang EV. Bronchial artery chemo- and embolotherapy for unresectable bronchogenic carcinoma. JVIR. 1996;7(1; Part 2):194.
6. Sun S, Lang EV. Methods for retrieval of migrated and in situ caval filter. Accepted at the Annual Meeting of the American Roentgen Ray Society, San Francisco, CA. April 26-May 1, 1998.
7. Sharafuddin MJ, Stecker MS, Wroblecka JT, Sun S. Multiphase ultrafast gadolinium-enhanced MRA for aorto-ilio-femoral runoff evaluation. JVIR. 1999;10(2; Part 2):237.
8. Wroblecka TJ, Sharafuddin MJ, Sun S, Herrera M. Gadolinium-enhanced 3D magnetic resonance angiography as the primary imaging modality for planning percutaneous vascular interventions. JVIR. 1999;10(2; Part 2):239.
9. Heaney CJ, Sharafuddin MJ, Sun S, Corson JB, Yousef KA. Delayed assessment of hemodynamic and quality-of-life measures following aortic bifurcation stent reconstruction. JVIR. 2000;11(2; Part 2):295.

10. Andreson KJ, Sharafuddin MJ, Sun S, Stecker MS, Wibbenmeyer LA, Yousef KA. Spontaneous retroperitoneal hemorrhage with hemodynamic collapse: Management with transcatheter selective arterial embolization. *JVIR*. 2000;11(2; Part 2):296.
11. Dang Y, Sharafuddin MJ, Dixon BS, Leusner CR, Sun S, Yousef KA. Percutaneous management strategies in failing native arteriovenous hemodialysis fistulae. *JVIR*. 2000;11(2; Part 2):229.
12. Hoefer DJ, Lee EJ, Sharafuddin MJ, Sun S, Stolpen AH, Voigt MD. Multiphase ultrafast Gd-enhanced 3D MRA as a problem-solving modality in the evaluation of portal system branch patency. *JVIR*. 2000;11(2; Part 2):258.
13. Andreson KJ, Sharafuddin MJ, Dang YM, Sun S, Yousef KA, Safvi A. Pre-procedural MRA prior to endovascular intervention: Impact on iodinated contrast load and procedure duration. *JVIR*. 2001;12(Part 2):S27.
14. Safvi A, Sharafuddin MJ, Stolpen AH, Dang YM, Sun S, Yousef KA. Optimized dynamic high-resolution Gd-enhanced MRA compared to 2D TOE MRA for the identification of occult distal runoff vessels. *JVIR*. 2001;12(Part 2):S51.
15. Lyerly R, Stolpen AH, Sharafuddin MJ, Dang YM, Sun S, Yousef KA. Evaluation of vascular compression syndromes using MRA. *JVIR*. 2001;12(Part 2):S106.
16. Dang YM, Sharafuddin MJ, Stolpen AH, Anderson KJ, Lyerly R, Sun S. Indirect contrast-enhanced MR venography of ilio caval veins: Blood-pool versus conventional contrast agents. *JVIR*. 2001;12(Part 2):S118.
17. Sun S, Youness F, Sharafuddin M, Lang E, Farrell T, Small S. Low-profile percutaneous retrieval technique for malpositioned or misdeployed stainless steel Greenfield filter. *CVIR*. 2002;25(Suppl. 2):205.

#### Scientific Posters

1. Sun S, Lang EV. Methods for retrieval of migrated and in situ caval filter. Poster presentation, Annual Meeting of the American Roentgen Ray Society, San Francisco, CA. April 26-May 1, 1998.

#### **B. Areas of research interest and current projects**

##### Areas of Research Interest

1. Bronchial artery chemoinfusion therapy in Iowa (and the United States). Attracted patients from Florida, New York, Texas and Illinois to UIHC.
2. Bronchial artery embolization for massive hemoptysis.
3. Uterine artery embolization for treatment of symptomatic fibroids at UIHC.
4. Fallopian tube recanalization for the treatment of infertility at UIHC.
5. Chemoembolotherapy for variety of malignant tumors at UIHC.
6. TIPS for treatment of complications of portal hypertension at UIHC.
7. RF ablation for malignant tumors at UIHC.
8. SIR sphere embolization for malignant tumors at UIHC
9. Embolization of PAVM at UIHC
10. Embolization of renal angiomyolipoma at UIHC

##### Current Projects

1. Embolotherapy for Metastatic Neuroendocrine Tumor – Clinical research protocol in cooperation with General Surgery and Oncology at UIHC. Co-Investigator.

2. A randomized, double-blind trial comparing the efficacy and safety of enoxaparin with sodium heparin as prophylaxis against venous thrombolism after major trauma – A worldwide multiple centers study. Co-Investigator.
3. EPIX Study –Multicenter, Phase III study to determine the safety and efficacy of MS-325-enhanced MRA in patients with suspected peripheral vascular disease. Co-Investigator.
4. Azotemia in portal hypertension and the role of endothelin-1 and nitric oxide in inducing hepatorenal syndrome and refractory ascites – Intra-institutional study in cooperation with Department of Internal Medicine. In charge in clinical portion of the study; i.e. sample collection and pressure measurement during TIPS and transjugular liver biopsy procedures.
5. Synergistic CT-bronchoscopy for lung-cancer assessment – Competitive renewal study. NIH funding pending. Co-Investigator.
6. Image and Model Analysis of Lung Diseases. NIH funds, 10% effort. Co-Principal Investigator.
7. Co-principle investigator, **H**epatocellular Carcinoma Study of RFA and **T**hermoDox®. This is a pivotal multi-center international HEAT Study intends to be one of the largest RFA studies ever executed and will involve approximately 600 patients from North America, Europe and Asia.
8. Co-principle investigator, single center, prospective phase I/II study designed to assess the clinical performance of DC Bead loaded with doxorubicin as an adjunct to surgery rendering a locally advanced tumor of the extremity amenable to surgery.

**C. Published reviews of scholarship**

N/A

**D. Grants received**

Title	Image and model analysis of lung diseases
Source of grant:	National Institutes of Health (NIH)
Amount of direct funds:	\$176,800
Period of funding:	07/01/03–06/30/04
Principle investigator:	Hoffman EA
Percent of effort on grant:	10%
Role or contributions:	Co-Principal Investigator

**E. Invited lectures**

- |      |  |
|------|--|
| 1999 | Invited lecturer, Uterine artery embolization for symptomatic fibroids. St. Joseph's Hospital, Omaha, NE   |
| 2000 | Invited lecturer, Bronchial artery chemoinfusion therapy for unresectable lung cancer. New England SCVIR Annual Meeting, Boston, MA                                |
| 2000 | Invited lecturer, Bronchial artery chemoinfusion therapy for unresectable lung cancer. Department of Radiology, Creighton University School of Medicine, Omaha, NE |
| 2001 | Grand Rounds lecturer, Uterine artery embolization for symptomatic fibroids. Department of Obstetrics and Gynecology, University of Iowa, Iowa City, IA            |
| 2003 | Invited lecturer (Co-Presenter), Interventional management of acute hemorrhage. Fall Meeting, Iowa Radiological Society, Iowa City, IA                             |

- 2003 Invited lecturer, Chemoembolization for hepatocellular carcinoma. Surgery Postgraduate Conference, University of Iowa, Iowa City, IA
- 2005 Invited lecture, "Interventional Management of Hemorrhage", First Teaching Hospital, Harbin Medical University, P.R. China
- 2005 Invited lecture, "Interventional Oncology – Comprehensive management of Hepatic Malignancies", Department of Oncology, The Second Teaching Hospital, Dalian Medical University, P.R. China
- 2005 Invited lecture, "Interventional Management of Hemorrhage", The Second Teaching Hospital, Dalian Medical University, P.R. China
- 2005 Mock Board for Residents and Junior Faculty, Department of Interventional Therapy, 1<sup>st</sup> Teaching Hospital, Dalian Medical University, P.R. China
- 2005 Invited lecture, "Interventional Management of Hemorrhage", Department of Interventional Therapy, School of Medicine at Xuzhou, P.R. China
- 2006 Invited Lecture, "Selective Internal Radiation Therapy for Liver Metastasis from Colorectal Cancer", the 2<sup>nd</sup> Chinese National Conference of Minimally Invasive Therapy on Oncology, Guangzhou, P.R. China
- 2006 Invited Lecture, "Selective Internal Radiation Therapy for Liver Metastasis from Colorectal Cancer", the Interventional Annual Meeting of Anhui and Jiangsu provinces, Hefei, P.R. China
- 2006 Invited Lecture: "Selective Internal Radiation Therapy for Liver Metastasis from Colorectal Cancer" The 7<sup>th</sup> Congress of Chinese Society of Interventional Radiology, Shenyang, China, July 12-16, 2006
- 2006 Mock Board for Residents and Junior Faculty, Department of Interventional Therapy, 1<sup>st</sup> Teaching Hospital, Dalian Medical University, P.R. China, July 22, 2006
- 2006 Invited lecture: "Endovascular management of hepatic pseudoaneurysm."  
Invited lecture: "TIPS – application, technical consideration, and outcomes."  
Department of Interventional Therapy, 1<sup>st</sup> Teaching Hospital, Dalian Medical University, P.R. China, July 23, 2006
- 2007 Invited lecture: "Peripheral vascular disease – an overview." Department of Interventional Therapy, 1<sup>st</sup> Teaching Hospital, Dalian Medical University, P.R. China, March 24, 2007
- 2007 Invited Lectures: "Selective Internal Radiation Therapy for Liver Metastasis from Colorectal Cancer" and "Interventional Management of Hemorrhage."  
Department of Interventional Therapy, School of Medicine, April 4, 2007 Suzhou, China
- 2007 Invited lecture: "Chemoembolization for liver malignancies – clinical considerations and techniques." Global Embolization Symposium and Techniques, Barcelona, Spain, April 25-27, 2007

- 2007 Invited lecture: "Pre-operative embolization of bone metastasis from RCC."  
Global Embolization Symposium and Techniques, Barcelona, Spain, April 25-27,  
2007
- 2007 Invited lecture: "Morbidity and Mortality of Embolization – Cases Presentation."  
Global Embolization Symposium and Techniques, Barcelona, Spain, April 25-27,  
2007
- 2008 Invited lecture: "Transhepatic portosystemic shunt in treatment of portal  
hypertension complications – progress and current status". Department of  
Interventional Therapy, The 1<sup>st</sup> Teaching Hospital, Dalian Medical University,  
Dalian City, P.R. China, April 1, 2008
- 2008 Invited lecture: "Delayed Outcome Following Stent-Reconstruction of the Aortic  
Bifurcation - The Role of Geometric Determinants". The 7<sup>th</sup> Interventional Annual  
Meeting of Jiangsu provinces combined with The 8<sup>th</sup> National Meeting for Current  
Progression in Interventional Management of Peripheral Vascular disease, Wuxi,  
P.R. China, April 12<sup>th</sup>, 2008
- 2008 Invited lecture: "Kissing stent reconstruction for treatment of complex aortoiliac  
occlusion". Department of Interventional Therapy, School of Medicine, Suzhou,  
China, April 16<sup>th</sup>, 2008
- 2008 Invited lecture: "Kissing stent reconstruction for treatment of complex aortoiliac  
occlusion". The 8<sup>th</sup> Congress of Chinese Society of Interventional Radiology,  
Beijing, China, Aug. 20-24, 2008

### Conference Presentations

1. **Sun S.** Selective bronchial arterial infusion with CDDP in treatment of advanced bronchogenic carcinoma. The First National Conference of Interventional Radiology, Weifang, China. 1986.
2. **Sun S.** The survey of curative effects on advanced bronchogenic carcinoma with bronchial artery chemotherapy. The Third National Conference in Medicine for Youth, Beijing, China. 1988.
3. **Sun S.** Selective bronchial artery infusion with carboplatin for treatment of advanced bronchogenic carcinoma. The Second National Conference of Interventional Radiology, Hangzhou, China. 1990.
4. **Sun S.** Experimental study on bronchial artery infusion with polysaccharide solution as a carrier of CDDP. 9<sup>th</sup> Asian Conference for Radiologists and Radiological Technologists, Tianjin, China. 1992.
5. **Sun S, Lang EV.** Hypervascular bone metastases from renal carcinoma preoperative embolization. Poster, 43<sup>rd</sup> Annual Meeting of AUR, San Diego, CA. April, 1995.
6. **Sun S, Lang EV.** Preoperative embolization of hypervascular bone metastases from renal cell carcinoma: factors affecting intraoperative blood loss. Oral Presentation, 7<sup>th</sup> Annual International Conference of the Society for Minimally Invasive Therapy, Portland, OR. September 21-23, 1995.
7. **Sun S.** Bronchial artery chemo- and embolotherapy. Oral Presentation, Annual Meeting of the Western Angiographic and Interventional Society, San Diego, CA. October, 1995.
8. **Sun S, Lang EV.** Bronchial artery chemo-and embolotherapy for unresectable bronchogenic carcinoma. Oral Presentation, Annual Meeting of the Society of Cardiovascular and Interventional Radiology, Seattle, WA. March, 1996.

10. **Sun S.** Complication or coincidence? Thrombolysis complicated by spontaneous pneumothorax. SCVIR M&M Conference; Ashville, NC. August 16-20, 1997.
11. **Sun S.** Coil migration during embolization of large renal AVF and retrieval from right ventricle. SCVIR M&M Conference; Coeur D'Alene, ID. August 16-19, 1998.
12. Sharafuddin MJ, Stecker MS, Wroblecka JT, **Sun S.** Multiphase ultrafast gadolinium-enhanced MRA for aorto-ilio-femoral runoff evaluation. Presented at the 24<sup>th</sup> Annual Meeting of the Society of Cardiovascular and Interventional Radiology (SCVIR), Orlando, FL. 1999.
13. Wroblecka TJ, Sharafuddin MJ, **Sun S,** Herrera M. Gadolinium-enhanced 3D magnetic resonance angiography as the primary imaging modality for planning percutaneous vascular interventions. Presented at the 24<sup>th</sup> Annual Meeting of the Society of Cardiovascular and Interventional Radiology (SCVIR), Orlando, FL. 1999.
14. **Sun S.** Repeated acute occlusion of TIPS shunt. SCVIR M&M Conference, San Diego, CA. August, 1999.
15. Heaney CJ, Sharafuddin MJ, **Sun S,** Corson JB, Yousef KA. Delayed assessment of hemodynamic and quality-of-life measures following aortic bifurcation stent reconstruction. Presented at the 25<sup>th</sup> Annual Meeting of the Society of Cardiovascular and Interventional Radiology (SCVIR), San Diego, CA. 2000.
16. Anderson KJ, Sharafuddin MJ, **Sun S,** Stecker MS, Wibbenmeyer LA, Yousef KA. Spontaneous retroperitoneal hemorrhage with hemodynamic collapse: Management with transcatheter selective arterial embolization. Presented at the 25<sup>th</sup> Annual Meeting of the Society of Cardiovascular and Interventional Radiology (SCVIR), San Diego, CA. 2000.
17. Dang Y, Sharafuddin MJ, Dixon BS, Leusner CR, **Sun S,** Yousef KA. Percutaneous management strategies in failing native arteriovenous hemodialysis fistulae. Presented at the 25<sup>th</sup> Annual Meeting of the Society of Cardiovascular and Interventional Radiology (SCVIR), San Diego, CA. 2000.
18. Dang YM, Sharafuddin MJ, Leusner CM, Dixon BA, **Sun S,** Yousef K. Patterns of failure in native arteriovenous hemodialysis fistula. Presented at the 25<sup>th</sup> Annual Meeting of the Society of Cardiovascular and Interventional Radiology (SCVIR), San Diego, CA. 2000.
19. Hoefer DJ, Lee EJ, Sharafuddin MJ, **Sun S,** Stolpen AH, Voigt MD. Multiphase ultrafast Gd-enhanced 3D MRA as a problem-solving modality in the evaluation of portal system branch patency. Presented at the 25<sup>th</sup> Annual Meeting of the Society of Cardiovascular and Interventional Radiology (SCVIR), San Diego, CA. 2000.
20. **Sun S.** Retrieval of Un-deployed Greenfield IVC Filter. Presented at the Annual SCVIR M&M Conference, Atlanta, GA. September, 2000.
21. Anderson KJ, Sharafuddin MJ, Dang YM, **Sun S,** Yousef KA, Safvi A. Pre-procedural MRA prior to endovascular intervention: Impact on iodinated contrast load and procedure duration. Presented at the 26<sup>th</sup> annual Meeting of the Society of Cardiovascular and Interventional Radiology (SCVIR), San Antonio, TX. 2001.
22. Safvi A, Sharafuddin MJ, Stolpen AH, Dang YM, **Sun S,** Yousef KA. Optimized dynamic high-resolution Gd-enhanced MRA compared to 2D TOE MRA for the identification of occult distal runoff vessels. Presented at the 26<sup>th</sup> Annual Meeting of the Society of Cardiovascular and Interventional Radiology (SCVIR), San Antonio, TX. 2001.
23. Lyerly R, Stolpen AH, Sharafuddin MJ, Dang YM, **Sun S,** Yousef KA. Evaluation of vascular compression syndromes using MRA. Presented at the 26<sup>th</sup> Annual Meeting of the Society of Cardiovascular and Interventional Radiology (SCVIR), San Antonio, TX. 2001.
24. Dang YM, Sharafuddin MJ, Stolpen AH, Anderson KJ, Lyerly R, **Sun S.** Indirect contrast-enhanced MR-venography of ilio-caval veins: Blood-pool versus conventional

- contrast agents. Presented at the 26<sup>th</sup> Annual Meeting of the Society of Cardiovascular and Interventional Radiology (SCVIR), San Antonio, TX. 2001.
25. Denney B, Barnhart W, Cook-Granroth J, Hoffman E, Ross A, Wolf K, **Sun S**, Chaloupka J, Thomas K, Ferguson S, McLennan G. Management of malignant treobronchial obstruction using virtual bronchoscopy and customized nitinol stents. Presented at the Meeting of ATS, Atlanta, GA. May, 2002.
  26. **Sun S**, Youness F, Sharafuddin M, Lang E, Farrell T, Small S. Low-profile percutaneous retrieval technique for malpositioned or misdeployed stainless steel Greenfield filter. Presented at the Annual Meeting of Cardiovascular and Interventional Radiological Society of Europe (CIRSE), Lucerne, Switzerland. October 5-9, 2002.
  27. Abu-Zahra K, **Sun S**, Karwal M, Sharafuddin MJ, Stolpen A, Ishigami K. Chemoembolotherapy for advanced hepatocellular carcinoma (HCC): Followup strategy and longterm survival. Poster Presentation, 51<sup>st</sup> Annual Meeting of AUR, Miami, FL. April, 2003.
  28. Sharafuddin JM, **Sun S**, Bolton-Smith JA, Hoballah JJ, Sharp WJ, Corson JD. Predictors of delayed outcome following kissing stent reconstruction of the aortic bifurcation. Presented at the SIR 29<sup>th</sup> Annual Scientific Meeting in Phoenix, AZ. 2004.
  29. **Sun S**, Golzarian J, Sharafuddin MJ, Small S, Lang EV. Non-visualization of portal vein during CO<sub>2</sub> WHV: Histological and hemodynamic correlation. Poster Presentation at the SIR 29<sup>th</sup> Annual Scientific Meeting, Phoenix, AZ. 2004.
  30. **Sun S**, Golzarian J, Sharafuddin MJ, Lang EV, Small S. Preoperative embolization for bone metastases: Technical considerations and outcomes. Presented at the SIR 29<sup>th</sup> Annual Scientific Meeting, Phoenix, AZ. 2004.
  31. Sharafuddin MJ, **Sun S**, Golzarian J. Endovascular treatment of celiac and mesenteric artery Stenoses: Applications and results. Presented at the SIR 29<sup>th</sup> Annual Scientific Meeting, Phoenix, AZ. 2004.
  32. Golzarian J, Carlos L, **Sun S**. Comparison of two different angiographic endpoints for uterine fibroid embolization with PVA: A multicenter study. Presented at the SIR 29<sup>th</sup> Annual Scientific Meeting, Phoenix, AZ. 2004.
  33. Golzarian J, Lampman L, **Sun S**. Maes EB, Lohle P. Treatment of dyspareunia after uterine artery embolization. Presented at the CIRSE Annual Scientific Meeting, Barcelona, Spain. 2004.
  34. Abu Zahra K, **Sun S**, Sharafuddin M, Thorpe P, Golzarian J. Spontaneous extraperineal hemorrhage in patients with anticoagulation: Management by transcatheter embolization. Presented at the CIRSE Annual Scientific Meeting, Barcelona, Spain. 2004.
  35. Golzarian J, **Sun S**, Torres C, Lohle P. Comparison of two different angiographic endpoints for uterine fibroid embolization with PVA: A multicenter study. Presented at the 23<sup>rd</sup> International Congress of Radiology. June 25-29, 2004.
  36. **Sun S**, Jamil M, Karwal M, Small S, Golzarian J. Recurrence patterns after super-selective transarterial chemoembolization in patients with unresectable HCC. Society of Interventional Radiology Meeting. New Orleans, LA. March 31-April 5, 2005.
  37. Golzarian J, Sabri S, Small S, Stolpen A, Vibhakar J, **Sun S**. High rate of partial devascularization demonstrated by MR after uterine artery embolization for fibroids with spherical PVA. Annual Meeting and Postgraduate Course of the Cardiovascular and Interventional Radiological Society of Europe. Nice, France. September 10-14, 2005.
  38. **Sun S**, Jamil M, Golzarian J, Mimura H. Preoperative embolization for extremity bone metastases: Technical considerations, pathological correlation, and clinical outcomes. 91<sup>st</sup> Meeting of the Radiological Society of North America. Chicago, IL. December, 2005.

39. Obuchi M, Honda M, Nishie A, **Sun S**, Golzarian J, Mimura H, et al. Assessment of intra- and extra-hepatic regional drug distribution for hepatic arterial infusion chemotherapy by slow-infusion MR arteriography using the hepatic arterial infusion system. 91<sup>st</sup> Meeting of the Radiological Society of North America. Chicago, IL. December, 2005
40. **Sun S**, Jamil M, Jain V, Mimura H, Golzarian J. Interventional management of hepatic pseudoaneurysm. Presented at the 106<sup>th</sup> annual meeting of the American Roentgen Ray Society, April 30 – May 5, 2006, Vancouver, BC, Canada.
41. Wang F, Ji D, Lang Zh, Zhang Zh, Huang W, **Sun S**: Interventional Management of acute pulmonary embolism. Presented at the 106<sup>th</sup> annual meeting of the American Roentgen Ray Society, April 30 – May 5, 2006, Vancouver, BC, Canada
42. Zu, MH, **Sun S**: Interventional Treatment of Budd-Chiari Syndrome: "Through and Through" Technique from Different Approaches for Patients with completely occluded Hepatic vein/IVC. Presented at the 106<sup>th</sup> annual meeting of the American Roentgen Ray Society, April 30 – May 5, 2006, Vancouver, BC, Canada
43. Wang F, Ji D, Lang Zh, Zhang Zh, Huang W, **Sun S**. Experimental Study: Mechanical Thrombectomy for Acute Pulmonary Embolism. Presented at SIR 31<sup>st</sup> Annual Scientific Meeting, March 30-April 4, 2006, Toronto, Ontario, Canada
44. **Sun S**, Karwal M, Youness F, Laroia S, Patel C, Golzarian J: Tumor Destructive Ability of Superselective TACE on the Treatment of HCC - Correlation with Pathologic Findings. Presented at the 2007 SIR 32nd Annual Scientific Meeting in Seattle, Washington
45. Youness F, **Sun S**, Golzarian J: Hemodynamically significant bleeding in patients on anticoagulation therapy: anatomic correlation and management by transcatheter embolization. Presented at the 2007 SIR 32nd Annual Scientific Meeting in Seattle, Washington
46. Sanghvi T, Youness F, **Sun S**, Mimura H, Golzarian J: Rectus sheath hematoma with hemodynamic collapse: Management with embolization. Presented at the 2007 SIR 32nd Annual Scientific Meeting in Seattle, Washington
47. Patel, C. **Sun S**: Correlation of CT Findings in Pelvic Trauma with Pelvic Arteriogram in Anatomical Localization of Bleeding. Presented at the 2007 AUR Annual Meeting, Denver, Colorado.
48. **Sun S**, Karwal M, Youness F, Abada H, Golzarian J. Double chemoembolization phenomena (DCP) during superselective TACE for HCC. Accepted for presentation at the 2008 CIRSE Annual Meeting and Postgraduate course, Copenhagen, Denmark.
49. **Sun S**, Youness F, Laroia S, Abada H, Golzarian J. Arterial embolization for bleed from traumatic pubic symphysis diastasis associated with scrotal/labial hematoma. Presented at the 2008 SIR 33rd Annual Scientific Meeting in Washington DC.
50. **Sun S**, Patel C, Youness F, Laroia S, Abada H, Golzarian J. Pelvic trauma with hemodynamically unstable bleeding: CT in predicting site of bleed and correlated with arteriography. Presented at the 2008 SIR 33<sup>rd</sup> Annual Scientific Meeting in Washington DC.
51. Laroia ST, Abada H, Sharafuddin M, Laroia AT, Sun S: Interventional Procedures in obstetrics and gynecology: An overview. Accepted for presentation in European Congress of Radiology, March 6-10, Vienna, Austria.

**F. Pending decisions (grant proposals, book contracts)**

**IV. SERVICE**

**A. Offices held in professional organizations (least to most recent)**

Professional Affiliations

1988 Chinese Medical Association  
1988 Radiological Society of China  
1994 Radiological Society of North America  
1995 Association of University Radiologists  
1995 Society for Cardiovascular & Interventional Radiology  
1995 Iowa Radiological Society  
1998 Iowa Medical Society  
1999 American Medical Association  
2000 Cardiovascular and Interventional Radiological Society of Europe  
2005 Association of Program Director of Interventional Radiology  
2006 Association of Program Director in Radiology

Manuscript Reviewer

American Journal of Roentgenology  
Journal of Academic Radiology  
Journal of Vascular and Interventional Radiology  
Journal of American College of Radiology

Departmental, Collegiate or University Committees

1990-1993 Councilor, Academic Affairs Committee, Dalian Medical College, Dalian, China  
1994-pres Director, Interventional Radiology QA Committee, Department of Radiology, University of Iowa, Iowa City, IA  
2002-2003.1 Member, Promotion and Tenure Committee, Department of Radiology, University of Iowa, Iowa City, IA  
2003-2005 Member, Executive Committee, Department of Radiology, University of Iowa, Iowa City, IA

Media Coverage for My Work Being Done at UIHC on  
Bronchial Chemo Infusion Therapy (beginning March 1996)

Wire Services

Medical Tribune News Service  
United Press International

National Television

Boston – WHDH-TV (NBC)  
Seattle – KSTW-TV (CBS)  
Tacoma – KSTW-TV (CBS)  
Washington, DC – WUSA-TV (CBS)  
Tampa, FL – WTSP-TV (CBS)

Regional Print

Commercial Appeal – Memphis, TN  
Pacemaker – UIHC, Iowa City, IA, January, 1997

National Print

Popular Science, August, 1996

Regional Radio

Cedar Rapids – WMT-AM  
Detroit – WWJ-AM (CBS)

International Radio

Voice of America

National TV Channels

All News Channel  
Health Science TV

**B. Clinical assignments since last promotion (if applicable)**

1. Covering the entire spectrum of interventional radiology at UIHC
2. Covering the VAMC Interventional Service, contributing to the establishment of a VA contract