

CURRICULUM VITAE

Eric Michael Walser, M.D.

Present Position and Address:

02/2013 – Present Chairman and Professor of Radiology
John Sealy Distinguished Char of Radiology

Biographical:

Date of Birth: February 23, 1961
Birthplace: Ann Arbor, Michigan
Citizenship: United States
Home: PO BOX 3817 Galveston, TX 77552
Phone: (409)789-4948
Email Address: emwalser@utmb.edu, emwalser@gmail.com

Education:

07/84 – 06/88 The University of Texas Medical Branch at Galveston Medical Doctor
08/81 – 01/84 Cornell University Bachelor of Arts in Biology with minor in Biophysics
08/79 – 06/81 The University of Texas at Austin

Training (GME):

07/92 – 06/93 Indiana University Medical Center
Fellow: Interventional Radiology & Body Imaging
07/88 – 06/92 Indiana University Medical Center
Residency: Diagnostic Radiology

Board Certification:

06/04/1992 American Board of Radiology, Diplomate
11/03/1997 Certificate of Added Qualifications in
Vascular and Interventional Radiology

Licensure Information:

Texas State License H7101
Florida State License ME92489

PROFESSIONAL AND TEACHING EXPERIENCE

05/2020–Present Co-Creator of the University of Texas Consortium of Artificial Intelligence in Diagnostics (UT-CAID)

02/13 - Present Chairman and Professor of Radiology
John Sealy Distinguished Chair of Radiology
UTMB Department of Radiology
Galveston, Texas

09/12 – 02/13 Interim-Chairman and Professor of Radiology
The University of Texas Medical Branch
301 University Blvd.
Galveston, TX

09/11 – 09/12 Executive Vice Chairman and Professor of Radiology
The University of Texas Medical Branch
301 University Blvd.
Galveston, TX

07/07 – 10/11 Department of Radiology Consultant
Mayo Clinic, Jacksonville, Florida

07/06 – 10/11 Professor in Radiology College of Medicine
Mayo Clinic, Jacksonville, Florida

07/05 – 02/07 Senior Associate Consultant
Department of Radiology
Mayo Clinic
Jacksonville, Florida

06/99 – 07/05 Associate Professor of Radiology
Director of Vascular and Interventional Radiology
Director of Research
Joint Appointment: (July 2002 - present)
Associate Professor of Surgery
The University of Texas Medical Branch
301 University Blvd.
Galveston, TX 77555-0709

07/97 – 05/99 Diagnostic Radiology Associates of Dallas
St Paul Medical Center - Department of Radiology
5959 Harry Hines Blvd., Suite #101
Dallas, TX 75235

07/93 – 06/97 Assistant Professor of Radiology
The University of Texas Medical Branch
Chief of Diagnosis of Radiology
Director of Emergency Room Radiology
301 University Blvd.
Galveston, TX

CLINICAL RESPONSIBILITIES

1. Prostate cancer diagnosis and treatment.
2. Interventional radiology and oncology.
3. Started program at UTMB for transjugular intrahepatic portosystemic shunt procedure (TIPS) for treatment of bleeding gastroesophageal varices.
Approximately 130 patients treated
4. Initiated radiofrequency ablation for tumors at UTMB.
5. Started multidisciplinary hepatopancreaticobiliary service with Department of Surgery at UTMB.
6. Started IR clinical practice with Nurse Practitioner at UTMB
7. Started venous ablation at UTMB
8. Started prostate ablation program at UTMB
9. Initiated UT-CAID (University of Texas Consortium of Artificial Intelligence in Diagnostics)

RESEARCH INTERESTS

- | | |
|-----------------|--|
| 05/20 – Present | Artificial intelligence and deep learning in medical diagnostics |
| 02/13 - Present | Principal Investigator for laser ablation/cryoablation for localized prostate cancer – current |
| 12/05 | Research collaborator with Mayo liver transplant patient service establish multidisciplinary conference. |

GRANTS

Federal

- | | |
|---------------|---|
| 01/94 – 03/05 | Co-Investigator
The role of substrate cycling in energy metabolism.
Funded by Department of Health and Human Services (NHI) |
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Mayo Clinic

- | | |
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| 08/07 – 08/08 | Principal Investigator
Intraoperative, real-time monitoring of coagulation with laser spectroscopy
Funded by Mayo Clinic Jacksonville |
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GRANTS continued

UTMB

- 09/20-09/21 Co-Investigator
Application of artificial intelligence in diagnostic medicine to estimate hospital course and prognosis in patients with COVID disease.
With Peter McCaffery/Department of Pathology
the John Sealy Memorial Endowment Fund for Biomedical Research (JSME)
\$25,000/year
- 03/20-3/26 NG00000000000000000000985 (Klimberg;Meric-Bernstam) 03/01/20-02/28/26
"Texas Experimental Cancer Therapeutics Network - TEX CTN"
Major Goal(s): To discover novel molecular aberrations that drive carcinogenesis, increase our understanding of the tumor immune environment, and support our ability to offer novel cancer treatments through Phase I and II trials.
0.60 calendar
MD Anderson Cancer Center \$749,964

Industry

- 04/09 -12/11 Co-Investigator
A Phase III, Double-Blinded, dummy-controlled study of efficacy and safety of ThermoDox (Thermally Sensitive Liposomal Doxorubicin) with Radiofrequency Ablation (RFA) Compared to RFA-Alone for Treatment of Non-Resectable Hepatocellular Carcinoma. Funded by Celsion Corporation
- 01/02 – 12/02 Principal Investigator
A Phase 2/3 Open Label, Multicenter, Randomized, Controlled Study of Doxorubicin Hydrochloride Adsorbed to Magnetic Targeted Carriers (MTC-DOX) Administered by Intrahepatic Delivery (via Hepatic Artery Catherization) versus Intravenous Doxorubicin for Treatment of Patients with Unresectable Hepatocellular Carcinoma. Funded by FeRx Incorporated.
- 01/02 – 12/02 Co-Investigator
A Multicenter, Randomized, Open-Label, Two Dose, Comparative, Phase 3 Study to Determine the Safety and Efficacy of MS-325-Enhanced MRA in Patients with Known or Suspected Pedal Arterial Disease. Funded by EPIX Medical, Inc.
- 01/02 – 12/02 Collaborator
A Multicenter Randomized, Double-Blind, Parallel Group Trial to Demonstrate the Efficacy of Fondaparinux Sodium in Association with Intermittent Pneumatic Compression vs. Intermittent Pneumatic Compression (IPC) Alone for the Prevention of Venous Thromboembolic Events in High Risk Patients Undergoing Major Abdominal Surgery. Funded by Isotechnika, Inc.
- 01/02- 12/02 Principal Investigator

A Phase 2/3, Open Label, Multicenter, Randomized, Controlled, Study of doxorubicin Hydrochloride Adsorbed to Magnetic Targeted Carriers (MTC-DOX) Administered by Intrahepatic Delivery (via Hepatic Artery Catheterization) versus Intravenous Doxorubicin for Treatment of Patients with Unresectable Hepatocellular Carcinoma. Funded by FeRx Incorporated.

- 01/01 – 12/01 Principal Investigator
A Phase 2, Open Label, Multicenter, Single arm, Compassionate Use Study of Doxorubicin Hydrochloride Adsorbed to Magnetic Targeted Carriers (MTC-DOX) Administered by Intrahepatic Delivery (via Hepatic Artery Catheterization) for Patients with Unresectable Hepatocellular Carcinoma, Who Have Failed Intravenous Doxorubicin Therapy. Funded by FeRx Incorporated.
- 01/00 – 12/00 Principal Investigator
A Continuation Protocol to Provide Repeat Dosing Following Completion of a Phase I/II Escalating, Single Dose, Cohort Trial to Determine the Safety, Tolerance, Maximum Tolerated Dose, and Pharmacokinetic Profile of Intrahepatic Delivery(via Hepatic Artery Catheterization) of Doxorubicin Hydrochloride (DOX) Absorbed to Magnetic Targeted Carriers (MTC-DOX) in Patients with Hepatocellular Carcinoma. Funded by FeRx Incorporated.
- 01/99 - 12/99 Principal Investigator
A Phase I/II Escalating, Single Dose, Cohort Trial to Determine the Safety, Tolerance, Maximum, Tolerated Dose, and Pharmacokinetic Profile of Intrahepatic Delivery (via Hepatic Artery Catheterization) of Doxorubicin Hydrochloride (DOX). Funded by FeRx Incorporated.
- 01/99 – 12/99 Principal Investigator
A blinded, prospective study of cutting-needle versus coring-needle biopsy of renal allografts. Funded by Amedic.
- 01/95 -12/96 Principal Investigator
Phase III clinical trial evaluating the safety and efficacy of technetium 99m-p280 in the detection and localization of acute venous thrombosis by gamma scintigraphy compared with contrast venography. Funded by Diatide Tech, Inc.
- 01/94 – 12/95 Co-Investigator
A multicenter, randomized, partially blinded, parallel group, clinical trial to compare the efficacy and safety of twice and once daily subcutaneously administered enoxaparin and continuous infusion heparin in the treatment of patients with deep vein thrombosis with or without pulmonary embolism. Funded by Rhone-Poulenc Roer Pharmaceuticals, Incorporated.
- 01/94 – 12/94 Collaborator
Recombinant urokinase versus operative intervention as initial therapy for acute lower limb arterial occlusion. Funded by Abbott Laboratories.

Other

- 01/95 – 12/95 Co-Investigator
Amino acid and carbohydrate interactions in the regulation of nitrogen homeostasis during exercise and recovery. Funded by The University of Texas Medical Branch at Galveston.

COMMITTEES

- A. UTMB - Institutional
 1. Chair of Conflict of Interest Committee -2011- Present
 2. Institutional Compliance Committee - 2004
 3. Graduate Medical Education Executive Committee - 2002
 4. Junior Faculty Association - 1996
 5. Multidisciplinary Trauma Committee- 1994-96
 6. Emergency Room Advisory Committee - 1994-96
 7. Hospital CPI Team for IV Conscious Sedation - 1995

- B. UTMB - Departmental
 1. PACs/Computer Committee - 1995-96
 2. Radiology Executive Committee - 1994-96
 3. Film Library Management Committee - 1994-96
 4. Vascular and Interventional Radiology Section – 1999–200

- C. Mayo Clinic in Florida
 1. Clinical Practice Committee – 10/2006
 2. Cardiovascular Oversight Group Head
 3. Strategic Planning Committee Member 01/2005
 4. Vascular Center Planning Committee Member – 01/2005
 5. St. Luke’s Hospital Clinical Practice Committee Member 01/2005

EDUCATIONAL ACTIVITIES

Teaching

1. Bimonthly lectures to senior medical students on angiography and interventional radiology
2. Monthly morning and noon conferences for radiology residents
3. Monthly presentation of radiological cases at surgical grand rounds
4. Weekly interventional case conference and research meeting with residents and fellows
5. Weekly multidisciplinary conference between vascular surgery and interventional radiology.
6. Noon conferences with residents and fellows
7. Community CME lectures

Other Teaching Responsibilities:

1. Venous Thrombolysis for DVT
Vascular Disease Seminar
Jacksonville, FL 3/2006
2. Management of Deep Venous Thrombosis
Vascular Seminar Series
Jacksonville, FL 3/17/2006

Mentorship

Hernandez, Jose A (Fellow) Current Status: Associate Professor Outcomes: Case Report: Aortosternal Venous Compression in Patients with Aberrant Right Subclavian Arteries, AJR 2005	2003 - 2004
Savage, C (Resident) Outcomes: Percutaneous retrieval of intravascular foreign bodies (Exhibit). SCCM Critical Care Congress 2002, San Diego, 1/02	2002
Akinci, Devrim (Fellow) Current Status: Associate Professor Department of Radiology, Hacettepe University School of Medicine, Sıhhiye, Ankara Turkey Outcomes: Fat-Containing Lesions of the Liver: Cross-Sectional Imaging Findings with Emphasis on MRI. American Journal of roentgenology 2005: 184:1103-1110	2001 - 2002
Kathuria, Manoj (Fellow) Current Status: Assistant Professor (Radiodiagnosis), SGPGI, Lucknow	2001 - 2002
Contractor, Daniel (Fellow) Current Status: Associate Professor Private Practice, Newark, NJ	1999 - 2000
Turner, James (Fellow) Current Status: Associate Professor Denver Health Medical Center	1999 - 2000
Allen, G E (Resident) Outcomes: Jejunal arteriovenous malformation: preoperative super selective angiography and intraoperative localization using methylene blue. JIR 1997:12:7-11	1997
Ozkan, Orhan (Fellow) Description: Percutaneous Transtracheal Approach for Endobronchial Stenting, AJR, 2005 Current Status: Associate Professor Practicing in Ankara, Turkey	1996-1998

McNees, SW (Resident)	1996
Outcomes: Alleviation of Budd-Chiari syndrome after embolization of renal cell carcinoma. JVIR 1996; 11:15-8	
Moorthy, C (Resident)	1996
Outcomes: Rupture of an erosive peripheral pulmonary artery aneurysm associated with endocardial cushion defect. Emergency Radiology 1996; 3:253-7	
Boyvat, Fatih (Fellow)	1994-1995
Current Status: Associate Professor Baskent University Faculty of Medicine, Department of Radiology, Ankara	
Morgan, Robert (Fellow)	1993-1995
Description:	
1. Bronchial Artery Embolization	
2. Interventional Radiology Case Conference, UTMB: Percutaneous Management of bile duct injury after laparoscopic cholecystectomy (5/31/95)	
3. Percutaneous Radiologic Drainage of Pancreatic Abscesses, UTMB, (9/30/96)	
Current Status:	
Consultant Vascular Radiologist, St. George's Hospital Blackshaw Road, London SW17 0QT United Kingdom. Past president of the Cardiovascular and Interventional Radiology Society of Europe (CIRSE).	

SCHOLARSHIP

Presentations

IR – Time to Be a Real Doctor UTMB Annual Radiology Symposium University of Texas Medical Branch, Galveston, Texas	08/2019
MRI in Interventional Radiology: A New Frontier Keynote Speaker University of Texas Medical Branch, Galveston, Texas	12/2018
Dinner and Conversation Dallas Regional Leadership Council Campaign Dallas, Texas	10/2013
Treatment of Deep Vein Thrombosis Mayo Clinic Jacksonville Radiology Department Monthly Educational Meeting Jacksonville, Florida	11/2007

Laser Tumor Ablation 10/2005
Collaboration research effort initiated between CREOL/Mayo
involving laser tumor ablation & optical imaging
University of Central Florida
Orlando, Florida

HONORS AND AWARDS FOR EDUCATION

Editor's Recognition Award for Distinction in Reviewing 2011
Cardiovascular and International Radiology

Editor's Recognition Award for Distinction in Reviewing 2010
Cardiovascular and International Radiology

Certificate of Appreciation – Galveston College Radiography 06/2005
Advisory Board

Resident Teaching Award - University of Texas Medical Branch 01/1997

MEMBERSHIP IN SCIENTIFIC SOCIETIES

American College of Radiology (Member)

Radiological Society of North America (Member)

Society of Interventional Radiology – (Member)

American Roentgen Ray Society (Member)

American Society of Emergency Radiology (Member)

American Board of Radiology (Examiner)11/2018

HONORS

2007 Extrahepatic portal biliopathy not always an insignificant lesion –
Certificate of Merit Award, American Roentgen Ray Society.

2004 Best Doctors, Inc. as one of Best Doctors (radiologist) in United States

1996-1997 Best Doctors, Inc. as one of Best Doctors (radiologist) in United States

1988 Medical School Valedictorian, UTMB

1987-1988 Edward Randall Medical for Academic Excellence, UTMB

1987 Alpha Omega Alpha-Honor Medical Society, UTMB

1987 Honors in Surgery, UTMB

1986 Anne Lassiter Memorial Scholarship, UTMB

1986-1987	Lange Medical Publications Award, UTMB
1985	McGraw-Hill Publications Award, UTMB
1984-1986	Dean's List, UTMB
1984-1986	Competitive Academic Scholarship, UTMB
1981-1983	Dean's List, Cornell University
1979-1981	Cum Laude, UT in Austin

JOURNAL REVIEWING AND EDITORIAL BOARDS

- 2006 (March) Review, Journal of the Pancreas
- 2003-Present Reviewer, American Journal of the Medical Sciences
- 2001-Present Reviewer, American Journal of Roentgenology
- 2001-Present Reviewer, Investigative Radiology
- 2001-Present Reviewer, Journal of Heart and Lung Transplantation

JOURNAL PUBLICATIONS

1. Dubose TJ, Hill LW, Hennigan HW, Nichols DH, Mesaraups GG, Porter L, Marley L, Butschek CM, Karnaze GC, Walser E. Sonography of arcuate uterine blood vessels. *J Ultrasound Med.* 1985; 4(5):229-33. PMID:3889360.
2. Walser EM, Kopecky KK, Rowland R. Diffuse ileal conduit stenosis from Crohns disease. *Urol Radiol.* 1990; 12:160-2. PMID:2281581.
3. Walser EM. Mediastinal mass in a patient with lymphoma. *Indiana Med.* 1990; 83:568-9 PMID:2212586.
4. Cesani F, Ernst R, Walser E, Villanueva-Meyer J. Tc99m-sestamibi imaging of a Pancreatic Vipoma and parathyroid adenoma in a patient with multiple endocrine neoplasia type I. *Clin Nucl Med.* 1994; 6:532-4.
5. VanSonnenberg E, Wittich GR, Walser EM, Morgan RA, Nealon WH. Imaging plays essential role in cholecystectomy. *Diagnostic Imaging.* 1994; 16:67-70. PMID:10150905.
6. Morgan R, vanSonnenberg E, Wittich G, Walser E, Nealon W. Interventional radiology case conference. Percutaneous management of bile duct injury following laparoscopic cholecystectomy *AJR.* 1995; 165:985-90.
7. Morgan RA, vanSonnenberg E, Wittich GR, Nealon WH, Walser EM. Percutaneous management of bile duct injury after laparoscopic cholecystectomy. *AJR.* 1995; 165:985-990. PMID:7677006.
8. Morgan RA, Walser EM. Use of hook catheter to reverse unfavorable guide wire orientation during transjugular intrahepatic portosystemic shunt placement. *JVIR.* 1995; 6:922-4. PMID:8850670.

JOURNAL PUBLICATIONS continued

9. Morgan RA, Wittich GR, Walser EM, Nolsoe C, Goodacre BW, vanSonnenberg E. Vascular pitfalls in interventional radiology. *Seminars in Interventional Radiology*. 1995; 12(2):199-210.
10. Angel CA, Kocurek JN, Walser EM, Wittich GR, Warren MM, Swischuk LE. Antegrade balloon dilation of postoperative ureterovesical junction obstruction in children. *Pediatric Surg Intl*. 1996; 11:562-5.
11. Arya S, Crow WN, Hadjipavlou AG, Nauta HJW, Borowski AM, Vierra LA, Walser EM. Percutaneous transpedicular management of discitis. *JVIR*. 1996; 7:921-7. PMID:8951761.
12. Cesani F, Walser E, Briscoe EG, Villanueva-Meyer J. Renal hemorrhage detection with Tc-99m labeled erythrocytes in a patient with polycystic disease. *Clin Nuc Med*. 1996; 21(8):658-9.
13. Cesani F, Walser EM, Goodacre BM, Huynh K, Ali SA, Briscoe E. Agenesis of the right lobe of the liver. *Clin Nuc Med*. 1996; 21:38-9.
14. McNees SW, Morgan RA, Walser EM, Wittich GR. Alleviation of Budd-Chiari syndrome after embolization of renal cell carcinoma. *JVIR*. 1996; 11:15-8.
15. Moorthy C, Walser EM, John SD, Angel C, Swischuk LE. Rupture of an erosive peripheral pulmonary artery aneurysm associated with endocardial cushion defect. *Emergency Radiology*. 1996; 3:253-7.
16. Walser EM, Crow WN, Zwischenberger JB, Conti VR. Percutaneous tamponade of inadvertent transthoracic catheterization of the aorta. *Ann Thor Surg*. 1996; 62:895-6.
17. Walser EM, Harris VM, Harman JT, Park HM, Siddiqui AR. Quantification of intrahepatic portosystemic shunting after placement of a transjugular intrahepatic portosystemic shunt. *JVIR*. 1996; 7:263-7. PMID:9007808.
18. Allen GE, Walser EM, Morgan RA, Imbling F, Dy E, Adesokan A, Ko T. Jejunal arteriovenous malformation: preoperative superselective angiography and intraoperative localization using methylene blue. *JIR*. 1997; 12:7-11.
19. Kavanaugh PV, vanSonnenberg E, Wittich GR, Goodacre BW, Walser EM. Interventional radiology of the biliary tract. *Endoscopy*. 1997; 29:570-6. PMID:9342573.
20. Meadors J, vanSonnenberg E, Wittich GR, Goodacre BW, Walser EM. Nonsurgical management of complicated pancreatic inflammatory disease. *Practical Gastroenterology*. 1997; 21:43-7.
21. VanSonnenberg E, Wittich GW, Chon KS, D'Agostino HB, Casola G, Easter D, Morgan RA, Walser EM, Nealon WH, Goodacre BW, Stabile BE. Percutaneous radiologic drainage of pancreatic abscesses. *AJR*. 1997; 168:979-84. PMID:9124154.
22. Crow WN, Borowski AM, Hadjipavlou AG, Walser EM, Arya S, Calme MB, Amps J, Jensen R, Somisetty S, Alford B, Adesokan A. Percutaneous transpedicular automated nucleotomy for debridement of infected discs. *JVIR*. 1998; 9:161-5. PMID:9468412.

JOURNAL PUBLICATIONS continued

23. Henderson AM, McIntyre KE, Hunter GE, Walser EM, Schaper D. May-Thurner syndrome: three patients treated with catheter-directed thrombolysis and stent placement. *Vasc Surg.* 1998; 5:439-46.
24. Mittendorfer B, Sidossis LS, Walser E, Chinkes DL, Wolfe RR. Regional acetate kinetics and oxidation in human volunteers. *Am Jour Physiology.* 1998; 274(6 Pt I):E978-83.
25. Sidossis LS, Mittendorfer B, Walser E, Chinkes D, Wolfe RR. Hyperglycemia-induced inhibition of splanchnic fatty acid oxidation increases hepatic triacylglycerol secretion. *Am Jour Physiology.* 1998; 175(5 Pt I):E798-805.
26. Walser EM, McNeese SW, DeLa Pena O, Crow WN, Morgan RA, Soloway R, Broughan T. Portal venous thrombosis: percutaneous therapy and outcome. *JVIR.* 1998; 9:119-27. PMID:9468405.
27. Sidossis LS, Mittendorfer B, Chinkes D, Walser E, Wolfe RR. Effect of hyperglycemia-hyperinsulinemia on whole body and regional fatty acid metabolism. *Am Jour Physiology.* 1999; 276(3 Pt I):E426-34.
28. Sidossis S, Mittendorfer B, Walser E, Chinkes D, Wolfe R. Hyperglycemia inhibits liver fatty acid oxidation and increases triacylglycerol secretion in humans. *Lipids.* 1999; 34(Suppl):S95. PMID:10419104.
29. Walser EM, DeLa Pena R, Villanueva-Meyer J, Ozkan O, Soloway R. Hepatic perfusion before and after the TIPS procedure: impact on survival. *JVIR.* 2000; 11:913-8. PMID:10928532.
30. Johnson RD Jr, Walser E. 3D virtual angiography for evaluation of interventional stent repair of abdominal aortic aneurysms. *Medical Physics.* 2001; 28:1248.
31. Chaljub G, Shah RK, LaForte R, Ernst RD, Cesani F, Walser EM. Radiology acronyms 2002. *Applied Radiol.* 2002; 11:21-4.
32. Conrad JA, Lee DK, Chaljub G, Ernst RD, Adegboyega P, Gei AF, Walser EM. Placenta percreta: magnetic resonance imaging and temporary bilateral internal iliac artery balloon occlusion. *Journal of Women's Imaging.* 2002; 4:139-44.
33. Nealon WH, Walser E. Main pancreatic ductal anatomy can direct choice of modality for treating pancreatic pseudocysts (surgery versus percutaneous drainage). *Ann Surg.* 2002; 235(6):751-8. PMID:12035030. PMCID:1422503.
34. Ozkan OS, Walser E, Akinci D, Nealon W, Goodacre B. Guglielmi detachable coil erosion into the common bile duct after embolization of iatrogenic hepatic artery pseudoaneurysm. *J Vasc Interv Radiol.* 2002; 13:935-8.
35. Walser EM, Savage C, Zwischenberger JB. Thoracic imaging in the ICU. *Interventional Radiology.* *Chest Surg Clin N Amer.* 2002; 12(2):209-26.

JOURNAL PUBLICATIONS continued

36. Nealon WH, Walser EM. Duct drainage alone is sufficient in the operative management of pancreatic pseudocysts in patients with chronic pancreatitis. *Ann Surg.* 2003; 237:614-22. PMID:12724627. PMCID:1514521.
37. Walser EM, Ozkan OS, Raza S, Soloway R, Gajula L. Hepatic perfusion as a predictor of mortality after transjugular intrahepatic portosystemic shunt creation in patients with refractory ascites. *JVIR.* 2003; 14:1251-7. PMID:14551271.
38. Walser EM, Raza S, Hernandez A, Ozkan O, Kathuria M, Akinci D. Technical Innovations. Sonographically guided transluteal drainage of pelvic abscesses *AJR.* 2003; 181:498-500.
39. Walser EM, Savage C, Ozkan O, Zwischenberger JB. Percutaneous unknotting and retrieval of Swan-Ganz catheter (Case Report). *Ann Thorac Surg.* 2003; 75:1027. PMID:12645746.
40. Walser EM, Gomez G, Zwischenberger J, Ozkan O, Pulnik J, Gouner C, Meisamy S. Combined transthoracic and transtracheal closure of large bronchopleural fistulae. *J Laparoendoscopic & Advanced Surg Techniques.* 2004; 14(2):97-101.
41. Walser EM, Robinson B, Raza SA, Ozkan OS, Ustuner E, Zwischenberger J. Clinical outcome of airway stents for proximal versus distal malignant tracheobronchial obstructions. *J Vasc Interv Radiol.* 2004; 15:471-7. PMID:15126657.
42. Walser EM, Savage C, Zwischenberger JB, Ozkan OS, Woodside K, Schnadig V, Ustuner E. Transthoracic image-guided biopsy of lung nodules : when is benign really benign. *JVIR.* 2004; 15:161-4. PMID:14963182.
43. Warnede RM, Walser EM, Faruqi S, Jafri S, Bhutani MS, Raju GS. Cap-assisted endoclip placement for recurrent ulcer hemorrhage after repeatedly unsuccessful endoscopic treatment and angiographic embolization: case report. *Gastrointest Endosc.* 2004; 60:309-12. PMID:15278071.
44. Killewich LA, Walser EM. Case of the Month: Central venous compression and thrombosis from aberrant subclavian artery. Online publication from the American Venous Forum. 2004 Apr 16.
45. Bhanot P, Nealon W, Walser EM, Butani M, Tang W, Logrono R. Clinical, imaging, and cytopathological features of solid pseudopapillary tumor of the pancreas: A clinicopathologic study of three cases and review of the literature. *Diagnostic Cytopathology.* 2005; 33(6):421-428. PMID:16389690.
46. Hernandez JA, Walser EM, Swischuk LE. Aortosternal venous compression in patients with aberrant right subclavian arteries (case report). *AJR.* 2005; 184(5):1434-6.
47. Membreno F, Baez AL, Pandula R, Walser E, Lau DT-Y. HEPATOLOGY: Differences in long-term survival after transjugular intrahepatic portosystemic shunt for refractory ascites and variceal bleed. *J Gastroenterology and Hepatology.* 2005; 20(3):474-481.
48. Raza SA, Walser EM, Hernandez A, Ozkan O. Technical innovation – Percutaneous transtracheal approach for endobronchial stenting. *AJR.* 2005; 184:225-6. PMID:15615979.

JOURNAL PUBLICATIONS continued

49. Walser EM. Stent placement for tracheobronchial disease. *European Journal of Radiology*. 2005 Mar 5; doi:10.1016:321-330.
50. Walser EM, Nguyen M. Hepatic perfusion and hemodynamic effects of transjugular intrahepatic portosystemic shunts. *Semin Intervent Radiol*. 2005 Dec; 22(4):271-7. PMID:21326705. PMCID:3036297. DOI:10.1055/s-2005-925553.
51. Walser EM, Nealon WH, Marroquin S, Raza S, Hernandez JA, Vasek J. Sterile fluid collections in acute pancreatitis: catheter drainage versus simple aspiration. *Cardiovasc Intervent Radiol*. 2006 Jan-Feb; 29(1):102-7. PMID:16283578. DOI:10.1007/s00270-004-0220-4.
52. Walser EM, Soloway R, Raza SA, Gill A. Transjugular portosystemic shunt in chronic portal vein occlusion: importance of segmental portal hypertension in cavernous transformation of the portal vein. *J Vasc Interv Radiol*. 2006 Feb; 17(2 Pt 1):373-8. PMID:16517786. DOI:10.1097/01.RVI.0000194898.97672.D6.
53. Chen L, Walser EM, Schnadig V. Fatal hemorrhage secondary to ulcerated epiphrenic pseudodiverticulum. *Arch Pathol Lab Med*. 2006 Jun; 130(6):867-70. PMID:16740042.
54. Raza SA, Walser E, Hernandez A, Chen K, Marroquin S. Transhepatic puncture of portal and hepatic veins for TIPS using a single-needle pass under sonographic guidance. *AJR Am J Roentgenol*. 2006 Jul; 187(1):W87-91. PMID:16794144. DOI:10.2214/AJR.05.1342.
55. Chao CP, Paz-Fumagalli R, Walser EM, McKinney JM, Stockland AH, Falkensammer J, Hakaim AG, Oldenburg WA. Percutaneous protective coil occlusion of the proximal inferior mesenteric artery before N-butyl cyanoacrylate embolization of type II endoleaks after endovascular repair of abdominal aortic aneurysms. *J Vasc Interv Radiol*. 2006 Nov; 17(11 Pt 1):1827-33. PMID:17142714. DOI:10.1097/01.RVI.0000242188.04050.6D.
56. Stockland AH, Walser EM, Paz-Fumagalli R, McKinney JM, May GR. Preoperative chemoembolization in patients with hepatocellular carcinoma undergoing liver transplantation: influence of emergent versus elective procedures on patient survival and tumor recurrence rate. *Cardiovasc Intervent Radiol*. 2007 Sep-Oct; 30(5):888-93. PMID:17619218. DOI:10.1007/s00270-007-9111-9.
57. Broughan TA, Walser EM. Spontaneous hepatic hemorrhage in older women. *Am Surg*. 2007 Nov; 73(11):1147-50. PMID:18092652.
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77. Chen L, Walser EM, Schnadig V. Fatal gastrointestinal bleeding secondary to ulcerated epiphrenic diverticulum in a cirrhotic patient: a case report. (Exhibit). Texas Society of Pathologists Annual Meeting, Austin, Texas. 2005 Jan 21-22.

ABSTRACTS continued

78. Clemson LA, Walser EM, Lynch JE, Zwischenberger JB. Transthoracic Closure of Postpneumectomy Bronchopleural Fistula with Coils and Cyanoacrylate. *The Annals of Thoracic Surgery*. 2006; 82(5):1924-6.
79. Stockland AH, Willingham D, Walser EM, Paz-Fumagalli R, McKinney JM, Mai M, Dymek MS. Pancreas transplant venous thrombosis: role of endovascular interventions for graft salvage. *Cardiovascular and Interventional Radiological Society of Europe Athens, Greece*. Sept 8-12, 2007.
80. Willingham DL, Stockland AH, Paz-Fumagalli R, McKinney JM, Hughes CB, Nguyen JH, Hewitt WR, Grewal HP, Taner CB, Walser EM. Successful non-operative rescue of pancreas allografts with venous thrombosis. *Am J Transplant*. 2008 May; 8(Suppl2):557.
81. Begum R, Paz-Fumagalli R, Walser EM, Bathala V, Taner B, Keaveny AP, Dickson R, Nguyen JH. Outcome of partial splenic embolization in liver transplant recipients. *Am J Transplant*. 2009; 9(Suppl 2):523.
82. Gowda A, Walser E. MR-guided laser ablation of liver and kidney tumors. *Lasers Surg Med*. 2011 Feb; 43(Suppl 23):959.
83. Smith A, Naidu SG, Biegler P, Friese J, Walser EM. Efficacy of Percutaneous Thrombin Injection for Non-femoral Arterial Pseudoaneurysms *JVIR*. 2011 Mar; Vol 22(3):S150-S151.

INVITED LECTURES AT SYMPOSIA AND CONFERENCES

International

Preoperative chemoembolization in patients with hepatocellular carcinoma undergoing liver transplantation: influence of emergent versus elective procedures on patient survival and tumor recurrence rate.

CIRSE 2006

Rome, Italy

Workshop -Basic embolization technique: Blocking agents

09/2007

CIRSE 2007

Athens, Greece

Workshop Coordinator - Embolization technique 9/2013
Instructor for coils and plugs session
Acute pancreatitis case-based session
CIRSE 2013
Barcelona, Spain

Safety and Efficacy of Focal Laser Ablation (FLA) for Organ 9/2015
confined Prostate Cancer
CIRSE 2015
Lisbon, Portugal

INVITED LECTURES AT SYMPOSIA AND CONFERENCES continued

Image-guided Tumor Ablation – Beyond the Mainstream: 04/2017
Thyroid, Prostate, Lymph Nodes
Dublin, Ireland

CBD 1403 Arterial Gastrointestinal Bleeding 09/ 2018
CIRSE 2018
Lisbon, Portugal

National

Guided Percutaneous Fine Needle Aspiration Biopsy in Children 04/1990
The Society For Pediatric Radiology
Cincinnati, Ohio

Quantification of Portosystemic Shunting Following TIPS 04/1993
The American Roentgen Ray Society Annual Meeting
San Francisco, California

Portal Hypertension & Transjugular Intrahepatic Portosystemic Shunt Placement 09/11/1994
Texas Radiology Course
Austin, Texas

Fluid Collections Associated With Pancreatitis: Role of TC-99m HMPAO- 11/1994
Labeled Leukocytes
The Radiological Society of North America Annual Meeting
Chicago, Illinois

Thoracic Drainage and Biopsy 03/1995
Workshop
The Society of Cardiovascular & Interventional Radiology Annual Meeting
Ft. Lauderdale, Florida

Hybrid Therapy For Thrombosed Dialysis Grafts 03/1995
The Society of Cardiovascular & Interventional Radiology Annual Meeting
Ft. Lauderdale, Florida

Radiology of Portal Venous Hypertension and TIPS 04/29/1995

Radiology Seminar, A glimpse back and beyond: A century of imaginative imaging. The University of Texas Medical Branch at Galveston
Galveston, Texas

Central Line Placement 06/25/1995
The Texas Radiology Course II
Galveston, Texas

Transjugular Intrahepatic Portosystemic Shunt Placement 06/25/1995
The Texas Radiology Course II
Galveston, Texas

INVITED LECTURES AT SYMPOSIA AND CONFERENCES continued

Pulmonary Embolus: Diagnostic & Therapeutic Options in Interventional Radiology 07/20/1995
Radiology Seminar, University of Texas Medical Branch
Galveston, Texas

Use of Thrombolysis for Arterial Occlusions 09/23/1995
League of Vocational Nurses
Texas City, Texas

National

Protective pneumothorax for difficult interventions in the chest. 11/1995
81st Scientific Assembly and Annual Meeting of the Radiological Society of North America
Chicago, Illinois

Fluid Collections Associated With Acute Pancreatitis: Role of Tc-99m HMPAO-Labeled Leukocytes 11/1995
The Radiological Society of North America Annual Meeting
Chicago, Illinois

Scientific Exhibit 12/1995
81st Scientific Assembly and Annual Meeting of the Radiological Society of North America

Abscess Drainage/Biopsy Workshop 03/1996
The Society of Cardiovascular & Interventional Radiologists Annual Meeting
Seattle, Washington

Portal and Mesenteric Venous Abnormalities 09/28/1996
Cooley-Schreiber Radiological Society Meeting
Galveston, Texas

Scientific Exhibit 12/1996
82nd Scientific Assembly and Annual Meeting of the Radiological Society of North America

Hepatic Perfusion Before and After Transjugular Intrahepatic Portosystemic Shunting The Society of Cardiovascular And Interventional Radiology 22nd Annual Meeting Washington, District of Columbia	03/08/1997 - 03/13/1997
Hepatoma In-Patients With Portal Vein Thrombosis Having Transjugular Intrahepatic Portosystemic Shunts The Society of Cardiovascular And Interventional Radiology 22nd Annual Meeting Washington, District of Columbia	03/08/1997 - 03/13/1997

INVITED LECTURES AT SYMPOSIA AND CONFERENCES continued

Portal Hypertension and TIPS St. Paul Hospital Continuing Education Seminar for Radiology Technologists Dallas, Texas	08/19/1997
Tracheobronchial stents-indications, technique, results, and 3-D imaging 83rd Scientific Assembly and Annual meeting of the Radiological Society of North America Chicago, Illinois	11/1997

National

Hepatic Perfusion Before And After Transjugular Intrahepatic Portosystemic Shunting Society of Cardiovascular And Interventional Radiologist San Francisco, California	03/1998
Abdominal Abscesses: Imaging and Intervention St. Paul Hospital Continuing Education Seminar for Radiology Technologists Dallas, Texas	06/20/1998
Hemodialysis Graft Interventions Annual Seminar of the North Texas Chapter of the Association of Vascular and Interventional Radiographers (AVIR) Dallas, Texas	11/14/1998
A Radiologic Venous Access Service and Diagnosis and Management of Complications Related to Venous Access The 22nd Annual Cooley-Schreiber Radiological Society Meeting, Moody Gardens Hotel Galveston, Texas	10/01/1999 - 10/03/1999
The Role of the Interventional Radiologist, "Can't Leave Home Without One" The University of Texas Medical Branch, Section of Endoscopy – Workshops on Therapeutic Endoscopy, Shriners Burns Institute Auditorium Galveston, Texas	11/05/1999

Thrombolytic Therapy – Current Status 07/18/2000
"New Pharmacologic Strategies in Peripheral Vascular Disease (PVD)" (Angio Club), La Reserve Club
Corpus Christi, Texas

Percutaneous and Endovascular Tumor Ablation in Abdominal Malignancies 09/09/2000 -
Texas Radiology Course IX by UTMB - 2000 Update: Breast Imaging and 09/10/2000
Intervention, Advanced Imaging/Intervention, Pediatric Imaging and Medical
Ethics, Moody Gardens
Galveston, Texas

INVITED LECTURES AT SYMPOSIA AND CONFERENCES continued

Aortoiliac Anatomy By Virtual Angioscopy: Use in Pre-Operative Planning For 03/03/2001 -
Endovascular Repair of Abdominal Aortic Aneurysms 03/08/2001
The 26th Annual Scientific Meeting of the Society of Cardiovascular And
Interventional Radiologists
San Antonio, Texas

Vascular Disorders of the Bowels 10/01/2001
GI and Nutrition Course, University of Texas Medical Branch
Galveston, Texas

Role of TIPS and Complications 10/23/2001
Gastrointestinal Nutrition Course, University of Texas Medical Branch
Galveston, Texas

National

Role of TIPS and Complications
Gastrointestinal Nutrition Course, University of Texas Medical Branch 10/04/2002
Galveston, Texas

Interventional Radiology in Pancreatobiliary Diseases 03/20/2003 -
International Workshop on Therapeutic Endoscopy, Moody Gardens Hotel 03/22/2003
Galveston, Texas

Clinical Care in the Interventional Radiology Suite 03/27/2003 -
Workshop 04/01/2003
28th Annual Scientific Meeting of the Society of Interventional Radiologists
Salt Lake City, Utah

Salvage Procedures for the Failed TIPS 03/27/2003 -
Society of Interventional Radiology 04/01/2003
Salt Lake City, Utah

Tracheobronchial Stenting in Malignant Airway Disease 03/27/2003 -
Society of Interventional Radiology 04/01/2003
Salt Lake City, Utah

Hepatic Perfusion as a Predictor of TIPS Mortality in Patients With Refractory Ascites 03/27/2003 - 04/01/2003
Society of Interventional Radiology
Salt Lake City, Utah

Graft Stenting of Abdominal Aortic Aneurysms 04/19/2003
Texas Radiology Course X by UTMB – 2003 Update: Spine, Ethics, Endovascular Treatment of Abdominal Aortic Aneurysms, University of Texas Medical Branch Campus, Levin Hall North
Galveston, Texas

Clinical Care of the Interventional Radiology Patient 09/27/2003
Gulf Coast Chapter of the American Radiology Nurses Association; University of Texas Medical Branch
Galveston, Texas

INVITED LECTURES AT SYMPOSIA AND CONFERENCES continued

Virtual Nephroureteroscopy 11/08/2003
Texas Association of G.U. Surgeons Meeting, Moody Gardens Hotel-Ballroom
Galveston, Texas

TIPS 02/01/2004 - 02/04/2004
28th Annual Big Sky Radiology Conference
Big Sky, Montana

Stent Grafts for Aortic Aneurysms 02/01/2004 - 02/04/2004
28th Annual Big Sky Radiology Conference
Big Sky, Montana

National

Benign Biliary Disease and Interventions 02/01/2004 - 02/04/2004
28th Annual Big Sky Radiology Conference
Big Sky, Montana

Iatrogenic Injuries in Hospitalized Patients: Diagnosis and Intervention 02/01/2004 - 02/04/2004
28th Annual Big Sky Radiology Conference
Big Sky, Montana

Post-procedure Patient Follow-up Schedules and Pain Management Workshop 03/25/2004 - 03/30/2004
Clinical Care in the Interventional Radiology Suite. 29th Annual Scientific Meeting of the Society of Interventional Radiologists
Phoenix, Arizona

TIPS Failures: Causes and Salvage Procedures 03/25/2004 - 03/30/2004
Society of Interventional Radiologists
Phoenix, Arizona

Large-Bore Percutaneous Transpleural Access For Drainage And Thoracoscopy 03/25/2004 - 03/30/2004
Society of Interventional Radiologists
Phoenix, Arizona

Hepatic Perfusion as a Predictor of TIPS Mortality in Patients With Refractory Ascites Society of Interventional Radiologists Phoenix, Arizona	03/25/2004 - 03/30/2004
Sterile Fluid Collections in Acute Pancreatitis - Catheter Drainage Versus Simple Aspiration Society of Interventional Radiologists Phoenix, Arizona	03/25/2004 - 03/30/2004
Hepatocellular Carcinoma Gastrointestinal Department, University of Texas Medical Branch Galveston, Texas	04/07/2004

INVITED LECTURES AT SYMPOSIA AND CONFERENCES continued

To Err Is Human: Imaging and Intervention in Medical Mistakes 38th Annual Family Practice Review, San Luis Resort, Spa and Convention Center Galveston, Texas	05/06/2004 - 05/07/2004
Diagnosis and Treatment of Medical Mistakes Family Medicine Grand Rounds, Primary Care Pavilion, UTMB Galveston, Texas	08/11/2004
Chest Interventions 2005 SIR Annual Scientific Meeting New Orleans, Louisiana	04/2005

National

Clinical Care in the Interventional Radiology Suite 2005 SIR Annual Scientific Meeting New Orleans, Louisiana	04/2005
Transurethral Exchange Retrieval of Ureteric Stents Using a Wire Loop 105th Annual ARRS Meeting New Orleans, Louisiana	05/2005
Clinical Efficacy of the "Dilate and Wait" Percutaneous Treatment for Benign Biliary Strictures 105th Annual ARRS Meeting New Orleans, Louisiana	05/2005
Chest Interventions 2006 SIR Annual Scientific Meeting Toronto, Ontario, Canada	04/2006
Clinical Care in the Interventional Radiology Suite 2006 SIR Annual Scientific Meeting Toronto, Ontario, Canada	04/2006

Medical Errors and Radiology Tutorials in Diagnostic Radiology Big Island, Hawaii	02/2007
Pulmonary Manifestations of Cirrhosis Tutorials in Diagnostic Radiology Big Island, Hawaii	02/2007
Real-time monitoring of coagulation with laser spectroscopy. SIR 2007 Seattle, Washington	03/2007
Diagnosis and Treatment of Thoracic Aortic Disease Workshop Coordinator SIR 2008 Washington, District of Columbia	03/14/2008 - 03/18/2008

INVITED LECTURES AT SYMPOSIA AND CONFERENCES continued

Thoracic Vascular Interventions AVIR 19th Annual Scientific Meeting San Diego, California	3/2009
MR-Guided Laser Ablation of Liver and Kidney Tumors 31st Annual Conference of the American Society for Laser Medicine and Surgery Grapevine, Texas	04/2011
TDCJ Impact on The Department of Radiology University of Texas Medical Branch Galveston, Texas	02/2017

National

Creating Diagnostic Management Teams (DMT) Beckers Hospital Review Health IT + Clinical Leadership 2018 Chicago, IL	05/2018
The Role of the CMIO Beckers Hospital Review Chicago, IL	05/2019

INVITED PRESENTATIONS AND VISITING PROFESSORSHIPS

Invited Presentations

"Interactive case discussion forum 1." Complications and how to deal with them. CIRSE 2006 Rome, Italy	09/2006
TIPS - Current insight and controversies SIR 2007 Seattle, Washington	03/2007

Clinical Care in the Interventional Radiology suite Workshop 2007 SIR Seattle, Washington	03/2007
Extrahepatic portal biliopathy; not always an insignificant lesion Electronic exhibit: Interventional Radiology Certificate of Merit Award Recipient Authors: Runyan B, Walser E, Bridges, M, Stockland A, McKinney JM, Paz-Fumagalli R 107th Annual Meeting American Roentgen Ray Society Orlando, Florida	05/06/2007
Management of Major Hemoptysis CIRSE 2007 Athens, Greece	09/2007
Imaging modality options for thoracic aorta update Charing Cross International Symposium London, United Kingdom	04/2008
TEVAR does not require CT follow-up 31st Charing Cross International Symposium London, United Kingdom	04/2009
EMT - coils & plugs Workshop to teach (1) the specific indications for coils and plugs, and (2) limitations of coils and plugs and how they should be prepared and deployed CIRSE 2010 Valencia, Spain	10/2010
Venous Access Workshop CIRSE 2011 Munich, Germany	09/2011
EMT-HoW 1-2/Coils & Plugs Instructor, Hands-On Workshop "Embolization: materials & tools" CIRSE 2011 Munich, Germany	09/2011

VISITING PROFESSORSHIPS

Endovascular Treatment of Chronic Arterial Occlusive Disease Endovascular and Surgical Therapy for Common Vascular Problems: A Symposium for Primary Care Physicians League City, Texas	05/25/1995
Venous Access and Dialysis	04/08/2000

The M.D. Anderson Interventional Radiology Residency Review Course, M.D. Anderson Cancer Center Houston, Texas	
Arterial Diagnosis and Intervention The M.D. Anderson Interventional Radiology Residency Review Course, M.D. Anderson Cancer Center Houston, Texas	04/08/2000
New Pharmacologic Therapies for the Treatment of PVD (Peripheral Vascular Disease) Peripheral Vascular Disease Dinner Meeting (Angio Club), Del Frisco's Fort Worth, Texas	10/23/2000

VISITING PROFESSORSHIPS continued

New Pharmacologic Approaches to the Treatment of Vascular Disease (Presenter and moderator for satellite symposium) 10th Annual Vascular Satellite Symposium Houston, Texas	04/28/2001
Peripheral Vascular Disease Interventional Radiology Board Review Course, MD Anderson Cancer Center Houston, Texas	05/05/2001
Peripheral Vascular Disease Interventional Radiology Board Review Course, MD Anderson Cancer Center Houston, Texas	04/27/2002
Advances in Interventional Radiology 2002 CME lecture at the Baroque Houston, Texas	12/16/2002
Catheter Directed Arterial Therapy M.D. Anderson Cancer Center Oncologic Interventional Radiology Conference The Woodlands, Texas	01/22/2004 - 01/23/2004
Alternative Hepatobiliary Tumor Therapy M.D. Anderson Cancer Center Oncologic Interventional Radiology Conference The Woodlands, Texas	01/22/2004 - 01/23/2004
Panelist The 7th Annual Houston Series: Evening with the Experts 2004, The Dunstan Houston, Texas	02/26/2004
Diagnosis and Treatment of Medical Mistakes University of Texas Health Science Center at Houston (Diagnostic Clinic of Houston) Houston, Texas	05/20/2004
Diagnosis and Treatment of Medical Mistakes Mainland Medical Center (Diagnostic Radiology) Texas City, Texas	07/13/2004

Diagnosis and Treatment of Medical Mistakes
Mid-Jefferson Hospital and Park Place Medical Center
Nederland, Texas

08/05/2004

Diagnosis and Treatment of Medical Mistakes
Conroe Regional Medical Center
Conroe, Texas

09/20/2004

WORKSHOPS

1. **Walser, E.** Embolization: Materials and Tools; Coils and Plugs. CIRSE , Lisbon, Portugal, September 15-19, 2012
2. **Walser, E.** Post-procedure Patient Follow-up Schedules and Pain Management. Clinical Care in the Interventional Radiology Suite. 29th Annual Scientific Meeting of the Society of Interventional Radiologists, Phoenix, Arizona, March 25-30, 2004.
3. **Walser, E.,** Smouse, B., Dolen, E., Morello, F., Dowling, K., Soulen, M., Katz, M., Mallow, P. Clinical Care in the Interventional Radiology Suite. 28th Annual Scientific Meeting of the Society of Interventional Radiologists; Salt Lake City, Utah; March 27-April 1, 2003.
4. **Walser, E.,** Harris, V., D'Agostino, H., Dawson, S., Johnson, M., Krol, K., Moulton, J., Palestrant, A. Abscess drainage/biopsy. The Society of Cardiovascular & Interventional Radiologists Annual Meeting; Seattle, Washington; March 1996.
5. **Walser, E.M.,** Palestrant, A. Thoracic drainage and biopsy. The Society of Cardiovascular & Interventional Radiology Annual Meeting; Ft. Lauderdale, Florida; March 1995.

I have read and take responsibility for the information in this document



Signature Date

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APPROVED COD: May 2018