

**CURRICULUM VITAE
ERIC VANSONNENBERG MD
May 2025**

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Family: Wife—Misa Stroker-vanSonnenberg, MD, PharmD
Children—Emily, Polly, Erik Clint II

Education: University of Cincinnati
College of Medicine
Cincinnati, Ohio M.D. 1973

George Washington University
Washington, D.C.
Bachelor of Science, Zoology 1968

Phoenix Seminary (Masters of Divinity student) current

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Society Fellowships:

Fellow, Society of Abdominal Radiology

Honorary Fellow, Royal Society of Australia/New Zealand Radiology

Training:

Massachusetts General Hospital
Harvard Medical School
Boston, Massachusetts
Residency: Diagnostic Radiology
Fellow: CT, Ultrasound, GI, and
Interventional Radiology
1976-1980

New York Medical College
Metropolitan Hospital
Residency: Internal Medicine
Chief Resident
1974-1976
1976

New York Medical College
Metropolitan Hospital
Internship in Surgery (Rotating)
1973-1974

Academic Appointments:

University of Arizona College of Medicine, Phoenix
Clinical Professor of Radiology
2013-current

David Geffen School of Medicine at UCLA
Visiting Professor of Medicine
Clinical Professor of Radiology
2012--2019

Arizona State University, Adjunct Professor
Emeritus College
2007-current

Chairman and Professor of Radiology
St. Joseph's Hospital and Medical Center
Phoenix, Arizona
2005-2008

Consultant Interventional Radiologist
Children's Hospital
Harvard Medical School
Boston, Massachusetts
2002 - 2005

Chief of Radiology 2000 – 2004
Dana Farber Cancer Institute
Harvard Medical School
Boston, Massachusetts

Visiting Professor of Radiology 1999 - 2004
Brigham and Women's Hospital
Harvard Medical School
Boston, Massachusetts

University of Texas Medical Branch 1993 - 1998
Galveston, Texas
Chairman and Professor of Radiology
Professor of Internal Medicine and Surgery

University of California, San Diego 1989 - 1993
Professor in Residence,
Radiology and Medicine

University of California, San Diego 1984 - 1989
Associate Professor in Residence
Radiology and Medicine

University of California, San Diego 1981 - 1984
Assistant Professor of Radiology

Harvard Medical School 1980 - 1981
Massachusetts General Hospital
Instructor in Radiology

Harvard Medical School 1979-1980
Massachusetts General Hospital
Clinical Fellow in Radiology

Certification: Board Certified, American Board of Radiology 1980
Board Certified, American Board of Internal Medicine 1977
National Board of Medical Examiners 1973
ACLS/BLS 2021

Licensures:	Arizona State License	2004
	Texas State License	1995
	California State License	1982, 2009 (current)
	Massachusetts State License	1977
	New York State License	1975
	DEA	FV2153663
	NPI	192211
	ACLS/BLS	2021 (renewed)
	ORCID	0000-0002-4655-9358

Current & Recent Positions:

David Geffen School of Medicine at UCLA

Problem Based Learning Instructor (1st & 2nd yr students)
2014-2020

University of Arizona, College of Medicine Phoenix 2014-current

Instructor, Anatomy (1st year students)
 Facilitator, Case Based Instruction Blocks (GIMDO, ITM, MBLD, Neuro-Musculo-Skeletal, GIMDN, REBLS) (1st, 2nd years)
 Instructor, Simulation Lab in Procedures (3rd year students)
 Instructor, Internal Medicine, clerkship block (3rd year students)
 Mentor, Scholarly Projects (1st, 2nd, 3rd, & 4th year students)
 Scholarly Projects Faculty (1-4th yr students)
 Scholarly Projects Pathways Student Advisor
 Director, Student Radiology Interest Group (1st/2nd year students)
 Instructor, Neurology Interest Sim Lab Group (1st year students)
 Instructor, Ultrasound Sim Lab, (1st & 2nd year students)
 Instructor, Simulation Lab—US-guided Central Line placement
 Instructor, Simulation Lab—Acute Anaphylaxis, Dx & Rx
 Instructor, Simulation Lab—Pulmonary Embolism, Dx & Rx
 Instructor, Simulation Lab—Rhabdomyolysis
 Career & Professional Advisor, Student Affairs (~100 students/yr)
 Instructor, Simulation Lab, Thoracentesis Procedure
 Instructor, Simulation Lab, Central Line Placement
 Director, Radiology Independent Studies
 Facilitator, Introduction to Medicine Block
 Facilitator, Molecular Basis of Disease
 Faculty Advisor, Diagnostic Radiology Interest Group
 Faculty Advisor, Interventional Radiology Interest Group

Mentor, PAL Block Faculty Advisor, Independent Studies Radiology
Lecturer, GIMDN 2nd year students
Faculty Advisor, 1st Generation Medical Students Interest Group
Faculty Advisor, Artificial Intelligence (AI) Interest Group
Faculty Advisor, Rad-Aid

Research Consultant, Department of Surgery, Banner University Medical Center

Sim Lab Instructor, Department of Radiology, UACOMP, Banner University
Medical Center, 2023

Kern/UCLA Medical Center

2009-14

Chief Academic Officer
Vice Chair of Radiology
Chief of Interventional Oncology
Chair, IRB
Chair, Graduate Medical Education Committee
Chair, Continuing Medical Education Committee
Designated Institutional Official (DIO)
Director of Medical Education
Chair, Medical Student Clerkship Committee

SOCIETY MEMBERSHIPS

New England Roentgen Ray Society (NERRS)

- Vice President 2003-04
- President-elect 2004-2005

Radiology Society of North America (RSNA)

Society of Gastrointestinal Radiology (SGR)

- Research Award Committee (1992)
- Membership Committee
- Executive Committee (1996-2005)
- Secretary-Treasurer (1998-99)
- President (2000-01)
- Cannon (Gold) Medal Award 2015

American Institute of Ultrasound in Medicine (AUM)

American Roentgen Ray Society (ARR)

Association of University Radiologists (AUR)

Society of Thoracic Radiology (STR)

- Committee on Standards (1992-95)

Western Angiographic Society

San Diego Radiology Society

- Program Co-Director 1987-88
- Program Director 1988-1992
- Executive Committee (1988 - 1993)
- Treasurer (1991-92)
- President-Elect (1993)

San Diego Gastroenterological Society

International Society of Hepato-Biliary Pancreatic Radiology (ISHBPR)

- Program Committee
- Nominating Committee
- Executive Committee (1992 - 1996)
- Treasurer (1992-1993)
- Vice President (1993-1994)
- President (1995-1996)

American College of Radiology (ACR)

- Committee on Accreditation (1992)
California Radiological Society

Society of Minimally Invasive Therapy (SMIT) -- Executive Committee

Society of Uroradiology (SUR)(1992 - present)

Society of Chairmen in Academic Radiology (1993 - 1998)

International College of Surgeons (1994 - present)

Society for Advancement of Women's Imaging (SAWI) (1994 - present)
- Executive Committee (1995 - 1997)

Society of Cryosurgeons (1996 - present)

American Society of Physician Executives (1996 - present)

American College of Radiology (ACR)

American Medical Association (AMA)

American Roentgen Ray Society (ARRS)

Cooley Schreiber Radiological Society

Galveston County Medical Society

Sociedad Mexicana de Radiologia y Imagen (Honorary)

Texas Medical Association (TMA)

Texas Radiological Society (TRS)

UTMB Internal Medicine Alumni Society

New England Roentgen Ray Society
- Vice President (2003)

European Society of Interventional Radiology (CIRSE) (2003-present)

Society of Interventional Radiology (2004-present)

European Society of Gastrointestinal Radiology (2002-present)

Society of Computer Assisted Radiology & Surgery (2007-present)
- Program Committee (2010-present)

Royal Society of Medicine, Australia/New Zealand (Honorary)

Kern County Medical Society (2011-)

HONORS & AWARDS

Science Foundation Award, 1962.

National Merit Scholar, 1964.

Regents Scholarship, 1965-69.

Chemistry Honor Student, Colgate University, 1966.

Chief Resident, Internal Medicine, 1976, New York Medical College.

"Treatment of Major Hypotensive Reactions Due to Intravenous Contrast, with Emphasis on Volume Therapy--8 Year Review Including 50 Patients". Radiology Grand Rounds, Massachusetts General Hospital, Boston, MA (January 1978).

Massachusetts General Hospital Resident Representative to New England Roentgen Ray Society Film Panel, 1979.

Simeone J, Mueller P, vanSonnenberg E, Isler R, Ferrucci JT Jr., Taveras J: "Small parts ultrasound imaging of the thyroid and parathyroid glands" - Certificate of Merit Exhibit at Radiologic Society of North America 11/80, Dallas, Texas.

Japan Radiologic Society, Keynote Speaker, "Interventional Radiology", Tokyo, Japan, 1983.

"Technique, Problems, and New Areas in Percutaneous Abscess Drainage". Grand Rounds--Kyoto University School of Medicine, Kyoto, Japan (1/24/83)

"Problems and New Concepts in Percutaneous Abscess Drainage". Surgery and Radiology Grand Rounds, University of Kansas Medical Center, Kansas City, KS (2/3/83).

vanSonnenberg E, Ferrucci JT Jr, Mueller PR, Simeone JF, Wittenberg J: "Percutaneous Abscess Drainage" (Runner-up Outstanding Exhibit at the 8th World Congress of the Collegium Internationale Chirurgiae Digestivae, 9/84, Amsterdam, The Netherlands).

"Percutaneous Gastrostomy -- Advantages and Disadvantages of Several Techniques"; Society of Gastrointestinal Radiologists' Award Paper, 1984.

"Diagnosis and Radiologic Management of Abscesses". Surgical Grand Rounds, Kern Medical Center, Bakersfield, CA (2/1/84).

"Percutaneous Gastrostomy and Gastroenterostomy" - American Roentgen Ray Award Session, Presentation of SGR Award Paper, Boston, MA, 1985.

vanSonnenberg E, Wittich GR, Cabrera OA, Quinn SF, Willson SA, Casola G: "Percutaneous Gastrostomy and Percutaneous Gastroenterostomy"; Radiological Society of North America, Certificate of Merit, Chicago, Illinois, November 1985.

"Impact of Interventional Radiology on Clinical Medicine". Medical Grand Rounds, UCSD Medical Center, San Diego, California (9/25/85).

George Jacobson Memorial Lecture, Society of Graduate Radiologists and Faculty of LA County-USC Medical Center, "Advances in GI Interventional Radiology", 1986.

Charles T. Dotter Memorial Lecture in Radiology, Oregon Radiological Society and Oregon Health Sciences University, "Imaging and Intervention of the Pelvis and Retroperitoneum", April, 1987.

Charles T. Dotter Memorial Lecture in Radiology, Oregon Radiological Society and Oregon Health Sciences University, "Controversies and New Techniques in Interventional Radiology", April, 1987.

vanSonnenberg E, Casola G, Wittich GR, Hofmann AF, Keightley AM, Christensen R, Zakko S, Withers C: "Diagnostic and Therapeutic Percutaneous Gallbladder Procedures"; Certificate of Merit Exhibit, Radiological Society of North America, Chicago, Illinois, December 1986.

Wittich GR, vanSonnenberg E, Karnel F, Kumpman W, Hajek D, Mostbeck G, Neuhold A: "Percutaneous Drainage of Pancreatic and Lesser Sac Fluid Collections: Variants of Safe Access"; Certificate of Merit Exhibit, Radiological Society of North America, Chicago, Illinois, December 1986.

Society of Gastrointestinal Radiology E-Z-EM -- Visiting Professorship Award, 1987.

vanSonnenberg E, Casola G, Wittich GR, Hofmann AF, Keightley AM, Withers C, Lee AS, Christensen R. "Diagnostic and Therapeutic Percutaneous Gallbladder Procedures", American Roentgen Ray Society, Certificate of Merit, Miami Beach, Florida, April-May 1987.

Austrian Radiology Society, Vienna, Austria, Keynote lecture. "Horizons in Interventional Radiology of the Gallbladder", May, 1987.

Keynote Lecturer, Italian Ultrasound Society. "Interventional Ultrasound in the Biliary Tree", October 31-November 4, 1987.

Charles T. Dotter Memorial Lecture in Radiology, Oregon Radiological Society and Oregon Health Sciences University, "Horizons in Gallstone Treatment", April, 1988.

Charles T. Dotter Memorial Lecture in Radiology, Oregon Radiological Society and Oregon Health Sciences University, "Current Concepts in Abscess Drainage", April, 1988.

vanSonnenberg E, Casola G, Wittich GR, Brannigan T, Varney RR, Christensen R. "Percutaneous Management of Infected and Noninfected Pancreatic Pseudocysts". Radiological Society of North America, Certificate of Merit, Exhibit, Chicago, Illinois, November 29-December 4, 1987.

vanSonnenberg E, Casola G, Stavas J, Neff CC, Wittich GR, Varney RR, Christensen R, Friedman P. "Radiologic Guidance of Drainage of Infected and Noninfected Thoracic Fluid Collections. Radiological Society of North America, Certificate of Merit, Exhibit, Chicago, Illinois, November 29-December 4, 1987. Radiology Editor's Recognition Award with Special Distinction (1987, 1988, 1989, 1990, 1991, 1992).

The Eleventh Annual Lecture, University of Leeds and The Royal College of Radiologists, "New Therapy for Gallstones", Leeds, England, July 1990.

Japanese Radiologic Society, Keynote Speaker, "Current Concepts in Radiologic Biopsy of the Chest", Kobe, Japan, November 1991.

Thirteenth Annual John G. McAfee Lecture in Radiology, "Interventional Radiology of the Chest", State University of New York, Syracuse, New York, February 1992.

Schumacher WJ, Nelson T, vanSonnenberg E. "Quantification of Amino Acids in Human Body Fluids by ¹H NMR Spectroscopy: A Specific Test for the Identification of Abscess". 1992 Resident Memorial Award Recipient, Fortieth Annual Meeting of the Association of University Radiologists, Chicago, Illinois, April 1992.

Fundell L, vanSonnenberg E, D'Agostino HB, Sanchez R, O'Laoide R, Oglevie S. "Ultrasound Guided Thoracic Biopsy: Technique and Results." 36th Annual Meeting of the American Institute of Ultrasound in Medicine, San Diego, California, March 8-11, 1992. (Poster Award)

The Robert Parrish Memorial Lecture, Department of Radiology, The Toronto Hospital, "Tumor Ablation", Toronto, Ontario, Canada, June, 1993.

San Diego Radiology Society, President Elect - 1993.

"Management of Pancreatic Pseudocysts – Percutaneous Drainage". Medical Grand Rounds, Cedars-Sinai Medical Center, Los Angeles, California (5/28/93).

Charles T. Dotter Memorial Lecture in Radiology, Oregon Radiological Society and Oregon Health Sciences University, "Imaging and Intervention in Pancreatitis", April, 1995.

Goodacre B, Morgan R, Boyvat F, Walser E, vanSonnenberg E, Wittich G. Practical Solutions to the Problematic Chest Biopsy. Presented at the 81st Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/26-12/1/95. (Certificate of Merit Award)

Allen GE, vanSonnenberg E, Wittich GR, D'Agostino HB, Easter DW, Sanchez RB, Christensen RA, Kerlan RK, Moossa AR. Complications of Laparoscopic Cholecystectomy: Coordinated Radiologic and Surgical Management in 21 Patients. Presented at the Southern Medical Association 1993, New Orleans, La. (Certificate of Merit Award)

International Society of Hepato-Biliary Radiology, President (1995-1996)

Goodacre B, Walser E, Morgan R, Wittich G, vanSonnenberg E. A Challenge to Percutaneous Gastrojejunostomy and Gastrostomy in Patients with Cerebral Palsy. Radiological Society of North America, Chicago, Illinois, 12/1-6/96. (Certificate of Merit Award)

AMA Award for Clinical Research. Garza R, Esch O, Mathru M, Patterson R, Brunder D, Hillmann G, Willcott M, vanSonnenberg E. Comparison of Computer Aided 3-D Reconstructions and Traditional 2-D Films of Upper Airway MR Images in Healthy and Anesthetized Volunteers. 1997 National Student Research Forum, 38th Annual Meeting, The University of Texas Medical Branch, Galveston, Texas, 4/17-19/97.

Nominee for Drake Alumni Award, University of Cincinnati, School of Medicine (1997).

Ramaswamy M, Chaljub G, Esch O, Fanning D, vanSonnenberg E. Impact of Continuous Speech Recognition in MR Imaging Reporting. Radiological Society of North America, Chicago, Illinois, 11/30-12/5/97. (Certificate of Merit Award)

Phillpott J, vanSonnenberg E, Goodacre B, Wittich G, Zwischenberger J. Pericardial Lymph Nodes: Anatomy, CT Appearance, Clinical Significance. Radiological Society of North America, Chicago, Illinois, 11/30-12/5/97. (Certificate of Merit Award)

Wittich G, vanSonnenberg E, Johnson R, Kavanagh P, Zwischenberger J, Morrison RJ. CT Bronchoscopy for Planning of Bronchial Stenting. Radiological Society of North America, Chicago, Illinois, 11/30-12/5/97. (Certificate of Merit Award)

vanSonnenberg E, Wittich G, Zwischenberger J, Goodacre B, Walser E, Kavanagh P. Metallic Tracheobronchial Stents. Radiological Society of North America, Chicago, Illinois, 11/30-12/5/97. (Certificate of Merit Award)

D'Agostino H, Roberts, Weir, Hsue, Goodacre B, vanSonnenberg E. Alcohol Ablation for Treatment of Benign and Malignant Conditions: An Overview of its Multiple Indications, Technique, and Results. Radiological Society of North America, Chicago, Illinois, 11/30-12/5/97. (Certificate of Merit Award)

Keynote Speaker, International Special Procedures Conference, "Image-guided Cryotherapy: New Applications", Chicago, Illinois, 5/10-14/98.

Garcia G, Goodacre B, vanSonnenberg E, Wittich G, Ozkan O, Zwischenberger J. Which Lesion to Biopsy? The Radiologist's Dilemma. The 84th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/98. (Certificate of Merit Award)

vanSonnenberg E, Orihuela O, Goodacre B, Bell B, Adesonkan. Ultrasound Guided Renal Cryotherapy. The 84th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/98. (Certificate of Merit Award)

Pohl J, Lee T, vanSonnenberg E. Scrotal Pathology Revisited -- A Diagnostic Algorithm for Imaging and Management in 1998. The 84th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/98. (Certificate of Merit Award)

Burdick T, vanSonnenberg E, Wittich G, Goodacre B. Are 22 Gauge Needles as Safe as We Think? Life Threatening Complications from 22 Gauge Needle Puncture. The 84th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/98. (Certificate of Merit Award)

vanSonnenberg E. "State of the Art in Interventional Radiology -- We've Come a Long Way Baby." Keynote speaker at the California Society of Radiologic Technologists, 63rd Annual Meeting, San Diego, California, 4/7-11/99.

Silverman SG, Kundra V, Krane J, vanSonnenberg E. "Telomerase Activity in Needle Biopsy Specimens" Wylie J. Dodds Research Award, Society of Gastrointestinal Radiologists (3/00).

Pediatric Radiology Grand Rounds, Children's Hospital, Harvard Medical School, Boston, MA "New Techniques in IR", 2000.

"Percutaneous Tumor Ablation", Radiology Grand Rounds, Children's Hospital, Department of Radiology, Boston, MA (2/12/01).

Hepatology Grand Rounds, "Tumor Ablation", Brigham and Women's Hospital, 7/01.

"Keynote Presentation: Cryotherapy and Novel Image Guidance Approaches", Cryobiology 2000, 37th Annual Meeting of The Society of Cryobiology in Association with the Society for Low Temperature Biology Cambridge, MA (8/1/00).

Surgery Grand Rounds, Brigham and Women's Hospital, "New Technologies in Interventional Radiology", (2001).

Honorary Fellowship: The Royal Australia and New Zealand Society of Radiologists (10/2001).

Kodak Baker Visiting Professor: The Royal Australia and New Zealand Society of Radiologists (10/2001).

President: Society of Gastrointestinal Radiologists (2000-2001)

Keynote Speaker: "Interventional Radiology for Complicated Pancreatitis: Benefits and Controversies". American Pancreatic Society, Chicago, IL (10/2001).

Richard Marshak SGR International Professorship Award. Society of Gastrointestinal Radiology , Orlando, FL (4/2002).

Department of Surgery, Grand Rounds, Brigham and Women's Hospital, Harvard Medical School, "What's New in Interventional Radiology Above and Below the Diaphragm", Boston, 7/02.

Gastrointestinal Oncology Grand Rounds, "Tumor Ablation for the Gastroenterologist", Department of Medicine, Brigham and Women's Hospital, Boston, MA, 11/02.

Thoracic Oncology Grand Rounds, "Tumor Ablation", Dana Farber Cancer Institute, Boston, MA, 12/02.

Vice President, New England Roentgen Ray Society (2003)

"Tumor Ablation for the Gastroenterologist", Grand Rounds, Department of Medicine, Division of Gastroenterology, Brigham and Women's Hospital (3/03).

Harvard Medical Student Radiology Teaching Award, 6/03

Soma Weiss Harvard Medical Student Research Day Award, W. Kit Lo, Medical Student, Eric vanSonnenberg, MD, Mentor: "CT-guided Radiofrequency Ablation", Boston, MA, 3/04.

Keynote Address, Society of Computer Assisted Radiology & Surgery, "Where Have We Been, Where Are We Now, & Where Are We Going with Percutaneous Tumor Ablation"; Berlin, Germany, 5/07

CT Angiography for Pulmonary Embolism in 2003 Patients; Phoenix Academic Medicine Day; 1st place prize Exhibit; May, 2009; Mamlouk M, vanSonnenberg E, et al.

CT Angiography for Pulmonary Embolism in 2003 Patients. Mamlouk M, vanSonnenberg E, et al. Third most referred article in Radiology 2011.

“From Surgery Intern to Radiologic Tumor Ablation Interventionalist”, Surgical Grand Rounds, Kern Medical Center, Bakersfield, California, October 2011.

Radiology Editor's Recognition Award with Special Distinction, 2011

“Interventional Radiology: A Little History and a Lot of Current Action” Surgical Grand Rounds, David Geffen School of Medicine at UCLA, Los Angeles, California, March 28, 2012

Pakula A, Kozyr S, vanSonnenberg E, Skinner R. Pulmonary contusion of CT: Preliminary analysis of a novel technique for acute pulmonary injury scoring & risk stratification. Kern/UCLA Research Forum; May, 2012. 2nd Place Award

Selected by AuntMinnie.com “Road to RSNA 2009: CT Preview.”
“CT Angiography for Pulmonary Embolism in 2003 Patients: Implications for Appropriateness, Cost, and Radiation Exposure.” Nov 16, 2009.

1st place Best Research Poster. “CT Angiography for Pulmonary Embolism in 2003 Patients: Implications for Appropriateness, Cost, and Radiation Exposure.” Academic Excellence Day: May 8, 2009; Phoenix, AZ.

RSNA Introduction to Academic Radiology Program (ITAR) Scholarship; Nov 28-Dec 2, 2010; Chicago, IL.

Recognition of manuscript:

Mamlouk MD, vanSonnenberg E, Gosalia R, et al. “Pulmonary Embolism at CT Angiography: Implications for Appropriateness, Cost, and Radiation Exposure in 2003 Patients.” *Radiology* 2010; 256(2):625-632.

Featured in “This Month in *Radiology*” August 2010, selected as first article.

Editorial: Pistoletti M. Pulmonary CT Angiography in Patients Suspected of Having Pulmonary Embolism: Case Finding or Screening Procedure? *Radiology* 2010; 256(2):334-337.

Radiology Podcast with Herbert Kressel, MD; Editor of *Radiology*, August 2010.

<http://radiology.rsna.org/site/podcasts/archive.xhtml>

RSNA Press Release: CT Angiography May be Unnecessary in Patients with Suspected Pulmonary Embolism.

http://www.rsna.org/media/pressreleases/pr_target.cfm?ID=477

Selected Media Coverage:

http://www.rsna.org/Publications/media_coverage/Mamlouk_6-21-10.cfm

Featured in *RSNA News & Radiology Today*; August 2010.

Ranked in the “Top 10 Most-Read Articles” in *Radiology* from July-Sept 2010, ranked 2nd.

RSNA Certificate of Merit Award: (Mamlouk M, vanSonnenberg E)

“Step Up to Bat and Practice Dictating Complex Cases: A Resident's Guide to Effective Reporting”; Nov 28, 2011; Chicago, IL.

Cannon (Gold) Medal Award Selection by Society of Abdominal Radiology, Boca Raton, Florida; March, 2014.

Fellow, Society of Abdominal Radiology, 2015

Cannon Gold Medal Award (highest honor by the Society), Society of Abdominal Radiology, San Diego, California; March, 2015

Dean's List, Phoenix Seminary, Master's of Divinity student, 2010-2016

President's Scholarship Selection, Phoenix Seminary, 2016

Radiology Editor's Award for Distinction in Reviewing, 2017

Dean's List, Phoenix Seminary, MDiv student; 2017

Robert and Ethel MacPherson Scholarship for Academic Achievement, Phoenix Seminary, 2017

Nominee for Distinguished Alumnus, University of Cincinnati College of Medicine, 2017-18

Robert and Ethel MacPherson Scholarship for Academic Achievement, Phoenix Seminary, 2018

Distinguished Alumni Award, University of Cincinnati College of Medicine, 2018

Dean's List, Phoenix Seminary, MDiv student, 2018

Careers in Medicine AAMC Excellence in Medical Student Career Advising Program Award; November, 2018

Radiology Editor's Recognition Award for reviewing with Distinction, January 2019

Dean's List, Phoenix Seminary, Master's of Divinity student, 2019

Radiology Editor's Recognition Award for reviewing with Special Distinction, 2020

Dean's List, Phoenix Seminary, Master's of Divinity student, 2020

Radiology Editor's Recognition Award for reviewing, with Special Distinction, 2021

Rosztoczy M, vanSonnenberg E, Crawford D, Cheung P, Mamlouk M, Fogerty G. Engineers in Medicine; What Specialties Do They Pursue? Outstanding Poster Award; UACOMP Research Symposium; 3/21

Ngo B, Nguyen D, vanSonnenberg E. Artificial Intelligence: Has its time come for inclusion in medical school curriculum? Maybe..maybe not. MedEdPublish. 8/21
Awarded 5 Star publication

Dean's List, Phoenix Seminary, Master's of Divinity student, 2021

Radiology: Imaging Cancer Editor's Recognition Award for reviewing with Distinction
2021

Dean's List, Phoenix Seminary, Master's of Divinity student, 2022

Nominee for "Excellence in Medical Student Mentoring Award"; University of Arizona
College of Medicine Phoenix, 2022

Radiology: Imaging Cancer Editor's Recognition Award for Reviewing, with Distinction
2022

Radiology: Editor's Recognition Award for Reviewing, with Special Distinction, 2022

Dean's List, Phoenix Seminary, Master's of Divinity student, 2023

Radiology Editor's Recognition Award for Reviewing, with Special Distinction, 2023

Doximity Top 25% Published Radiologists, 2023

Wirth A, vanSonnenberg E. The Education of Allopathic and Naturopathic Medical
Physicians: Similarities and Differences. Arizona Medical Association Conference; April
21, 2023; Phoenix, Arizona (3rd place Poster Award)

MacPherson Memorial Scholarship, Phoenix Seminary, Master's of Divinity student;
2023-2024

Keynote Lecture: "Can Medical Student Engineers Increase the Acceptance of AI?";
35th Annual Meeting of Computer Assisted Radiology; Munich, Germany, June 20, 2023

Murata A, Kar E, vanSonnenberg E. Analysis of Statistics Utilized in a High
Impact Journal: A Prelude to Practical Pedagogy in Biostatistics. 10th Annual
Arizona Rural Health Conference; virtual; June 2024 (award winning)

"The Joy & Impact of Radiology"; 4th Annual National & International Medical Student
Symposium; 10/7/23; UACOMP; Phoenix, AZ (Keynote address)

Radiology:Oncology; Editor's Recognition Award for Reviewing, with Special Distinction,
2024

Dean's List, Phoenix Seminary, Master's of Divinity student, 2024

ScholarGPS [Highly Ranked Scholar](#) (0.05%) 2023

“The Joy & Impact of Radiology”; 5th Annual National & International Medical Student Symposium; 10/5/24; UACOMP; Phoenix, AZ (Keynote address)

“Interventional Radiology Cases That Make the Heart Race”; University of Arizona College of Medicine/Banner University Radiology Grand Rounds; 12/12/24

Dean’s List, Phoenix Seminary, Master’s of Divinity student, 2025

2024 Highly Ranked Scholar by ScholarGPS (top 0.05%)

JOURNAL PUBLICATIONS

1. April R, vanSonnenberg E: Neuromyelitis optica (Devic's Syndrome) in systemic lupus erythematosus. *Neurology* 1976; 26 (11):1066.
2. vanSonnenberg E, Pitchumoni CS: Prolonged hyperamylasemia in diabetic ketoacidosis. *JAMA* 1976; 236:482.
3. Rhea JT, vanSonnenberg E, McLoud T: Basilar pneumothorax in the supine adult. *Radiology* 1979; 133:593.
4. vanSonnenberg E, Ferrucci JT Jr: Bile duct obstruction in hepatocellular carcinoma hepatoma - Clinical and cholangiographic characteristics. *Radiology* 1980; 130:7-13.
5. Wittenberg J, Finberg H, Ferrucci JT Jr., Simeone J, Mueller P, vanSonnenberg E, Kirkpatrick R: Clinical efficacy of CBT--II. *AJR* 1980; 134:1111-1120.
6. vanSonnenberg E, Wittenberg J, Ferrucci JT Jr., Mueller PR, Simeone JF: Triangulation method for percutaneous needle guidance: The angled approach to upper abdominal masses. *AJR* 1981; 137:757-761.
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- A30 vanSonnenberg E, Mueller PR, Ferrucci JT Jr, Casola G, Wing VW, Nakamoto SK, Cubberley DA, Rodkin R, Simeone JF. The problems of percutaneous abscess and fluid drainage: failures, complications, recurrences and technical considerations. Presented at the 69th Scientific Assembly of the Radiological Society of North America Meeting, Chicago, IL, November 1983.
- A31 vanSonnenberg E, Mueller PR, Schiffman HR, Ferrucci JT Jr, Gosink BB, Simeone JF, O'Connell RS. Indications for percutaneous drainage of intrahepatic amebic abscesses. Presented at the Radiological Society of North America Meeting, Chicago, IL, November 1983.
- A32 Casola G, vanSonnenberg E, Cubberley D, Nakamoto SK, FW Scheible, Mattrey RF, Zucker K, Halasz NA. Radiologic contributions in diagnosis and interventional management of oriental cholangiohepatitis. Presented at the Radiological Society of North America Meeting, Chicago, IL, November 1983.
- A33 vanSonnenberg E, Tanenbaum LB, Brown LK, Cubberley DA, Campbell JB. Percutaneous gastrostomy using sonographic or fluoroscopic guidance. Presented at the Radiological Society of North America Meeting, Chicago, IL, November 1983.
- A34 Simeone JT, Butch RJ, Mueller PR, Ferrucci JT Jr, Wittenberg J, Hall DA, vanSonnenberg E, Kopans D, Dawson S. Sonography of the bile ducts after a fatty meal: further observations. Presented at the Radiological Society of North America Meeting, Chicago, IL, November 1983.
- A35 vanSonnenberg E, Casola G, Tanenbaum LB. CT-guided percutaneous pancreatic ductography: results, uses, and problems. Presented at the Radiological Society of North America Meeting, Chicago, IL, November 1983.
- A36 Wittich GR, vanSonnenberg E, Marx M, Tobin RS, Cubberley DA, Scheible FW. The frequency and significance of anatomic variants commonly seen on normal abdominal CT scans. Presented at the Radiological Society of North America Meeting, Chicago, IL, November 1983.

- A37 Nachtsheim DA, vanSonnenberg E, Talner LB. Management of ureteral complications following renal transplantation. Presented at the Western Section of the American Urological Association, 60th Annual Meeting, MGM Grand Hotel, Reno, NV, July 15-19, 1984.
- A38 Wittich GR, vanSonnenberg E, Andre MP, Mattrey RF. Needle visibility during ultrasound guided punctures. Presented at the 29th Annual Convention, American Institute of Ultrasound in Medicine, Kansas City, MO, September 16-19, 1984.
- A39 vanSonnenberg E, Coons HG, Wittich GR, Carey PH, Brown LK, Stauffer AE, Polansky AD, Lyon JW. Percutaneous gastrostomy: advantages and disadvantages of various techniques. Presented at the Society of Gastrointestinal Radiologists 14th Annual Meeting and Postgraduate Course, Silverado Country Club, Napa Valley, CA, September 29- October 3, 1984. Society of Gastrointestinal Radiologists (Award Paper).
- A40 vanSonnenberg E, Berk RN, Ranney HM, Polansky AD, Wittich GR, Cabrera OA, Jagger PI. Interventional radiology admitting service: indications, procedures, and problems. Presented at the 70th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Washington D.C., November 25-30, 1984.
- A41 vanSonnenberg E, Hilton SV, Coons HG, Edwards DK, Carey PH, Wittich GR, Self TW. Interventional radiology in pediatrics. Presented at the 70th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Washington D.C., November 25-30, 1984.
- A42 vanSonnenberg E, Wing VW, Wittich GR, Casola G, Polansky AD. Lymphoceles: CT and ultrasound findings and percutaneous management. Presented at the 70th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Washington D.C., November 25-30, 1984.
- A43 vanSonnenberg E, Wittich GR, Stauffer AE, Polansky AD, Cabrera OA, Schiffman HR, Hayne LA. Modified coaxial technique to simplify nephrostomy, biliary drainage, and biopsies. Presented at the 70th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Washington D.C., November 25-30, 1984.
- A44 vanSonnenberg E, Wittich GR, Willson SA, Brozinsky S, Casola G, Halasz NA. Equivocal common bile duct: the value of biliary pressure and perfusion in diagnosis and management. Presented at the 70th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Washington D.C., November 25-30, 1984.

- A45 Cabrera OA, vanSonnenberg E, Bowen JS, Wittich GR. Gallstones and a dilated common bile duct on ultrasound: is direct cholangiography indicated and what is the likely etiology of obstruction? Presented at the 70th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Washington D.C., November 25-30, 1984.
- A46 Casola G, vanSonnenberg E. Percutaneous drainage of Crohn abscess: results, uses and problems. Presented at the 70th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Washington D.C., November 25-30, 1984.
- A47 Mueller PR, Ferrucci JT Jr, Teplick SK, vanSonnenberg E, Haskin PH, Butch RJ, Johnson RD, Dawson SL. Biliary endoprosthesis: a long term study of results, complications, and applications for palliation of malignant obstructive jaundice. Presented at the 70th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Washington D.C., November 25-30, 1984.
- A48 Wing VW, vanSonnenberg E, Kipper S, Bieberstein MP. Indium- 111 leukocyte uptake in hematomas: a pitfall in abscess detection. Presented at the 70th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Washington D.C., November 25-30, 1984.
- A49 Wittich GR, vanSonnenberg E, Mueller PR, Haaga JR, Ferrucci JT Jr, Brandtner W, Bernardino ME, Cooperberg P, Lee T. Fine needle biopsy of cavernous hemangioma of the liver. Presented at the 70th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Washington D.C., November 25-30, 1984.
- A50 vanSonnenberg E, Talner LB, Reznek RH, Parsons CL, Nachtsheim D, Halasz NA, Wittich GR. Percutaneous management of complications of renal transplants. Presented at The Society of Uroradiology, St. Thomas, U.S. Virgin Islands, March 2-3, 1985.
- A51 Koenker R, vanSonnenberg E, Wittich GR. Specimen adequacy in renal needle biopsy—a comparison of various needle sizes and designs. Presented at the Association of University Radiologists, Nashville, TN, May 14, 1985.
- A52 vanSonnenberg E, Casola G, Willson, S, Quinn SF, Schiffman HR. Percutaneous Drainage of Pelvic Abscesses. Presented at the Annual Meeting of the American Roentgen Ray Society, Boston, MA, April 23-25, 1985.
- A53 vanSonnenberg, E, Wittich GR, Cabrera G, Quinn SF, Willson S, Brown LK, Tanenbaum LR. Percutaneous gastroenterostomy, laboratory and clinical experience. Presented at the Annual Meeting of the American Roentgen Ray Society, Award Presentation, Boston, MA, April 23-25, 1985.

- A54 Wittich G, vanSonnenberg E, Andre M, Mattrey RF. Methods to optimize needle visibility during ultrasound guided procedures. Presented at the Annual Meeting of the American Roentgen Ray Society, Boston, MA, April 23-25, 1985.
- A55 Mueller PR, vanSonnenberg E, Ferrucci JT, Weyman PL, Wittich GR. Percutaneous biliary stricture dilatation. Presented at the Annual Meeting of the American Roentgen Ray Society, Boston, MA, April 23-25, 1985.
- A56 Wittich GR, Brown JJ, vanSonnenberg E, Gerber KH, Strich G. In vitro magnetic resonance imaging of body fluids. Presented at The Meeting of the European Society of Cardiovascular and Interventional Radiologists, Vienna, Austria, April 1985.
- A57 Wittich GR, vanSonnenberg E, Casola G, Coons HG. Percutaneous aspiration and drainage of pancreatic abscesses and pseudocysts. Presented at The Meeting of the European Society of Cardiovascular and Interventional Radiologists, Vienna, Austria, April 1985.
- A58 vanSonnenberg E, Wittich GR, Brown LK, Cabrera OA, Quinn SF. Percutaneous gastrojejunostomy — technique and clinical experience. Presented at The Meeting of the European Society of Cardiovascular and Interventional Radiologists, Vienna, Austria, April 1985.
- A59 Wittich GR, Talner LB, vanSonnenberg E. Percutaneous management of urinary strictures and fistulae. Presented at The Meeting of the European Society of Cardiovascular and Interventional Radiologists, Vienna, Austria, April 1985.
- A60 Wittich GR, vanSonnenberg E, Andre MP, Cabrera OA, Czemberek H. Needle visibility during ultrasound guided punctures. Presented at The Meeting of the European Society of Cardiovascular and Interventional Radiologists, Vienna, Austria, April 1985.
- A61 vanSonnenberg E, Wittich GR, Cabrera OA, Gosink BB, Gerver PS, Resnick DL. Thigh abscesses: sonographic findings and percutaneous management. Presented at the 30th Annual Convention — American Institute of Ultrasound in Medicine, 14th Annual Convention — Society of Diagnostic Medical Sonographers, Dallas, Texas, October 8-11, 1985.
- A62 vanSonnenberg E, Wittich GR, Brown LK, Cabrera OA, Quinn SL, Forsythe J. Benefits and role of sonography for percutaneous gastroenterostomy. Presented at the 30th annual convention — American Institute of Ultrasound in Medicine/ 14th Annual Convention — Society of Diagnostic Medical Sonographers, Dallas, Texas, October 8-11, 1985.

- A63 vanSonnenberg E, Quinn SF, Wittich GR, Casola G. Interventional radiology in the spleen — Feasibility and safety. Presented at the Radiological Society of North America, 71st Scientific Assembly, Chicago, Illinois, November 17-22, 1985.
- A64 Casola G, Nicolet V, vanSonnenberg E, Withers C, Bertagnolle M, Bret PM. Percutaneous biopsy of pheochromocytoma: Risk of significant blood pressure alterations. Presented at the Radiological Society of North America, 71st Scientific Assembly, Chicago, Illinois, November 17-22, 1985.
- A65 Mueller PR, Ferrucci JT Jr, vanSonnenberg E, Weyman P, Butch RJ, Papanicolaou N, Burhenne HJ. Percutaneous balloon catheter dilatation of biliary strictures: Multicenter experience with 128 cases. Presented at the Radiological Society of North America, 71st Scientific Assembly, Chicago, Illinois, November 17-22, 1985.
- A66 Willson SA, Gosink BB, vanSonnenberg E. Unchanged size of a dilated common duct after fatty meal: Results and significance. Presented at the Radiological Society of North America, 71st Scientific Assembly, Chicago, Illinois, November 17-22, 1985.
- A67 Wittich GR, Willson SA, vanSonnenberg E, Hajek PC, Nemcek A. Splenorenal recess: CT anatomy. Presented at the Radiological Society of North America, 71st Scientific Assembly, Chicago, Illinois, November 17-22, 1985.
- A68 vanSonnenberg E, Wittich GR, Casola G, Ho M, Neff CK, Quinn SF, Willson SA, Lee AS, Friedman PJ. CT guidance for difficult thoracic biopsies: Results and helpful techniques in 100 patients. Presented at the Society of Thoracic Radiology, Newport Beach, California, February 15-20, 1986.
- A69 vanSonnenberg E. Diagnostic and therapeutic percutaneous gallbladder procedures: Laboratory and clinical experience. Presented at the Society of Gastrointestinal Radiology, Acapulco, Mexico, January 21-24, 1986.
- A70 Wittich G, vanSonnenberg E, Salomonowitz E, Jantsch H, Karnel F, Kumpman W, Lechner G. Current aspects of invasive radiological diagnosis of biliary disorders. Presented at the German Radiology Congress, Hannover, Germany, May, 1986.
- A71 Casola G, vanSonnenberg E, Withers C, Wittich GR, Keightley A, Willson S, Gosink BB, Leopold GR. Sonographic evaluation of the dilated common bile duct with cholecystokinin (CCK) derivatives. Presented at the American Institute of Ultrasound in Medicine, 31st Annual Convention, Las Vegas, Nevada, September 16-19, 1986.

- A72 Wittich GR, Jantsch H, vanSonnenberg E, Karnel F, Kumpman W, Greene R. Contributions of interventional radiology to diagnosis and staging of bronchogenic carcinoma. Presented at the AER Symposium, Vienna, Austria, October, 1986.
- A73 vanSonnenberg E, Casola G, Wittich GR, Rubin G, Muehle C, Keightley A, Withers C, Lee AS, Brown JJ. Percutaneous catheter drainage of infected and noninfected hematomas: Results and recommendations. Presented at The Radiological Society of North America, 72nd Scientific Assembly and Meeting, Chicago, Illinois, November 30-December 5, 1986.
- A74 Casola G, vanSonnenberg E, Keightley A, Ho M, Withers C, Wittich G, Lee A. Transgression of the pleural space during percutaneous drainage of upper abdominal abscesses: Incidence and consequences. Presented at The Radiological Society of North America, 72nd Scientific Assembly and Meeting, Chicago, Illinois, November 30-December 5, 1986.
- A75 Casola G, vanSonnenberg E, Withers C, Keightley A, Willson S, Wittich GR, Gosink BB, Leopold GR. Sonographic evaluation of dilated common bile ducts with cholecystikinin (CCK) derivatives. Presented at The Radiological Society of North America, 72nd Scientific Assembly and Meeting, Chicago, Illinois, November 30-December 5, 1986.
- A76 vanSonnenberg E, Hajek P, Baker L, Casola G, Gylys-Morin V, Mattrey RM, Martin J, Middleton M. Materials for MR-guided interventional radiology procedures: Laboratory and clinical experience. Presented at The Radiological Society of North America, 72nd Scientific Assembly and Meeting, Chicago, Illinois, November 30-December 5, 1986.
- A77 Romano AJ, vanSonnenberg E, Casola G, Gosink BB, McCutchan JA, Leopold GR, Withers C. Gallbladder and biliary abnormalities in AIDS. Presented at The Radiological Society of North America, 72nd Scientific Assembly and Meeting, Chicago, Illinois, November 30-December 5, 1986.
- A78 Withers CE, Gosink BB, Keightley AM, Casola G, Lee AA, vanSonnenberg E, Rothrock JF, Lyden PD. Peak systolic velocity in quantifying internal carotid artery stenosis. Presented at The Radiological Society of North America, 72nd Scientific Assembly and Meeting, Chicago, Illinois, November 30-December 5, 1986.
- A79 vanSonnenberg E, Casola G, Neff CC, Wittich GR, Hoyt DB, Christensen R, Cohen M, Halasz NA. Percutaneous management of periappendiceal peridiverticular, Crohn's abscesses. Presented at the Society of Gastrointestinal Radiologists, Scottsdale, Arizona, February 8-13, 1987.

- A80 Casola G, vanSonnenberg E, Keightley A, Ho M, Withers C, Lee A. Radiologic treatment of pneumothorax with 7 and 8.2 French catheters. Presented at the Society of Thoracic Radiology, Orlando, Florida, February 15-20, 1987.
- A81 vanSonnenberg E, Hajek P, Baker L, Gylys-Morin V, Casola G, Andre M, Christensen R, Cohen M, Stavas J. MR guided interventional procedures: Laboratory development and clinical applications. Presented at the Society of Gastrointestinal Radiologists, Scottsdale, Arizona, February 8-13, 1987.
- A82 Wittich GR, Jantsch H, vanSonnenberg E, Walter R, Lechner G. Percutaneous treatment of cholangitis abscesses. Presented at the Annual Meeting of the German Radiological Society, Hamburg, Germany, April 1987.
- A83 Wittich GR, vanSonnenberg E, Karnel F, Kumpan W, Walter R. Percutaneous drainage of mediastinal and pericardiac fluid collections. Presented at the Annual Meeting of the German Radiological Society, Hamburg, Germany, April, 1987.
- A84 vanSonnenberg E, Casola G, Wittich GR, Christensen R, Halasz NA, Cohen M, Keightley AM. Sclerosis of noninfected fluid collections via percutaneous catheters. Presented at the American Roentgen Ray Society 1987 Annual Meeting, Miami Beach, Florida, April 26-May 1, 1987.
- A85 vanSonnenberg E, Casola G, Wittich GR, Brannigan T, Christensen R, Withers C, Keightley AM. Percutaneous management of infected and noninfected pancreatic pseudocysts. Presented at the American Roentgen Ray Society 1987 Annual Meeting, Miami Beach, Florida, April 26-May 1, 1987.
- A86 Christensen R, vanSonnenberg E, Casola G, Orloff MJ, Hoyt DB, Leopold GR, Amberg JR. Sonographic and interventional radiologic diagnosis and management of inadvertent ligation of bile ducts following cholecystectomy. Presented at the American Roentgen Ray Society 1987 Annual Meeting, Miami Beach, Florida, April 26-May 1, 1987.
- A87 Zakko SF, Hofmann AF, Scheitingart C, vanSonnenberg E, Wheeler HO. Percutaneous gallbladder stone dissolution using a microprocessor assisted solvent transfer (MAST) system. Presented at the American Gastroenterological Association, Chicago, Illinois, May 10-13, 1987.
- A88 Casola G, vanSonnenberg E, Keightley A, Ho M, Withers C, Lee A: Radiologic treatment of pneumothoraces with small catheters. Presented at The Society of Cardiovascular and Interventional Radiology and New Imaging Modalities. Porto Cervo, Sardinia, Italy. May 25-29, 1987.

- A89 Casola G, vanSonnenberg E, Neff CC, Wittich GR, Hoyt DB, Withers C, Christensen R, Cohen M, Halasz NA: Percutaneous management of periappendiceal, peridiverticular, Crohn's abscesses. Presented at The Society of Cardiovascular and Interventional Radiology and New Imaging Modalities. Porto Cervo, Sardinia, Italy. May 25-29, 1987.
- A90 Casola G, vanSonnenberg E, Wittich GR, Hofmann AF, Keightley AM, Withers C, Lee AS: Diagnostic and therapeutic percutaneous gallbladder procedures. Presented at The Society of Cardiovascular and Interventional Radiology and New Imaging Modalities. Porto Cervo, Sardinia, Italy. May 25-29, 1987.
- A91 vanSonnenberg E, Wittich GR, Edwards DK, Casola G, Hilton SvW, Self TW, Keightley A, Withers C. Percutaneous diagnostic and therapeutic interventional radiologic procedures in children: Experience in 100 patients. Presented at the 50th Annual Meeting of the Canadian Association of Radiologists, Ottawa, Ontario, Canada, June 14-18, 1987.
- A92 Withers C, vanSonnenberg E, Casola G, Wittich GR, Christensen R, Hoyt D, Lee A, Keightley A: Interventional radiologic management of post-cholecystectomy complications. Presented at the 50th Annual Meeting of the Canadian Association of Radiologists, Ottawa, Ontario, Canada, June 14-18, 1987.
- A93 vanSonnenberg E, Casola G, Wittich GR, Christensen R, Hoyt DB, Withers C, Lee AS, Keightley AM. Interventional radiologic management for complications in cholecystectomy. Presented at the Canadian Radiological Society, Ottawa, Ontario, Canada, June 15, 1987.
- A94 vanSonnenberg E, Casola G, Varney Rr, Lucas W, Swartz W, Weiss R, Christensen RA, Polansky AM. Interventional radiology for primary ovarian lesions: Applications, techniques, and precautions. Presented at the 73rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 29- December 4, 1987.
- A95 vanSonnenberg E, Casola G, Wittich GR, Stavas J, Quinn SF, Gibbs J, Macaulay S, Schechter MS, Edwards KS. Percutaneous cecostomy: Laboratory and clinical experience with a new radiologic technique. Presented at the 73rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 29-December 4, 1987.
- A96 vanSonnenberg E, Casola G, Stavas J, Neff CC, Varney RR, Wittich GR, Dillard J, Christensen RA, Friedman PJ: Radiologic drainage of infected and noninfected thoracic fluid collections. Presented at the 73rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 29-December 4, 1987. (Radiology Supplement 165:238, 1987)

- A97 Wittich GR, Karnel F, vanSonnenberg E, Neff CC, Schurawitzki H. Percutaneous drainage of mediastinal and pericardial fluid collections. Presented at the 73rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 29-December 4, 1987.
- A98 Casola G, vanSonnenberg E, Sukthankar R, Varney RR, Stavas J, Cohen M, Christensen RA, Wittich GR. Radiologic percutaneous gastrostomy and gastroenterostomy: Indications, results, and difficulties. Presented at the 73rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 29-December 4, 1987.
- A99 Christensen RA, vanSonnenberg E, Casola G, Alzate G, Wittich GR, Schechter MS. Spontaneous fistulization of pancreatic pseudocysts associated with percutaneous drainage: Beneficial or deleterious? Presented at the 73rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 29-December 4, 1987.
- A100 vanSonnenberg E, Casola G, Brannigan T, Varney RR, Stabile B, Wittich GR, Christensen R. Percutaneous drainage of infected and noninfected pancreatic pseudocysts. Presented at the Seventeenth Annual Meeting and Postgraduate Course of the Society of Gastrointestinal Radiologists, Nassau, Bahamas, January 16-20, 1988.
- A101 Wittich GR, Jantsch H, vanSonnenberg E, Walter R, Thorpe P, Taylor M. Radiological versus surgical duodenostomy and jejunostomy. Presented at the Seventeenth Annual Meeting and Postgraduate Course of the Society of Gastrointestinal Radiologists, Nassau, Bahamas, January 16-20, 1988.
- A102 vanSonnenberg E, Casola G, Varney RR, Stavas J, Neff CC, Wittich GR, Dillard J, Smith D, Friedman PJ. Radiologic drainage of infected and noninfected thoracic fluid collections. Presented at the Society of Thoracic Radiology, Washington, D.C., March 27-31, 1988.
- A103 Wittich GR, Steiner E, vanSonnenberg E, Jantsch H, Walter R, Baxter R, Kusnick C. Anatomy of the dorso-caudal right hepatic duct: Relevance to percutaneous biliary drainage. Presented at the Association of University Radiologists, Tulane University, New Orleans, Louisiana, April 17-21, 1988.
- A104 Wittich GR, vanSonnenberg E, Kumpan W, Hajek PC, Willson S, Nemcek A. Computed tomography of the splenorenal recess. Presented at the Association of University Radiologists, Tulane University, New Orleans, Louisiana, April 17-21, 1988.

- A105 Wittich GR, Helmer M, Mortinger H, Grabenwoeger F, Karnel F, vanSonnenberg E, Thorpe P. Radiological anatomy of the inferior epigastric artery (IEA). Presented at the Association of University Radiologists, Tulane University, New Orleans, Louisiana, April 17-21, 1988.
- A106 vanSonnenberg E, Casola G, Varney RR, Christensen R, Neff CC, Withers C, Wittich GR, Moossa AR. The role of interventional radiology for complications of cholecystectomy. Presented at the American Roentgen Ray Society 1988 Annual Meeting, San Francisco, California, May 8-13, 1988.
- A107 vanSonnenberg E, Casola G, Talner LB, Varney RR, Wittich GR, Christensen R. US-guided percutaneous nephrostomy for urinary obstruction during pregnancy. Presented at the American Roentgen Ray Society 1988 Annual Meeting, San Francisco, California, May 8-13, 1988.
- A108 Casola G, vanSonnenberg E, Neff CC, Varney RR, Wittich GR, Hoyt DB: Percutaneous drainage of enteric abscesses: Appendiceal, diverticular Crohn's. Presented at the Annual Meeting of the American Gastroenterology Association, New Orleans, LA, May 15-18, 1988.
- A109 Casola G, vanSonnenberg E, Varney RR, Wittich GR, Stavas J, Quinn SF, Gibbs J, Macauley S, Schechter MS: Percutaneous cecostomy: Laboratory and clinical experience. Presented at the Cardiovascular and Interventional Radiological Society, Berlin, Germany, June 12-17, 1988.
- A110 Casola G, vanSonnenberg E, Varney RR, Sukthankar R, Dillard J, Smith D: Radiologic percutaneous gastrostomy and gastroenterostomy: Indications, results, and difficulties. Presented at the Cardiovascular and Interventional Radiological Society, Berlin, Germany, June 12-17, 1988.
- A111 Robbins KT, vanSonnenberg E, Casola G, Varney RR. Image guided needle biopsy of inaccessible head and neck lesions. Presented at the Second International Conference for Head and Neck Cancer, Boston, Massachusetts, July 30 — August 5, 1988.
- A112 Varney RR, Moreland S, vanSonnenberg E, Casola G, Howell S, Cleary S. Assessment of intraperitoneal chemotherapy distribution with CT peritoneography. Presented at the 74th Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 27-December 2, 1988.
- A113 Casola G, vanSonnenberg E, Varney RR, Stavas J, Smith D, Dillard JP, Schechter MS. Percutaneous drainage of tuboovarian abscesses. Presented at the 74th Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 27-December 2, 1988.

- A114 Varney RR, vanSonnenberg E, Casola O, Wittich GR, Neff CC. Is the tandem or coaxial biopsy technique more likely to cause pneumothorax? Presented at the 74th Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 27-December 2, 1988.
- A115 Wittich GR, vanSonnenberg E, Karnel F, Schurawitzki H, Baxter R. Percutaneous puncture and drainage of mediastinal fluid collections. Presented at the 74th Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 27-December 2, 1988.
- A116 Casola G, vanSonnenberg E, Smith D, Varney RR, Stavas J, Neff CC. Percutaneous drainage of necrotic neoplasms: Indications and effectiveness. Presented at the 74th Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 27-December 2, 1988.
- A117 vanSonnenberg E, Casola G, Varney RR, Cox J, Zakko S, Jinich H, Hoyt DB, Zornow M, Hofmann AF. Gallstone dissolution: Selection of patients, procedural considerations, and followup. Presented at The Society of Gastrointestinal Radiologists, Eighteenth Annual Meeting and Postgraduate Course, Palm Desert, California, February 19-23, 1989.
- A118 vanSonnenberg E, Cox J, Hofmann AF, Casola G, Varney RR, D'Agostino H, Ainge G. In vitro assays of gallstone solubility: Comparison of a new catheter agitator, hand injection, and solvents alone. Presented at the American Roentgen Ray Society, New Orleans, Louisiana, May 7-12, 1989.
- A119 D'Agostino H, vanSonnenberg E, Casola G, Varney RR, Ainge GD, Dillard J, Jhala S. Percutaneous drainage of psoas abscesses and fluid collections: technical aspects, results and pitfalls. Presented at the American Roentgen Ray Society, New Orleans, Louisiana, May 7-12, 1989.
- A120 vanSonnenberg E, Casola G, Varney RR, Cox J, Zakko S, Jinich H, Hoyt DB, Zornow M, Hofmann AF. Gallstone dissolution: Selection of patients, procedural considerations, and followup. Presented at the American Roentgen Ray Society, New Orleans, Louisiana, May 7-12, 1989.
- A121 Stabile BE, Puccio E, vanSonnenberg E, Neff CC. Preoperative percutaneous drainage of diverticular abscesses. Presented at the Society for Surgery of the Alimentary Tract, Washington, D.C., May 16, 1989.
- A122 Zakko SF, Ramsby GR, vanSonnenberg E, Hofmann AF. Percutaneous contact dissolution of gallbladder stones using a microprocessor solvent transfer system and methyl tert-butyl ether (MTBE): Experience in 16 patients. Presented at the American Gastroenterological Association, Washington, D.C., May 14-17, 1989.

- A123 vanSonnenberg E, Casola G, Varney RR, D'Agostino HB, Zornow M, Mazzei W. Anesthesia for interventional radiology. Presented at the 75th Anniversary Scientific Assembly and Annual Meeting Radiological Society of North America, Chicago, Illinois, November 26 — December 1, 1989.
- A124 vanSonnenberg E, D'Agostino HB, Casola G, Varney RR, Wittich GR, Harker C. Percutaneous drainage of lung abscesses. Presented at the 75th Anniversary Scientific Assembly and Annual Meeting Radiological Society of North America, Chicago, Illinois, November 26 — December 1, 1989.
- A125 vanSonnenberg E, D'Agostino HB, Hofmann AF, Casola G, Varney Rr, Jinich H, Steingart C, McQuaid K, Hoyt D. Update on dissolution of gallstones with methyl-tert-butyl ether. Presented at the 75th Anniversary Scientific Assembly and Annual Meeting Radiological Society of North America, Chicago, Illinois, November 26 — December 1, 1989.
- A126 D'Agostino HB, vanSonnenberg E, Varney RR, Casola G, Wittich GR, Ainge G. Anatomic features of percutaneous cholecystostomy punctures and tract formation. Presented at the 75th Anniversary Scientific Assembly and Annual Meeting Radiological Society of North America, Chicago, Illinois, November 26 — December 1, 1989.
- A127 Neff C, vanSonnenberg E. CT follow-up of empyemas: Why percutaneous catheter drainage works. Presented at the 75th Anniversary Scientific Assembly and Annual Meeting Radiological Society of North America, Chicago, Illinois, November 26 — December 1, 1989.
- A128 vanSonnenberg E, D'Agostino H, Casola G, Varney RR. Percutaneous drainage of lung abscesses. Presented at the Society of Thoracic Radiology, Naples, Florida, January 7-11, 1990.
- A129 vanSonnenberg E, D'Agostino H, Casola G, Hofmann AF, Neto A, Varney RR, Gardner D, May S, Taggart S. Radiologic imaging before and after MTBE therapy for gallstones. Presented at the 19th Annual Meeting and Post-Graduate Course of the Society of Gastrointestinal Radiologists, Waikoloa, Hawaii, January 14-19, 1990.
- A130 Casola G, vanSonnenberg E, D'Agostino H, Harker C, Varney R, Smith D. Percutaneous drainage of tuboovarian abscess. Presented at the 15th Annual Course of The Society of Cardiovascular and Interventional Radiology, Miami Beach, Florida March 26-29, 1990.
- A131 Taggart S, vanSonnenberg E, D'Agostino H, Casola G, May S. Observation and mechanisms of occlusion of percutaneous catheters. Presented at the University of California, San Diego, Department of Radiology Research Conference, April 14, 1990.

- A132 Lee SH, vanSonnenberg E, D'Agostino H, Casola G, Tanenbaum L, Taggart S, May S. Laboratory analysis of catheters for percutaneous abscess drainage. Presented at the 38th Annual Meeting of the Association of University Radiologists, University of Minnesota, Minneapolis, Minnesota, April 22-27, 1990.
- A133 D'Agostino H, vanSonnenberg E, Kothari R, Neto A, Mauer J, Schteingart CD, Casola G, Hofmann AF. In vitro dissolution of simulated gallstones with methyl-tertiary-butyl ether following fragmentation with electrohydraulic lithotripsy. Presented at the 38th Annual Meeting of the Association of University Radiologists, University of Minnesota, Minneapolis, Minnesota, April 22-27, 1990.
- A134 D'Agostino H, vanSonnenberg E, Laverdiere T, Casola G, Varney RR, Ainge G, May S, Taggart S, Gardner D. Prophylactic antibiotics for elective percutaneous cholecystostomy: When are they necessary? Presented at the American Roentgen Ray Society 1990 Annual Meeting, Washington, D.C., May 13-18, 1990.
- A135 Wittich GR, vanSonnenberg E, Walter RM, Lang EV, Young H, Swanson D. Transhepatic removal of biliary calculi — integration of new techniques. Presented at the 12th Annual Meeting of the International Hepato-Biliary Pancreatic Association, Hong Kong, August 22-24, 1990.
- A136 vanSonnenberg E, Casola G, Wittich GR, D'Agostino H, Neff CC, Moossa AR. The role of interventional radiology for major complications of cholecystectomy. Presented at the 12th Annual Meeting of the International Hepato-Biliary Pancreatic Association, Hong Kong, August 22-24, 1990.
- A137 vanSonnenberg E, D'Agostino H, Jinich H, Hoyt D, Pandol S, Davis J, Casola G, Moossa AR, Hofmann AF. Treatment of pancreatic pseudocysts by percutaneous drainage and a somatostatin analog: Preliminary report. Presented at the 12th Annual Meeting of the International Hepato-Biliary Pancreatic Association, Hong Kong, August 22-24, 1990.
- A138 Wittich GR, vanSonnenberg E, Terasaki K, Swanson D, Lucas D, D'Agostino H, Lang E, Lycke G. Lateral transhepatic access for cholecystostomy. Presented at the 4th Annual Meeting of the American Lithotripsy Society, October 11-14, 1990.
- A139 Wittich GR, vanSonnenberg E, Lang E, Swanson D, Lucas D, Terasaki K, Walter R. Perfusion manometry after balloon dilatation of biliary strictures. Presented at the 76th Scientific Assembly of the Radiological Society of North America, Chicago IL November 25-30, 1990.

- A140 D'Agostino H, Park Y, Moyers JP, vanSonnenberg E, Sanchez R, Goodacre B, Casola G. Influence of the stopcock connection in the performance of percutaneous drainage catheters. Presented at the 76th Scientific Assembly of the RSNA, Chicago IL November 25-30, 1990.
- A141 Casola G, vanSonnenberg E, D'Agostino H, Kothari R, Sanchez R. Percutaneous drainage of 100 subphrenic abscesses. Presented at the 76th Scientific Assembly of the RSNA, Chicago IL November 25-30, 1990.
- A142 Casola G, vanSonnenberg E, D'Agostino H, Taggart S, May S. Transvaginal drainage of pelvic fluid collections with endovaginal US guidance. Presented at the 76th Scientific Assembly of the RSNA, Chicago IL November 25-30, 1990.
- A143 vanSonnenberg E, D'Agostino H, Casola G, Esch O, Taggart S, May S, Goodacre B, Sanchez R. Percutaneous US of abdominal viscera: Laboratory and clinical experience. Presented at the 76th Scientific Assembly of the RSNA, Chicago IL November 25-30, 1990.
- A144 Goodacre B, vanSonnenberg E, D'Agostino H, Casola G, Sanchez R. Complications of percutaneous cholecystostomy. Presented at the 76th Scientific Assembly of the RSNA, Chicago IL November 25-30, 1990.
- A145 vanSonnenberg E, D'Agostino H, Esch O, Casola G, Sanchez R, Goodacre B. Percutaneous ultrasound (PUS) of abdominal viscera: Laboratory and clinical experience. Presented at the 20th Annual Meeting of the Society of Gastrointestinal Radiologists, La Costa Carlsbad, CA, February 17-21, 1991.
- A146 Zeppa M, vanSonnenberg E, Esch O, D'Agostino H, Hofmann AF, Casola G, Goodacre B, Sanchez R. Nonsurgical treatment for gallstones — UCSD experience. Presented at the 20th Annual Meeting of the Society of Gastrointestinal Radiologists, La Costa Carlsbad, CA, February 17-21, 1991.
- A147 Sanchez R, vanSonnenberg E, D'Agostino H, Casola G, Moyers JP, Goodacre B. CT-assisted gastrostomy placement. Presented at the 39th Annual Meeting of the Association of University Radiologists, Orlando, Florida, March 17-22, 1991.
- A148 Nissenbaum M, D'Agostino H, vanSonnenberg E, Esch O, Sanchez R, Goodacre B. The sonographic appearance of percutaneous intraparenchymal ethanol injection as a function of tissue PO₂. Presented at the 39th Annual Meeting of the Association of University Radiologists, Orlando, Florida, March 17-22, 1991.
- A149 Nissenbaum M, D'Agostino H, vanSonnenberg E, Esch O, Sanchez R, Goodacre B. Percutaneous intraparenchymal ethanol injection: Physiological effects, tissue responses, and imaging characteristics in normal liver. Presented at the 39th Annual Meeting of the Association of University Radiologists, Orlando, Florida, March 17-22, 1991.

- A150 Goodacre B, vanSonnenberg E, D'Agostino H, Esch O, Sanchez R. Large bore transhepatic tract dilatation in the pig for percutaneous gallbladder and liver procedures. Presented at the 39th Annual Meeting of the Association of University Radiologists, Orlando, Florida, March 17-22, 1991.
- A151 Esch O, Rowlands P, vanSonnenberg E, D'Agostino H, Wagner F. Dynamic pressure and perfusion assessment of the gallbladder (GB), cystic (CD) and common bile ducts (CBD) in the dog. Presented at the 39th Annual Meeting of the Association of University Radiologists, Orlando, Florida, March 17-22, 1991.
- A152 Sanchez R, vanSonnenberg E, D'Agostino H, Goodacre B, Esch O, Nissenbaum M. Percutaneous tissue ablation with radiofrequency thermal energy. Presented at the 39th Annual Meeting of the Association of University Radiologists, Orlando, Florida, March 17-22, 1991.
- A153 Majidian M, vanSonnenberg E, D'Agostino H, Sanchez R, Goodacre B, Esch O. The cystic duct — in vitro analysis as a preliminary to percutaneous manipulations. Presented at the American Roentgen Ray Society 91st Annual Meeting, Boston, Massachusetts, 5/5-10/91.
- A154 D'Agostino H, vanSonnenberg E, Casola G, May S, Taggart S, Sanchez R, Goodacre B. Percutaneous drainage associated with somatostatin analog (Octreotide) for pancreatic pseudocysts: Early experience. Presented at the American Roentgen Ray Society 91st Annual Meeting, Boston, Massachusetts, 5/5-10/91.
- A155 Sanchez R, vanSonnenberg E, D'Agostino H, Casola G, Moyers JP, Goodacre B. CT Assisted gastrostomy placement. Presented at the American Roentgen Ray Society 91st Annual Meeting, Boston, Massachusetts, 5/5-10/91.
- A156 vanSonnenberg E, D'Agostino HB, Sanchez R, Goodacre B, Esch O, Easter D, Gosink B. Percutaneous ultrasound (PUS). Presented at the American Roentgen Ray Society 91st Annual Meeting, Boston, Massachusetts, 5/5-10/91.
- A157 vanSonnenberg E, D'Agostino HB, Esch O, Casola G, Sanchez R, Goodacre B. Percutaneous ultrasound of the abdominal viscera: Laboratory and clinical experience. Presented at the American Roentgen Ray Society 91st Annual Meeting, Boston, Massachusetts, 5/5-10/91.
- A158 Goodacre B, vanSonnenberg E, D'Agostino H, Sanchez H, Casola G. Comparison of various needling techniques as a cause of pneumothorax during lung biopsy. Presented at the Society of Thoracic Radiology, Toronto, Ontario, Canada, 5/12-16/91.

- A159 Middleton MS, vanSonnenberg E. Evaluation of an interventional radiology data base system implemented with a personal computer. Presented at the 77th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 12/1-6/91.
- A160 vanSonnenberg E, Barton J, Wittich GR. Interventional radiology and the law. Presented at the 77th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 12/1-6/91.
- A161 vanSonnenberg E, D'Agostino HB, Sanchez RB, Goodacre BW, Majidian M, Christensen RA. Scopes and lasers for interventional radiologic gallbladder and biliary procedures. Presented at the 77th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 12/1-6/91.
- A162 vanSonnenberg E. Categorical Course in Interventional Radiology: Percutaneous abscess drainage: recent advances in abscess drainage. Presented at the 77th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 12/1-6/91.
- A163 D'Agostino HB, vanSonnenberg E, Sanchez RB, Goodacre BW, Villaveiran RG, Casola G. Percutaneous drainage associated with somatostatin analog (Octreotide) for pancreatic pseudocysts. Presented at the 77th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 12/1-6/91.
- A164 vanSonnenberg E, D'Agostino H, Sanchez R, O'Laoide R, Fundell L, Oglevie S. CT-guided drainage of pneumothoraces in patients with severe pulmonary compromise. Presented at the Society of Thoracic Radiology, Laguna Niguel, California, 1/19-23/92.
- A165 O'Laoide RM, D'Agostino HB, vanSonnenberg E, Sanchez RB, Oglevie S, Fundell L, Casola G. Ultrasound guided bedside percutaneous cholecystostomy in ICU patients: Indications, technique, and results. Presented at the 36th Annual American Institute for Ultrasound in Medicine, San Diego, California, 3/8-11/92.
- A166 Fundell L, D'Agostino HB, vanSonnenberg E, Sanchez RB, Oglevie SB, O'Laoide R, Casola G. Ultrasound guided thoracic biopsy: technique and results. Presented at the 36th Annual American Institute for Ultrasound in Medicine, San Diego, California, 3/8-11/92.

- A167 vanSonnenberg E, D'Agostino HB, Sanchez RB, Goodacre BW, Esch O, Easter D, Gosink BB. Percutaneous ultrasound (PUS) of the gallbladder and bile ducts: percutaneous and laparoscopic experience. Presented at the 36th Annual American Institute for Ultrasound in Medicine, San Diego, California, 3/8-11/92.
- A168 Schumacher WJ, Nelson T, vanSonnenberg E. Quantification of amino acids in human body fluids by 1H NMR spectroscopy: A specific test for the identification of abscess. Presented at the Fortieth Annual Meeting of the Association of University Radiologists, Chicago, Illinois, 4/20-26/92. Award Paper.
- A169 Esch O, vanSonnenberg E, O'Laoide R, Schteingart CD, Wahrenbrock E, Kirby D, Pappert D, D'Agostino HB, Hofmann AF. Successful contact dissolution of cholesterol gallstones in a high-risk patient with ethyl propionate (EP). Presented at the American Gastroenterological Association, San Francisco, California, 5/10-13/92.
- A170 Sanchez RB, vanSonnenberg E, D'Agostino HB, Goodacre BW, Esch O, Nissenbaum M. Percutaneous tissue ablation with radiofrequency thermal energy. Presented at the 92nd Annual Meeting of the American Roentgen Ray Society, Orlando, Florida, 5/10-15/92.
- A171 Oglevie SB, vanSonnenberg E, D'Agostino H, Sanchez R, O'Laoide R, Fundell L, Tsai C, Epstein D. Recent experience with percutaneous biliary drainage. Presented at the 92nd Annual Meeting of the American Roentgen Ray Society, Orlando, Florida, 5/10-15/92.
- A172 D'Agostino HB, vanSonnenberg E, Sanchez R, Chalmers N, O'Laoide R, Oglevie S, Fundell L. Percutaneous intraperitoneal catheter placement for chemotherapy treatment. Presented at the 92nd Annual Meeting of the American Roentgen Ray Society, Orlando, Florida, 5/10-15/92.
- A173 Fundell L, D'Agostino HB, vanSonnenberg E, Sanchez RB, Oglevie S, O'Laoide R, Casola G. Ultrasound guided thoracic biopsy: Technique and results. Presented at the 92nd Annual Meeting of the American Roentgen Ray Society, Orlando, Florida, 5/10-15/92.
- A174 Sanchez RB, vanSonnenberg E, D'Agostino HB, Shank T, Oglevie S, O'Laoide R, Fundell L. Ultrasound guided thyroid biopsy: technique and results. Presented at the 92nd Annual Meeting of the American Roentgen Ray Society, Orlando, Florida, 5/10-15/92.

- A175 Esch O, Nissenbaum M, D'Agostino HB, vanSonnenberg E, Sanchez R. Effect of percutaneous ethanol injection on the liver parenchyma of the pig. Presented at the 14th Annual Meeting of the International Hepato-Biliary Pancreatic Association, Coronado, California, 8/31-9/2/92.
- A176 vanSonnenberg E, D'Agostino HB, Goodacre BW, Sanchez RB, Casola G, O'Laoide R, Donaldson J, Pittman C. Percutaneous gallbladder puncture and cholecystostomy: Results, complications, and caveats for safety. Presented at the 14th Annual Meeting of the International Hepato-Biliary Pancreatic Association, Coronado, California, 8/31-9/2/92.
- A177 Oglevie SB, O'Laoide R, Fundell LJ, Sanchez R, D'Agostino HB, vanSonnenberg E. Recent experience with percutaneous biliary drainage. Presented at the 14th Annual Meeting of the International Hepato-Biliary Pancreatic Association, Coronado, California, 8/31-9/2/92.
- A178 O'Laoide R, vanSonnenberg E, D'Agostino HB, Sanchez R, Oglevie S, Fundell L. Emergency percutaneous cholecystostomy for suspected acute cholecystitis. Presented at the 14th Annual Meeting of the International Hepato-Biliary Pancreatic Association, Coronado, California, 8/31-9/2/92.
- A179 Esch O, vanSonnenberg E, Rowlands P, D'Agostino HB. Fluid dynamics of gallbladder and bile ducts in the dog: relationship between pressure and volume. Presented at the 14th Annual Meeting of the International Hepato-Biliary Pancreatic Association, Coronado, California, 8/31-9/2/92.
- A180 Schumacher DJ, Nelson TR, vanSonnenberg E, Meng TC, Lavin PH. Quantification of amino acids in human body fluids by ¹H NMR spectroscopy: A specific test for identification of abscess. Presented at the 14th Annual Meeting of the International Hepato-Biliary Pancreatic Association, Coronado, California, 8/31-9/2/92.
- A181 Esch O, vanSonnenberg E, Zeppa M, D'Agostino HB, Hofmann AF. Nonsurgical Treatment for gallstones: update on the UCSD experience. Presented at the 14th Annual Meeting of the International Hepato-Biliary Pancreatic Association, Coronado, California, 8/31-9/2/92.
- A182 Christensen RA, vanSonnenberg E, Nemcek A Jr, D'Agostino HB. Inadvertent ligation of the aberrant right hepatic bile duct at cholecystectomy: Radiologic diagnosis and therapy. Presented at the 14th Annual Meeting of the International Hepato-Biliary Pancreatic Association, Coronado, California, 8/31-9/2/92.

- A183 vanSonnenberg E, D'Agostino HB, Sanchez R, O'Laoide R, Oglevie S, Fundell L, Easter D, Esch O, Donaldson J, Pittman C. Percutaneous and laparoscopic intraluminal ultrasound in the gallbladder and bile ducts. Presented at the 14th Annual Meeting of the International Hepato-Biliary Pancreatic Association, Coronado, California, 8/31-9/2/92.
- A184 Esch O, Schteingart CD, vanSonnenberg E, D'Agostino H, Hofmann AF. Ethyl Propionate (EP): A new solvent for safe and effective contact dissolution of cholesterol gallstones. Presented at the 14th Annual Meeting of the International Hepato-Biliary Pancreatic Association, Coronado, California, 8/31-9/2/92.
- A185 Majidian M, vanSonnenberg E, D'Agostino HB, Sanchez R, Goodacre B, Esch O. The cystic duct — in vitro analysis as a prelim to percutaneous manipulations. Presented at the 14th Annual Meeting of the International Hepato-Biliary Pancreatic Association, Coronado, California, 8/31-9/2/92.
- A186 Esch O, O'Laoide R, vanSonnenberg E, D'Agostino H, Sanchez R, Oglevie S, Fundell L. Emergency percutaneous cholecystostomy for suspected acute cholecystitis in septic patients. Presented at the 4th Vienna Shock Forum, European Shock Society, Vienna, Austria, September, 1993.
- A187 vanSonnenberg E, Dake MD, Sarkisian MK, Teresaki K, Lukacs J, Wittich GR. Percutaneous creation of biliobiliary and bilioenteric anastomoses. Presented at the 78th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/92.
- A188 vanSonnenberg E, D'Agostino HB, Sanchez RB, Oglevie S, O'Laoide R, Fundell L, et al. Percutaneous US of the bile ducts and gallbladder: Percutaneous and laparoscopic experience. Presented at the 78th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/92.
- A189 vanSonnenberg E, D'Agostino HB, Sanchez R, Oglevie SB, O'Laoide R, Fundell L. Percutaneous intraluminal US evaluation of metallic biliary stents. Presented at the 78th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/92.
- A190 vanSonnenberg E, Sanchez R, D'Agostino HB, O'Laoide R, Oglevie SB, Fundell L. Experience and working classification for complex configurations and metal stent placement. Presented at the 78th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/92.

- A191 Fundell L, D'Agostino HB, vanSonnenberg E, Sanchez RB, Oglevie S, O'Laoide R, et al. US-guided thoracic biopsy: Technique and results. Presented at the 78th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/92.
- A192 Fundell L, Rosenkrantz H, vanSonnenberg E, D'Agostino HB, Sanchez R, Oglevie SB, et al. Evaluation of a self-contained pneumothorax treatment set. Presented at the 78th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/92.
- A193 Oglevie SB, vanSonnenberg E, D'Agostino HB, Sanchez R, O'Laoide R, Fundell L. Recent experience with percutaneous biliary drainage. Presented at the 78th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/92.
- A194 O'Laoide R, D'Agostino HB, vanSonnenberg E, Sanchez R, Oglevie SB, Fundell L. Percutaneous drainage of iliopsoas abscesses and fluid collections. Presented at the 78th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/92.
- A195 O'Laoide R, Oglevie SB, Fundell L, Sanchez RB, vanSonnenberg E, D'Agostino HB. Single-step catheter removal in abscess drainage. Presented at the 78th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/92.
- A196 O'Laoide R, vanSonnenberg E, D'Agostino HB, Sanchez RB, Oglevie SB, Fundell L. Emergency percutaneous cholecystostomy for suspected acute cholecystitis. Presented at the 78th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/92.
- A197 Wittich GR, vanSonnenberg E, D'Agostino HB, Lang E, Teresaki K. Percutaneous removal of intrahepatic and extrahepatic biliary calculi: Integration of new techniques. Presented at the 78th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/92.
- A198 vanSonnenberg E, Dake MD, Sarkisian MK, Teresaki K, Lukacs J, Wittich GR. Percutaneous creation of biliobiliary and bilioenteric anastomoses. Presented at the 78th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/92.
- A199 vanSonnenberg E, D'Agostino HB, Sanchez R, O'Laoide R, Hoyt A, Donaldson J, Pittman C. Metal stents in the ureter: Technique, results, and intraluminal ultrasound followup. Presented at The Society of Uroradiology, Naples, Florida, 1/9-15/93.

- A200 Chon KS, vanSonnenberg E, D'Agostino HB, Wittich Gr, Sanchez R, O'Laoide R, Oglevie SB, Lee CH. Percutaneous drainage of severely ill patients with pancreatic abscess and necrosis. Presented at the 22nd Annual Meeting and Postgraduate Course, Society of Gastrointestinal Radiologists, Scottsdale, Arizona, 1/17-22/93.
- A201 vanSonnenberg E, D'Agostino HB, Oglevie SB, O'Laoide R, Sanchez R, Donaldson J, Pittman C. Percutaneous intraluminal ultrasound evaluation of metallic biliary stents. Presented at the 22nd Annual Meeting and Postgraduate Course, Society of Gastrointestinal Radiologists, Scottsdale, Arizona, 1/17-22/93.
- A202 Wroblecka T, vanSonnenberg E, D'Agostino HB, Fundell L, O'Laoide R, Sanchez R, Oglevie SB. Hepatic cyst sclerosis. Presented at the 22nd Annual Meeting and Postgraduate Course, Society of Gastrointestinal Radiologists, Scottsdale, Arizona, 1/17-22/93.
- A203 Hart E, vanSonnenberg E, D'Agostino HB, O'Laoide R, Donaldson J, Pittman C. Percutaneous image guided catheter therapy of empyema in 200 cases. Presented at the American Roentgen Ray Society, San Francisco, California, 4/25-30/93.
- A204 Yu BF, D'Agostino HB, Kim SK, Rice R, Carrillo AJ, vanSonnenberg E, Kim S. Factors influencing intratumoral injection distribution in the animal model. Presented at the American Roentgen Ray Society, San Francisco, California, 4/25-30/93.
- A205 D'Agostino HB, O'Laoide R, Oglevie S, Fundell L, Donaldson J, Pittman C, Hart E, Carrillo AJ, Kim SK, vanSonnenberg E. Percutaneous Image Guided Catheter Therapy of Empyema in 200 Cases. Presented at the American Roentgen Ray Society, San Francisco, California, April 25-30, 1993.
- A206 Kim Y, D'Agostino HB, vanSonnenberg E. Experience of contact dissolution with ethylene propionate in gallstones. Presented at The 1st Asian-Pacific Congress of Cardiovascular and Interventional Radiology, Seoul, Korea, 5/24-27/93.
- A207 O'Laoide R, Vieira MV, D'Agostino HB, Carrillo AJ, Kim S, Lee Y, Russack V, vanSonnenberg E. Percutaneous alcohol injection for ablation of experimental tumors in the animal model. Presented at the 41st Annual Meeting of the Association of University Radiologists, Cincinnati, Ohio, 5/93.
- A208 Amelsberg A, vanSonnenberg E, Esch O, Schteingart CD, Hofmann AF. Contact dissolution of cholesterol gallstones with ethyl propionate (EP): Further clinical experience. Presented at the American Association for the Study of Liver Diseases, Chicago, Illinois, 11/4-7/93.

- A209 vanSonnenberg E. Radiology and the law, with an emphasis on interventional radiology. Presented at the 79th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/28 — 12/3/93.
- A210 vanSonnenberg E, Schmidt JD, Barkin I, Wittich GR. US-guided cryoablation of the prostate. Presented at the 79th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/28 — 12/3/93.
- A211 vanSonnenberg E, Chon K, Wittich GR, D'Agostino HB, O'Laoide RM, Lee CH. Percutaneous abscess drainage of pancreatic abscess. Presented at the 79th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/28 — 12/3/93.
- A212 vanSonnenberg E, Wroblecka T, D'Agostino H, Mathieson J, Casola G, O'Laoide R, Cooperberg P, Wittich G. Symptomatic hepatic cysts: percutaneous drainage and sclerosis. Presented at the 79th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/28 — 12/3/93.
- A213 Chon KC, vanSonnenberg E, D'Agostino HB, O'Laoide RM, Colt HG, Hart E. CT-guided percutaneous catheter drainage of loculated thoracic air collections in patients with severe pulmonary compromise. Presented at the 79th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/28 — 12/3/93.
- A214 vanSonnenberg E. Percutaneous therapy for pancreatic abscess. Presented at the 23rd Annual Meeting of the Society of Gastrointestinal Radiologists, Maui, Hawaii, 2/13-18/94.
- A215 Wittich GR, vanSonnenberg E. Pancreatic necrosis: role of percutaneous drainage. Presented at the 23rd Annual Meeting of the Society of Gastrointestinal Radiologists, Maui, Hawaii, 2/13-18/94.
- A216 Wittich GR, Lang E, Lechner G, vanSonnenberg E. The role of percutaneous cholecystolithotomy in the era of laparoscopic cholecystectomy. Presented at the 23rd Annual Meeting of the Society of Gastrointestinal Radiologists, Maui, Hawaii, 2/13-18/94.
- A217 vanSonnenberg E, Chon K. CT-guided percutaneous drainage of loculated thoracic air collections in patients with severe pulmonary compromise. Presented at the Society of Thoracic Radiology Meeting, Scottsdale, Arizona, 3/7/94.

- A218 Beale AM, D'Agostino HB, Casola G, vanSonnenberg E. Image guided transvaginal and transrectal aspiration and drainage of pelvic collections: technical details and results over a 3-year period. Presented at the 19th Annual Scientific Meeting of the Society of Cardiovascular and Interventional Radiology, San Diego, California, March 23, 1994.
- A219 Casola G, vanSonnenberg E, Stainken B, Schmidt J, Barken I, Parsons L, Weider J. Percutaneous cryoablation of the prostate using transrectal ultrasound guidance. Presented at the 19th Annual Scientific Meeting of the Society of Cardiovascular and Interventional Radiology, San Diego, California, March 23, 1994.
- A220 O'Laoide R, D'Agostino H, vanSonnenberg E, Pittman C, Donaldson J, Hart E. Outcome analysis after percutaneous drainage of periappendiceal abscesses. Presented at the 19th Annual Scientific Meeting of the Society of Cardiovascular and Interventional Radiology, San Diego, California, March 23, 1994.
- A221 D'Agostino H, L'Laoide R, Oglevie S, Stainken B, Branstetter B, vanSonnenberg E. Percutaneous drainage of pancreatic fluid collections: indications, techniques and results — five year follow-up. Presented at the 19th Annual Scientific Meeting of the Society of Cardiovascular and Interventional Radiology, San Diego, California, March 23, 1994.
- A222 Casola G, vanSonnenberg E, Stainken B, Schmidt J, Barken I, Parsons L, Weider J. Percutaneous cryoablation for prostate cancer using transrectal ultrasound guidance. Presented at the 94th Annual American Roentgen Ray Society meeting, New Orleans, Louisiana, 4/24-29/94.
- A223 vanSonnenberg E. Percutaneous therapy for acute pancreatitis collections. Presented at the 94th American Roentgen Ray Society Meeting, New Orleans, Louisiana, 4/24-29/94.
- A224 vanSonnenberg E. Percutaneous therapy for pancreatic abscess. Presented at the 94th American Roentgen Ray Society Meeting, New Orleans, Louisiana, 4/24-29/94.
- A225 Wittich GR, Daniels GF, Morgan R, Walser E, vanSonnenberg E. Metal stents for treatment of benign ureteral strictures: mid-term follow-up. Presented at the 94th Annual Meeting of the American Roentgen Ray Society, New Orleans, Louisiana, 4/24-29/94.
- A226 Wittich GR, vanSonnenberg E, Morgan R, Walser E. Pancreatic necrosis: role of percutaneous drainage. Presented at the 94th Annual Meeting of the American Roentgen Ray Society, New Orleans, Louisiana, 4/24-29/94.

- A227 vanSonnenberg E. Percutaneous Cryoablation for Prostate Cancer Using Transrectal Ultrasound Guidance. Presented at the 94th Annual Meeting of the American Roentgen Ray Society, New Orleans, Louisiana, 4/24-29/94.
- A228 O'Laoide R, vanSonnenberg E, D'Agostino H, Donaldson J, Pittman C, Hart E. Psoas abscess in disseminated coccidioidomycosis: imaging findings and response to percutaneous drainage. Presented at the 94th Annual Meeting of the American Roentgen Ray Society, New Orleans, Louisiana, 4/24-29/94.
- A229 O'Laoide R, D'Agostino H, vanSonnenberg E, Pittman C, Donaldson J, Hart E. Outcome analysis after percutaneous drainage of periappendiceal abscesses. Presented at the 94th Annual Meeting of the American Roentgen Ray Society, New Orleans, Louisiana, 4/24-29/94.
- A230 vanSonnenberg E, D'Agostino H, Easter D, Sanchez R, Christensen R, Kerlan R, Moossa A. Complications of laparoscopic cholecystectomy: coordinated radiologic and surgical management in 21 patients. Presented at the International Hepato-Pancreato-Biliary Association, Boston, Massachusetts, 5/31-6/3/94.
- A231 Orihuela E, Neal D, vanSonnenberg E, Johnson E, Pow-Sang M, De'Angelis A, Warren M. Cryotherapy for prostatic carcinoma. Presented at the 73rd Annual South Central Section Meeting, Vancouver, B.C., 8/27-31/94.
- A232 Stainken B, Casola G, vanSonnenberg E, Weider J, Schmidt J. Percutaneous cryosurgery for prostate cancer. Presented at the International Conference Therapies by Interventional Imaging, Milan, Italy, October 6-8, 1994.
- A233 Nolsoe C, vanSonnenberg E, Esch O, Wittich G, Motamedi M. US-guided interstitial diffuser tip Nd-YAG laser hyperthermia in a chronic pic model and selected group of patients with liver metastases. Presented at the 80th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/27-12/2/94.
- A234 Wittich G, vanSonnenberg E, Walser E, Morgan R, D'Agostino H, O'Laoide R. Percutaneous drainage of gallbladder perforation. Presented at the 80th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/27-12/2/94.
- A235 Casola G, Stainken B, vanSonnenberg E, Weider J, Schmidt J, Barken I. Percutaneous cryosurgery for prostate cancer. Presented at the 80th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/27-12/2/94.

- A236 vanSonnenberg E, Wittich G, Walser E, Morgan R, Stabile B, Moore B. Unsuspected postoperative pancreatic pseudocysts — detection and percutaneous drainage. Presented at the Annual Meeting of The Society of Gastrointestinal Radiologists, Tucson, Arizona, 2/26-3/3/95.
- A237 Skjoldbye B, Nolsoe C, Wittich G, vanSonnenberg E, Goodacre B. Laparoscopic ultrasound scanning prior to laparoscopic cholecystectomy: a pilot study. Presented at the 24th Annual Meeting of the Society of Gastrointestinal Radiologists, Tucson, Arizona, 2/26-3/3/95.
- A238 vanSonnenberg E, Wittich G, Walser E, Morgan R, Stabile B, Moore B. Unsuspected postoperative pancreatic pseudocysts — detection and percutaneous drainage. Presented at the 24th Annual Meeting of the Society of Gastrointestinal Radiologists, Tucson, Arizona, 2/26-3/3/95.
- A239 Wittich G, vanSonnenberg E, Walser E, Morgan R, D'Agostino H, O'Laoide R. Percutaneous drainage of gallbladder perforation. Presented at the 24th Annual Meeting of the Society of Gastrointestinal Radiologists, Tucson, Arizona, 2/26-3/3/95.
- A240 Stainken B, vanSonnenberg E, Casola G, et. Al. Percutaneous cryoablation of the prostate. Presented at the 20th Annual Society of Cardiovascular and Interventional Radiology (SCVIR), Fort Lauderdale, Florida, March 26, 1995.
- A241 Casola G, Stainken B, vanSonnenberg E, Schmidt J. Cryosurgery for prostate cancer: Results in 300 patients. Presented at the 20th Annual Society of Cardiovascular and Interventional Radiology (SCVIR), Fort Lauderdale, Florida, March 26, 1995.
- A242 vanSonnenberg E, Orihuela E, Neal D, Wittich G, Walser E, Warren M. US-guided cryoablation of the prostate. Presented at the International College of Surgeons, San Diego, California, 3/30-4/2/95.
- A243 Goodacre B, Finn N, Nolsoe C, Esch O, Wittich G, vanSonnenberg E. Interstitial laser photocoagulation in canine lung: a preliminary investigation of a new treatment for lung cancer. Presented at the 43rd Annual Meeting of the Association of University Radiologists, San Diego, California, 4/4-8/95.
- A244 Orihuela O, Neal D, Pow-Sang M, DeAngelis A, vanSonnenberg E, Warren M. Cryotherapy for prostate cancer (Pca): Impact on voiding function. Presented at the 1995 American Urological Association, Inc., Las Vegas, Nevada, 4/22-29/95.
- A245 Casola G, Stainken B, vanSonnenberg E, Schmidt J. Cryoablation of the prostate. Presented at the 1995 American Roentgen Ray Society Meeting, Scientific Session 6, Washington, D.C., 4/30-5/5/95.

- A246 Orihuela E, Neal DE Jr, vanSonnenberg E, Pow-Sang M, Elfarr S, Warren M. Safety and effectiveness of cryotherapy for the treatment of localized prostate cancer. 13th World Congress on Endourology and ESWL. Jerusalem, Israel. 11/95. J Endour 9:S143, 1995 (Abstract published in Supplement).
- A247 Stainken BF, Casola G, Lim GM, vanSonnenberg E, Schmidt JD. Percutaneous transperineal cryoablation of the prostate as an adjunct or salvage procedure. 81st Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/26-12/1/95.
- A248 Esch O, DeWitt, Crow W, Walser E, Kent, vanSonnenberg E. Cerebral angiography following traumatic brain injury (TBI) in a rat model. Presented at the 81st Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/26-12/1/95.
- A249 vanSonnenberg E, Orihuela E, Neal D, Goodacre BG, Nolsoe CP, Warren M. Cryoablation of the prostate for prostatic carcinoma. Presented at the 81st Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/26-12/1/95.
- A250 Uner, Esch O, Behling, Dowling, Schteingart, vanSonnenberg E. Effect of polyvinyl alcohol particles on the urinary system of the rabbit. Presented at the 81st Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/26-12/1/95.
- A251 vanSonnenberg E, Walser E, Kumar R, Reyes R, Otte W, Wittich G. Radiology film management: Conversion and control of radiographs in a large institution. Presented at the 81st Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/26-12/1/95.
- A252 Wittich G, vanSonnenberg E, DeYoung A, Walser E, Reyes R, Otte W. Strategies for supply cost reduction in a large academic radiology department. Presented at the 81st Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/26-12/1/95.
- A253 Garza R, Esch O, Bell B, Goodacre BW, Muniz J, Motamedi M, Traber L, vanSonnenberg E. Minimally invasive laser treatment for localized lung tumors. Presented at the 14th Annual Meeting, Society for Biomedical Engineering in Medicine and Biology, Houston, Texas, 2/8-9/96.
- A254 Garza R, Esch O, Bell B, Goodacre BW, Muniz J, Motamedi M, Traber L, vanSonnenberg E. Absorption of laser energy in human tissue: optimization of wavelength and dose for maximal therapeutic effect. Presented at the 37th Annual National Student Research Forum, Galveston, Texas, 4/25-27/96.

- A255 Esch O, Willcott MR, Mathru M, Garza R, Patterson R, Hillmann G, Brunder D, vanSonnenberg E. MRI of upper airway narrowing during anesthesia: manual measurements and computerized 3D reconstruction. Presented at the 4th Meeting, International Society for Magnetic Resonance in Medicine, New York, New York, 4/27-5/3/96.
- A256 Meadors J, Wittich G, Goodacre B, Walser E, vanSonnenberg E. Percutaneous palliation of intrahepatic cholangiocarcinoma. Presented at the 1996 American Roentgen Ray Society Meeting, San Diego, California, 5/5-5/10/96.
- A257 Meadors J, Wittich G, Goodacre B, Walser E, vanSonnenberg E. Techniques for percutaneous removal of malfunctioning endoscopically placed stents. Presented at the American Roentgen Ray Society Meeting, San Diego, California, 5/5-5/10/96.
- A258 Rieniets CY, Wittich GR, vanSonnenberg E, Goodacre BW, DeYoung A, Reyes R. Selective use of low osmolality contrast agents for studies: safety and cost effectiveness. Presented at the American Roentgen Ray Society Meeting, San Diego, California, 5/5-10/96.
- A259 Esch O, Garza R II, Mathru M, Patterson R, Brunder D, Hillmann G, Willcott MR, vanSonnenberg E. 3-D reconstruction of upper airway MR images in healthy and anesthetized Volunteers. Presented at the 13th Symposium for Computer Applications in Radiology (SCAR), Denver, Colorado, June 6-9, 1996.
- A260 Orihuela E, Elfarr S, vanSonnenberg E, Neal DE Jr, Warren M. Impact of urethral warmer on morbidity and effectiveness of cryotherapy for prostate cancer. Presented at the 75th Annual Meeting of the South Central Section of the American Urological Association, Vail, Colorado, September 7-11, 1996.
- A261 Orihuela E, Chakrabarti P, Elfarr S, Neal DE Jr, vanSonnenberg E, Warren M. Clinical significance and source of PSA after cryotherapy of prostate cancer. Presented at the 75th Annual Meeting of the South Central Section of the American Urological Association, Vail, Colorado, September 7-11, 1996.
- A262 vanSonnenberg E, Orihuela E, Neal D, Chaljub G, Goodacre B, Wittich G, Warren M. Cryoablation of the prostate for prostatic carcinoma with MRI follow-up. Presented at The Society for Minimally Invasive Therapy (SMIT) VIII International Meeting 1996, Villa Erba — Cernobbio (CO), Italy, September 18-20, 1996.

- A263 vanSonnenberg E, Wittich G, Zwischenberger J, Johnson R Jr, Goodacre B, Walser E, Annand S. Tracheobronchial stents — indications, technique, results, and 3D imaging. Presented at The Society for Minimally Invasive Therapy (SMIT) VIII International Meeting 1996, Villa Erba — Cernobbio (CO), Italy, September 18-20, 1996.
- A264 vanSonnenberg E, Chaljub G, Hadjipavlou A, Nolsoe C, Ko E. MRI and ultrasound-guided cryotherapy to treat paraspinal hemangioma. Presented at The Society for Minimally Invasive Therapy (SMIT) VIII International Meeting 1996, Villa Erba — Cernobbio (CO), Italy, September 18-20, 1996.
- A265 Orihuela E, Elfarr S, vanSonnenberg E, Neal DE Jr, Warren M, Herbert F, Albert G. Cryotherapy for localized prostate cancer. Presented at the XXVIII Congreso de la Confederacion American de Urologia, Santiago de Chile, 10/96.
- A266 Ramaswamy MR, Walser EM, Reyes RN, Esch O, vanSonnenberg E, Nealon W. Effect of computed radiography on a trauma center. Presented at the 82nd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 12/1-6/96.
- A267 Hootman K, vanSonnenberg E, McNees S, Welch L, Walser E, Mileski W. Cervical spine studies in the emergency room efficacy, throughput, and cost problems. Presented at the 82nd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 12/1-6/96.
- A268 Willcott MR, Ali S, Cesani F, Villanueva-Meyer J, Esch O, vanSonnenberg E. In vivo and in vitro glucose metabolism of murine liver tumor with MR imaging and C-13 nuclear MR spectroscopy. Presented at the 82nd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 12/1-6/96.
- A269 Esch O, Goodacre B, vanSonnenberg E, Garza R, Walser E, Traber L RN, Motamedi M. Minimally invasive laser treatment of ovine lung tumors under MR guidance: Observations in vitro and in vivo. Presented at the Society of Thoracic Radiology Refresher Course: Thoracic Imaging 1997, Naples, Florida, 1/19-23/97.
- A270 Hootman K, vanSonnenberg E, McNees S, Welch L, Walser E, Mileski W. Cervical spine studies in the emergency room. Presented by the American Institute of Postgraduate Education at the Radiology for Emergency and Primary Care Physicians Course, Kona, Hawaii, 1/26-30/97.
- A271 vanSonnenberg E, Suominen D, Chaljub G, Hendrick E, Orihuela E, Neal DE, Warren M. MRI of the prostate following cryotherapy". Presented at The Society of Urological Cryosurgeons 4th Annual Meeting, Maui, Hawaii, 1/29-2/1/97.

- A272 vanSonnenberg E, Wittich GR, Chon KS, D'Agostino HB, Casola G, Easter D, Morgan RG, Walser EM, Nealon WH, Goodacre B, Stabile BE. Percutaneous radiologic drainage of pancreatic abscess. Presented at the AHPBA, Miami, Florida, 2/20-23/97.
- A273 vanSonnenberg E, Ali S, Kavanagh P, Goodacre B, Johnson R Jr, Blais T, Wittich GR, Walser EM. Making undrainable abscesses and fluid collections drainable — preliminary laboratory and clinical experience. Presented at the American Roentgen Ray Society (97th Annual Meeting), Boston, Massachusetts, 5/4-9/97.
- A274 Esch O, Chaljub G, Mathru M, Goodacre B, vanSonnenberg E, Lang J, Herbert M. The effect of ketamine and propofol sedation on the upper airway: a cross-over MRI study in healthy subjects. Presented at the American Roentgen Ray Society (97th Annual Meeting), Boston, Massachusetts, 5/4-9/97.
- A275 vanSonnenberg E, Wittich G, Zwischenberger J, Goodacre B, Walser E, Johnson RD, Anand S. Tracheobronchial stents — indications, technique, and results. Presented at the American Roentgen Ray Society (97th Annual Meeting), Boston, Massachusetts, 5/4-9/97.
- A276 Goodacre BW, Esch O, vanSonnenberg E, Garza R, Wittich GR, Traber L, Motamedi M. Minimally invasive laser treatment of sheep lung tumors: observations in vitro and vivo. Presented at the International College of Surgeons North American Federation Congress, Vancouver, BC, Canada, 7/24-26/97.
- A277 Wittich GR, vanSonnenberg E, Zwischenberger JJ, Johnson RF, Morrison RJ. Virtual bronchoscopy for planning of transluminal tracheobronchial stenting. Presented at the International College of Surgeons North American Federation Congress, Vancouver, BC, Canada, 7/24-26/97.
- A278 Orihuela E, Neal DE Jr, vanSonnenberg E, Warren M. Contributing factors and management of sloughing of prostatic urethra after cryotherapy. Presented at the 15th Annual World Congress on Endourology, Glasgow, Scotland, 8/31-9/3/97.
- A279 Orihuela E, Neal DE Jr, vanSonnenberg E, Warren M. Cryotherapy vs. radical prostatectomy and radiation for the treatment of localized prostate cancer: results in contemporary patients at a single institution. Presented at the 15th Annual World Congress on Endourology, Glasgow, Scotland, 8/31-9/3/97.
- A280 Orihuela E, Neal DE Jr, vanSonnenberg E, Warren M. Localized prostate cancer treated with cryotherapy: impact of neoadjuvant therapy on morbidity and efficacy. Presented at the 15th Annual World Congress on Endourology, Glasgow, Scotland, 8/31-9/3/97.

- A281 Herbert F, Orihuela E, Albert G, Elfarr S, vanSonnenberg E, Neal Jr DE, Warren M. Sloughing of prostatic urethra after cryotherapy (cryotx): contributing factors and associated morbidity. Presented at the 76th Annual Meeting of the South Central Section of the American Urological Association, Inc., Bermuda, 11/8-12/97.
- A282 Goodacre B, Ozkan O, Wittich G, Kavanagh P, Zwischenberger J, vanSonnenberg E. Costs associated with chest tube placement for pneumothorax complicating percutaneous chest biopsy. Presented at the 83rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/30-12/5/97.
- A283 Kavanagh P, Goodacre B, Wittich G, Schnadig V, Morgan R, vanSonnenberg E. Efficacy of percutaneous transthoracic fine needle biopsy of benign mediastinal lesions. Presented at the 83rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/30-12/5/97.
- A284 Chaljub G, Hamilton C, vanSonnenberg E, Wittich G. MR imaging guided percutaneous biopsy and tumor localization utilizing 5-inch surface coil. Presented at the 83rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/30-12/5/97.
- A285 Wittich G, Gohil M, vanSonnenberg E. Benchmarking clinical productivity of academic mammographers. Presented at the 83rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/30-12/5/97.
- A286 Esch E, Everling S, Farr R, Chaljub G, Kavanagh P, vanSonnenberg E. Impact of continuous voice recognition on finalization of diagnostic reports in a large academic department. Presented at the 83rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/30-12/5/97.
- A287 Wittich G, vanSonnenberg E, Johnson Jr R, Kavanagh P, Zwischenberger J, Morrison RJ. CT bronchoscopy for planning of bronchial stenting. Presented at the 83rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/30-12/5/97.
- A288 Wittich GR, vanSonnenberg E, Goodacre BW, Suominen D. Radiologic management of patients with ischemic cholangitis. Presented at the 27th Annual Meeting and Postgraduate Course of the Society of Gastrointestinal Radiology in Rancho Mirage, California, 2/22-27/98.

- A289 Esch O, Chaljub G, Goodacre BW, Farr R, Epley T, vanSonnenberg E. Implementation of a continuous speech recognition system for diagnostic reporting in radiology. Presented at the 46th Annual Meeting of the Association of University Radiologists, New Orleans, Louisiana, 3/25-29/98.
- A290 Kavanagh PV, Wittich GR, Goodacre BW, vanSonnenberg E. Percutaneous needle biopsy of mediastinal lesions: indications, technique and results. Presented at the Spring Meeting of the Royal College of Surgeons in Ireland, Dublin, Ireland, 4/3-4/98.
- A291 Wittich GR, Baxter RB, Goodacre BW, McNees SW, vanSonnenberg E. Intentional Pneumothorax to facilitate percutaneous access to selected mediastinal, pleural and pulmonary lesions. Presented at the American Roentgen Ray Society (98th Annual Meeting), San Francisco, California, 4/27-29/98.
- A292 Chaljub G, Ramaswamy MR, Esch O, Fanning DD, vanSonnenberg E. Impact of continuous speech recognition reporting in an academic MRI practice. Presented at the American Roentgen Ray Society (98th Annual Meeting), San Francisco, California, 4/27-29/98.
- A293 Fotoohi M, D'Agostino HB, Wollman B, Chon K, vanSonnenberg E. Management guidelines for treatment of persistent pancreato-cutaneous fistulas after percutaneous drainage of pancreatic fluid collections. Presented at the American Roentgen Ray Society (98th Annual Meeting), San Francisco, California, 4/27-29/98.
- A294 Orihuela E, vanSonnenberg E, Goodacre B, Neal Jr D, Warren MM. Cryotherapy for renal cell cancer in patients with solitary kidney. Presented at the 93rd Annual Meeting of the American Urological Association, San Diego, California, 5/30-6/4/98.
- A295 Orihuela E, vanSonnenberg E, Motamedi M, Bell B, Warren M. Thermodynamics of human renal cell cancer during cryotherapy. Presented at the 16th World Congress on Endourology and SWL 14th Basic Research Symposium, New York, NY, 9/3-6/98.
- A296 Payan C, Hootman K, vanSonnenberg E, Chaljub G. Utility and effectiveness of CT of the cervical spine in the emergency room. Presented at the 84th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/98.

- A297 Wittich G, vanSonnenberg E, Goodacre B, Chaljub G, John S, Cesani F. Clinical workforce analysis of an academic radiology department. Presented at the 84th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/98.
- A298 Chaljub G, Ramaswamy M, Esch O, Fanning D, vanSonnenberg E. Continuous speech recognition in MR imaging reporting: advantages, disadvantages, and impact. Presented at the 84th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/98.
- A299 Esch O, Goodacre BW, Ozkan OS, Wittich GR, vanSonnenberg E. Re-engineering radiology reporting: conversion to speech recognition in an academic Radiology Department over an 18-month period. Presented at the Association of University Radiologists, Oak Brook, Illinois, 3/10-14/99.
- A300 Orihuela O, vanSonnenberg E, Motamedi M, Gatalica Z, Warren M. Thermodynamics of RCC during cryotherapy: effect of warm renal arterial blood flow. Presented at the 94th Annual Meeting of the American Urological Association, Dallas, TX, 5/1-6/99.
- A301 Chaljub G, vanSonnenberg E, Johnson RF, Jr. Accidents and incidents in MRI: a questionnaire. Presented at the 99th Annual Meeting of the American Roentgen Ray Society, New Orleans, Louisiana, 5/9-14/99.
- A302 Singh HS, Wittich GR, Goodacre BW, vanSonnenberg E. CT or US-guided biopsy of hollow visceral lesions. Presented at the 99th Annual Meeting of the American Roentgen Ray Society, New Orleans, Louisiana, 5/9-14/99.
- A303 Esch O, vanSonnenberg E, Goodacre BW, Ozkan OS, Khademi B, Wittich GR. Voice recognition reporting in emergency room. Presented at the 85th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/28-12/3/99.
- A304 Esch O, vanSonnenberg E, Ozkan OS, Wittich GR, Pohl JM. Speech recognition in ultrasound: Advantages, disadvantages, and impact. Presented at the 85th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/28-12/3/99.
- A305 Gargan KJ, Williams MD, Rivera E, vanSonnenberg E, D'Agostino HB. Minor and major bile duct injuries from laparoscopic cholecystectomy: A multidisciplinary algorithm. Presented at the 85th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/28-12/3/99.

- A306 Wittich GR, vanSonnenberg E, Goodacre BW. Restructuring of the workforce of an academic radiology department in the managed care environment. Presented at the 85th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/28-12/3/99.
- A307 vanSonnenberg E, Ohihuela E, Goodacre BW, Bell B, Wittich GR. Ultrasound-guided renal cryotherapy. Presented at the 85th Scientific Assembly and Annual Meeting of the Radiological Society of North America Presented at the 1999 RSNA, Chicago, Illinois, 11/28-12/3/99.
- A308 Silverman SG, Tuncali K, Adams D, vanSonnenberg E, Zou K, Vadde K, Morrison PR, Jolesz F, MRI guided percutaneous cryotherapy of liver tumors. Presented at the Abdominal Radiology Postgraduate Course 2000, Kauai, Hawaii, 3/12-3/17/00.
- A309 Chen YH, Morrison PR, vanSonnenberg E, Granter S, Urman RD, Jinzaki M, Kacher D, Silverman SG, Tuncali K, Shankar S. Radiofrequency and cryotherapy-induced thermal extremes for tissue ablation – is there synergy?. Presented at the 86th Scientific Assembly and Annual Meeting of the Radiological Society of North America Presented at the 00 RSNA, Chicago, Illinois, 11/26-12/1/00.
- A310 Nikolaidis P, vanSonnenberg E, Chen YH, Haddad ZK, Tuncali K, Zou KH. Who performs nonvascular interventional radiology procedures in academic medical centers in the United States: An electronic survey. Presented at the 86th Scientific Assembly and Annual Meeting of the Radiological Society of North America Presented at the 00 RSNA, Chicago, Illinois, 11/26-12/1/00.
- A311 DePiro PJ, Tumeh SS, vanSonnenberg E, Ros PR. Volume and impact of second opinion radiologic consultation at a tertiary care, cancer teaching center. Presented at the 86th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/26-12/1/00.
- A312 Tuncali K, Nawfel R, Silverman SG, Nikolaidis P, Shankar S, Adam D, vanSonnenberg E, Judy P. Patient and personnel radiation exposures during CT fluoroscopy guided abdominal interventions. Presented at the 86th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/26-12/1/00.
- A313 D'Agostino HB, Shreveport LA, Casola G, Morag E, Shah S, Bahrami R, vanSonnenberg E. Palliative image-guided drainage of cystic/necrotic tumors for symptoms relief and sepsis control; Experience in 40 patients. Presented at the 86th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/26-12/1/00.

- A314 Wittich GR, Goodacre BW, vanSonnenberg E, Morris DR, Ozkan OS, Kennedy PT. Percutaneous Management of Patients with Bilomas and Associate Bile Duct Injuries. Presented at the 86th Scientific Assembly and Annual Meeting of Radiological Society of North America, Chicago, Illinois, 11/26-12/1/00.
- A315 Tuncali K, Silverman SG, vanSonnenberg E, Shankar S, Adams DF, Jolesz FA. Follow up of radiologic tumor ablations: CT vs. MRI. Presented at the 86th Scientific Assembly and Annual Meeting of Radiological Society of North America, Chicago, Illinois, 11/26-12/1/00.
- A316 Hadjipavlou A, Nader R, Crow W, vanSonnenberg E, Nauta H. Transarterial Tumor Ablation and cryoablation for controlling intraoperative bleeding from hyper vascular lesions of the spine. To be presented at the European Congress of Radiology (ECR) meeting 2003.
- A317 Lao R, Tuncali K, Mortelet K, Zou K, vanSonnenberg E., Silverman SG. Fine-needle aspiration of pancreatic masses: Endoscopic ultrasound vs. CT guidance. Radiological Society of North America, Chicago, IL, December 2, 2002.
- A318 Shankar S, Tuncali K, vanSonnenberg E, Morrison PR, Kacher D, Silverman SG. MRI guided percutaneous cryotherapy of soft tissue and bone metastases. Presented at the 87th Annual Meeting of the RSNA, Chicago IL, November 2001
- A319 Shankar S, vanSonnenberg E, Silverman SG, Tuncali K, Van Den Abbeele A, Whang EE. Impact of treatment of large and multiple hepatic lesions by percutaneous RF. Presented at the 87th Annual Meeting of the RSNA, Chicago IL, November 2001
- A320 Shankar S, vanSonnenberg E, Silverman SG, Tuncali K, Adams DF. Biochemical and hematologic sequelae of percutaneous cryotherapy and RF tumor ablation: results in 53 procedures. Presented at the 87th Annual Meeting of the RSNA, Chicago IL, November 2001
- A321 Shankar S, vanSonnenberg E, Silverman SG, Tuncali K, Van den Abbeele A, Santilli J, Whang E. Large and multiple hepatic lesions: strategies and rationale for radiologic tumor ablation. The Society of Gastrointestinal Radiologists and the Society of Uroradiology Abdominal Radiology Postgraduate Course 2001, Scottsdale AZ, March 2001
- A322 Shankar S, vanSonnenberg E, Tuncali K, Silverman SG. Biochemical and hematologic changes after percutaneous tumor ablation. The Society of Gastrointestinal Radiologists and the Society of Uroradiology Abdominal Radiology Postgraduate Course 2001, Scottsdale AZ, March 2001

- A323 Whang EE, Tuncali K, Ito H, Perez A, vanSonnenberg E, Shankar S, Morrison PR, Das M, Zinner MJ, Ashley SW, Silverman SG. Intraprocedural MR-guided ablation: a new approach to cancer eradication. Annual Meeting of the American Surgical Association, Homestead, VA, 2002.
- A324 Shankar S, Tuncali K, vanSonnenberg E, Winalski CS, Morrison PR, Whang EE, Silverman SG. Percutaneous MRI-guided cryotherapy of soft tissue and bone metastases for palliation. 4th Interventional MRI Symposium, Leipzig, Germany, September 2002
- A325 Tuncali K, Morris M, Warfield S, Morrison P, Dahm F, Shankar S, vanSonnenberg E, Silverman SG. Three dimensional assessment of percutaneous MRI-guided cryotherapy of liver tumors. 4th Interventional MRI Symposium, Leipzig, Germany, September 2002
- A326 vanSonnenberg E, Shankar S, Tuncali K, Silverman SG, Morrison PR, Jaklitsch M. Initial clinical experience with RF ablation of lung tumors. Radiology 2002; 225(p): 291-292
- A327 Shankar S, Stay RM, vanSonnenberg E, DiPiro PJ, Janicek MJ, Demetri GD. CT features of gastrointestinal stromal tumors following treatment with STI-571. Radiology 2002; 225(p): 583
- A328 Shankar S, vanSonnenberg E, Silverman SG, Tuncali K, Morrison, PR. Combined radiofrequency (RF) and direct alcohol infusion for percutaneous tumor ablation. Radiology 2002; 225(p): 447
- A329 Shankar S, Desai J, Potter A, vanSonnenberg E, Van Den Abeelle A, Demetri G. CT patterns of GIST progression following initial response to imatinib. Radiology 2002; 226(p): 38A
- A330 Tuncali K, Shankar S, vanSonnenberg E, Morrison PR, Kacher D, Silverman SG. Percutaneous ablation of small renal tumors: should a positive biopsy be required before ablation? Radiology 2002; 225(p): 387
- A331 Morrison PR, vanSonnenberg E, Silverman SG, Shankar S, Tuncali K, Jolesz FA. MRI and CT of RF lesions in normal porcine lung. Radiology 2002; 225(p): 293, Miami, FL.
- A332 Morteale K, Wiesner W, Intriore L, Shankar S, Zou K, Calantari B, Perez A, vanSonnenberg E, Ros PR, Banks PA, Silverman SG. A modified CT severity index for evaluating acute pancreatitis: Assessment of interobserver agreement and correlation with patient outcome. Society of Gastrointestinal Radiology, Cancun, Mexico 2003.

- A333 vanSonnenberg E, Shankar S, Morrison P, Nair R, Silverman SG, Jaklitsch M, Liu F, Cheung L, Tuncali K, Skarin A, Sugarbaker D. Radiofrequency Ablation of Thoracic Lesions: Part II Initial Clinical Experience – – Technical and Multidisciplinary Considerations in 30 Patients. American Roentgen Ray Society, 5/03, San Diego, CA.
- A334 vanSonnenberg E, Shankar S, Tuncali K, Silverman S, Morrison P, Kacher D. Percutaneous tumor ablation-beyond the liver. American Roentgen Ray Society, 5/03, San Diego, CA.
- A335 Demetri G, Zinner M, Morrison P, Tuncali K, Silverman S, Shankar S, vanSonnenberg E. Percutaneous RF and cryoablation of sarcomas. American Roentgen Ray Society, 5/03, San Diego, CA.
- A336 DiPiro P, vanSonnenberg E, Shankar S, Israel D, Shaffer K. CT Readings at a general hospital vs. an oncology center – Not the Same!. American Roentgen Ray Society, 5/03, San Diego, CA.
- A337 Shankar S, Tuncali K, vanSonnenberg E, Morrison PR, Kacher D, Silverman SG. MRI guided percutaneous cryotherapy of soft tissue and bone metastases. Radiological Society of North America, Chicago, IL, 11/01
- A338 Green DS, Silverman SG, Morteale KJ, Tuncali K, vanSonnenberg E, Khorasani R. CT-guided adrenal mass biopsy in the era of advanced CT, MRI, and PET: what has changed? Radiological Society of North America, Chicago, IL, 11/03-12/03.
- A339 Israel DA, Van Den Abbeele AD, Shankar S, vanSonnenberg E. Evaluation of response using FDG-PET versus MRI in radiofrequency ablation of hepatic tumors. Radiological Society of North America, Chicago, IL 11/03-12/03.
- A340 Oei T, vanSonnenberg E, Shankar S, Morrison PR, Tuncali K, Silverman SG. Radiofrequency ablation of liver tumors: a new cause of benign portal venous gas. Society of Gastrointestinal Radiologists, Scottsdale, Arizona, 3/04.
- A341 Dileo P, Randhawa R, vanSonnenberg E, Shankar S, Desai J, Morgan JA, Tuncali K, Van den Abbeele A, Silverman SG, Demetri GD. Safety and efficacy of percutaneous radiofrequency ablation in patients with metastatic gastrointestinal stromal tumor with clonal evolution of lesions refractory to imatinib. Annual Meeting of the American Society of Clinical Oncology, New Orleans, LA, 2004.
- A342 Daly J, vanSonnenberg E, Shankar S, Nair R, Morrison P, Silverman S, Tuncali K, van den Abbeele A. The efficacy of FDG PET to assess the amount of tumor destruction after radiofrequency ablation for lung tumors. American Roentgen Ray Society, 5/06, Vancouver.

- A343 Hedayati P, vanSonnenberg E. Symptomatic focal nodular hyperplasia in the liver: percutaneous radiofrequency ablation therapy. 10th Annual Academic Excellence Day, Scottsdale, AZ, 5/06.
- A344 Dehkarghani S, vanSonnenberg E. CT-guided therapy of refractory pudendal neuralgia: initial clinical experience. 10th Annual Academic Excellence Day, Scottsdale, AZ, 5/06.
- A345 Oyola E, vanSonnenberg E, Moore M, Dehkarghani S, Hedayati P, Hibner M. CT-guided Diagnosis of Refractory Pudendal Neuralgia: Indications, Techniques, and Preliminary Results. Association of University Radiologists 2007 Annual Meeting, Denver, CO, 4/07.
- A346 Gosalia R, Ornstein S, vanSonnenberg E, Zamora J, Mamlouk M, Machayya J. CT Angiography for Pulmonary Embolism: Review of 2135 Patients Regarding Indications and Outcomes. 11th Annual Academic Excellence Day, Phoenix, AZ, 5/07.
- A347 Linstrom N, vanSonnenberg E, McMullen W, Stringfellow G, Saghari H, Hedayati P, Moore M, Crum C, Gosalia R, Pop M, Oyola E, Roberts M, Mathern P, Shamos R. Radiofrequency Ablation at an Independent Academic Center: The first Year. 11th Annual Academic Excellence Day, Phoenix, AZ, 5/07.
- A348 Oyola E, vanSonnenberg E, Moore M, Dehkarghani S, Hedayati P, Hibner M. CT-guided Diagnosis and Therapy of Pudendal Neuralgia. 11th Annual Academic Excellence Day, Phoenix, AZ, 5/07.
- A349 Oyola E, vanSonnenberg E, Moore M, Dehkarghani S, Hedayati P, Hibner M. CT-guided Therapy of Refractory Pudendal Neuralgia: Indications, Techniques, and Preliminary Results. American Roentgen Ray Society, Grand Lakes Orlando, FL, 5/07.
- A350 Tuncali K, Topulos G, vanSonnenberg E, et al. Percutaneous Ablation of Adrenal Tumors. 92nd RSNA, Chicago, Ill, 12/1/06.
- A351 Dehkarghani S, vanSonnenberg E, Moore M, et al. Outcomes of CT-Guided Nerve Block Therapy for Pudendal Neuralgia, American Roentgen Ray Society, Orlando, FL 5/7/07.
- A352 Moore M, Dehkarghani S, vanSonnenberg E, et al; Anatomy & Technique of CT-Guided Nerve Block for Pudendal Neuralgia; Association of University Radiologists, Denver, Col. 6/07.
- A353 Mamlouk M, vanSonnenberg E, Gosalia R, et al; CT angiography for pulmonary embolism—Review of 2003 patients; 93rd RSNA, Chicago, Ill, 11/07.

- A354 Mamlouk MD, vanSonnenberg E, Gosalia R, et al. CT angiography for pulmonary embolism in 2003 patients: Implications for appropriateness, cost, and radiation exposure. Academic Excellence Day: May 8, 2009; Phoenix, AZ.
- A355 Mamlouk MD, vanSonnenberg E, Gosalia R, et al. CT angiography for pulmonary embolism in 2003 patients: Implications for appropriateness, cost, and radiation exposure. American College of Physicians (ACP) Arizona Chapter: October 4, 2008; Tempe, AZ.
- A356 Mamlouk MD, vanSonnenberg E, Gosalia R, et al. CT Angiography for Pulmonary Embolism in 2003 Patients: Implications for Appropriateness, Cost, and Radiation Exposure. American College of Physicians (ACP) Arizona Chapter: October 4, 2008; Tempe, AZ.
- A357 Mamlouk MD, vanSonnenberg E, Morrison PR, et al. Indications and uses of alcohol in the RF/Cryo ablation era. Radiological Society of North America (RSNA): November 29, 2009; Chicago, IL.
- A358 Mamlouk MD, vanSonnenberg E, Gosalia R, et al. CT angiography for pulmonary embolism in 2003 patients: Implications for appropriateness, cost, and radiation exposure. Radiological Society of North America (RSNA): November 30, 2009; Chicago, IL.
- A359 Mamlouk MD, Heidari A, vanSonnenberg E, Yazdanshenas, M, Naderi J, Osei K, Johnson RH. Varied, vast, and diverse spectrum of radiologic imaging of Coccidioidomycosis from a database of over 1300 patients (CME Participation). Radiological Society of North America (RSNA): December 1, 2010; Chicago, IL.
- A360 Mamlouk MD, vanSonnenberg E, Schraml F, Theodore N. RF ablation of the anterior spinal vertebral body osteoid osteoma: A safe and effective approach. American Roentgen Ray Society (ARRS): May 1, 2011, Chicago, IL.
- A361 Mamlouk MD, vanSonnenberg E, Dehkharghani S. "CT-Guided nerve block for pudendal neuralgia: diagnostic and therapeutic implications." Radiological Society of North America (RSNA): November 27, 2011; Chicago, IL.
- A362 Pakula A, Kozyr S, vanSonnenberg E, Skinner R. Pulmonary contusion of CT: Preliminary analysis of a novel technique for acute pulmonary injury scoring & risk stratification. Kern/UCLA Research Forum; May, 2012.
- A363 Mamlouk MD, vanSonnenberg E. Step up to bat and practice dictating complex cases: A resident's guide to effective reporting. RSNA: November 25, 2012; Chicago, IL.

- A364 Pakula A, Kozyr S, vanSonnenberg E, Skinner R. The pulmonary injury score: Novel scoring system for evaluation and risk stratification in acute pulmonary injury. Society of Critical Care Medicine, Santa Barbara California; 5/13.
- A365 Pakula A, Kozyr S, vanSonnenberg E, Skinner R. The pulmonary injury score: Novel scoring system for evaluation and risk stratification in acute pulmonary injury. Society of Critical Care Medicine Congress, San Juan, Puerto Rico, 2/13
- A366 Pakula A, Kozyr S, vanSonnenberg E, Skinner R. The pulmonary injury score: Novel scoring system for evaluation and risk stratification in acute pulmonary injury. Kern-UCLA Resident Research Forum. Bakersfield, CA 5/13
- A367 Anand T, vanSonnenberg E, Skinner R, Gadani K. CT beyond trauma diagnosis: Resuscitation requirements based on IVC diameter and intestinal perfusion KMC/UCLA Research Forum, Bakersfield, California, April, 2014.
- A368 Anand T, vanSonnenberg E, Skinner R, Gadani K. CT beyond trauma diagnosis: Resuscitation requirements based on IVC diameter and intestinal perfusion. Society of Critical Care Congress. San Francisco, CA 1/14
- A369 Anand T, vanSonnenberg E, Gadani K, Skinner R. A snapshot of circulation in the era of non-invasive monitoring: the expansion of CT beyond injury diagnosis. American College of Surgery meeting; Southern California; 10/14
- A370 Desai J, Shankar S, Heinrich M, Fletcher J, Fletcher C, Tuncali K, Silverman SG, van den Abbeele A, vanSonnenberg E, Demetri GD. Clonal Evolution of Resistance to Imatinib in Patients with Gastrointestinal Stromal Tumor: Molecular and Radiologic Evaluation of New Lesions. American Society of Clinical Oncology. July 2004. 22:3010
- A371 Randhawa R, Dileo P, vanSonnenberg E, Shankar S, Morrison P, Nair R, Silverman SG, Tuncali K, Morgan J, van Den Abbeele A. Safety and Efficacy of Percutaneous Radiofrequency Ablation in Patients with Metastatic Gastrointestinal Stromal Tumor with Oligoclonal Elevation of Lesions Refractory to Imatinib Mesylate. RSNA 2004. Chicago, Illinois
- A372 Shankar S, Ramaya N, DiPiro P, Ferris S, Van den Abbeele A, vanSonnenberg E. GIST: Usual and Unusual Imaging Findings before and after Gleevec TM Therapy. RSNA 2005, Chicago Illinois
- A373 vanSonnenberg E, Shankar S, Morrison P, Nair R, Silverman SG, Tncali K. Radiofrequency Ablation of Thoracic Lesions: Technical and Multidisciplinary Considerations in 30 Patients. RSNA 2004, Chicago, Illinois

- A374 Morrison PR, vanSonnenberg E, Shankar S, Tuncali K, Silverman SG, Jolesz FA. MRI and CT of RF Lesions in Normal Porcine Lung. Society of Thoracic Radiology, Miami Beach Florida, March 2003.
- A375 vanSonnenberg E, Shankar S, Silverman SG, Tuncali K, Morrison PR, Zinner M, Demetri GD. Percutaneous RF and Cryoablation of Sarcomas. 103rd annual meeting of the American Roentgen Ray Society, May 4-9, 2003, San Diego California
- A376 Shankar S, Desai J, Potter A, George S, Sherwood GK, Israel D, DiPiro P, Van den Abbeele A, vanSonnenberg E, Demetri GD. Novel Patterns of Progression Following Initial Response to Imatinib in Patients with Malignant Gastrointestinal Stromal Tumors. American Society of Clinical Oncology. May, 2003, Chicago Illinois
- A377 Tuncali K, Carrino JA, Morrison PR, Silverman SG, vanSonnenberg E. Timmerman MRI-guided Percutaneous Cryotherapy of Bone and Soft Tissue Metastases Adjacent to Critical Structures: Initial Experience in 22 Patients. Nov 2005
- A378 Tuncali K, Topulos G, vanSonnenberg E, Morrison PR, Tatli S, Silverman SG. "Percutaneous Ablation of Adrenal Tumors: Initial Experience, Incidence of Intraprocedural Hypertension and Management". Radiological Society of North America 2006 Scientific Assembly and Annual Meeting. Chicago, IL. November, 2006.
- A379 Mamlouk M, vanSonnenberg E, Morrison PR, Silverman SG, Shankar S, Tuncali K, McMullen W. Indications and Uses of Alcohol in the RF/cryo Ablation Era. RSNA 2009, Chicago Illinois
- A380 Graber T, Hamburg R, vanSonnenberg E. "Imaging for chest pain assessment—an anatomic algorithmic approach. National Student Research Forum; Galveston, Texas; 4/25/15
- A381 McQuilkin M, Stapczynski JS MD, Kang P, Wagner K, vanSonnenberg E, McEchron M Examining the relationship between primary care scholarly project mentorship and medical students matching into primary care residency; STFM Annual Meeting; Phoenix, Az, January, 2016
- A382 Intwala D, vanSonnenberg E, Hibner M, Kang P, Castellanos M. Pudendal Neuralgia: Experience in 100 Cases. American Roentgen Ray, New Orleans, La, 5/17

- A383 Shah-Patel L, vanSonnenberg E, Baker Z, Kang P. The Changing Face of Values to Medical Students. Association of American Medical Colleges annual meeting, Learn Serve Lead. Phoenix, Arizona; 11/8-12/19
- A384 Coudret D, Baker Z, vanSonnenberg E. Assessing and Using a Learner Profile to Enhance Medical Student Success. Association of American Medical Colleges annual meeting, Learn Serve Lead. Phoenix, Arizona; 11/8-12/19
- A385 Nguyen D, Ngo B, vanSonnenberg E. A Faculty-inspired, Medical Student-driven Effective Mentored Research Program. Association of American Medical Colleges annual meeting, Learn, Serve, Lead. 2020.
- A386 Nikkahamanesh N, Kang P, vanSonnenberg E. What Do Medical Students Know About Medical Malpractice? Let's Find Out! AMA Annual Meeting; September 2021
- A387 Grewal S, Kaur M, Sprout G, vanSonnenberg E. Introducing Medical and Pre-Medical Students to Radiology: A National and International Student Run Symposium During the COVID-19 Pandemic; Annual Meeting of the American Roentgen Ray Society; New Orleans LA; May 2022
- A388 Grewal S, Towbin A, vanSonnenberg E, Towbin R. Society of Interventional Pediatric Radiology Mentorship Program for Junior Learners. Society of Pediatric Radiology. May 2022; Denver, Colorado
- A389 vanSonnenberg E, Towbin R. Research by Medical Students Is Now Essential for Residencies. Society of Pediatric Radiology. May 2022; Denver, Colorado
- A390 Shah-Patel LR, Kirk A, vanSonnenberg E, Guttman DA, Kaib S, Batchelor, E. Virtual Match Prep Programming for MS4s. AAMC GSA-CiM-OSR. Denver, CO. April 2022.
- A391 Sprout G, Grewal S, Groth N, Wenger D, Williams A, Singh S, Howshar J, Irwin C, vanSonnenberg E. Increasing Exposure and Challenging Misperceptions: The Impact of a Student-Focused Radiology Symposium on Medical Students. Society of Interventional Radiology. Phoenix AZ. 2023
- A392 Sprout G, Grewal S, vanSonnenberg E. "Learning Radiology Like a Radiologist: A Framework for Medical Student Extracurricular Radiology Instruction". Association of University Radiologists Annual Meeting. Austin, Texas. April 2023

- A393 Sprout G, Grewal S, Groth N, Wenger D, Williams A, Singh S, Howshar J, Irwin C, vanSonnenberg E. "Increasing Exposure and Challenging Misperceptions: The Impact of a Student-Focused Radiology Symposium on Medical Students; Mechanics of Production", Association of University Radiologists Annual Meeting. Austin, Texas. April 2023
- A394 N Groth, CY Lin, E vanSonnenberg, G Fogerty, J Winkleman. Engineers in medicine part 1: A pilot comparative profile of engineering students vs non-engineering students in admission to medical school. Computer Assisted Radiology & Surgery Annual meeting. Munich, Germany; June, 2023
- A395 J Winkelman, E vanSonnenberg, G Fogerty, J Foote, N Groth. Engineers in medicine part 2: What is medical school like for engineering majors? Computer Assisted Radiology & Surgery Annual meeting. Munich, Germany; June, 2023
- A396 M Rosztoczy, E vanSonnenberg, D Crawford, P Kang, P Yue-Cheng, M Mamlouk, G Fogerty, J Winkleman, N Groth. Engineers in medicine part 3: What are their engineering majors and what specialties do they pursue? Computer Assisted Radiology & Surgery Annual meeting. Munich, Germany; June, 2023
- A397 Sprout G, Grewal S, Groth N, Neitzel E, Wenger D, Williams A, Mackner J, Singh S, Howshar J, Irwin C, vanSonnenberg E. Increasing Exposure & Challenging Misperceptions: The impact of a Student-focused Symposium on Medical Students. Annual Meeting of the Society of Interventional Radiology; Phoenix,AZ. March 2023
- A398 Batchelor E, Shah-Patel L, Kirk A, vanSonnenberg E, Guttman D, Kaib S. Centralized Data Keeping for Career and Professional Advising. AAMC, Western Regional Conference. Denver, CO. April 2023
- A399 Neitzel E, vanSonnenberg E, Markovic D, Parrish D, Tarrant J, Casola G, Mamlouk M, Simeone JF. The New Normal or a Return to Normal? Remote Reading During the COVID-19 Pandemic. Annual Meeting of the American Roentgen Society. Honolulu, Hawai'i, April 2023
- A400 Neitzel E, vanSonnenberg E, Lynch K, Shah-Patel L, Mamlouk M, Irwin C. Pursuing a Career in Radiology: A Current & Longitudinal Survey on Motivations & Controversial Issues. Annual Meeting of the American Roentgen Society. Honolulu, Hawai'i, April 2023

- A401 Sprout G, Groth N, Neitzel E, Wenger D, Williams A, Mackner J, Singh S, Howshar J, Irwin C, vanSonnenberg E. Increasing Exposure and Challenging Misperceptions: The Impact of a Student-Focused Radiology Symposium on Medical Students. Annual Meeting of the American Roentgen Society. Honolulu, Hawai'i; April, 2023
- A402 Sprout G, Grewal S, Wenger D, Neitzel E, Trang G, vanSonnenberg E. "Learning Radiology Like a Radiologist: A Tool to Instruct Medical Students to Think & Interpret Like Radiologists". Association of University Radiologists Annual Meeting. Austin, Texas. April, 2023.
- A403 Sprout G, Grewal S, Groth N, Neitzel E, Mackner J, Wenger D, Williams A, Irwin C, vanSonnenberg E. "Increasing Exposure and Challenging Misperceptions: The Impact of a Student-Focused Radiology Symposium on Medical Students". Society of Interventional Radiology Annual Meeting. Phoenix, Arizona. March, 2023.
- A404 Shah-Patel LR, vanSonnenberg E, Guttman DA, Kaib S. Virtual Residency Mock Interviews: How to Plan, Organize, and Implement an Informative Session. Learn Serve Lead 2021: The AAMC Annual Meeting Call for Medical Education Session, Innovation, Research, and RIME Proposals. November 2021.
- A405 Dhupati P, Vansdadia S, Koujah D, Adamji T, Trang G, vanSonnenberg E, Goettl CS. Utilizing the Mentice Simulator to Explore Gender Differences in Predicted Performance and Confidence Pursuing Neuroendovascular Specialties. Research Office for Medical Education Forum, Phoenix, Arizona. 2023
- A406 Koujah D, Dhupati P, Vansdadia S, Adamji T, Trang G, vanSonnenberg E, Goettl CS. A randomized controlled trial exploring the role of the VIST endovascular simulator in teaching 3D neurovascular anatomy. Research Office for Medical Education Forum, Phoenix, Arizona. 2023
- A407 Trang G, Ruddy L, vanSonnenberg E. Participation in Medical Student-Led Virtual Radiology Case of the Month Exercise Leads to Increased Confidence and Enjoyment in Image Interpretation: A Pilot Study. Research Office for Medical Education Forum, Phoenix, Arizona. 2023
- A408 Trang G, Ruddy L, vanSonnenberg E. "The Impact of Medical Student-Led Radiology Case of the Month". Association of University Radiologists Annual Meeting. Boston, MA. 2024
- A409 Neitzel E & vanSonnenberg E. "SAR Members' Involvement & Influence on Medical Students". Society of Abdominal Radiology Annual Meeting. Hollywood, FL. April 2024

A410 Towbin R, Neitzel E, vanSonnenberg E, Sze D. "Transitioning from the Clinical Practice of Interventional Radiology; Survey of the Society of Interventional Radiology Members". Society of Interventional Radiology annual meeting; 3/30/25

EXHIBITS/POSTERS

- E1 vanSonnenberg E, Ferrucci JT Jr., Mueller P: Percutaneous abscess drainage — principles, techniques and problems (Radiologic Society of North America 11/80, Dallas, Texas).
- E2 vanSonnenberg E, et al.: Geometric and trigonometric approach to avoid the pleura and peritoneum for biopsies and aspirations of the upper retroperitoneum, posterior liver, and adrenals — “The Angled Approach” — (Radiologic Society of North America 11/80, Dallas, Texas).
- E3 Simeone J, Mueller P, vanSonnenberg E, Isler R, Ferrucci JT Jr., Taveras J: Small parts ultrasonic imaging of the thyroid and parathyroid glands (Radiologic Society of North America 11/80, Dallas, Texas). Awarded Certificate of Merit.
- E4 vanSonnenberg E, Ferrucci JT Jr., Mueller P: Percutaneous abscess drainage — Principles, techniques, and problems (American Roentgen Ray Society 3/81, San Francisco, California).
- E5 vanSonnenberg E, et al.: Geometric and trigonometric approach to avoid the pleura and peritoneum for biopsies and aspirations of the upper retroperitoneum, posterior liver, and adrenals — “The Angled Approach” — (American Roentgen Ray Society 3/81, San Francisco, California).
- E6 vanSonnenberg E, Casola G, Scheible FW, Mattrey RF, Schiffman HO.: Contributions of radiologic diagnosis and interventional management in oriental cholangiohepatitis (Society of Gastrointestinal Radiologists 10/13-23/83, Southampton, Bermuda).
- E7 vanSonnenberg E, Casola G, Scheible FW, Mattrey RF, Schiffman HO.: Contributions of radiologic diagnosis and interventional management in oriental cholangiohepatitis (Radiological Society of North America 11/83, Chicago, IL).
- E8 vanSonnenberg E, Schiffman HO, Mueller PR, Simeone JF, Ferrucci JT Jr.: Indications and results of percutaneous drainage of hepatic amebic abscesses (Radiological Society of North America 11/83, Chicago, IL).
- E9 vanSonnenberg E, Ferrucci JT Jr, Mueller PR, Simeone JF, Wittenberg J: Percutaneous abscess drainage (8th World Congress of the Collegium Internationale Chirurgiae Digestivae, 9/84, Amsterdam, The Netherlands) — Runner-up Award for Exhibits.
- E10 vanSonnenberg E, Wittich GR: Percutaneous management of biliary stones (8th World Congress of the Kollegium Internationale Chirurgiae Digestivae, 9/84, Amsterdam, The Netherlands).
- E11 vanSonnenberg E, Wittich GR: Percutaneous management of biliary stones (Surgical Society of Baja California, 9/85, Tijuana, B.C.).

- E12 vanSonnenberg E, Wittich GR, Cabrera OA, Quinn SF, Willson SA, Casola G: Percutaneous Gastrostomy and Percutaneous Gastroenterostomy (Radiological Society of North America, 10/85, Chicago, Illinois). Awarded Certificate of Merit.
- E13 vanSonnenberg E, Casola G, Neff CC, Hoyt DB, Halasz NA: Percutaneous drainage of enteric abscesses: appendiceal, diverticular, Crohn's (American Roentgen Ray Society, 4/86, Miami Beach, Florida).
- E14 vanSonnenberg E, Casola G, Wittich GR, Hofmann AF, Keightley AM, Christensen R, Zakko S, Withers C: Diagnostic and Therapeutic Percutaneous Gallbladder Procedures (Radiological Society of North America, 12/86, Chicago, Illinois). Awarded Certificate of Merit.
- E15 vanSonnenberg E, Casola G, Neff CC, Wittich GR, Hoyt DB, Polansky AM, Halasz NA: Periappendiceal, Peridiverticular, and Crohn's Abscesses: Imaging and Percutaneous Drainage (Radiological Society of North America, 12/86, Chicago, Illinois).
- E16 Wittich GR, vanSonnenberg E, Karnel F, Kumpman W, Hajek P, Mostbeck G, Neuhold A: Percutaneous Drainage of Pancreatic and Lesser Sac Fluid Collections: Variants of Safe Access (Radiological Society of North America, 12/86, Chicago, Illinois). Awarded Certificate of Merit.
- E17 vanSonnenberg E, Casola G, Neff CC, Hoyt DB, Halasz NA: Percutaneous Drainage of Enteric Abscesses: Appendiceal, Diverticular, Crohn's (American Roentgen Ray Society 1987 Annual Meeting, 4/86, Miami Beach, Florida).
- E18 vanSonnenberg E, Casola G, Wittich GR, Hofmann AF, Keightley AM, Withers C, Lee AS, Christensen R: Diagnostic and Therapeutic Percutaneous Gallbladder Procedures (American Roentgen Ray Society 1987 Annual Meeting, 4/86, Miami Beach, Florida). Awarded Certificate of Merit.
- E19 Wittich GR, vanSonnenberg E, Karnel F, Kumpman W, Schurawitzki H, Herold C, Jantsch J. Percutaneous drainage of peripancreatic fluid collections presented at the German Radiological Congress, Hamburg, German, 4/87.
- E20 vanSonnenberg E, Casola G, Wittich GR, Brannigan T, Varney RR, Christensen R. Percutaneous management of infected and noninfected pancreatic pseudocysts. (Radiological Society of North America, 12/87, Chicago, Illinois). Awarded Certificate of Merit.
- E21 vanSonnenberg E, Casola G, Stavas J, Neff CC, Wittich GR, Varney RR, Christensen R, Friedman P. Radiologic guidance of drainage of infected and noninfected thoracic fluid collections. (Radiological Society of North America, 12/87, Chicago, Illinois). Awarded Honorable Mention.
- E22 vanSonnenberg E, Casola G, Stavas J, Neff CC, Wittich GR, Varney Rr, Christensen R, Friedman P. Radiologic guidance of drainage of infected and noninfected thoracic fluid collections. (Society of Thoracic Radiology, 3/87).

- E23 vanSonnenberg E, Casola G, Wittich GR, Christensen R, Neff CC, Varney RR, Moossa AR, Withers C. Role of interventional radiology for complications of cholecystectomy. Presented at the 73rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 29-December 4, 1987. Awarded Certificate of Merit.
- E24 vanSonnenberg E, Casola G, Neff CC, Varney RR, Wittich GR, Dillard J, Friedman P. Radiologic drainage of infected and noninfected thoracic fluid collections. Presented at the American Roentgen Ray Society 1988 Annual Meeting, San Francisco, California, May 8-13, 1988.
- E25 vanSonnenberg E, Casola G, Wittich GR, Brannigan T, Varney RR, Christensen R, Dillard J. Percutaneous management of infected and noninfected pancreatic pseudocysts. Presented at the American Roentgen Ray Society 1988 Annual Meeting, San Francisco, California, May 8-13, 1988.
- E26 vanSonnenberg E, Casola G, Christensen R, Wittich GR, Neff CC, Withers C, Moossa AR. The role of interventional radiology for complications of cholecystectomy. Presented at the American Roentgen Ray Society 1988 Annual Meeting, San Francisco, California, May 8-13, 1988.
- E27 Robbins KT, vanSonnenberg E, Casola G, Varney RR. Image guided needle biopsy of inaccessible head and neck lesions. Presented at the Second International Conference on Head and Neck Cancer, Boston, Massachusetts, August 2-4, 1988.
- E28 Wittich GR, Kusnick CA, Steiner E, Jantsch H, Walter R, vanSonnenberg E. Radiologic anatomy of the intrahepatic bile ducts: Relevance to biliary interventions. Presented at the Eighteenth Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 27-December 2, 1988.
- E29 vanSonnenberg E, Varney RR, Cox J, Zakko S, Jinich H, Hoyt DB, Zornow M, Hofmann AE. Gallstone dissolution: Workup, procedural considerations, and follow-up. Presented at the Eighteenth Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 27-December 2, 1988.
- E30 Wittich GR, Kusnick CA, Steiner E, Jantsch H, Walter R, vanSonnenberg E. Radiologic anatomy of the intrahepatic bile ducts: Relevance to biliary interventions. Presented at the American Roentgen Ray Society 1988 Annual Meeting, New Orleans, Louisiana, May 7-12, 1989.
- E31 Varney RR, Moreland S, vanSonnenberg E, Casola G, Howell S, Cleary S. Assessment of Intraperitoneal (IP) Chemotherapy Distribution by CT Peritoneography. Presented at the American Roentgen Ray Society 89th Annual Meeting, New Orleans, Louisiana, May 7-12, 1989.
- E32 Ainge GR, vanSonnenberg E, Casola G, Varney RR, D'Agostino H. Interventional Ultrasound. Presented at the American Roentgen Ray Society 89th Annual Meeting, New Orleans, Louisiana, May 7-12, 1989.

- E33 vanSonnenberg E, Varney RR, Cox J, Zakko S, Jinich H, Hoyt DB, Zornow M, Hofmann AE. Gallstone dissolution: Workup, procedural considerations, and follow-up. Presented at the American Roentgen Ray Society 89th Annual Meeting, New Orleans, Louisiana, May 7-12, 1989.
- E34 vanSonnenberg E, Casola G, Varney R, Hofmann A, Cox J, D'Agostino H, Ainge G, Jinich H, Hoyt D, Zakko S: Percutaneous dissolution and management of gallstones. Presented at the American Roentgen Ray Society 89th Annual Meeting, New Orleans, Louisiana, May 7-12, 1989.
- E35 Casola G, vanSonnenberg E, D'Agostino H, Harker C, Varney R, Smith D: Percutaneous drainage of tuboovarian abscesses. Presented at the University of California, San Diego, Department of Radiology Research Conference, April 14, 1990.
- E36 Taggart S, vanSonnenberg E, D'Agostino H, Casola G, May S. Observation and mechanisms of occlusion of percutaneous catheters. Presented at the University of California, San Diego, Department of Radiology Research Conference, April 14, 1990.
- E37 Lee SH, vanSonnenberg E, D'Agostino H, Casola G, Tanenbaum L, Taggart S: Laboratory analysis of catheters for percutaneous abscess drainage. Presented at the 38th Annual Meeting of the Association of University Radiologists, Minneapolis, Minnesota, April 24, 1990.
- E38 D'Agostino H, vanSonnenberg E, Laverdiere T, Casola G, Varney R, Ainge G, May S, Taggart S, Gardner D. Prophylactic antibiotics for elective percutaneous cholecystostomy: when are they necessary. Presented at the American Roentgen Ray Society 1990 Annual Meeting, Washington D.C., May 13-18, 1990.
- E39 vanSonnenberg E, D'Agostino H, Jinich H, Hoyt D, Pandol S, Davis J, Casola G, Moossa AR, Hofmann AF. Treatment of pancreatic pseudocysts by percutaneous drainage and a somatostatin analog: preliminary report. Presented at the 12th Annual meeting of the International Hepato-Biliary Pancreatic Association, August 22-24, 1990, Hong Kong.
- E40 vanSonnenberg E, Casola G, Wittich GR, D'Agostino H, Neff CC, Moossa AR. The role of interventional radiology for major complications of cholecystectomy. Presented at the 12th Annual Meeting of the International Hepato-Biliary Pancreatic Association, August 22-24, 1990, Hong Kong.
- E41 D'Agostino H, Park Y, Moyers JP, vanSonnenberg E, Sanchez R, Goodacre B, Casola G. Influence of the stopcock connection in the performance of percutaneous drainage catheters. Presented at the Department of Radiology Research Conference, San Diego, California, November 17, 1990.

- E42 D'Agostino H, Park Y, Moyers JP, vanSonnenberg E, Sanchez R, Goodacre B, Casola G. Influence of the stopcock connection in the performance of percutaneous drainage catheters. Presented at the 76th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 25-30, 1990.
- E43 Casola G, vanSonnenberg E, D'Agostino H, Kothari R, May S, Taggart S. Percutaneous drainage of 100 subphrenic abscesses. Presented at the 76th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 25-30, 1990.
- E44 Casola G, vanSonnenberg E, D'Agostino H, Taggart S, May S. Transvaginal drainage of pelvic fluid collection with endovaginal US guidance. Presented at the 76th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 25-30, 1990.
- E45 vanSonnenberg E, D'Agostino H, Casola G, Esch O, Taggart S, May S, Goodacre B, Sanchez R. Percutaneous US of abdominal viscera: Laboratory and clinical experience. Presented at the 76th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 25-30, 1990.
- E46 Goodacre B, vanSonnenberg E, D'Agostino H, Casola G, Sanchez R. Complications of percutaneous cholecystostomy. Presented at the 76th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 25-30, 1990.
- E47 vanSonnenberg E, D'Agostino H, Esch O, Casola G, Sanchez R, Goodacre B. Percutaneous ultrasound (PUS) of abdominal viscera: Laboratory and clinical experience. Presented at the 29th Annual Meeting and Post-Graduate Course of the Society of Gastrointestinal Radiologists, La Costa, Carlsbad, California, February 17-21, 1991.
- E48 Zeppa M, vanSonnenberg E, Esch O, D'Agostino H, Hormann AF, Casola G, Goodacre B, Sanchez R. Nonsurgical Treatment for gallstones — UCSD experience. Presented at the 29th Annual Meeting and Post-Graduate Course of the Society of Gastrointestinal Radiologists, La Costa, Carlsbad, California, February 17-21, 1991.
- E49 Sanchez RB, vanSonnenberg E, D'Agostino H, Casola G, Moyers JP, Goodacre B. CT-assisted gastrostomy and gastroenterostomy placement. Presented at the 39th Annual Meeting of the Association of University Radiologists, Orlando, Florida, 1991.
- E50 Sanchez RB, vanSonnenberg E, D'Agostino H, Casola G, Moyers JP, Goodacre B. CT-assisted gastrostomy and gastroenterostomy placement. Presented at American Roentgen Ray Society 1991 Annual Meeting, Boston, Massachusetts, May 5-10, 1991.

- E51 vanSonnenberg E, D'Agostino H, Casola G, May S, Taggart S, Sanchez R, Goodacre B. Cholecystoscopy: Development, techniques, and results of gallstone therapy. Presented at American Roentgen Ray Society 1991 Annual Meeting, Boston, Massachusetts, May 5-10, 1991.
- E52 D'Agostino H, vanSonnenberg E, Casola G, May S, Taggart S, Sanchez R, Goodacre B. Percutaneous drainage associated with somatostatin analog (Octreotide) for pancreatic pseudocysts: Early experience. Presented at American Roentgen Ray Society 1991 Annual Meeting, Boston, Massachusetts, May 5-10, 1991.
- E53 Goodacre BW, vanSonnenberg E, D'Agostino H, Sanchez R, Casola G. Comparison of various needling techniques as a cause of pneumothorax during lung biopsy. Presented at the Annual Meeting of the Society of Thoracic Radiology, May 1991, Toronto, Canada.
- E54 D'Agostino H, vanSonnenberg E, Casola G, May S, Taggart S, Sanchez R, Goodacre B. Percutaneous drainage associated with somatostatin analog (octreotide) for pancreatic pseudocysts: Early experience. Presented at the University of California, San Diego, Department of Radiology Annual Research Meeting, May 11, 1991.
- E55 Sanchez R, vanSonnenberg E, D'Agostino H, Casola G, Moyers JP, Goodacre B. CT assisted gastrostomy placement. Presented at the University of California, San Diego, Department of Radiology Annual Research Meeting, May 11, 1991.
- E56 vanSonnenberg E, D'Agostino H, Esch O, Casola G, Sanchez R, Goodacre B. Percutaneous ultrasound (PUS) of abdominal viscera: Laboratory and clinical experience. Presented at the American Roentgen Ray Society 1991 Annual Meeting, Boston, Massachusetts, May 5-10, 1991.
- E57 Lee MJ, Mueller PR, vanSonnenberg E, D'Agostino H, Saini S. CT-guided alcohol block of the celiac ganglia. Presented at the 77th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 12/1-6/91.
- E58 Lee MJ, Mueller PR, vanSonnenberg E, Dawson SL, D'Agostino HB, Saini S, Hahn PF. CT guided alcohol block of the celiac ganglia. Presented at the American Roentgen Ray Society 1992 Annual Meeting, Orlando, Florida, May 10-15, 1992.
- E59 Fundell L, vanSonnenberg E, D'Agostino HB, Sanchez R, O'Laoide R, Oglevie S. Ultrasound guided thoracic biopsy: technique and results. 36th Annual Meeting of the American Institute of Ultrasound in Medicine, San Diego, California, 3/8-11/92.
- E60 Oglevie S, D'Agostino HB, Sanchez RB, vanSonnenberg E, O'Laoide R, Fundell L, Casola G. Evaluation of a phantom for training in ultrasound needle localization. 36th Annual Meeting of the American Institute of Ultrasound in Medicine, San Diego, California, 3/8-11/92.

- E61 Robbins KT, vanSonnenberg E. Ultrasound guided thyroid biopsy technique. Presented at the Third International Conference on Head and Neck Cancer, San Francisco, California, 7/26-30/92.
- E62 Sanchez R, vanSonnenberg E, D'Agostino HB, Goodacre B, Moyers P, Pittman C, Donaldson J. CT-assisted gastrostomy placement. Presented at the 14th Annual Meeting of the International Hepato-Biliary Pancreatic Association, Coronado, California, 8/31-9/2/92.
- E63 vanSonnenberg E, D'Agostino HB, Sanchez RB, Goodacre BW, Majidian M, Christensen RA. Scopes and lasers for interventional radiologic gallbladder and biliary procedures. Presented at the 14th Annual Meeting of the International Hepato-Biliary Pancreatic Association, Coronado, California, 8/31-9/2/92.
- E64 Fundell L, D'Agostino HB, vanSonnenberg E, Sanchez RB, Oglevie S, O'Laoide R, et al. US-guided thoracic biopsy: Technique and results. Presented at the 78th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/92.
- E65 vanSonnenberg E, D'Agostino HB, Sanchez RB, Oglevie S, O'Laoide R, Fundell L. Percutaneous ultrasound (PUS) of the bile ducts and gallbladder: Percutaneous and laparoscopic experience. Presented at the 78th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/92.
- E66 Allen GE, vanSonnenberg E, Wittich GR, D'Agostino HB, Easter DW, Sanchez RB, Christensen RA, Kerlan RK, Moossa AR. Complications of laparoscopic cholecystectomy: Coordinated radiologic and surgical management in 21 patients. Presented at the Southern Medical Association 1993, New Orleans, La. ""(Certificate of Merit Award).
- E67 vanSonnenberg E, Wroblecka T, D'Agostino HB, Mathieson, Casola G, O'Laoide R, Cooperberg. Symptomatic hepatic cysts: percutaneous drainage and sclerosis. Presented at the 79th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/28 — 12/3/93.
- E68 Chon K, vanSonnenberg E, D'Agostino HB, O'Laoide R, Hart, Pittman C. CT-guided percutaneous drainage of loculated thoracic air collections in patients with severe pulmonary compromise. Presented at the 79th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/28 — 12/3/93.
- E69 Wittich GR, vanSonnenberg E. Complications of acute pancreatitis: a new look at radiological classification and nomenclature. Presented at the 79th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/28 — 12/3/93.
- E70 O'Laoide R, D'Agostino HB, vanSonnenberg E, Donaldson, Pittman C, Hart. The "flat plate" in the 1990's: the spectrum of therapeutic hardware encountered. Presented at the 79th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/28 — 12/3/93.

- E71 O'Laoide R, vanSonnenberg E, D'Agostino HB, Simeone J, Oglevie. Gallbladder wall thickening on ultrasound: current concepts and new etiologies. Presented at the 79th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/28 — 12/3/93.
- E72 Chaljub G, vanSonnenberg E, Suominen D, Hendrick E, Neal D, Jr., Orihuela E. MRI after cryoablation for prostate carcinoma. Presented at Southern Medical Association 88th Annual Scientific Assembly, Orlando, Florida, 11/3-6/1994.
- E73 Casola G, Stainken B, Lim G, Schmidt JD, Weider J, vanSonnenberg E. Percutaneous cryosurgery for prostate cancer: technique and results. Presented at the 80th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/27-12/2/94.
- E74 Morgan R, Wittich G, Walser E, vanSonnenberg E. Results of CT-guided fine needle biopsy for diagnosis of benign lung lesions. Presented at the 80th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/27-12/2/94.
- E75 Walser E, Morettin L, Wittich G, vanSonnenberg E. Iatrogenic and traumatic injuries of the popliteal artery: diagnosis and treatment. Presented at the 80th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/27-12/2/94.
- E76 McNees S, vanSonnenberg E, Wittich G, Walser E, Goodacre B, Morgan R. Unsuspected postsplenectomy pancreatic pseudocysts: detection and percutaneous drainage. Presented at the 80th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/27-12/2/94.
- E77 Goodacre B, Finn N, Nolsoe C, Esch O, Wittich G, vanSonnenberg E. Interstitial laser photocoagulation in canine lung: a preliminary investigation of a new treatment for lung cancer. Presented at the 43rd Annual Meeting of the Association of University Radiologists, San Diego, California, 4/4-8/95.
- E78 Chaljub G, Hamilton C, vanSonnenberg E, Wittich G. MRI guided percutaneous biopsy and tumor localization utilizing 5 inch surface coil. Presented at the 81st Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/26-12/1/95.
- E79 Sobota C, Morgan R, Wittich G, Goodacre B, vanSonnenberg E. Percutaneous biopsy of mediastinal lesions: Transpleural and extrapleural access routes. Presented at the 81st Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/26-12/1/95.
- E80 vanSonnenberg E, Allen G, Wittich G, Goodacre B, Walser E. Percutaneous drainage of unusual liver abscesses. Presented at the 81st Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/26-12/1/95.

- E81 Goodacre B, Morgan R, Boyvat F, Walser E, vanSonnenberg E, Wittich G. Practical solutions to the problematic chest biopsy. Presented at the 81st Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/26-12/1/95. (Certificate of Merit Award)
- E82 Ramaswamy M, Singh H, Hootman K, Aldridge M, Wittich G, vanSonnenberg E. The emergent request to rule-out abscess: Is it always indicated? Presented at the 81st Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/26-12/1/95.
- E83 Chaljub G, vanSonnenberg E, Suominen DC, Hendrick EP, Orihuela E, Neal DE, et. al. MR Imaging of the prostate following cryotherapy. Presented at the 81st Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/26-12/1/95.
- E84 Ramaswamy MR, Patterson DS, Goodacre BW, vanSonnenberg E, Yin L, Lee JK, et. al. MoSearch: A radiologist-friendly tool for finding-based diagnostic report and image retrieval. Presented at the 81st Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/26-12/1/95.
- E85 Chaljub G, vanSonnenberg E, Suominen DC, Hendrick EP, Orihuela E, Neal DE, Jr. MRI of the prostate following cryotherapy. Presented at the 1996 American Roentgen Ray Society Meeting, San Diego, California, 5/5-10/96.
- E86 Chaljub G, Hamilton CR, vanSonnenberg E, Wittich GR. MRI guided percutaneous biopsy and tumor localization utilizing 5 inch surface coil. Presented at the 1996 American Roentgen Ray Society Meeting, San Diego, California, 5/5-10/96.
- E87 Meadors JN, Wittich GR, Goodacre BW, Walser EM, vanSonnenberg E. Techniques for percutaneous removal of malfunctioning endoscopically placed stents. Presented at the 1996 American Roentgen Ray Society Meeting, San Diego, California, 5/5-10/96.
- E88 Wittich G, vanSonnenberg E. Percutaneous removal of intra- and extrahepatic biliary calculi. Presented at the International Hepato-Pancreato-Biliary Association, Bologna, Italy, 9/2-4/96.
- E89 Goodacre B, Walser E, Morgan R, Wittich G, vanSonnenberg E. A challenge to percutaneous gastrojejunostomy and gastrostomy in patients with cerebral palsy. Presented at the 82nd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 12/1-6/96. (Certificate of Merit Award)
- E90 Hootman K, vanSonnenberg E, McNees S, Welch L, Walser E, Mileski W. Cervical spine studies in the emergency room: efficacy, throughput, and cost problems. Presented at the 82nd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 12/1-6/96.

- E91 Ramaswamy M, Walser E, Reyes R, Esch O, vanSonnenberg E, Nealon W. Effect of computed radiography on a trauma center. Presented at the 82nd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 12/1-6/96.
- E92 Wittich G, Baxter R, Goodacre B, Sobota C, Dooley C, vanSonnenberg E. Protective pneumothorax. Presented at the 82nd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 12/1-6/96.
- E94 Goodacre B, vanSonnenberg E. Percutaneous needle biopsy of thymic neoplasms. Presented at the Society of Thoracic Radiology Course: Thoracic Imaging 1997, Naples, Florida, 1/19-23/97.
- E95 vanSonnenberg E, Wittich GR, Zwischenberger J, Johnson Jr RF, Goodacre B, Walser E, Anand S. Tracheobronchial stents — indications, technique, and results. Presented at the Society of Thoracic Radiology Course: Thoracic Imaging 1997, Naples, Florida, 1/19-23/97.
- E96 Kavanagh PV, Goodacre BW, Wittich GR, Walser EM, Morgan RA, vanSonnenberg E. Subpleural nodules: percutaneous biopsy techniques and findings in 60 patients. Presented at the Society of Thoracic Radiology Course: Thoracic Imaging 1997, Naples, Florida, 1/19-23/97.
- E97 Zwischenberger JB, Wittich GR, vanSonnenberg E, Johnson RF, Alpard SK, Anand SK, Morrison RJ. Airway simulation to guide stent placement for tracheobronchial obstruction in lung cancer. Presented at the 33rd Annual Meeting of the Society of Thoracic Surgeons, San Diego, California, 2/3-5/97.
- E98 Wittich G, vanSonnenberg E, Walser E, Goodacre B. Contributing factors and management of sloughing of prostatic urethra after cryotherapy. Presented at the 15th Annual World Congress on Endourology, Glasgow, Scotland, 8/31-9/3/97.
- E101 Orihuela E, Neal DE Jr, vanSonnenberg E, Warren M. Cryotherapy vs. radical prostatectomy and radiation for the treatment of localized prostate cancer: results in contemporary patients at a single institution. Presented at the 15th Annual World Congress on Endourology, Glasgow, Scotland, 8/31-9/3/97.
- E102 Orihuela E, Neal DE Jr, vanSonnenberg E, Warren M. Localized prostate cancer treated with cryotherapy: impact of neoadjuvant therapy on morbidity and efficacy. Presented at the 15th World Congress on Endourology, Glasgow, Scotland, 8/31-9/3/97.
- E103 Orihuela E, vanSonnenberg E. Sloughing of prostatic urethra after cryotherapy: contributing factors and associated morbidity. Presented at the 76th Annual Meeting of the South Central Section of the American Urological Association, Inc., Bermuda, 11/8-12/97.

- E104 Phillpott J, vanSonnenberg E, Goodacre B, Wittich G, Zwischenberger J. Pericardial lymph nodes: anatomy, CT appearance, clinical significance. Presented at the 83rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/30-12/5/97. (Awarded Certificate of Merit)
- E105 vanSonnenberg E, Wittich G, Zwischenberger J, Goodacre B, Walser E, Kavanagh PV. Metallic tracheobronchial stents — indications, technique, and results. Presented at the 83rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/30-12/5/97. (Awarded Certificate of Merit)
- E106 Wittich G, vanSonnenberg E, Johnson Jr R, Kavanagh PV, Zwischenberger J, Morrison RJ. CT bronchoscopy for planning of bronchial stenting. Presented at the 83rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/30-12/5/97. (Awarded Certificate of Merit)
- E107 Hendrick E, Goodacre B, Kavanagh PV, Ozkan O, Wittich G, vanSonnenberg E. Atypical periappendiceal abscesses: spectrum of imaging appearances. Presented at the 83rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/30-12/5/97.
- E108 McNees S, vanSonnenberg E, Wittich G, Goodacre B. Atypical etiologies of pancreatitis. Presented at the 83rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/30-12/5/97.
- E109 vanSonnenberg E, Goodacre B, Wittich GR, D'Agostino HB, Hannigan E, Chaljub G. Interventional radiology for gynecologic and obstetric diseases. Presented at the 83rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/30-12/5/97.
- E110 Ramaswamy M, Chaljub G, Esch O, Fanning D, vanSonnenberg E. Impact of continuous speech recognition in MR imaging reporting. Presented at the 83rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/30-12/5/97. (Awarded Certificate of Merit)
- E111 Johnson Jr RF, Wittich GR, vanSonnenberg E, Kavanagh PV. Application and limitations of 3D CT image processing for planning bronchial stenting. Presented at the 83rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/30-12/5/97.
- E112 vanSonnenberg E, Goodacre B, Wittich GR, Orihuela E, Chaljub G, Hadjipavlou A, Rassekh C. New uses of image-guided cryotherapy. Presented at the 83rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/30-12/5/97.
- E113 Kavanagh PV, vanSonnenberg E, Wittich GR, Goodacre B, Esch O, Ozkan O. Interventional radiology of the gallbladder in the laparoscopic era. Presented at the 83rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/30-12/5/97.

- E114 Sitton C, Crow W, Hadjipavlou A, Borowski A, vanSonnenberg E, Somisetty S, Jensen R. Hemostasis of hypervascular spinal tumors with preoperative embolization and/or intraoperative cryocoagulation. Presented at the 83rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/30-12/5/97.
- E115 D'Agostino HB, Roberts, Weir, Hsue E, Goodacre B, vanSonnenberg E. Alcohol ablation for treatment of benign and malignant conditions: an overview of its multiple indications, technique and results. Presented at the 83rd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/30-12/5/97. (Awarded Certificate of Merit)
- E116 Hadjipavlou A, Crow WN, Borowski AM, vanSonnenberg E, Alford BT, Sitton C. Hemostasis of hypervascular spinal tumors with preoperative embolization and/or intraoperative cryocoagulation. Presented at the 11th Annual International Intradiscal Therapy Society Meeting, San Antonio, Texas, 5/13-16/98.
- E117 Orihuela E, vanSonnenberg E, Goodacre B, Neal Jr D, Warren MM. Cryotherapy for renal cell cancer in patients with solitary kidney. Presented at the 93rd Annual Meeting of the American Urological Association, San Diego, California, 5/30-6/4/98.
- E118 Orihuela E, vanSonnenberg E, Motamedi M, Bell B, Warren M. Thermodynamics of human renal cell cancer. Presented at the 77th Annual Meeting of the South Central Section of the American Urological Association, Cancun, Mexico, 10/30-11/4/98.
- E119 Chaljub G, vanSonnenberg E, Johnson R. Accidents and incidents in MRI: a questionnaire. Presented at the 84th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/98.
- E120 Escamilla B, Reyes R, vanSonnenberg E, Goodacre B. Imaging the obese patient. Presented at the 84th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/98.
- E121 Garcia G, Goodacre B, vanSonnenberg E, Wittich G, Ozkan O, Zwischenberger J. Which lesion to biopsy? The radiologist's dilemma. Presented at the 84th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/98. (Certificate of Merit Award)
- E122 vanSonnenberg E, Orihuela O, Goodacre B, Bell B, Adesonkan. Ultrasound guided renal cryotherapy. Presented at the 84th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/98. (Certificate of Merit Award)
- E123 Escamilla B, Reyes R, vanSonnenberg E. Radiograph improvement program. Presented at the 84th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/98.

- E124 Painter T, Goodacre B, vanSonnenberg E, Marroquin S, Wittich G, Zwischenberger J. Trends in radiologic chest biopsy. Presented at the 84th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/98.
- E125 Chon K, vanSonnenberg E, Wittich G, Goodacre B, Nealon W. How to read a CT scan post percutaneous drainage of pancreatic collections. Presented at the 84th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/98.
- E126 Payan C, Hootman K, vanSonnenberg E, Chaljub G. Utility and effectiveness of CT of the cervical spine in the emergency room. Presented at the 84th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/98.
- E127 Goodacre B, vanSonnenberg E, Wittich G, Suominen D. Deep mediastinal biopsies facilitated by iatrogenic salinomas. Presented at the 84th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/98.
- E128 Berend K, vanSonnenberg E, Wittich G, Goodacre B. Percutaneous transhepatic cholangiography: interesting and unusual appearances. Presented at the 84th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/98.
- E129 Finn N, Pohl J, vanSonnenberg E. Adnexal masses and their mimics revisited imaging and management in 1998. Presented at the 84th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/98.
- E130 Pohl J, Lee T, vanSonnenberg E. Scrotal pathology revisited ñ a diagnostic algorithm for imaging and management in 1998. Presented at the 84th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/98. (Certificate of Merit Award)
- E131 Singh H, Willcott MR, vanSonnenberg E. MRI of the breast in patients with palpable mass and a normal mammogram. Presented at the 84th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/98.
- E132 Singh H, Willcott MR, Gohil M, vanSonnenberg E. MRI of the breast ñ our experience with dedicated breast magnet with bilateral breast coils. Presented at the 84th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/98.
- E133 Finn NJ, Goodacre BW, Schnadig VJ, vanSonnenberg E, Miskovsky E, Wittich GR. Unsuspected hepatocellular carcinoma: unusual imaging findings and role of percutaneous biopsy. Presented at the 84th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/98.

- E134 Morello FA, Goodacre BW, Ozkan OS, vanSonnenberg E, Wittich GR. Beyond routine gastrostomy/gastrojejunostomy: percutaneous feeding options in patients with endstage cancers. Presented at the 84th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/98.
- E135 Aldridge MS, Goodacre BW, Aoughsten J, Singh H, vanSonnenberg E. Medications in radiology: a self-assessment quiz and review of important pharmaceutical agents. Presented at the 84th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/98.
- E136 Burdick T, vanSonnenberg E, Wittich G, Goodacre B. Are 22 gauge needles as safe as we think? Life threatening complications from 22 gauge needle puncture. Presented at the 84th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/29-12/4/98. (Certificate of Merit Award)
- E137 Berend K, Singh HS, Wittich GR, Goodacre BW, vanSonnenberg E. Diagnosis and percutaneous management of pelvic pathology. Presented at the 99th Annual Meeting of the American Roentgen Ray Society, New Orleans, Louisiana, 5/9-14/99
- E138 Singh HS, Wittich GR, Goodacre BW, vanSonnenberg E. CT or US-guided biopsy of hollow visceral lesions. Presented at the 99th Annual Meeting of the American Roentgen Ray Society, New Orleans, Louisiana, 5/9-14/99
- E139 Singh HS, Willcott RM, Villanueva-Meyer J, Gohil MS, Fleming DR, vanSonnenberg E. MRI evaluation of advanced breast cancer following chemotherapy. Presented at the 99th Annual Meeting of the American Roentgen Ray Society, New Orleans, Louisiana, 5/9-14/99.
- E140 Shankar S, vanSonnenberg E, Janicek MJ, DiPiro PJ, Shaffer K, Israel D. Unusual etiologies and appearances of omental cakes (Educational Exhibit). Presented at the 87th Annual Meeting of the Radiological Society of North America, Chicago IL, November 2001.
- E141 Dileo P, Randhawa R, vanSonnenberg E, Shankar S, Desai J, Morgan JA, Tuncali K, Van den Abbeele, A, Silverman SG, Demetri GD. Safety and efficacy of percutaneous radiogrequency ablation in patients with metastatic gastrointestinal stromal tumor with clonal evolution of lesions refractory to imatinib. American Society of Clinical Oncology meeting, New Orleans, LA, 2004.
- E142 Lo WK, vanSonnenberg E. CT-guided Radiofrequency Ablation. Presented at Somona Weiss Research Day, Boston, MA, March 2004.

- E143 Nair RT, Silverman SG, Tuncali K vanSonnenberg E, Zou KH, Morrison PR. Biochemical and hematologic alterations following percutaneous cryoablation of liver tumors: experience in 48 procedures. Presented at the 91st Annual Meeting of the Radiological Society of North America, Chicago IL, November 2005.
- E144 Tuncali K, Carrino JA, Morrison MS, vanSonnenberg E, Silverman SG. MRI-guided percutaneous cryotherapy of bone and soft tissue metastases adjacent to critical structures: initial experience in 22 patients. Presented at the 91st Annual Meeting of the Radiological Society of North America, Chicago IL, November 2005.
- E145 Erturk SM, Silverman SG, Morteale KJ, Lamba R, Tuncali K, vanSonnenberg E. Percutaneous abdominal biopsy with ultra-fine needles: is thinner better? Presented at the 91st Annual Meeting of the Radiological Society of North America, Chicago IL, November 2005.
- E146 Linstrom N, vanSonnenberg E, McMullen W, Stringfellow G, Saghari H, Hedayati P, Moore M, Crum C, Gosalia R, Pop M, Oyola E, Roberts M, Mathern P, Shamos R. Radiofrequency ablation at an independent academic center: The first year. American Roentgen Ray Society, Grand Lakes Orlando, FL, May 2007.
- E147 Mamlouk M, vanSonnenberg E, Gosalia R, et al; CT angiography for pulmonary embolism—review of 2003 patients. American College of Physicians, Phoenix, Arizona, September, 2008.
- E148 Mamlouk M, vanSonnenberg E, Gosalia R, Drachman D, Gridley D, Zamora G, Casola G, Ornstein S; CT angiography for pulmonary embolism in 2003 patients: Implications for appropriateness, cost, & radiation exposure; Phoenix Academic Medicine Day, 5/09—
First Prize
- E149 Mamlouk MD, vanSonnenberg E, Schraml F, Theodore, N. RF ablation of the anterior spinal vertebral body osteoid osteoma: A safe and effective approach. ARRS, Chicago, IL, May 1, 2011.
- E150 Mamlouk M, Heidari A, vanSonnenberg E, Yazdanshenas M, et al. Vast and diverse spectrum of radiologic imaging of Coccidioidomycosis from a database of over 1300 patients. KMC/UCLA Research Forum, Bakersfield, CA, April 28, 2011.
- E151 Pakula A, Kozyr S, vanSonnenberg E, Skinner R. Pulmonary contusion on CT: Preliminary analysis of a novel technique for acute pulmonary injury scoring and risk stratification. KMC/UCLA Research Forum, Bakersfield, CA, April 5, 2012.

- E152 Cottrell J, Trang T, vanSonnenberg E. Metastatic prostate cancer and tumor radiofrequency ablation (RFA) of right mandible with neurolysis of alveolar nerve in the mandibular condyle. KMC/UCLA Research Forum, Bakersfield, CA, April 5, 2012.
- E153 Chopra S, Vithalani P, Trobisch, J, Munoz A, Pearlman J, Yakoub G, Olak J, vanSonnenberg E. Case of a hemithoracic cyst compressing and displacing the heart. KMC/UCLA Research Forum, Bakersfield, CA April 5, 2012.
- E154 Dorriz P, Shah R, Yakoub G, vanSonnenberg E. An unusual presentation of leiomyosarcoma. KMC/UCLA Research Forum, Bakersfield, CA, April 5, 2012.
- E155 Sarani S, vanSonnenberg E. Effective medical abstract writing: An analysis of Research Forum abstracts in an academic center. KMC/UCLA Research Forum, Bakersfield, CA, April 5, 2012.
- E156 Hansra A, Stawski J, Mamlouk M, Chu J, vanSonnenberg E. Interventional Radiology Procedures Performed by Medical Students. KMC/UCLA Research Forum, Bakersfield, CA, April 16, 2013.
- E157 Hansra A, vanSonnenberg E, Kalha I, Stawski J. Celiac Ganglion Block: Indications, Technique, Illustrations. KMC/UCLA Research Forum, Bakersfield, CA, April 16, 2013.
- E158 Chu J, vanSonnenberg E, Kalha I. Iatrogenic Pancreatitis Following CT-Guided Celiac Ganglion Block in a Chronic Pancreatitis Patient. KMC/UCLA Research Forum, Bakersfield, CA, April 16, 2013.
- E159 Hansra A, vanSonnenberg E, Trang T. Interventional Radiology Therapy for Complex, Unconventional ENT Tumors. KMC/UCLA Research Forum, Bakersfield, CA, April 16, 2013.
- E160 Anand T, vanSonnenberg E, Skinner R, Gadani K. CT Beyond Trauma Diagnosis: Resuscitation Requirements Based on IVC Diameter and Intestinal Perfusion. KMC/UCLA Research Forum Poster Session, Bakersfield, California. April, 2014.
- E161 McQuilken M, Stapczynski S, Kang P, Wagner K., vansonnenberg E, McEchron M. Is Family Medicine Mentorship of a Medical Student Mandatory Scholarly Project Related to Matching into a Primary Care Residency? Society of Teachers of Family Medicine, Phoenix, Arizona 1/16
- E162 Havill C, Coleman A, Hall H, Pettitt W, vanSonnenberg E. The Rotator Cuff: Normal Function and What Can Go Wrong. Arizona-Nevada Science Conference. Glendale, Arizona 3/17

- E163 Hall H, Havill C, Coleman A, Pettitt W, vanSonnenberg E. Naturopathic and Conventional Medicine: the Interrelationship. Arizona-Nevada Science Conference. Glendale, Arizona 3/17
- E164 Coleman A, Hall H, Havill C, Pettitt W, vanSonnenberg E. The Anterior Cruciate Ligament: Normal and Abnormal. Arizona-Nevada Science Conference. Glendale, Arizona 3/17
- E165 Eid T, vanSonnenberg E, Azar A, Mistry P, Eid K, Kang P. Abstracting the Abstract: What Do You Prefer? AAMC Regional Conference, Salt Lake City, Utah, 2/17
- E166 Intwala D, vanSonnenberg E, Hibner M, Kang P, Castellanos M. Pudendal Neuralgia: Experience in 100 Cases; Research Symposium University of Arizona College of Medicine, Phoenix, Arizona; 3/8/17
- E167 Cheung P, vanSonnenberg E; The Reciprocating Syringe: Valuable for Thoracentesis Education? Research Symposium University of Arizona College of Medicine, Phoenix, Arizona; 3/8/17
- E168 Graber T, Hamburg R, vanSonnenberg E, Kang P. Imaging for Chest Pain Assessment. Research Symposium University of Arizona College of Medicine, Phoenix, Arizona; 3/8/17
- E169 Crawford D, vanSonnenberg E, Kang P. Infectious Outcomes from Renal Tumor Ablation: Prophylactic Antibiotics or Not? Society of Abdominal Radiology. Scottsdale, Arizona; 3/18
- E170 Hansra A, vanSonnenberg E, Mamlouk M, Chu J, Stawski J. Medical Student Involvement in Interventional Radiology. Society of Abdominal Radiology. Scottsdale, Arizona; 3/5-9/18
- E171 Kelleher J, vanSonnenberg E, Kang P, Kaib S. Correlation of Step Scores & Residency Selection on Interview Offers; U of Arizona College of Medicine Scholarly Project Research Day; Phoenix, Arizona, 3/8/18
- P172 Rosztoczy M, vanSonnenberg E, Crawford D, Cheung P, Mamlouk M, Fogerty G. Engineers in Medicine; What Specialties Do They Pursue? Research in Medical Education Poster Day, University of Arizona College of Medicine; 4/9/19

- P173 Casper D, Tran J, Mistry P, Kang P, vanSonnenberg E. Student Interest Groups—Do They Make a Difference in Choosing a Specialty? Research in Medical Education Poster Day, University of Arizona College of Medicine; 4/9/19
- P174 Lynch K, Guevorkian M, Eid T, Shi A, Hussain O, Alattar Z, Castaneda P, vanSonnenberg E. The Alumni Medical Student UACOMP HOST Program: A Means to Reduce Costs & Involve Alumni. Association of American Medical Colleges annual meeting, Learn Serve Lead. Phoenix, Arizona; 11/8-12/19
- P175 Shah-Patel L, Munter B, Kang P, vanSonnenberg E. The Specialty Newsletter—A Unique Way to Present Specialty-Specific Information, Networking Contacts, & Match Insight. Association of American Medical Colleges annual meeting, Learn Serve Lead. Phoenix, Arizona; 11/8-12/19
- P176 Shankar S, vanSonnenberg E, Janicek M, DiPiro P, Schaffer K, Israel D. Usual & Unusual Etiologies and Appearances of Omental Cakes. RSNA 2001, Chicago, Illinois
- P177 Smith S, vanSonnenberg E, Kang P, Kaib S. Learning Specialists in Undergraduate Medical Education: A National Pilot Survey. Association of American Medical Colleges annual meeting, Learn Serve Lead. Phoenix, Arizona; 11/8-12/19
- P178 Shah-Patel L, vanSonnenberg E, Kang P, Kaib S. Career and Professional Advising in Medical Schools in the United States: A Pilot Survey. Association of American Medical Colleges annual meeting, Learn Serve Lead. Phoenix, Arizona; 11/8-12/19
- P179 Coudret D, Baker Z, vanSonnenberg E. A New Method to Collect, Monitor, and Share Medical Student Data. Association of American Medical Colleges annual meeting, Learn Serve Lead. Phoenix, Arizona; 11/8-12/19
- P180 Lynch K, vanSonnenberg E, Guevorkian M, Eid T, Shi A, Hussain O, Alattar Z, Castaneda P. The Alumni-Medical Student HOST Program: A Means to Reduce Costs & Involve Alumni. AAMC Annual Meeting, Learn, Serve, Lead. 2019
- P181 Shah-Patel L, vanSonnenberg E. Optimizing a Medical Student Advising Program with Minimal Resources & Lack of Manpower. American Association of Medical Colleges, Careers in Medicine Conference. Chicago, Illinois. March 2020

- P182 vanSonnenberg E, Towbin R. Medical Student Research Is Now Essential to Become a Radiology Resident: Our Methods and Tips; Society of Abdominal Radiology Annual Meeting. Hollywood, Fla. 3/21
- P183 Miro P, vanSonnenberg E, Sabb D., Schoffl V. Imaging Evaluation of Finger Flexor Pulley Injuries in Rock Climbers. 2021. American Roentgen Ray; virtual; 4/21
- P184 Grewal S, vanSonnenberg E, Kaur M, Sitton Z. Evaluation of Radiology Department Websites as a Resource for Medical Students Who Are Interested in Interventional Radiology. American Roentgen Ray; virtual; 4/21
- P185 Shah-Patel L, vanSonnenberg E. The Big Sib/L'il Sib Mentor Program—A Valuable Complement for Medical Student Advising, Group on Student Affairs, American Association of Medical Colleges Annual Meeting; virtual; 3/21
- P186 vanSonnenberg E, Nguyen D, Ngo B. A Faculty-Inspired, Medical Student Driven Approach to Research. American Association of Medical Colleges, Learn, Serve, Lead Conference (virtual) 2020
- P187 Nguyen D, vanSonnenberg E, Kang P. "Burnout in Medical Students: Resistance, Rather Than Resilience—Frequency, Factors, or Fantasy". AMA Annual Research Conference. 2021
- P188 Grewal S, vanSonnenberg E, Kaur M, Sitton Z. Academic Radiology Department Websites: Analysis, Comparisons, and Recommendations for Subspecialty Information. American Roentgen Ray; virtual; 4/21
- P190 Lynch K, vanSonnenberg E, Shah-Patel L, Daus K. Wildcat Wisdom Alumni Panels, Group on Student Affairs, American Association of Medical Colleges Annual Meeting; virtual; 3/21
- P191 Rosztoczy M, vanSonnenberg E, Crawford D, Cheung P, Mamlouk M, Fogerty G. Engineers in Medicine; What Specialties Do They Pursue? UACOMP Annual Research Poster Day; 3/21
- P192 Nikkahamanesh N, Kang P, vanSonnenberg E. What Do Medical Students Know About Medical Malpractice? Let's Find Out! AMA Annual Meeting; September 2021

- P193 Lynch K, Daus K, vanSonnenberg E, Shah-Patel L. Wildcat Wisdom Alumni Panels. AAMC Learn, Serve, Lead Annual Conference; Phoenix, AZ. 11/21
- P194 Grewel S, Osman F, Crawford D, Alattar H, Quibain L, Kang P, vanSonnenberg E. How Frequent Are Infectious Complications in Percutaneous Liver Tumor Ablation, and Are Prophylactic Antibiotics Utilized? American Roentgen Ray Society, May 2022
- P195 Patel M, vanSonnenberg E. GI and Abdominal Manifestations of Covid, Georgia Gastroenterologic and Endoscopic Society Annual Meeting, Atlanta, GA; 9/24/22
- P196 Groth N, Sprout G, Williams A, Grewel S, Neitzel E, Mackner J, Irwin C, Wenger D, Howshar J, Singh S, Kaur M, vanSonnenberg E. UACOM-P Student-Led National & International Radiology Symposium to Increase Exposure to Radiology and Impact Perceptions for Medical Students. Research Office of Medical Education UACOMP. ROME Research Conference. 10/27/22
- P197 Murata A, Kar E, vanSonnenberg E; Analysis of Statistics Utilized in PrimaryArticles in a High Impact Journal: A Prelude to Practical Pedagogy in Biostatistics; Research Office of Medical Education UACOMP. ROME Research Conference. 10/27/22
- P198 Neitzel E, vanSonnenberg E, Markovic D, Parrish D, Tarrant J, Casola G, Mamlouk M, Simeone JF. Covid-Induced Radiology Metamorphosis: Remote Reading Is Becoming the New Norm. Research Office of Medical Education UACOMP. ROME Research Conference. 10/27/22
- P199 Wirth A, vanSonnenberg E. The Education of Allopathic Medical versus Naturopathic Medicine Physicians: Differences and Similarities. Research Office of Medical Education UACOMP. ROME Research Conference. 10/27/22
- P200 Nikkahamanesh N, Kang P, vanSonnenberg E. What Do Medical Students Know About Medical Malpractice? Let's Find Out! Research Office of Medical Education UACOMP. ROME Research Conference. 10/27/22
- P201 Neitzel E, vanSonnenberg E, Lynch K, Shah-Patel L, Mamlouk M, Irwin C. Why Do UACOMP Students Go into Radiology? Research Office of Medical Education UACOMP. ROME Research Conference. 10/27/22

- P202 Neitzel E, vanSonnenberg E, Lynch K, Shah-Patel L, Mamlouk M, Irwin C. Why Do UACOMP Students Go into Radiology? Annual Meeting of the American Roentgen Ray Society; Honolulu, Hawai'i; 4/23
- P203 Neitzel E, vanSonnenberg E, Markovic D, Parrish D, Tarrant J, Casola G, Mamlouk M, Simeone JF. Covid-Induced Radiology Metamorphosis: Remote Reading Is Becoming the New Norm. Annual Meeting of the American Roentgen Ray Society; Honolulu, Hawai'i; 4/23
- P204 Grewal S, Kaur M, Sprout G, vanSonnenberg E. Introducing Medical and Pre-Medical Students to Radiology: Two Years of National & International, Student-Run Radiology Symposia. Research in Medical Education Poster Day, University of Arizona College of Medicine. March, 2023
- P205 Sprout G, Grewal S, Groth N, Neitzel E, Mackner J, Wenger D, Williams A, Irwin C, vanSonnenberg E. UACOMP Student-Led Radiology Symposium: A MedEd Tool to Bridge the Traditional Gaps of Medical Education. Arizona Medical Association Annual Meeting; Phoenix, AZ. April, 2023
- P206 Wirth A, vanSonnenberg E. The Education of Allopathic and Naturopathic Medical Physicians: Similarities and Differences. Arizona Medical Association Conference; April 21, 2023; Phoenix, Arizona (3rd place award)
- P207 Falls N, Bucklin L, vanSonnenberg E. "Choosing Anesthesiology: A single institution's experience on the factors that influence match day specialty choice, and what can be done to continue supporting students who want to match into Anesthesiology". American Society of Anesthesiology annual conference; 10/23; San Francisco, Calif
- P208 Murata A, Kar E, vanSonnenberg E. Analysis of Statistics Utilized in a High Impact Journal: A Prelude to Practical Pedagogy in Biostatistics. 10th Annual Arizona Rural Health Conference; virtual; June 2023 (award winning)
- P209 Sprout G, Groth N, Grewal S, et al., vanSonnenberg E. "UACOM-P Student-Led Radiology Symposium: A MedEd Tool to Bridge the Gaps of Traditional Medical School Curricula". Arizona Regional Medical Association Annual Meeting. Phoenix, Arizona. April 2023.
- P210 Sprout G, Groth N, Grewal S, et al., vanSonnenberg E. "Student-Led National & International Radiology Symposium: A Medical Education Tool to Increase Exposure to Radiology and Impact Perceptions for Medical Students". University of Arizona Research Office for Medical Education (ROME) Annual Forum. Phoenix, Arizona. October 2022.

- P211 Williams AA, vanSonnenberg E. Concordance and Discordance Between Medical School Anatomy Teaching and Clinical CT Radiology of the Abdomen: An Informal Pilot Study. ROME Research Poster Conference. 10/23
- P212 Ruta M, Fisher R, vanSonnenberg E. ChatGPT for Medical Students: A New Frontier in Digital Learning. ROME Research Poster Conference. 10/23
- P213 Trang G, Ruddy L, vanSonnenberg E. Participation in Medical Student-Led Virtual Radiology Case of the Month Exercise Leads to Increased Confidence and Enjoyment in Image Interpretation: A Pilot Study. ROME Research Poster Conference. 10/23
- P214 Neitzel E, Nguyen D, vanSonnenberg E. Medical Student Research Program under Supervision of Faculty Advisor Increases Research Output and Residency Application Competitiveness. ROME Research Poster Conference. 10/23
- P215 Neitzel E, Sprout G, Groth N, Williams A, Grewal S, Trang G, Porter K, Willis J, Altaf A, Mackner J, Irwin C, vanSonnenberg E. Student-Led Radiology Symposium Increases Medical Student Exposure and Interest in Radiology. ROME Research Poster Conference. 10/23
- P216 Wirth A, Sharma V, Cowan C, vanSonnenberg E. Trends of Women in Surgical Training: A 5 Year Retrospective. ROME Research Poster Conference. 10/23
- P217 Trang G, Ruddy L, vanSonnenberg E. Participation in Medical Student-Led Virtual Radiology Case of the Month Exercise Leads to Increased Confidence and Enjoyment in Image Interpretation: A Pilot Study. Research Office for Medical Education Forum, Phoenix, Arizona. 2023
- P218 Koujah D, Dhupati P, Vansdadia S, Adamji T, **Trang G**, vanSonnenberg E, Goettl CS. A randomized controlled trial exploring the role of the VIST endovascular simulator in teaching 3D neurovascular anatomy. Research Office for Medical Education Forum, Phoenix, Arizona. 2023
- P219 Fisher R, Neitzel E, vanSonnenberg E. Establishing a medical school interest group to support the growth of AI among medical students: a direct effect of CARS! 2024 37th Annual CARS conference; Barcelona, Spain; June, 2024
- P220 Ruta M, Fisher R, Simpson J, vanSonnenberg E. ChatGPT for medical students: do they use it and what do they think about it? 2024 37th Annual CARS conference; Barcelona, Spain; June, 2024
- P221 Williams AA; vanSonnenberg E. Concordance and Discordance Between Medical School Anatomy Teaching and Clinical CT Radiology of the Abdomen: An Informal Pilot Study. Association of University Radiologists Annual Meeting, Boston MA. 2024

- P222 Neitzel E, Sprout G, Groth N, Williams A, Grewal S, Trang G, Porter K, Willis J, Altaf A, Mackner J, Irwin C, vanSonnenberg E. Student-Led Radiology Symposia Increase Medical Student Exposure & Interest in Radiology Association of University Radiologists Annual Meeting, Boston MA. 2024
- P223 Neitzel E, Nguyen D, vanSonnenberg E. Medical Student Research Program under Supervision of Faculty Advisor Increases Research Output & Residency Application Competitiveness. Association of University Radiologists Annual Meeting, Boston MA. 2024
- P224 Neitzel E, Nguyen D, vanSonnenberg E. "Medical Student Research Program under Supervision of Faculty Advisor Increases Research Output and Residency Application Competitiveness". Association of University Radiologists. Boston, MA. April 2024.
- P225 Neitzel E, Sprout G, Groth N, Williams A, Grewal S, Trang G, Porter K, Willis J, Altaf A, Mackner J, Irwin C, vanSonnenberg E. "Student-Led Radiology Symposium Increases Medical Student Exposure and Interest in Radiology". Association of University Radiologists. Boston, MA. April 2024.
- P226 Neitzel E, Stearns J, Lammers L, vanSonnenberg E. "Vascular Complications of Non-Vascular Percutaneous IR Abdominal Procedures". American Roentgen Ray Society. Boston, MA. May 2024.
- P227 Fisher R, Neitzel E, vanSonnenberg E. Establishing a medical school interest group to support the growth of AI among medical students: a direct effect of CARS! 38th Annual Computer Assisted Radiology & Surgery Congress. Barcelona, Spain; June 2024
- P228 Ruta M, Fisher R, Simpson J, E. vanSonnenberg E. ChatGPT for medical students: do they use it and what do they think about it? 38th Annual Computer Assisted Radiology & Surgery Congress. Barcelona, Spain; June 2024
- P229 Neitzel E, Sprout G, Groth N, Williams A, Grewal S, **Trang G**, vanSonnenberg E. Student-Led Radiology Symposium Increases Medical Student Exposure and Interest in Radiology. Association of University Radiologists 72nd Annual Meeting, Boston, MA. April 6, 2024
- P230 Neitzel E, vanSonnenberg E, Irwin C, Sze DY, Ruther S, Towbin R. Transitioning from Interventional Radiology. RSNA 2024. Chicago, Illinois. November 2024
- P231 Heiser D, Neitzel E, Ferguson C, vanSonnenberg E. Diagnostic and Interventional Radiology Interest Groups: Members, Activities, Funding. American Roentgen Ray Society annual meeting. 2025 (accepted)

- P232 Koujah D, Feerst H, Kisiel S, vanSonnenberg E. A Review of Endovascular Therapies for Inoperable Giant Cell Tumors of the Pelvis and Axial Skeleton. Society of Interventional Oncology. Las Vegas, Nevada. February, 2025
- P233 Baumstark J, Neitzel E, vanSonnenberg E, Kravetz R, Alexandraki I. Survey of UACOMP Physician Facilitators for Case Base Instruction. UACOMP Scholarly Project Research Day; Phoenix, Arizona; 5/8/25
- P234 Neitzel E, vanSonnenberg E, Lynch K, Shah-Patel L, Mamlouk M, Irwin C. Why Do UACOMP Students Go into Radiology? UACOMP Scholarly Project Research Day; Phoenix, Arizona; 5/8/25
- P235 Timmerman B, vanSonnenberg E, Gontko A, Johnson K, Fogerty G. "What Is Medical School Like for College Engineering Majors? A Multi-Institutional Expansion of a Pilot Project". Research Office of Medical Education, Research Conference. 4/24
- P236 Neitzel E, Stearns J, Guido J, Porter K, Whetten J, Lammers L, vanSonnenberg E. Iatrogenic Vascular Complications of Non-Vascular Percutaneous Abdominal Procedures. Research Office of Medical Education, Research Conference. 4/24
- P237 Neitzel E, vanSonnenberg E, Irwin C, Sze D, Guido J, Towbin R. Transitioning from Interventional Radiology: A Cross-Sectional Survey of Society of Interventional Radiology. Research Office of Medical Education, Research Conference. 4/24

INVENTIONS

Catheters (Boston Scientific)

--vanSonnenberg Sump

--vanSonnenberg Chest Drain

--vanSonnenberg Gallbladder Catheter

--All Purpose Drainage Catheter

--vanSonnenberg Gastro-jejunostomy Catheter

--vanSonnenberg Pancreatic Drainage Catheter (22-30 Fr)

Other (Cook, Inc)

--vanSonnenberg Needle Access Set

--Sharps Safety Kit

PROJECTS IN PROGRESS

vanSonnenberg E, Wittenberg J, Mueller P, Ferrucci JT Jr: CT diagnosis of pancreatic carcinoma complicating acute pancreatitis.

vanSonnenberg E, Simeone JF, Mueller PR, Ferrucci JT Jr: Incidence of hematoma after percutaneous transhepatic cholangiography — ultrasound diagnosis.

vanSonnenberg E, Wittenberg J, Simeone JF, Hall D, Mueller PR, Ferrucci JT Jr, Kopans D: Comparative accuracy of ultrasound and computed tomography in detection of abscesses by specific abdominal compartments.

vanSonnenberg E, Marx M, Scheible FW, Green M: Fine needle retrieval of Reed-Sternberg cells in the diagnosis of Hodgkin's disease.

vanSonnenberg E, Gertler S, Scheible FW, Lin AS, Alexander P: Spontaneous resolution of large mediastinal and abdominal pseudocysts documented by CT and ultrasound.

Nishikuni B, Simeone JF, Wittenberg J, Mueller PR, Stauffer A, vanSonnenberg EV: The appearance of the psoas muscles on CT in 100 patients.

vanSonnenberg E, Casola G, Wing VW. Failure of formation of T- Tube tracts.

vanSonnenberg E, Casola G, Tanenbaum LB. CT-guided percutaneous pancreatic ductography: results, uses, and problems.

vanSonnenberg E, Cubberley DA, Casola G, Wing VW, Scheible FW, Nakamoto SK, Casillas JD. Problems of ultrasound and CT guided fluid aspirations: a review of 350 cases.

vanSonnenberg E, Casola G, Nakamoto SK, Cone R, Resnick D. CT guided percutaneous drainage of chronic septic arthritis.

Wittich GR, vanSonnenberg E, Marx M, Tobin RS, Cubberley DA, Scheible FW. The frequency and significance of anatomic variants commonly seen on normal abdominal CT scans.

vanSonnenberg E, Casola G, Nakamoto SK, Wing VW, Scheible FW, Mattrey RF, Cubberley DA, Casillas JD. CT and ultrasound guided biopsy of small and relatively inaccessible lesions.

Casola G, vanSonnenberg E, Nakamoto SK, Wing VW, Rodkin R. Left- sided percutaneous biliary drainage after failed or external right-sided drainage.

Wittich GW, vanSonnenberg E, Mueller PR, Haaga J, Bernardino M, Ferrucci JT Jr. Biopsy of hemangiomas.

vanSonnenberg E, Wittich GR, Schiffman HR, Cabrera OA, Hofmann AF. Percutaneous biliary drainage stricture dilatation and solvent infusion for choledocholithiasis and complications.

Lafferty CM, vanSonnenberg E, Wittich GR. The frequency of gastric obstruction with pancreatic carcinoma: myth or reality?

Spoto GP, vanSonnenberg E. Long-term survival with pancreatic cancer after percutaneous biliary drainage.

vanSonnenberg E, Wittich GR, Wheeler HO, Berk RN, Polansky AD, Schiffman HR, Jagger PI, Princenthal RA. Interventional radiology admitting service.

Koenker R, vanSonnenberg E, Wittich G, Ward D, Saltzstein S. Specimen adequacy in needle biopsy of kidney: a comparison of various needle sizes and designs.

vanSonnenberg E, Casola G, Wittich GR. Percutaneous drainage of hematomas: Indications and results.

vanSonnenberg E, Casola G, Wittich GR, Tannenbaum LB, Princenthal RA. Percutaneous pancreatic ductography: Laboratory and clinical experience.

vanSonnenberg E, Scheller M, Casola G, Wittich GR, Sanford F. Painless biliary drainage: A welcome relief.

Christensen R, vanSonnenberg E, Casola G, Alzate G, Wittich GR. Spontaneous enteric fistulization of pancreatic pseudocysts. Beneficial or deleterious in the percutaneous drainage?

Lee AA, vanSonnenberg E. Ureteral lymphoma in AIDS.

Casola G, vanSonnenberg E, et al. Sonographic evaluation of bile ducts after injection of ceruletide.

Casola G, vanSonnenberg E, Lee A, Withers C, Keightley A. Transsplenic biopsy of adrenal lesions.

Varney R, vanSonnenberg E, Casola G. Primary spermatic cord mesothelioma with intraperitoneal dissemination: A rare tumor with an unusual pattern of metastasis.

Muehle C, vanSonnenberg E. Pylephlebitis — Early CT diagnosis and prevention of possible fatal outcome.

Casola G, vanSonnenberg E, Keightley A, Ho M, Withers C, Wittich G, Lee A. Transgression of the pleural space during percutaneous drainage of upper abdominal abscesses: Incidence and consequences.

vanSonnenberg E, Casola G, Varney RR, Halasz NA, Wootten S, Spoto G, Middleton M, Stavas J, Hilpert P, Dowd C. CT anatomy of the gallbladder — implications for percutaneous cholecystostomy.

vanSonnenberg E, Jhala S. The role of interventional radiology in the conservative management of splenic trauma: 3 illustrative cases.

Varney RR, vanSonnenberg E, Mattrey RF. The current approach to imaging liver metastases.

vanSonnenberg E, D'Agostino H, Casola G, Varney RR, Ainge GD. Multipurpose locking gallbladder catheter.

vanSonnenberg E, Casola G, D'Agostino H, Varney RR, Roberts AC. Urokinase infusion as an adjunct to percutaneous drainage.

Easter DW, Hoyt DB, vanSonnenberg E. Pancreatic rupture: Preoperative Diagnosis.

Mauer J, vanSonnenberg E, Fellmeth B, D'Agostino. Case report: Ultrasound and CT findings of gallbladder infarction after transcatheter hepatic arterial embolization.

vanSonnenberg E, D'Agostino HB, Hofmann AF, Jinich H, Casola G, Hoyt DB, McQuaid KR, Mackersie R. MTBE therapy of gallstones in the presence of cystic duct obstruction: Patient selection, methods, and results.

May S, vanSonnenberg E, D'Agostino H, Casola G, Gardner D, Taggart S. Comparison of access sets used in interventional radiology.

vanSonnenberg E, D'Agostino HB, Casola G, Neto A, Hofmann AF. Gallbladder wall thickening due to MTBE dissolution of gallstones.

Kothari R, vanSonnenberg E. Amebic liver abscess.

Torres, WE, Maglinte DDT, vanSonnenberg E. Perspective: The changing role of radiology in the current management of gallstone disease.

Oglevie S, vanSonnenberg E, D'Agostino HB, O'Laoide RM, Fundell L. Recent experiences with percutaneous biliary drainage.

O'Laoide R, vanSonnenberg E, D'Agostino HB, Sanchez RB, Oglevie SB, Fundell L. Percutaneous cholecystostomy for suspected acute cholecystitis: different response in calculous and acalculous cholecystitis.

O'Laoide R, vanSonnenberg E, D'Agostino HB. Psoas abscess drainage.

vanSonnenberg E, Cartwright T, Bettmann M, Barton J. A survey of medical malpractice in radiology with an emphasis on procedures.

McNees S, vanSonnenberg E. Percutaneous management of the complications of acute pancreatitis.

O'Laoide R, D'Agostino H., vanSonnenberg E, Hart E, Pittman C, Donaldson J. Bedside percutaneous drainage of loculated thoracic air collections in ICU patients.

Wittich GR, vanSonnenberg E, Esch O, Walser EM, Morgan R. Radiologic management of biliary stone disease.

Russack V, O'Laoide R, vanSonnenberg E, D'Agostino H. Role of fine needle aspiration cytology in percutaneous alcohol ablation of malignant neoplasms.

Casola G, Stainken B, vanSonnenberg E. Ultrasound imaging for prostate cryosurgery.

Casola G, Stainken B, vanSonnenberg E. CT imaging following prostatic cryosurgery.

Casola G, Stainken B, vanSonnenberg E. Cryosurgery for treatment of cancer.

Esch O, vanSonnenberg E, Nissenbaum M, D'Agostino H, Spinoza. Percutaneous intraparenchymal ethanol injection: physiological effects, tissue response, and imaging characteristics in normal porcine liver.

Allen G, vanSonnenberg E, Wittich G, Walser E, Goodacre B. Percutaneous therapy of liver abscesses.

Wittich G, vanSonnenberg E. Perforated gallbladder.

Goodacre B, Esch O, Nolsoe C, vanSonnenberg E. Laser of the lung.

Pittman C, vanSonnenberg E, D'Agostino H, Hart E, Donaldson J, O'Laoide R, Casola G. Acute cholecystitis complicating percutaneous metal stent placement: report of two cases.

Branstetter BF, D'Agostino HB, Middleton M, Oglevie S, vanSonnenberg E. Major complications from non-vascular interventional radiology procedures: A series of 2749 cases and literature review.

Chaljub G, vanSonnenberg E, Suominen D, Hendrick E, Orihuela E, Neal D, Warren M. MRI evaluation following cryotherapy of the prostate.

vanSonnenberg E. Baseball, still the American game.

Phillpott J, vanSonnenberg E. Pericardial lymph nodes.

Huyhn K, vanSonnenberg E. Lap chole clip.

Chaljub G, vanSonnenberg E. MRI Bx.

Allen G, vanSonnenberg E. Biliary stricture.

Hendrick E, vanSonnenberg E. Gallbladder cancer.

Habermann CR, Le V, Goodacre B, Walser E, vanSonnenberg E, Wittich G, McMahan S, Esch O. Incidence of pneumothorax in CT guided biopsy of benign and malignant pulmonary lesions.

Goodacre B, vanSonnenberg E, Chaljub G, Gazelle S. MR imaging percutaneous biopsy and tumor localization with 5 inch surface coil.

vanSonnenberg E. Mrs. Sid paper.

vanSonnenberg E, Wittich G, Zwischenberger J, Meadors J, Johnson Jr. R, Anand S. Metal stent palliation of incurable lung carcinoma (AJR IR TBS series).

Dooley C, vanSonnenberg E. Bryan Mulreany — liver ablation (AJR IR series).

Hagman J, Walser E, McIntyre K, Mader J, vanSonnenberg E. Aortic mycotic aneurysm following placement of iliac metallic stent. (AJR IR series).

Hootman K, vanSonnenberg E, McNees S, Welch L. C-Spine studies in the ER.

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Chaljub G, Suominen D, vanSonnenberg E, Hendrick E, Orihuela E, Neal D, Warren M. MRI after cryotherapy for prostate carcinoma: findings and implications.

vanSonnenberg E, Goodacre B, Wittich G, Chaljub G, D'Agostino H, Hannigan E, McNees S, Singh H, Casola G. Interventional radiology for gynecologic and obstetric disorders.

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vanSonnenberg E, Goodacre BW, Wittich GR. Doc catheter paper.

vanSonnenberg E, Goodacre BW, Wittich GR, Orihuela E, Chaljub G, Hadjipavlou A, Allen G, Mallett J. New uses of image guided cryotherapy.

Esch O, vanSonnenberg E, Goodacre B, Payan C, Wittich G, Zwischenberger J. Radiofrequency of the lung: experimental study.

Goodacre BW, vanSonnenberg E, et al. Lap chole gallstone abscess.
Esch O, Goodacre B, vanSonnenberg E. Minimally invasive laser treatment of ovine lung tumors under MR guidance: observations in vitro and in vivo.

Johnson RF, Goodacre BW, Wittich GR, vanSonnenberg E. Resident, fellow, and student training in 3-D image processing.

Escamilla B, vanSonnenberg E. Radiographic improvement program.

Chon KS, vanSonnenberg E. Pancreatic CT.

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vanSonnenberg E, Hadjipavlou A, Esch O, Nicodemus N, Payan C, Goodacre. Cryotherapy of the spine: experimental study.

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Wittich GR, vanSonnenberg E. Mammo paper.

Payan C, Hootman K, vanSonnenberg E. C-Spine II paper.

Esch, Chaljub, vanSonnenberg. Speech recognition for radiology reporting: conversion of a large academic radiology department.

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Kennedy P, vanSonnenberg. Blinded cyto.

Goodacre B, vanSonnenberg E, Wittich GR. Hepatocellular carcinoma 2000: update on the bad news and the good news.

Wittich GR, vanSonnenberg E, et. al. 3D CT bronchial paper.

Chaljub G, vanSonnenberg E, Johnson Jr RF. Accidents and incidents in MRI: a questionnaire.

Wittich GR, vanSonnenberg E. Workforce paper.

Burdick T, vanSonnenberg E. 22g needle complications paper.

Kennedy P, vanSonnenberg E. Urinary leaks.

Wittich GR, vanSonnenberg E. Mediastinal abscess paper.

Haughland G, vanSonnenberg E, Carr-Locke D. O'Neil paper.

Urman R, vanSonnenberg E, Chen Y, C/O Transitional Cell Carcinoma post laser.

Shankar S, Liu F, vanSonnenberg E. Measurements in CT for Oncology.

Israel D, Shankar S, vanSonnenberg E. PET/MR Post RFA

Tuncali K, Shankar S. CT/MRI post ablation

DiPiro P, vanSonnenberg E. CT readings not the same

Oei T, vanSonnenberg E. Hepatic AML

Liu F, vanSonnenberg E. Burke Paper

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Liu F, vanSonnenberg E. Hyperbilirubinemia Following Tumor Ablation Therapy

Liu F, vanSonnenberg E. Technical Innovation Loin Paper

Tuncali K, vanSonnenberg E. Lawrence Genen. Down the shaft technique

Auger J, vanSonnenberg E. PAD Paper

Neyman E, vanSonnenberg E. Percutaneous image-guided biopsy of liver parenchyma.

Ge T, vanSonnenberg E. Why biopsy results are negative.

Saghari H, Ornstein S, Crum C, vanSonnenberg E. Appendicitis paper.

Hedayati P, vanSonnenberg E. Neurological complications post ablation.

Gosalia R, vanSonnenberg E. Triple Guidance paper.

Linstrom N, vanSonnenberg E. Ablation in an Academic Community Hospital.

Oyola E, vanSonnenberg, Goldstein N, Santos R. Fiducial PTX paper.

Mamlouk MD, vanSonnenberg E. Alcohol in the RFA Era.

Schraml F, vanSonnenberg E. Psychological Effects of Tumor Ablation.

Dehkharghani S, Moore M, Oyola E, Hibner M, vanSonnenberg E. ACOG Pudendal.

Linstrom N, Schraml F, Goldstein N, vanSonnenberg E. PET/CT Pre & Post Ablation.

Teuma I, vanSonnenberg E, Shah R, Dorriz P, Yakoub G,. Unusual Leiomyosarcoma.

Crawford D, Cottrell J, vanSonnenberg E, Trang T. Metastatic prostate cancer and tumor ablation of right mandible with neurolysis of alveolar nerve in the mandibular condyle case report.

Mamlouk MD, vanSonnenberg E. Radiology reporting

Teuma I, Chopra S, Vithalani P, Trobisch J, Munoz A, Pearlman J, Yakoub G, Olak J, vanSonnenberg E. Case of a hemithoracic cyst compressing and displacing the heart.

Kishi P, vanSonnenberg E. Life threatening pancreatitis in 144ôle144ah's Witnesses patients treated by Interventional Radiology (2014-)

Campbell D, vanSonnenberg E. "Down the Shaft" Cryotherapy to Treat Metastatic Mesothelioma (2014-)

Intwala D, vanSonnenberg E, Hibner M. Long term follow-up of patients with Pudendal Neuralgia (2014-)

Crawford D, vanSonnenberg. Antibiotics in Radiologic Renal Ablation—an analysis & review. (2016-)

Eid T, vanSonnenberg E, Mystry P. Comprehensive Analysis of Medical Abstract Writing. (2016-)

Kang P, vanSonnenberg E, McEchron M. The Role of a Statistician in the Scholarly Project Program. (2016-)

Mistry P, vanSonnenberg E. Medical School Interest Groups

Albert D, vanSonnenberg E, Cheung P, Crawford, You Wouldn't Know Medical School...

Mamlouk M, vanSonnenberg E, Crawford D, Cheung P ; Engineers in Medicine

LECTURES

- L1 “Treatment of Major Hypotensive Reactions Due to Intravenous Contrast, With Emphasis on Volume Therapy—8 Year Review Including 50 Patients”. Radiology Grand Rounds, Massachusetts General Hospital, Boston, MA (January 1978).
- L2 “US and CT Diagnosis of Intra-abdominal Abscesses”. Harvard Medical School Course in Abdominal Radiology, Boston, MA (May 1980).
- L3 “Abdominal CBT in Clinical Medical Practice”. Massachusetts General Hospital Internal Medicine Lecture Series Boston, MA (11/79).
- L4 “Abdominal Tumor Biopsy Techniques”. Harvard Medical School Course in Abdominal Radiology, Boston, MA (May 1980).
- L5 “Treatment of Major Hypotensive Reactions Due to Intravenous Contrast, with Emphasis on Volume Therapy—8 Year Review Including 50 Patients”. Harvard Medical School Course in Abdominal Radiology, Boston, MA (5/80).
- L6 “Percutaneous Abscess Drainage”. Harvard Medical School Course in Abdominal Radiology, Boston, MA (5/81).
- L7 “CT Diagnosis of Abscesses”. Harvard Medical School Course in Abdominal Radiology, Boston, MA (5/81).
- L8 “Ultrasound of the Liver”. Harvard Medical School Course in Abdominal Radiology, Boston, MA (5/81).
- L9 “Fluid Therapy of Major Hypotensive Intravenous Contrast Reactions”. Harvard Medical School Course in Abdominal Radiology, Boston, MA (5/81).
- L10 “Anatomy of the Abdomen by Cross-sectional Imaging”. Harvard Medical School Course in Abdominal Radiology, Boston, MA (5/81).
- L11 “Percutaneous Abscess Drainage”. Annual UCSD Radiology Course, San Diego, CA (10/81).
- L12 “Percutaneous Biopsy”. Annual UCSD Radiology Course, San Diego, CA (10/81).
- L13 “CT for Internists”. Paradise Valley Community Hospital, San Diego, CA (10/81).
- L14 “Interventional Radiology”. Surgical Grand Rounds, UCSD Dept. of Surgery, San Diego, CA (12/81).

- L15 "Percutaneous Abscess Drainage". Sacramento Ultrasound Society, Sacramento, CA (12/81).
- L16 "Guided Biopsy Techniques in Oncology". Oncology Grand Rounds, UCSD, San Diego, CA (1/82).
- L17 "Abdominal Radiology in the Emergency Room". UCSD Emergency Medicine Course, San Diego, CA (1/82).
- L18 "CT in Oncology Practice". Oncology for Internists Course, Dept. of Medicine, UCSD, San Diego, CA (2/82).
- L19 "Interventional Radiology". Annual UCSD Radiology Review Course, San Diego, CA (3/82).
- L20 "Percutaneous Transhepatic Cholangiography". Dept. of Radiology, Gastrointestinal Radiology Course, UCSD San Diego, CA (3/82).
- L21 "Percutaneous Biliary Drainage". Dept. of Radiology, Gastrointestinal Radiology Course, UCSD, San Diego, CA (3/82).
- L22 "Percutaneous Biopsy". UCSD, Dept. of Radiology, Gastrointestinal Radiology Course, San Diego, CA (3/82).
- L23 "Percutaneous Abscess Drainage". UCSD, Dept. of Radiology Gastrointestinal Radiology Course, San Diego, CA (3/82).
- L24 "Relevant Cross-sectional Anatomy in Clinical Practice". Dept. of Radiology Gastrointestinal Radiology Course, UCSD, San Diego, CA (3/82).
- L25 "Percutaneous Abscess Drainage". Harvard Medical School Course in Abdominal Radiology, Boston, MA (5/82).
- L26 "The Problems of Percutaneous Abscess Drainage". Harvard Medical School Course in Abdominal Radiology, Boston, MA (5/82).
- L27 "The Treatment of Major Hypotensive Contrast Reaction with Emphasis on Volume Therapy". Harvard Medical School Course in Abdominal Radiology, Boston, MA (5/82).
- L28 "Real Time Ultrasonography". University of California at Irvine Course, Clinical Applications of New Imaging Modalities, Long Beach, CA (7/82).
- L29 "Percutaneous Transhepatic Cholangiography". Annual Roentgen Revisited Course sponsored by UCSD and German Radiologic Society, Munich, West Germany (8/82).

- L30 "Percutaneous Biliary Drainage". Annual Roentgen Revisited Course sponsored by UCSD and German Radiologic Society, Munich, West Germany (8/82).
- L31 "CT Diagnosis of Abscesses". Annual Roentgen Revisited Course sponsored by UCSD and German Radiologic Society, Munich, West Germany (8/82).
- L32 "Percutaneous Abscess Drainage". Annual Roentgen Revisited Course sponsored by UCSD and German Radiologic Society, Munich, West Germany (8/82).
- L33 "Abdominal Anatomy and Fluid Dynamics". Annual Roentgen Revisited Course sponsored by UCSD and German Radiologic Society, Munich, West Germany (8/82).
- L34 "Percutaneous Biopsy". Annual Roentgen Revisited Course sponsored by UCSD and German Radiologic Society, Munich, West Germany (8/82).
- L35 "Removal of Retained Common Duct Stones". Annual Roentgen Revisited Course sponsored by UCSD and German Radiologic Society, Munich, West Germany (8/82).
- L36 "Problems and New Concepts in Percutaneous Abscess Drainage". San Diego Radiologic Society, San Diego, CA (9/82).
- L37 "Interventional Radiology". Kaiser Permanente Hospital, San Diego, CA (9/82).
- L38 "Ultrasound and CT in Clinical Medical Practice". Course in Internal Medicine sponsored by Dept. of Medicine, UCSD, San Diego, CA (9/82).
- L39 "CT of Pancreatic Cancer". Practical Gastroenterology and Flexible Sigmoidoscopy for the Primary Care Physician. San Diego, CA (10/22-24/82).
- L40 "Clinically Relevant Abdominal Anatomy". Practical Gastroenterology and Flexible Sigmoidoscopy for the Primary Care Physician. San Diego, CA (10/22-24/82).
- L41 "Abscess—Detection, Diagnosis, and Percutaneous Drainage". Practical Gastroenterology and Flexible Sigmoidoscopy for the Primary Care Physician. San Diego, CA (10/22-24/82).
- L42 "Percutaneous Transhepatic Cholangiography," and panel. The Seventh Annual San Diego Postgraduate Radiology Course, San Diego, CA (10/25-28/82).
- L43 "Interventional Radiology CT and US Techniques". The Seventh Annual San Diego Postgraduate Radiology Course, San Diego, CA (10/25-28/82).

- L44 "Percutaneous Abscess and Fluid Drainage". The Seventh Annual San Diego Postgraduate Radiology Course, San Diego, CA (10/25-28/82).
- L45 "Percutaneous Guided Biopsy". Edward C. Christensen Memorial Postgraduate Diagnostic Radiology Seminar, Dallas, TX (10/29-31/82).
- L46 "Transhepatic Cholangiography and Biliary Drainage". Edward C. Christensen Memorial Postgraduate Diagnostic Radiology Seminar, Dallas, TX (10/29-31/82).
- L47 "Percutaneous Abscess Drainage". Edward C. Christensen Memorial Postgraduate Diagnostic Radiology Seminar, Dallas, TX (10/29-31/82).
- L48 "Interventional Radiology and Cancer". Jacksonville Baptist Medical Center, Jacksonville, FL (11/2-5/82).
- L49 "Newer Invasive Diagnostic and Therapeutic Procedures". Scripps Memorial Hospital, San Diego, CA (11/16/82).
- L50 "Abscess Drainage". CT Anatomy and Techniques Course at Hoag Memorial Hospital, Newport Beach, CA (12/11/82).
- L51 "Emergency Room Radiology of the Abdomen". UCSD Emergency Room Radiology Course — San Diego, CA (12/1-17/82).
- L52 "CT of Pancreatic Neoplasms". San Diego Imaging Symposium, San Diego, CA (1/10-13/83).
- L53 "Intraperitoneal Anatomy and Fluid Pathways". San Diego Imaging Symposium, San Diego, CA (1/10-13/83).
- L54 "Management of Abdominal Abscess". San Diego Imaging Symposium, San Diego, CA (1/10-13/83).
- L55 "Percutaneous Abscess Drainage". Second Annual Japan Imaging Conference, Tokyo, Japan (1/20/83).
- L56 "Technique, Problems, and New Areas in Percutaneous Abscess Drainage". Grand Rounds — Kyoto University School of Medicine, Kyoto, Japan (1/24/83).
- L57 "Interventional Radiology". Nagoya University School of Medicine, Nagoya, Japan (1/25/83).
- L58 "Clinical Abdominal Anatomy". San Diego Radiological Society, San Diego, CA (2/2/83).

- L59 "Problems and New Concepts in Percutaneous Abscess Drainage". Radiology Grand Rounds, University of Kansas Medical Center, Kansas City, KS (2/3/83).
- L60 "Radiologic Anatomy of the Abdomen". Greater Kansas City Radiologic Society, Kansas City, KS (2/3/83).
- L61 "Percutaneous Transhepatic Cholangiography and Biliary Drainage". Radiological Winter Continuing Education Program, Bowman Gray School of Medicine, Wake Forest University, Winston-Salem, NC, held at Puerto Villarta, Mexico (2/13-18/83).
- L62 "CT and Ultrasound of the Kidney, Retroperitoneum and Pelvis". Radiological Winter Continuing Education Program, Bowman Gray School of Medicine, Wake Forest University, Winston-Salem, NC, held at Puerto Villarta, Mexico (2/13-18/83).
- L63 "Abscess Detection and Percutaneous Drainage by CT and Ultrasound Guidance". Radiological Winter Continuing Education Program, Bowman Gray School of Medicine, Wake Forest University, Winston-Salem, NC, held at Puerto Villarta, Mexico (2/13-18/83).
- L64 "CT and Ultrasound of the Kidney and Retroperitoneum". The Radiological Society of Southern California, Indian Wells, CA (2/19-20/83).
- L65 "Percutaneous Drainage of Abdominal Fluid Collections". The Radiological Society of Southern California, Indian Wells, CA (2/19-20/83).
- L66 "Diagnostic Pathways in Abdominal Disease—Abdominal Abscess". The California Medical Assoc. 112th Annual Session, Los Angeles, CA (3/12/83).
- L67 "Percutaneous Abscess and Fluid Drainage—Problems and New Concepts". Univ. of California, Davis, Radiology Grand Rounds, Sacramento, CA (3/23/83).
- L68 "Percutaneous Biopsy and Abscess Drainage Techniques". Balboa Naval Hospital Surgical/Radiologic Grand Rounds, San Diego, CA (3/31/83).
- L69 "The Pancreas and the Retroperitoneum". Third Annual Residents' Radiology Review Course, San Diego, CA (4/12/83).
- L70 "Interventional Radiology for the Boards". Third Annual Residents' Radiology Review Course, San Diego, CA (4/12/83).
- L71 "The Role of Interventional Radiology in Early Cancer Diagnosis". UCSD Dept. of Family Medicine Course: The Primary Care Physician and Cancer: Prevention, Early Detection, and Treatment, San Diego, Vacation Village Hotel, San Diego, CA (4/22/83).

- L72 "Abscess — CT/US Detection, Diagnosis, Aspiration, and Catheter Drainage". 1983 Annual Meeting California Radiological Society, Del Monte Hyatt Hotel, Monterey, CA (5/13-15/83).
- L73 "Percutaneous Biopsy by US and CT Guidance—Indications and Techniques". 1983 Annual Meeting California Radiological Society, Del Monte Hyatt Hotel, Monterey, CA (5/13-15/83).
- L74 "Interventional Radiology in the United States". University of Madrid School of Medicine, First of October Hospital, Madrid, Spain,(5/31/83).
- L75 "Interventional Radiology in the Ileitis-Colitis Patient". National Fellowship of Ileitis-Colitis Meeting, San Diego, CA (6/29/83).
- L76 "Emergency Room Radiology of the Abdomen". UCSD Emergency Room Radiology Course — San Diego, CA (7/28/83).
- L77 "Relevant Abdominal Anatomy in Clinical Radiology". Radiology of the Abdomen Including the Gastrointestinal and Genitourinary Tracts: Emphasis on X-Sectional Imaging, Interventional Radiology, and NMR, Hotel Del Coronado, Coronado, CA (8/22/83).
- L78 "CT Diagnosis of Abscesses". Radiology of the Abdomen Including the Gastrointestinal and Genitourinary Tracts: Emphasis on X-Sectional Imaging, Interventional Radiology, and NMR, Hotel Del Coronado, Coronado, CA (8/23/83).
- L79 "CT and US Guided Techniques for Fluid Aspiration". Radiology of the Abdomen Including the Gastrointestinal and Genitourinary Tracts: Emphasis on X-Sectional Imaging, Interventional Radiology, and NMR, Hotel Del Coronado, Coronado, CA (8/23/83).
- L80 "Percutaneous Abscess Drainage". Radiology of the Abdomen Including the Gastrointestinal and Genitourinary Tracts: Emphasis on X-Sectional Imaging, Interventional Radiology, and NMR, Hotel Del Coronado, Coronado, CA (8/23/83).
- L81 "More Biopsy and Abscess Techniques". Radiology of the Abdomen Including the Gastrointestinal and Genitourinary Tracts: Emphasis on X-Sectional Imaging, Interventional Radiology, and NMR, Hotel Del Coronado, Coronado, CA (8/24/83).

- L82 “Do’s and Don’ts in Treating Contrast Reactions”. Radiology of the Abdomen Including the Gastrointestinal and Genitourinary Tracts: Emphasis on X-Sectional Imaging, Interventional Radiology, and NMR, Hotel Del Coronado, Coronado, CA (8/25/83).
- L83 “US and CT of Lymphoma”. Radiology of the Abdomen Including the Gastrointestinal and Genitourinary Tracts: Emphasis on X-Sectional Imaging, Interventional Radiology, and NMR, Disneyland Hotel, Anaheim, CA (8/26/83).
- L84 “Percutaneous Removal and Dissolution of Retained Biliary Stones”. Radiology of the Abdomen Including the Gastrointestinal and Genitourinary Tracts: Emphasis on X-Sectional Imaging, Interventional Radiology, and NMR, Disneyland Hotel, Anaheim, CA (8/26/83).
- L85 “Percutaneous Biopsy by CT and Ultrasound Guidance”. Radiology of the Abdomen Including the Gastrointestinal and Genitourinary Tracts: Emphasis on X-Sectional Imaging, Interventional Radiology, and NMR, Disneyland Hotel, Anaheim, CA (8/26/83).
- L86 “Percutaneous Abscess Drainage”. Medical/Surgical Grand Rounds, Community Hospital of Chula Vista, Chula Vista, CA (9/12/83).
- L87 “Diagnosis and Treatment of Abscesses by Sonographic Guidance — Refresher Course”. The Society of Gastrointestinal Radiologists 13th Annual Meeting and Postgraduate Course, Southampton Princess Hotel, Southampton, Bermuda (10/22/83).
- L88 “Interventional Radiology in the Biliary Tract”. The Eighth Annual San Diego Postgraduate Radiology Course, Hotel Del Coronado, Coronado, CA (10/25/83).
- L89 “Management of Abdominal Abscesses”. The Eighth Annual San Diego Postgraduate Radiology Course, Hotel Del Coronado, Coronado, CA (10/25/83).
- L90 “Refresher Course #309 Roundtable Practicum Techniques in Drainage of Abdominal Abscess and Fluid Collections”. 69th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, (11/13-18/83).
- L91 “Refresher Course #409 Roundtable Practicum: Techniques in Needle Aspiration of Abdominal Tumors and Fluid Collections”. 69th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, (11/13- 18/83).
- L92 “Percutaneous Abscess Drainage”. Surgical Grand Rounds, St. Joseph’s Hospital, Orange, CA, (11/23/83).

- L93 “What’s New in Gastroenterology — Interventional Radiologic Techniques”. Southern California Society of Gastrointestinal Assistants at Alvarado Hospital, (12/3/83).
- L94 “Percutaneous Drainage of Abscesses”. Surgical Trends for the ‘80s, UCLA/Searle Postgraduate Course, Sheraton Universal Hotel, Universal City, CA (12/9/83).
- L95 “Diagnosis and Radiologic Management of Abscesses”. Surgical Grand Rounds, Kern Medical Center, Bakersfield, CA (2/1/84).
- L96 “New Techniques in Interventional Radiology”. Surgical Grand Rounds, UCSD Medical Center, San Diego, CA (2/8/84).
- L97 “Ultrasound of the Kidney and Retroperitoneum”. Sierra Radiology Conference, University of California-Davis, Granlibakken, Lake Tahoe, CA (3/7-9/84).
- L98 “New Techniques in the Biliary Tract”. Sierra Radiology Conference, University of California-Davis, Granlibakken, Lake Tahoe, CA (3/7-9/84).
- L99 “Emergency Room Radiology of the Abdomen”. UCSD Emergency Room Course — San Diego, CA (3/16/84).
- L100 “Newer Radiologic Techniques in GI Bleeding”. Gastroenterology for Clinicians—Learning in the Sun, The David C. H. Sun, M.D. Memorial Institute and the University of Arizona College of Medicine, Scottsdale Hilton, Scottsdale, AZ (3/21-23/84).
- L101 “New Radiologic Techniques for the Biliary Tract”. Gastroenterology for Clinicians—Learning in the Sun, The David C. H. Sun, M.D. Memorial Institute and the University of Arizona College of Medicine, Scottsdale Hilton, Scottsdale, AZ (3/21-23/84).
- L102 “A Look Ahead—What’s on the Horizon”. Gastroenterology for Clinicians, The David C. H. Sun, M.D. Memorial Institute and the University of Arizona College of Medicine, Scottsdale Hilton, Scottsdale, AZ (3/21-23/84).
- L103 “New Techniques and Controversies in Ultrasound and CT- Guided Interventional Radiology”. Phoenix Radiological Society, Kent Towers, Phoenix, AZ (4/26/84).
- L104 “The Daily Role of Interventional Radiology for the Clinician”. Medical/Surgical Grand Rounds, Maricopa Medical Center, Phoenix, AZ (4/27/84).
- L105 “Relevant Abdominal Anatomy”. Fourth Annual San Diego Radiology Residents’ Review Course, Town and Country Hotel, San Diego, CA (5/2/84).

- L106 "CT of the Pancreas and the Retroperitoneum". Fourth Annual San Diego Radiology Residents' Review Course, Town and Country Hotel, San Diego, CA (5/2/84).
- L107 "Interventional Radiology". Fourth Annual San Diego Radiology Residents' Review Course, Town and Country Hotel, San Diego, CA (5/2/84).
- L108 "Abscess Detection by CT and Ultrasonography". Fifth Annual Abdominal and Obstetrical Imaging Symposium Update, UCSD, Hotel Inter-Continental, San Diego, CA (5/9/84).
- L109 "Percutaneous Abscess Drainage". Fifth Annual Abdominal and Obstetrical Imaging Symposium Update, UCSD, Hotel Inter-Continental, San Diego, CA (5/9/84).
- L110 "Catheter Selection and Insertion Techniques for Percutaneous Abscess and Fluid Drainage". Advances in Abdominal Radiology: Interventional Techniques, Harvard Medical School, Marriott Waterfront Hotel, Boston, MA (5/16- 18/84).
- L111 "Interventional Radiology for Complications of Pancreatitis". Advances in Abdominal Radiology: Interventional Techniques, Harvard Medical School, Marriott Waterfront Hotel, Boston, MA (5/16-18/84).
- L112 "High Biliary Obstruction and Left-Sided Biliary Drainage". Advances in Abdominal Radiology: Interventional Techniques, Harvard Medical School, Marriott Waterfront Hotel, Boston, MA (5/16-18/84).
- L113 "Percutaneous Gastrostomy". Advances in Abdominal Radiology: Interventional Techniques, Harvard Medical School, Marriott Waterfront Hotel, Boston, MA (5/16-18/84).
- L114 "Pitfalls in Diagnostic Fluid Aspiration". Advances in Abdominal Radiology: Interventional Techniques, Harvard Medical School, Marriott Waterfront Hotel, Boston, MA (5/16- 18/84).
- L115 "Complications and Long Term Catheter Care in Percutaneous Biliary Drainage". Advances in Abdominal Radiology: Interventional Techniques, Harvard Medical School, Marriott Waterfront Hotel, Boston, MA (5/16-18/84).
- L116 "Complicated Biliary Cases". Panel Discussion, Frank Moody, M.D. and Marvin Gleidman, M.D., Moderators. International Biliary Society, Shamrock Hilton, Houston, TX (5/19/84).
- L117 "The Role of Interventional Radiology in Early Cancer Diagnosis". Current Concepts in Cancer: Prevention, Early Detection and Treatment, UCSD Department of Community and Family Medicine, San Diego, CA (5/20/84).

- L118 "Interventional Radiology in Pediatric Patients". Pediatric Grand Rounds, UCSD Medical Center, San Diego, CA (5/22/84).
- L119 "Percutaneous Drainage of Lung Abscess and Empyema". Surgery Grand Rounds, UCSD Medical Center, San Diego, CA (5/24/84).
- L120 "Clinically Relevant Abdominal Anatomy". Radiology in Scandanavia, Hotel d'Angleterre, Copenhagen, Denmark (6/13/84).
- L121 "Percutaneous Abscess Drainage". Radiology in Scandanavia, Hotel Sergel Plaza, Stockholm, Sweden (6/18/84).
- L122 "Percutaneous Biliary Drainage". Radiology in Scandanavia, Hotel Sergel Plaza, Stockholm, Sweden (6/18/84).
- L123 "Percutaneous Transhepatic Cholangiography". Radiology in Scandanavia, Hotel Sergel Plaza, Stockholm, Sweden (6/18/84).
- L124 "Percutaneous Biliary Drainage". Radiology in Scandinavia, Meilahti University Hospital, Helsinki, Finland (6/20/84).
- L125 "Invasive Radiology: Diagnosis and Treatment in the Upper Abdomen". 2nd Annual Staff Postgraduate Course, Department of Medicine (6/26/84).
- L126 "Percutaneous Removal of Renal Stones". Urology Grand Rounds, UCSD Medical School, San Diego, CA (7/21/84).
- L127 "Mechanisms and Management of Life-Threatening Contrast Reactions". Radiology of the Abdomen, NMR (MRI), Cross-Sectional Imaging and Interventional Radiology, Hotel Del Coronado, Coronado, CA (8/21/84).
- L128 "What's New and Improved in Percutaneous Transhepatic Cholangiography". Radiology of the Abdomen, NMR (MRI), Cross-Sectional Imaging and Interventional Radiology, Hotel Del Coronado, Coronado, CA (8/22/84).
- L129 "Newer Interventional Radiology Techniques — Cholecystostomy, Gastrostomy, Pancreatic Ductography, and Thoracic Interventional Radiology". Radiology of the Abdomen, NMR (MRI), Cross-Sectional Imaging and Interventional Radiology, Hotel Del Coronado, Coronado, CA (8/22/84).
- L130 "Interventional Radiology in Inflammatory Pancreatic Disease". Radiology of the Abdomen, NMR (MRI), Cross-Sectional Imaging and Interventional Radiology, Hotel Del Coronado, Coronado, CA (8/23/84).

- L131 "CT of Pancreatic Neoplasms". Radiology of the Abdomen, NMR (MRI), Cross-Sectional Imaging and Interventional Radiology, Hotel Del Coronado, Coronado, CA (8/23/84).
- L132 "Role of Interventional Radiology in Diagnosis and Therapy". Advances in Internal Medicine Postgraduate Course, Sheraton-Harbor Island Hotel West, [an Diego, CA (9/3/84).
- L133 "Radiological Intervention Procedures". Panel Discussion—Percutaneous Biliary Drainage, Biliary Stone Management — 8th World Congress of the Collegium Internationale Chirurgiae Digestivae, Amsterdam, The Netherlands (9/11- 14/84).
- L134 Refresher Course "Percutaneous Abscess Drainage". Society of Gastrointestinal Radiologists 14th Annual Meeting and Postgraduate Course, Silverado Country Club, Napa Valley, CA (9/29-10/3/84).
- L135 "New Techniques and Controversies in Interventional Radiology". Florida Radiological Society, Jacksonville, FL (10/12/84).
- L136 "Percutaneous Nephrostomy". Florida Radiological Society, Jacksonville, FL (10/12/84).
- L137 "Newer Imaging and Interventional Techniques in Radiology, 1984". Practical Gastroenterology and Flexible Sigmoidoscopy for the Practicing Physician, Vacation Village, San Diego, CA (10/19/84).
- L138 "New Interventional Procedures". San Diego Postgraduate Radiology Course, Hotel Del Coronado, Coronado, CA (10/24/84).
- L139 "Biliary Interventions — An Update". San Diego Postgraduate Radiology Course, Hotel Del Coronado, Coronado, CA (10/24/84).
- L140 "CT of the Pelvis and Retroperitoneum". San Diego Postgraduate Radiology Course, Hotel Del Coronado, Coronado, CA (10/26/84).
- L141 "Intra-abdominal Abscesses and Fluid Collections". SGR Refresher Course, Society of Gastrointestinal Radiologists 14th Annual Meeting and Postgraduate Course, Silverado Country Club, Napa Valley, CA (9/29-10/3/84).
- L142 "Round Table Practicum: Techniques in Needle Aspiration of Abdominal Tumors and Fluid Collections". RSNA Refresher Course #509, 70th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Washington D.C., (11/25-30/84).

- L143 “Round Table Practicum: Techniques in Drainage of Abdominal Abscess and Fluid Collections”. RSNA Refresher Course #609, 70th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Washington D.C., (11/25-30/84).
- L144 “MRI of Tissues and Body Fluids”. Gastroenterology Update at Tahoe, Lake Tahoe, NV (1/8-11/85).
- L145 “Interventional Radiology in Inflammatory Pancreatic Disease”. Gastroenterology Update at Tahoe, Lake Tahoe, NV (1/8-11/85).
- L146 “Percutaneous Transhepatic Cholangiography — What’s New?”. Gastroenterology Update at Tahoe, Lake Tahoe, NV (1/8- 11/85).
- L147 “Invasive Radiologic Maneuvers”. Eighth Annual San Diego Postgraduate Assembly in Surgery, Sheraton Harbor Island-East, San Diego CA (1/21-25/85).
- L148 “Clinically Relevant Abdominal Anatomy”. Diagnostic Imaging Seminar, Rose Hall Beach Hotel, Montego Bay, Jamaica, (2/4- 9/85).
- L149 “Ultrasound and CT of Abscesses and Other Collections”. Diagnostic Imaging Seminar, Rose Hall Beach Hotel, Montego Bay, Jamaica, (2/4-9/85).
- L150 “Interventional Techniques, Basic to Advanced”. Diagnostic Imaging Seminar, Rose Hall Beach Hotel, Montego Bay, Jamaica, (2/4-9/85).
- L151 “Relevant Abdominal Anatomy”. Radiology of the Abdomen and Chest, Hotel InterContinental, San Diego, CA (2/11-15/85).
- L152 “CT and Ultrasound Guidance for Thoracic Biopsy and Drainage”. Radiology of the Abdomen and Chest, Hotel InterContinental, San Diego, CA (2/11-15/85).
- L153 “Current Percutaneous Biliary Techniques”. Radiology of the Abdomen and Chest, Hotel InterContinental, San Diego, CA (2/11-15/85).
- L154 “New Techniques in Interventional Radiology—Percutaneous Gastrostomy, Percutaneous Cholecystostomy, Celiac Ganglion Block, Percutaneous Pancreatic Ductography”. Radiology of the Abdomen and Chest, Hotel InterContinental, San Diego, CA (2/11-15/85).
- L155 “Mechanisms and Management of Life-Threatening Contrast Reactions”. Radiology of the Abdomen and Chest, Hotel InterContinental, San Diego, CA (2/11-15/85).
- L156 “Abscess and Fluid Diagnosis—A Role for MR?”. Radiology of the Abdomen and Chest, Hotel InterContinental, San Diego, CA (2/11-15/85).

- L157 "New Areas and Controversies in Interventional Therapy". Northwest Society of Radiology, University of Washington School of Medicine, Seattle, WA (2/16/85).
- L158 "Clinically Relevant Abdominal Anatomy". University of Washington Visiting Professor, Seattle, WA (2/16/85).
- L159 "The Radiology of Inflammatory Bowel Disease". Gastroenterology: "Staying on Tract," Southern California Society of Gastrointestinal Assistants, Placentia-Linda Community Hospital, Placentia, CA (3/2/85).
- L160 "Recent Applications of Abscess Drainage". Sierra Radiology Conference, Lake Tahoe, NV (3/6/85).
- L161 "CT of the Liver". Sierra Radiology Conference, Lake Tahoe, NV (3/6/85).
- L162 "Imaging of the Retroperitoneum". Sierra Radiology Conference, Lake Tahoe, NV (3/7/85).
- L163 "Urologic Trauma". Radiology for Emergency and Primary Care Physicians, Kauai, HI (4/14-19/85).
- L164 "Angiography in Trauma and Massive Hemorrhage". Radiology for Emergency and Primary Care Physicians, Kauai, HI (4/14- 19/85).
- L165 "Interpretation of Plain Films of the Abdomen". Radiology for Emergency and Primary Care Physicians, Kauai, HI (4/14- 19/85).
- L166 "CT and Ultrasound of the Abdomen". Radiology for Emergency and Primary Care Physicians, Kauai, HI (4/14-19/85).
- L167 "Percutaneous Abscess Drainage". Categorical Course — Annual Meeting of the American Roentgen Ray Society, Boston, MA, (4/23-25/85).
- L168 "The Pancreas and the Retroperitoneum". Fifth Annual San Diego Residents' Radiology Review Course", Town & Country Hotel, San Diego, CA, (4/29-5/3/85).
- L169 "Interventional Radiology". Fifth Annual San Diego Residents' Radiology Review Course, Town & Country Hotel, San Diego, CA, (4/29-5/3/85).
- L170 "New Techniques in Radiology". American College of Colon and Rectal Surgeons, Town & Country Hotel, San Diego, CA, (5/10/85).
- L171 "Ultrasound and CT Guided Percutaneous Punctures". A Practical Course on Interventional Radiology, University of Minnesota, Minneapolis, (7/25-27/85).

- L172 "New Techniques in Interventional Radiology". A Practical Course on Interventional Radiology, University of Minnesota, Minneapolis, (7/25-27/85).
- L173 "Echo-Guided Biopsies". A Practical Course on Interventional Radiology, University of Minnesota, Minneapolis, (7/25-27/85).
- L174 "Abscesses and Other Fluid Collections". Sonographers' Update and Review Course, The University of California, San Diego, School of Medicine, San Diego, California (8/31- 9/2/85).
- L175 "Interventional Ultrasound". Sonographers' Update and Review Course, The University of California, San Diego, School of Medicine, San Diego, California (8/31-9/2/85).
- L176 "Impact of Interventional Radiology on Clinical Medicine". Medical Grand Rounds, UCSD Medical Center, San Diego, California, (9/25/85).
- L177 "Diagnostic Methods in Biliary Tract Disease". Surgical Society of Baja California, Tijuana, B.C., (9/85).
- L178 "Radiological Management of Residual Calculi in the Common Duct. Surgical Society of Baja California, Tijuana, B.C., (9/85).
- L179 "New Techniques in Interventional Radiology". Radiology Grand Rounds, Brigham and Women's Hospital, Harvard Medical School, Boston, Mass., (10/85).
- L180 "Biliary Tract Complications and How to Avoid Them". Angiography and Interventional Radiology: 1985, Harvard Medical School, Boston, Mass., (10/15-18/85).
- L181 "Abdominal Mass Biopsy". Angiography and Interventional Radiology: 1985, Harvard Medical School, Boston, Mass., (10/15-18/85).
- L182 "Abscess Drainage Techniques". Angiography and Interventional Radiology: 1985, Harvard Medical School, Boston, Mass., (10/15-18/85).
- L183 "Abscess Drainage". Angiography and Interventional Radiology: 1985, Harvard Medical School, Boston, Mass., (10/15-18/85).
- L184 "Biliary Drainage". Angiography and Interventional Radiology: 1985, Harvard Medical School, Boston, Mass., (10/15-18/85).
- L185 "GI Radiology". Practical Gastroenterology and Flexible Sigmoidoscopy for the Practicing Physician, University of California, San Diego, School of Medicine, San Diego, CA, (10/18-20/85).

- L186 "Newer Imaging and Interventional Techniques in Radiology, 1985". Practical Gastroenterology and Flexible Sigmoidoscopy for the Practicing Physician, University of California, San Diego, School of Medicine, San Diego, CA, (10/18-20/85).
- L187 "Newer Techniques in Interventional Radiology". Western Angiographic and Interventional Society, Santa Barbara, CA, (10/19-20/85).
- L188 "Current Concepts of Pancreatic Drainage". Western Angiographic and Interventional Society, Santa Barbara, CA, (10/19-20/85).
- L189 "Imaging and Intervention for Pancreatic Carcinoma". The Tenth Annual San Diego Postgraduate Radiology Course, University of California, San Diego, School of Medicine, San Diego, CA, (10/28-11/1/85).
- L190 "Thoracic Interventional Procedures". The Tenth Annual San Diego Postgraduate Radiology Course, University of California, San Diego, School of Medicine, San Diego, CA, (10/28-11/1/85).
- L191 "New Techniques in Interventional Radiology". The Tenth Annual San Diego Postgraduate Radiology Course, University of California, San Diego, School of Medicine, San Diego, CA, (10/28-11/1/85).
- L192 "Percutaneous Diagnosis and Treatment of Amebic Abscess". University of California, San Diego, Department of Medicine, San Diego, CA, Infectious Disease Grand Rounds (12/5/85).
- L193 "Interventional Chest Procedures Under Imaging Control, Emphasizing Inflammatory Diseases". Chest Imaging — (PRE) 1986, The University of California, San Diego School of Medicine, San Diego, CA (12/9-12/85).
- L194 "Emergency Room Radiology of the Abdomen". Postgraduate Institute for Emergency and Primary Care Physicians, Symposium II, The University of California, San Diego School of Medicine, San Diego, CA (12/9-13/85).
- L195 "New Concepts in Interventional Radiology". Mission Community Hospital, Mission Viejo, CA (12/17/85).
- L196 "Recent Advances in Ultrasound". Radiology Society of India, New Delhi, India (1/7/86).
- L197 "Interventional Studies in the Liver, Gallbladder and Pancreas". Radiology Society of India, New Delhi, India (1/7/86).

- L198 "Interventional Radiology in the GI Tract and Pancreas". Radiology Society of India, Madras, India (1/11/86).
- L199 "Clinical Applications of Ultrasound". Radiology Society of India, Madras, India (1/11/86).
- L200 "Current Techniques in Percutaneous Guided Biopsy". Radiology Society of India, Bombay, India (1/14/86).
- L201 "Interventional Radiology in the Abdomen". Radiology Society of India, Bombay, India (1/14/86).
- L202 "Ultrasonography — An Update". Radiology Society of India, Bombay, India (1/14/86).
- L203 "Advances in Interventional Radiology". Radiology Society of India, Jaipur, India (1/18/86).
- L204 "New Procedures and Controversial Topics in GI Radiology". Society of Gastrointestinal Radiology, Acapulco, Mexico (1/21-24/86).
- L205 "Imaging and Intervention of Pancreatic Inflammatory Disease". Los Angeles Radiological Society, Los Angeles, CA (1/31-2/2/86).
- L206 "Current Concepts in Imaging and Intervention in the Biliary Tract". Los Angeles Radiological Society, Los Angeles, CA (1/31-2/2/86).
- L207 "Treatment of Life-Threatening Contrast Reactions". Los Angeles Radiological Society, Los Angeles, CA (1/31-2/2/86).
- L208 "Radiologic Percutaneous Gastrostomy". Radiology Imaging and Intervention, University of California, San Diego, School of Medicine, San Diego, CA (2/3-7/86).
- L209 "Interventional Radiology in the Gallbladder: Diagnosis, Drainage, Dissolution of Stones". Radiology Imaging and Intervention, University of California, San Diego, School of Medicine, San Diego, CA (2/3-7/86).
- L210 "Interventional Radiology in the Chest". Radiology Imaging and Intervention, University of California, San Diego, School of Medicine, San Diego, CA (2/3-7/86).
- L211 "Biliary — Intervention". Radiology Imaging and Intervention, University of California, San Diego, School of Medicine, San Diego, CA (2/3-7/86).

- L212 "Biopsy — Ultrasound Guidance". Radiology Imaging and Intervention, University of California, San Diego, School of Medicine, San Diego, CA (2/3-7/86).
- L213 "Pancreatic Inflammation — Intervention". Radiology Imaging and Intervention, University of California, San Diego, School of Medicine, San Diego, CA (2/3-7/86).
- L214 "Mechanisms and Management of Life-Threatening Contrast Reactions". Radiology Imaging and Intervention, University of California, San Diego, School of Medicine, San Diego, CA (2/3-7/86).
- L215 "MR of the Abdomen". Radiology Imaging and Intervention, University of California, San Diego, School of Medicine, San Diego, CA (2/3-7/86).
- L216 "Non-traumatic Abdominal Radiography". Radiology for the Emergency and Primary Care Physician, Snowbird, Utah (2/10- 14/86).
- L217 "Radiology of Abdominal, Pelvic and Urologic Trauma". Radiology for the Emergency and Primary Care Physician, Snowbird, Utah (2/10-14/86).
- L218 "Biopsy: Ultrasound/CT". Vail Winter Imaging Seminar II, Vail, Colorado (2/15-22/86).
- L219 "Nephrostomy and Stone Extraction". Vail Winter Imaging Seminar II, Vail, Colorado (2/15-22/86).
- L220 "Interventions in the Biliary System". Vail Winter Imaging Seminar II, Vail, Colorado (2/16-22/86).
- L221 "Abscess Drainage". Vail Winter Imaging Seminar II, Vail Colorado (2/16-22/86).
- L222 "Interventional Techniques in the Genitourinary System". 5th Annual Diagnostic Imaging Comprehensive Update, Upstate Medical Center, Acapulco, Mexico (2/16-21/86).
- L223 "Biopsy of the Chest and Body (CT and Ultrasound Guidance)". 5th Annual Diagnostic Imaging Comprehensive Update, Upstate Medical Center, Acapulco, Mexico (2/16-21/86).
- L224 "Newer Concepts in Abscess and Fluid Diagnosis and Management". 5th Annual Diagnostic Imaging Comprehensive Update, Upstate Medical Center, Acapulco, Mexico (2/16- 21/86).

- L225 “Interventional Radiology: The Impact on Clinical Medicine”. Topics in Internal Medicine, University of California, San Diego School of Medicine, San Diego, CA (2/17-21/86).
- L226 “Interventional Radiology”. Orange County Radiological Society, University of California Medical Center, Irvine, CA (2/26/86).
- L227 “New Concepts in Percutaneous Abscess Drainage”. University of California, Irvine, Radiology Grand Rounds (2/26/86).
- L228 “Interventional Approach to Biliary Disorders”. Sierra Radiology Conference, Incline Village, NV (3/4-7/86).
- L229 “New Concepts in Percutaneous Abscess Drainage”. Sierra Radiology Conference, Incline Village, NV (3/4-7/86).
- L230 “Interventional Procedures in the Genitourinary Tract”. Sierra Radiology Conference, Incline Village, NV (3/4-7/86).
- L231 “Emergency Radiology of the Abdomen”. Postgraduate Institute for Emergency and Primary Care Physicians, Symposium II, University of California, San Diego School of Medicine , San Diego, CA (3/17-21/86).
- L232 “Interventional Radiology”. President’s and Sales Meeting, Cook Incorporated, Orlando, Florida (3/23-30/86).
- L233 “Interventional Ultrasound”. Seventh Annual Ultrasound Meeting, The Oregon Health Sciences University, Sunriver, Oregon (3/20-22/86).
- L234 “Biliary Tract: 1986”. Seventh Annual Ultrasound Meeting, The Oregon Health Sciences University, Sunriver, Oregon (3/20-22/86).
- L235 “Percutaneous Drainage of Periappendiceal Abscess in Children”. Pediatric Grand Rounds, University of California, San Diego, Medical Center, San Diego, California (4/1/86).
- L236 “New Frontiers for the Interventionalist”. Radiology of Hepatobiliary and Pancreatic Diseases: Imaging and Intervention, Department of Radiology of the University of Miami School of Medicine and the Jackson Memorial Medical Center, Miami, Florida (4/2-5/86).
- L237 “Correlative Imaging of Abdominal Infections — Radiology of Hepatobiliary and Pancreatic Diseases: Imaging and Intervention”. Department of Radiology of the University of Miami School of Medicine and the Jackson Memorial Medical Center, Miami, Florida (4/2-5/86).

- L238 "Radiology of Upper Abdominal Trauma". Radiology of Hepatobiliary and Pancreatic Diseases: Imaging and Intervention, Department of Radiology of the University of Miami School of Medicine and the Jackson Memorial Medical Center, Miami, Florida (4/2-5/86).
- L239 "Interventional Radiology of the Abdomen". (Refresher Course) American Roentgen Ray Society, Washington, D.C. (4/13-18/86).
- L240 "The Pancreas and Beyond". Sixth Annual San Diego Residents' Radiology Review Course, University of California, San Diego, School of Medicine, San Diego, California (4/27-5/2/86).
- L241 "Interventional Radiology". Sixth Annual San Diego Residents' Radiology Review Course, University of California, San Diego, School of Medicine, San Diego, California (4/27-5/2/86).
- L242 "Emergency Room Radiology of the Abdomen". Department of the Navy, Naval Hospital, Camp Pendleton, California (4/11/86).
- L243 "Percutaneous Gastrostomy: A New Technique". International Special Procedures Conference, Chicago, Illinois (5/12-15/86).
- L244 "Percutaneous Cholecystostomy: Current Update". International Special Procedures Conference, Chicago, Illinois (5/12-15/86).
- L245 "Percutaneous Removal of Biliary Stones". International Special Procedures Conference, Chicago, Illinois (5/12- 15/86).
- L246 "Percutaneous Gallbladder Procedures". Northwestern Memorial Hospital, Chicago, Illinois (5/13/86).
- L247 "Current Concepts in Percutaneous Abscess Drainage". Northwestern Memorial Hospital, Chicago, Illinois (5/13/86).
- L248 "Emergency Room Radiology of the Abdomen". Postgraduate Institute for Emergency and Primary Care Physicians, Symposium II, University of California, San Diego School of Medicine (8/18-22/86).
- L249 "Interventional Radiology". The 13th Annual Radiology Symposium, Kaiser Permanente, Anaheim, California (9/6/86).
- L250 "Imaging and Intervention in the Biliary Tree and Gallbladder". A Practical Course on Interventional Radiology, University of Minnesota, Minneapolis (9/8-12/86).

- L251 "Percutaneous Management of Complicated Pancreatitis". A Practical Course on Interventional Radiology, University of Minnesota, Minneapolis (9/8-12/86).
- L252 "Radiologic Management of Complicated Abscesses". A Practical Course on Interventional Radiology, University of Minnesota, Minneapolis (9/8-12/86).
- L253 "Sonographers Detection of Abscess and Other Fluid Collections". Sonographers Update and Review Course, University of California, San Diego School of Medicine (9/12-14/86).
- L254 "Interventional Ultrasound — The Role of the Sonographer". Sonographers Update and Review Course, University of California, San Diego School of Medicine (9/12-14/86).
- L255 "Radiologic Diagnosis and Drainage of Abdominal and Chest Abscesses". Imaging and Interventional Radiology in Chest, Abdomen, and Bone, Beijing, Peoples Republic of China (9/13- 23/86).
- L256 "Imaging and Intervention in the Pancreas". Imaging and Interventional Radiology in Chest, Abdomen, and Bone, Shanghai, Peoples Republic of China (9/13-23/86).
- L257 "Biliary (Ultrasound/CT) Imaging and Intervention". Imaging and Interventional Radiology in Chest, Abdomen, and Bone, Shanghai, Peoples Republic of China (9/13-23/86).
- L258 "Pancreatic Tumors: Imaging and Intervention". Imaging and Interventional Radiology in Chest, Abdomen, and Bone, Shanghai, Peoples Republic of China (9/13-23/86).
- L259 "Imaging and Interventional Inflammatory Pancreatic Disease". Imaging and Interventional Radiology in Chest, Abdomen, and Bone, Hong Kong, Peoples Republic of China (9/13-23/86).
- L260 "Imaging of Trauma". Imaging and Interventional Radiology in Chest, Abdomen, and Bone, Hong Kong, Peoples Republic of China (9/13-23/86).
- L261 "Intravenous Contrast Usage". Imaging and Interventional Radiology in Chest, Abdomen, and Bone, Bangkok, Peoples Republic of China (9/13-23/86).
- L262 "Mechanisms and Management of Contrast Reactions". Imaging and Interventional Radiology in Chest, Abdomen, and Bone, Bangkok, Peoples Republic of China (9/13-23/86).
- L263 "Abscess Drainage: Then and Now". Interventional Tutorial: Non-Vascular Techniques, Sharp Memorial Hospital, San Diego, California (9/24-26/86).

- L264 "Percutaneous Advances in Interventional Radiology". Southern California Interventional Radiology Society, Inglewood, California (10/2/86).
- L265 "Interventional Radiology in the Gallbladder: Diagnosis, Drainage, and Gallstone Dissolution". 11th Annual UCSD Postgraduate Course, University of California, San Diego School of Medicine (10/6-10/86).
- L266 "Controversies in Interventional Radiology". 11th Annual UCSD Postgraduate Course, University of California, San Diego School of Medicine (10/6-10/86).
- L267 "Thoracic Interventional Radiology". University of Virginia 9th Annual Postgraduate Radiology Course, Charlottesville, Virginia (10/6-8/86).
- L268 "New Techniques in Percutaneous Abscess Drainage". University of Virginia 9th Annual Postgraduate Radiology Course, Charlottesville, Virginia (10/6-8/86).
- L269 "Imaging and Intervention for Complications of Pancreatitis". University of Virginia 9th Annual Postgraduate Radiology Course, Charlottesville, Virginia (10/6-8/86).
- L270 "Abscess Diagnosis and Management". Angiography and Interventional Radiology: 1986, Harvard Medical School, Boston, Massachusetts (10/8-9/86).
- L271 "GI Techniques and Procedures". Angiography and Interventional Radiology: 1986, Harvard Medical School, Boston, Massachusetts (10/8-9/86).
- L272 "Current and New Approaches to Thoracic and Abdominal Drainage". Angiography and Interventional Radiology: 1986, Harvard Medical School, Boston, Massachusetts (10/8-9/86).
- L273 "Percutaneous Cholecystostomy and Stone Dissolution". Angiography and Interventional Radiology: 1986, Harvard Medical School, Boston, Massachusetts (10/8-9/86).
- L274 "Advances GU Tract". Angiography and Interventional Radiology: 1986, Harvard Medical School, Boston, Massachusetts (10/8-9/86).
- L275 "GI Radiology". Practical Gastroenterology and Flexible Sigmoidoscopy for the Practicing Physician, University of California, San Diego School of Medicine (10/17/86).
- L276 "Newer Imaging and Interventional Techniques in Radiology". Practical Gastroenterology and Flexible Sigmoidoscopy for the Practicing Physician, University of California, San Diego School of Medicine (10/17/86).

- L277 "New Topics in Interventional Radiology". Central Valley Radiology Society, Fresno, California (10/22/86).
- L278 "Imaging and Intervention in the Patient with Pancreatic Inflammation". UCSD Imaging Symposium, University of California, San Diego School of Medicine (10/30-11/4/86).
- L279 "Imaging and Intervention in the Chest". UCSD Imaging Symposium, University of California, San Diego School of Medicine (10/30-11/4/86).
- L280 "Advances in GI Interventional Radiology". George Jacobsen Memorial Lecture, Society of Graduate Radiologists and Faculty of LA County-USC Medical Center, Palm Springs, California (11/1-2/86).
- L281 "Advances in Interventional Procedures". Northern California Radiology Society, Sacramento, California (11/3/86).
- L282 "Imaging and Intervention in the Pancreas". Department of Radiology, UC Davis Medical Center (11/3/86).
- L283 "New Concepts in Percutaneous Abscess Drainage". Gastrointestinal Disease Course, Scottsdale, Arizona (11/14- 16/86).
- L284 "Percutaneous Gastrostomy/Gastroenterostomy". Gastrointestinal Disease Course, Scottsdale, Arizona (11/14- 16/86).
- L285 "Percutaneous Cholecystostomy: Diagnosis, Drainage, and Dissolution of Stones". Gastrointestinal Disease Course, Scottsdale, Arizona (19/14-16/86).
- L286 vanSonnenberg, E. "Advances in Interventional Radiology of the Abdomen". Refresher Course. The Radiological Society of North America, 72nd Scientific Assembly and Meeting, Chicago, Illinois, November 30-December 5, 1986.
- L287 "Treatment of Life-Threatening Contrast Reactions". Diagnostic Imaging 1986, Sao Paulo, Brazil (12/7-9/86).
- L288 "New Techniques in Interventional Radiology". Diagnostic Imaging 1986, Sao Paulo, Brazil (12/7-9/86).
- L289 "Chest Biopsy Using Ultrasound and CT". Diagnostic Imaging 1986, Sao Paulo, Brazil (12/7-9/86).
- L290 "Imaging and Intervention of Pancreatic Inflammatory Disease". Diagnostic Imaging 1986, Sao Paulo, Brazil (12/7- 9/86).
- L291 "Current Status of Interventional Techniques in the Urinary Tract". Diagnostic Imaging 1986, Sao Paulo, Brazil (12/7- 9/86).

- L292 "Small Parts Ultrasound". Diagnostic Imaging 1986, Sao Paulo, Brazil (12/7-9/86).
- L293 "Imaging and Intervention in the Spleen". Diagnostic Imaging 1986, Sao Paulo, Brazil (12/7-9/86).
- L294 "Small Parts Ultrasound". Diagnostic Imaging 1986, Mar Del Plata, Argentina (12/10-13/86).
- L295 "Imaging and Intervention in the Spleen". Diagnostic Imaging 1986, Mar Del Plata, Argentina (12/10-13/86).
- L296 "Treatment of Life-Threatening Contrast Reactions". Diagnostic Imaging 1986, Mar Del Plata, Argentina (12/10- 13/86).
- L297 "New Techniques in Interventional Radiology". Diagnostic Imaging 1986, Mar Del Plata, Argentina (12/10-13/86).
- L298 "Chest Biopsy Using Ultrasound and CT". Diagnostic Imaging 1986, Mar Del Plata, Argentina (12/10-13/86).
- L299 "Diagnosis and Treatment of Thoracic Abscesses and Fluid Collections". Diagnostic Imaging 1986, Mar Del Plata, Argentina (12/10-13/86).
- L300 "Imaging and Intervention of Pancreatic Inflammatory Disease". Diagnostic Imaging 1986, Mar Del Plata, Argentina (12/10-13/86).
- L301 "Current Status of Interventional Techniques in the Urinary Tract". Diagnostic Imaging 1986, Mar Del Plata, Argentina (12/10-13/86).
- L302 "Thoracic Biopsy". Advanced Seminars in Diagnostic Imaging, University of California San Diego, School of Medicine, Laguna Niguel, California (1/9-12/87).
- L303 "Percutaneous Abscess Drainage of Thoracic Collections". Advanced Seminars in Diagnostic Imaging, University of California San Diego, School of Medicine, Laguna Niguel, California (1/9-12/87).
- L304 "Interventional Techniques in the Pleura and Lung Periphery". Chest Imaging 1987, University of California San Diego, School of Medicine, Coronado, California (1/13-16/87).
- L305 "Biopsy of Pulmonary and Mediastinal Masses". Chest Imaging 1987, University of California San Diego, School of Medicine, Coronado, California (1/13-16/87).
- L306 "Percutaneous Gastrostomy and Imaging and Intervention in the Gallbladder". Colorado Radiological Society, Denver, Colorado (1/15/87).

- L307 "MR of the Abdomen". Colorado Radiological Society, Denver, Colorado (1/15/87).
- L308 "Complications of Interventional Radiology". Department of Radiology, University of Colorado Health Sciences Center, Denver Colorado (1/16/87).
- L309 "Percutaneous Transhepatic Cholecystostomy and Biliary Drainage". 10th Annual San Diego Postgraduate Assembly in Surgery, San Diego, California (1/19-23/87).
- L310 "Gallbladder: Diagnosis, Drainage, and Dissolution of Stones". 6th Annual University of California San Diego Radiology Imaging and Intervention, San Diego, California (2/2-6/87).
- L311 "Imaging and Intervention of the Pancreas and its Complications". 6th Annual University of California San Diego Radiology Imaging and Intervention, San Diego, California (2/2-6/87).
- L312 "Recognition and Treatment of Life-Threatening Contrast Reactions". 6th Annual University of California San Diego Radiology Imaging and Intervention, San Diego, California (2/2-6/87).
- L313 "US Guided Interventional Procedures". 6th Annual University of California San Diego Radiology Imaging and Intervention, San Diego, California (2/2-6/87).
- L314 "Imaging of Trauma". 6th Annual University of California San Diego Radiology Imaging and Intervention, San Diego, California (2/2-6/87).
- L315 "Interventional Radiology in the Chest". 6th Annual University of California San Diego Radiology Imaging and Intervention, San Diego, California (2/2-6/87).
- L316 "New Procedures and Controversial Topics in GI Radiology". Refresher Course, Society of Gastrointestinal Radiologists, Sixteenth Annual Meeting and Postgraduate Course, Scottsdale, Arizona (2/8-13/87).
- L317 "Current Concepts in Biliary Tract Imaging". Eighth Annual Intermountain Imaging Conference, The Medical College of Wisconsin, Snowmass, Colorado (2/14-21/87).
- L318 "Imaging and Intervention in the Gallbladder". Eighth Annual Intermountain Imaging Conference, The Medical College of Wisconsin, Snowmass, Colorado (2/14-21/87).

- L319 "Imaging and Intervention of Pancreatic Inflammatory Disease". Eighth Annual Intermountain Imaging Conference, The Medical College of Wisconsin, Snowmass, Colorado (2/14- 21/87).
- L320 "Current Status of Interventional Techniques in the Urinary Tract". Eighth Annual Intermountain Imaging Conference, The Medical College of Wisconsin, Snowmass, Colorado (2/14- 21/87).
- L321 "Controversies and Current Techniques in Percutaneous Biopsy". Eighth Annual Intermountain Imaging Conference, The Medical College of Wisconsin, Snowmass, Colorado (2/14- 21/87).
- L322 "Non-Traumatic Abdominal Radiology". University of California San Diego, School of Medicine, Radiology of Emergency and Primary Care Physicians, Maui, Hawaii (2/22- 25/87).
- L323 "Radiology of Abdominal, Pelvic and Urologic Trauma". University of California San Diego, School of Medicine, Radiology of Emergency and Primary Care Physicians, Maui, Hawaii (2/22-25/87).
- L324 "New Techniques of Invasive Radiology". Sierra Radiology Conference, North Lake Tahoe, Nevada (3/1-4/87).
- L325 "New Concepts in Abdominal Drainage Procedures". Sierra Radiology Conference, North Lake Tahoe, Nevada (3/1-4/87).
- L326 "Imaging the Retroperitoneum". Sierra Radiology Conference, North Lake Tahoe, Nevada (3/1-4/87).
- L327 "Invasive Chest Procedures". Sierra Radiology Conference, North Lake Tahoe, Nevada (3/1-4/87).
- L328 "Diagnosis of Contrast Reactions". Great Medical Getaways, Snowmass, Colorado (3/14-21/87).
- L329 "Percutaneous Biopsy". International Association of Medical Specialists, Snowmass, Colorado (3/14-21/87).
- L330 "Diagnosis and Treatment of Abscesses". International Association of Medical Specialists, Snowmass, Colorado (3/14-21/87).
- L331 "Interventional Radiology in Ultrasound". International Association of Medical Specialists, Snowmass, Colorado (3/14-21/87).
- L332 "Complications of Pancreatic Interventional Radiology". International Association of Medical Specialists, Snowmass, Colorado (3/14-21/87).

- L333 "Percutaneous Gastrostomy and Gastroenterostomy". International Association of Medical Specialists, Snowmass, Colorado (3/14-21/87).
- L334 "Biliary Imaging". International Association of Medical Specialists, Snowmass, Colorado (3/14-21/87).
- L335 "Biliary Intervention". International Association of Medical Specialists, Snowmass, Colorado (3/14-21/87).
- L336 "Percutaneous Gallbladder Procedures". International Association of Medical Specialists, Snowmass, Colorado (3/14-21/87).
- L337 "CT and US Guided Chest Biopsy". International Association of Medical Specialists, Snowmass, Colorado (3/14-21/87).
- L338 "Percutaneous Drainage of Tubo-Ovarian Abscesses". University of California, San Diego, Grand Rounds Department of Reproductive Medicine, San Diego, California (3/28/87).
- L339 "Controversies and New Techniques in Interventional Radiology". Charles T. Dotter Memorial Lecture in Radiology, Oregon Radiological Society and Oregon Health Sciences University, Portland, Oregon (4/4/87).
- L340 "Imaging and Intervention of the Pelvis and Retroperitoneum". Charles T. Dotter Memorial Lecture in Radiology, Oregon Radiological Society and Oregon Health Sciences University, Portland, Oregon (4/4/87).
- L341 "Percutaneous Gastrostomy and Percutaneous Gastroenterostomy". Children's Hospital Medical Center, Cincinnati, Ohio (4/6-7/87).
- L342 "Interventional Radiology in the Chest". Children's Hospital Medical Center, Cincinnati, Ohio (4/6-7/87).
- L343 "Complications of Interventional Radiology". Children's Hospital Medical Center, Cincinnati, Ohio (4/6-7/87).
- L344 "Imaging and Intervention of Abscesses and Fluid Collections". Cincinnati General Hospital, Cincinnati, Ohio (4/6-7/87).
- L345 "Controversies and Current Techniques in Percutaneous Biopsy". Cincinnati General Hospital, Cincinnati, Ohio (4/6-7/87).
- L346 "Current Status of Interventional Techniques in the Urinary Tract". Greater Cincinnati Radiological Society, Cincinnati, Ohio (4/6-7/87).

- L347 "The Pancreas and Retroperitoneum". 7th Annual Resident Radiology Review, University of California, San Diego, School of Medicine (4/19-24/87).
- L348 "Interventional Radiology". 7th Annual Resident Radiology Review, University of California, San Diego, School of Medicine (4/19-24/87).
- L349 "Interventional Gastrointestinal Techniques". Categorical Course, American Roentgen Ray Society 1987 Annual Meeting, Miami Beach, Florida (4/26-5/1/87).
- L350 "Imaging and Intervention in the Spleen". Seventh Annual Leading Edge in Diagnostic Ultrasound, Thomas Jefferson University Hospital, Atlantic City, New Jersey (5/7-9/87).
- L351 "Current Concepts in US-Guided Interventional Procedures in the Abdomen". Seventh Annual Leading Edge in Diagnostic Ultrasound, Thomas Jefferson University Hospital, Atlantic City, New Jersey (5/7-9/87).
- L352 "Percutaneous Gastrostomy and Percutaneous Gastroenterostomy". Radiology Update/1987, Indiana University School of Medicine, Indianapolis, Indiana (5/6-8/87).
- L353 "Controversies and New Topics in Imaging and Intervention of Biliary Obstruction". Radiology Update/1987, Indiana University School of Medicine, Indianapolis, Indiana (5/6-8/87).
- L354 "Interventional Radiology in the Gallbladder". Radiology Update/1987, Indiana University School of Medicine, Indianapolis, Indiana (5/6-8/87).
- L355 "Current Concepts in Percutaneous Abscess Drainage". Radiology Update/1987, Indiana University School of Medicine, Indianapolis, Indiana (5/6-8/87).
- L356 "Biliary Stone Removal — Updated Tips and Tricks". International Special Procedures Conference, Chicago, Illinois (5/11-14/87).
- L357 "Percutaneous Dissolution of Gallstones — An Update". International Special Procedures Conference, Chicago, Illinois (5/11-14/87).
- L358 "Percutaneous Gastrostomy: Tips and Tricks". International Special Procedures Conference, Chicago, Illinois (5/11-14/87).
- L359 "Interventional Radiology of the Gastrointestinal and Biliary Tract". Austrian Congress of Radiology, Vienna, Austria (5/13-16/87).
- L360 "Percutaneous Therapy of Gallbladder Diseases". Austrian Congress of Radiology, Vienna, Austria (5/13-16/87), Keynote Lecture.

- L361 "Difficult Abscess Drainage". Interventional Radiology, University of Minnesota Medical School, Minneapolis, Minnesota (6/11-13/87).
- L362 "Percutaneous Gastrostomies and Other Enterostomies". Interventional Radiology, University of Minnesota Medical School, Minneapolis, Minnesota (6/11-13/87).
- L363 "Gallbladder Stone Dissolution". International Special Procedures Conference, Chicago, Illinois (8/17-20/87).
- L364 "Percutaneous Gastrostomy". International Special Procedures Conference, Chicago, Illinois (8/17-20/87).
- L365 "Biliary Stone Removal". International Special Procedures Conference, Chicago, Illinois (8/17-20/87).
- L366 "Pancreas Imaging: State of the Art". Advances in Sectional Imaging, University of California, San Diego, School of Medicine, San Diego, California (9/10-12/87).
- L367 "Current Biliary Imaging and Intervention". Brown University Program in Medicine and the Department of Radiology, Rhode Island Hospital, Providence, Rhode Island (9/14/87).
- L368 "New and Improved Imaging and Intervention of Abscesses". Grand Rounds, Department of Radiology, Rhode Island Hospital, Providence, Rhode Island (9/14/87).
- L369 "Interventional Techniques of Gallstones". New England Society for Cardiovascular and Interventional Radiology, Boston, Massachusetts (9/15/87).
- L370 "Advances in Gastrointestinal Interventional Radiology". The 5th Asian-Oceanian Congress of Radiology, Seoul, Korea (9/21-25/87).
- L371 "Interventional Radiology in the Gallbladder: Diagnosis, Drainage, Dissolution of Stones". The 5th Asian-Oceanian Congress of Radiology, Seoul, Korea (9/21-25/87).
- L372 "Basic Concepts of Abscess Drainage in Abdomen and Retroperitoneum". Louisiana State University, New Orleans, Louisiana (10/1-3/87).
- L373 "Drainage of Complicated Abscesses in Abdomen, Pelvis and Retroperitoneal Space". Louisiana State University, New Orleans, Louisiana (10/1-3/87).
- L374 "Management of Pancreatic Abscesses and Pseudocysts". Louisiana State University, New Orleans, Louisiana (10/1- 3/87).

- L375 "Percutaneous Ostomy Procedures in GI Tract". Louisiana State University, New Orleans, Louisiana (10/1-3/87).
- L376 "Guided Chest Biopsy". Louisiana State University, New Orleans, Louisiana (10/1-3/87).
- L377 "Contrast Media Reactions". Louisiana State University, New Orleans, Louisiana (10/1-3/87).
- L378 "Special Focus Session on Interventional Radiology — Part I". Twelfth Annual International Body Imaging Conference, Maui, Hawaii (18/10-18/87).
- L379 "Special Focus Session on Interventional Radiology — Part II". Twelfth Annual International Body Imaging Conference, Maui, Hawaii (10/10-18/87).
- L380 "Multidisciplinary Approach to the Jaundiced Patient". American College of Surgeons Clinical Congress of 1987, San Francisco, California (10/11-16/87).
- L381 "Advances in Interventional Radiology of the Gallbladder and Biliary Tract". 12th Annual San Diego Postgraduate Radiology Course, University of California, San Diego School of Medicine, San Diego, California (10/19-23/87).
- L382 "Horizons in Gallstone Therapy". Stanford University Medical Center, Stanford, California (10/21/87)
- L383 "Percutaneous Common Duct Catheterization". Advances in Non-Surgical Therapy of Biliary Calculi, The Bowman Gray School of Medicine, Winston-Salem, North Carolina (10/30- 31/87).
- L384 "Percutaneous Cholecystostomy". Advances in Non-Surgical Therapy of Biliary Calculi, The Bowman Gray School of Medicine, Winston-Salem, North Carolina (10/30-1/87).
- L385 "Dissolution of Gallstones with MTBE". Advances in Non-Surgical Therapy of Biliary Calculi, The Bowman Gray School of Medicine, Winston-Salem, North Carolina (10/30-31/87), Keynote Lecture.
- L386 "Percutaneous Dissolution of Gallstones". Italian Society of Ultrasonography, Rome, Italy (10/31-11/4/87).
- L387 "Horizons in Gallstone Therapy". Los Angeles Radiology Society, Los Angeles, California (11/11/87).
- L388 "Imaging and Intervention of Biliary Disease". Department of Radiology, University of Southern California, Los Angeles, California (11/11/87).

- L389 "Percutaneous Abscess Drainage". Department of Radiology, University of California at Los Angeles, Los Angeles, California (11/11/87).
- L390 "Horizons in Gallstone Therapy". University of Nebraska Medical School, Omaha, Nebraska (11/19-20/87).
- L391 "New Techniques in Percutaneous Abscess Drainage". University of Nebraska Medical School, Omaha, Nebraska (11/19-20/87).
- L392 "Current Interventional Techniques in the GU Tract". University of Nebraska Medical School, Omaha, Nebraska (11/19-20/87).
- L393 "Emergency Radiology of the Abdomen". Postgraduate Institute for Emergency and Primary Care Physicians, Symposium II, University of California, San Diego School of Medicine, San Diego, California (12/7-11/87).
- L394 "Biliary Imaging and Intervention". Radiology: The State of the Art, Vail, Colorado (1/90-15/88).
- L395 "Contrast Reactions". Radiology: The State of the Art, Vail, Colorado (1/10-15/88).
- L396 "Chest Intervention". Radiology: The State of the Art, Vail, Colorado (1/10-15/88).
- L397 "Percutaneous Biopsy and Drainage". Radiology: The State of the Art, Vail, Colorado (1/10-15/88).
- L398 "Complications of Interventional Procedures". Radiology: The State on the Art, Vail, Colorado (1/10-15/88).
- L399 "Percutaneous Gallstone Dissolution". 17th Annual Meeting and Post-graduate Course Society of Gastrointestinal Radiologists, Cable Beach, Nassau (9/16-20/88).
- L400 "Percutaneous Chest Biopsy of Difficult Lesions". Chest Imaging 1988, University of California, San Diego School of Medicine, San Diego, California (1/18-21/88).
- L401 "Radiologic Diagnosis and Treatment of Chest Collections". Chest Imaging 1988, University of California, San Diego School of Medicine, San Diego, California (1/18-21/88).
- L402 "Non-Traumatic Abdominal Radiography". Radiology for Emergency and Primary Care Physicians, Kona, Hawaii (1/24- 31/88).

- L403 "Non-Traumatic Abdominal Radiography, Part II". Radiology for Emergency and Primary Care Physicians, Kona, Hawaii (1/24-31/88).
- L404 "Radiology of the Abdomen, Pelvic, Urinary Trauma". Radiology for Emergency and Primary Care Physicians, Kona, Hawaii (1/24-31/88).
- L405 "Newer Diagnostic and Therapeutic Modalities in the Radiology of the GI Tract". Advances in Gastroenterology, Park City, Utah (1/20-24/88).
- L406 "Imaging and Intervention in the Trauma Patient". UCSD Department of Surgery Trauma Management — 1988, University of California, San Diego School of Medicine, San Diego, California (2/3-5/88).
- L407 "Role of CT in Trauma". UCSD Department of Surgery Trauma Management — 1988, University of California, San Diego School of Medicine, San Diego, California (2/3-5/88).
- L408 "Imaging and Intervention for Abscesses and Noninfected Fluid Collections". 1988 Big Sky Radiology Conference, Big Sky, Montana (2/7-12/88).
- L409 "Mechanisms and Treatment of Life-Threatening Contrast Reactions". 1988 Big Sky Radiology Conference, Big Sky, Montana (2/7-12/88).
- L410 "Interventional Radiology in the Chest". 1988 Big Sky Radiology Conference, Big Sky, Montana (2/7-12/88).
- L411 "Current Status of Imaging and Intervention in the Biliary Tract". 1988 Big Sky Radiology Conference, Big Sky, Montana (2/7-12/88).
- L412 "Biopsy Techniques". University of British Columbia, Sun Valley, Idaho (2/13-20/88).
- L413 "Abscess Drainage Techniques". University of British Columbia, Sun Valley, Idaho (2/13-20/88).
- L414 "Biliary Imaging". University of British Columbia, Sun Valley, Idaho (2/13-20/88).
- L415 "Biliary Intervention and Lithotripsy". University of British Columbia, Sun Valley, Idaho (2/13-20/88).
- L416 "Imaging and Intervention for Pancreatic Inflammation". 7th Annual UCSD Imaging and Intervention Conference, San Diego, California (2/21-24/88).
- L417 "CT of Trauma". 7th Annual UCSD Imaging and Intervention Conference, San Diego, California (2/21-24/88).

- L418 "Problems, Pitfalls, and Solutions in Percutaneous Biopsy". 7th Annual UCSD Imaging and Intervention Conference, San Diego, California (2/21-24/88).
- L419 "What's New in Abscess Drainage?". 7th Annual UCSD Imaging and Intervention Conference, San Diego, California (2/21- 24/88).
- L420 "The New Era in Gallstone Therapy". 7th Annual UCSD Imaging and Intervention Conference, San Diego, California (2/21- 24/88).
- L421 "Abdominal Abscesses — Clinical Setting and Non-Invasive Therapy". Topics in Internal Medicine, Department of Medicine, University of California, San Diego, San Diego, California (2/22-26/88).
- L422 "Small Parts Ultrasound". Louisiana State University Abdominal, Genitourinary, and Interventional Radiology Seminar, Aspen, Colorado (2/28-3/2/88).
- L423 "Percutaneous Abscess Drainage". Louisiana State University Abdominal, Genitourinary, and Interventional Radiology Seminar, Aspen, Colorado (2/28-3/2/88).
- L424 "Percutaneous Gastrostomy and Gastroenterostomy". Louisiana State University Abdominal, Genitourinary, and Interventional Radiology Seminar, Aspen, Colorado (2/28-3/2/88).
- L425 "Current Concepts in Imaging and Intervention of the Biliary Tract". Louisiana State University Abdominal, Genitourinary, and Interventional Radiology Seminar, Aspen, Colorado (2/28-3/2/88).
- L426 "Horizons in Gallstone Therapy". Orange County Radiology Society, Irvine, California (3/22/88).
- L427 "Interventional Procedures in the Chest". Refresher Course, Society of Thoracic Radiology, Washington, D.C. (3/27- 31/88).
- L428 "Horizons in Gallstone Treatment". Dotter Memorial Lecture, The Oregon Health Sciences University, Portland, Oregon (4/9/88).
- L429 "Current Concepts in Abscess Drainage". Dotter Memorial Lecture, The Oregon Health Sciences University, Portland, Oregon (4/9/88).
- L430 "Gallstones 1988 — Solvents, Shocks, and Surgery". Emory University Hospital, Atlanta, Georgia (4/13/88).
- L431 "Current Concepts and Controversies in Percutaneous Abscess Drainage". Atlanta Radiological Society, Atlanta, Georgia (4/14/88).

- L432 "The Pancreas and Retroperitoneum". 8th Annual San Diego Residents' Radiology Review Course, University of California, San Diego School of Medicine (4/10-15/88).
- L433 "Interventional Radiology". 8th Annual San Diego Residents' Radiology Review Course, University of California, San Diego School of Medicine (4/10-15/88).
- L434 "The Pancreas and Retroperitoneum". 8th Annual Residents' Radiology Review Course, UCSD School of Medicine, San Diego, California (4/18-22/88).
- L435 "Interventional Radiology". 8th Annual Residents' Radiology Review Course, UCSD School of Medicine, San Diego, California (4/18-22/88).
- L436 "New Techniques in Interventional Radiology". Meeting of the Canadian Association of Radiologists (Manitoba Division), Winnipeg, Manitoba, Canada (4/21/88).
- L437 "Imaging and Intervention of Abscesses and Fluid Collections". Imaging Symposium on Interventional Radiology, The University of Manitoba, Winnipeg, Manitoba, Canada (4/22/88).
- L438 "Imaging and Intervention of Pancreatic Inflammatory Disease". Imaging Symposium on Interventional Radiology, The University of Manitoba, Winnipeg, Manitoba, Canada (4/22/88).
- L439 "Pancreatitis: Problems in Intervention". Harvard Postgraduate Course on Practical Interventional Radiology, Harvard Medical School, Massachusetts General Hospital, Boston, Massachusetts (4/25-28/88).
- L440 "Newer Gastrointestinal Interventions". Harvard Postgraduate Course on Practical Interventional Radiology, Harvard Medical School, Massachusetts General Hospital, Boston, Massachusetts (4/25-28/88).
- L441 "Biliary Stone Removal". International Special Procedures Conference, Chicago, Illinois (5/16-19/88).
- L442 "Percutaneous Approach to the Gallbladder". International Special Procedures Conference, Chicago, Illinois (5/16-19/88).
- L443 "Percutaneous Gastrostomy: Current Concepts". International Special Procedures Conference, Chicago, Illinois (5/16-19/88).
- L444 "Biliary ESWL". Philadelphia Angiography and Interventional Radiology Society, Philadelphia, Pennsylvania (6/8-9/88).

- L445 "Nonvascular Interventional Radiologic Procedures". Thomas Jefferson University Hospital, Philadelphia, Pennsylvania (6/9/88).
- L446 "Techniques for Percutaneous Access to the Gallbladder". First International Symposium Biliary Lithotripsy, Harvard Medical School, Boston, Massachusetts (7/11-13/88).
- L447 "Horizons in Gallstone Therapy". Scripps Memorial Hospital, Encinitas, California (7/25/88).
- L448 "Newer Therapeutic Modalities for Gallstone Disease". Orange County Gastroenterology Society (7/27/88).
- L449 "Pancreas — Interventional Applications". Napa Radiology Conference, University of California, Davis, Napa, California (7/31-8/4/88).
- L450 "New Invasive Techniques". Napa Radiology Conference, University of California, Davis, Napa, California (7/31-8/4/88).
- L451 "Invasive Procedures of the Thorax". Napa Radiology Conference, University of California, Davis, Napa, California (7/31-8/4/88).
- L452 "Pancreatic Inflammatory Disease". Mackinac Island Imaging Conference, William Beaumont Hospital, Mackinac Island, Michigan (8/8-11/88).
- L453 "Interventional Radiology of the GU System". Mackinac Island Imaging Conference, William Beaumont Hospital, Mackinac Island, Michigan (8/8-11/88).
- L454 "New Horizons in Gallstone Therapy". Mackinac Island Imaging Conference, William Beaumont Hospital, Mackinac Island, Michigan (8/8-11/88).
- L455 "Interventional Radiology: Biliary Tract". Second Annual Hepatobiliary Radiology Review Course, Armed Forces Institute of Pathology, Bethesda, Maryland (8/20-21/88).
- L456 "Interventional Radiology: Gallbladder". Second Annual Hepatobiliary Radiology Review Course, Armed Forces Institute of Pathology, Bethesda, Maryland (8/20-21/88).
- L457 "Horizons in Gallstone Therapy". Second Annual Hepatobiliary Radiology Review Course, Armed Forces Institute of Pathology, Bethesda, Maryland (8/20-21/88).
- L458 "Emergency Radiology of the Abdomen". Postgraduate Institute for Emergency and Primary Care Physicians, Symposium II, UCSD School of Medicine, San Diego, California (8/22-26/88).

- L459 "Evaluation and Treatment of the Complications of Pancreatic Disease". Imaging on Lake Coeur D'Alene, University of Washington, Coeur d'Alene, Idaho (8/25-27/88).
- L460 "Controversies and Current Concepts in Abscess Drainage". Imaging on Lake Coeur D'Alene, University of Washington, Coeur d'Alene, Idaho (8/25-27/88).
- L461 "New Horizons in the Therapy of Gallstones". Imaging on Lake Coeur D'Alene, University of Washington, Coeur d'Alene, Idaho (8/25-27/88).
- L462 "Interventional Radiology in the Chest". Department of Radiology, University of Miami School of Medicine, Miami, Florida (9/6/88).
- L463 "Horizons in Gallstones Therapy". Department of Radiology, University of Miami School of Medicine, Miami, Florida (9/6/88).
- L464 "Horizons in Gallstone Therapy". Department of Radiology, Mount Sinai Hospital, Miami, Florida (9/7/88).
- L465 "Interventional Radiology". Directions in Research in Diagnostic Imaging, Bowman Gray University School of Medicine, American College of Radiology, Winston-Salem, North Carolina (10/11-14/88).
- L466 "Abscess Drainage, Cholecystostomy, MTBE". Western Angiographic and Interventional Society Meeting, Coronado, California (10/13-16/88).
- L467 "Interventional Radiology in the Biliary Tract". Percutaneous Gallbladder Surgery and Radiology, London, England (10/17/88).
- L468 "Chemical Dissolution — MTBE". Percutaneous Gallbladder Surgery and Radiology, London, England (10/17/88).
- L469 "Imaging and Intervention for Complicated Pancreatic Inflammatory Disease". Milwaukee Roentgen Ray Society, Milwaukee, Wisconsin (10/24/88).
- L470 "Current Concepts in Abscess Drainage". Conference of the North Dakota Chapter of the American College of Radiology, Fargo, North Dakota (10/29/88).
- L471 "Current Imaging and Intervention in the Biliary Tract". Conference of the North Dakota Chapter of the American College of Radiology, Fargo, North Dakota (10/29/88).
- L472 "The Spectrum of GU Interventional Procedures". Conference of the North Dakota Chapter of the American College of Radiology, Fargo, North Dakota (10/29/88).

- L473 "New Horizons in Gallstone Therapy". 13th Annual San Diego Postgraduate Radiology Course, UCSD School of Medicine, San Diego, California (10/31-11/3/88).
- L474 "Practical Aspects of Interventional Radiology". 13th Annual San Diego Postgraduate Radiology Course, UCSD School of Medicine, San Diego, California (10/31-11/3/88).
- L475 "Interventional Radiology in the AIDS Patient". 13th Annual San Diego Postgraduate Radiology Course, UCSD School of Medicine, San Diego, California (10/31-11/3/88).
- L476 "Percutaneous Abscess Drainage". 8th Annual Interventional and Imaging Radiology Course, UCSD School of Medicine, San Diego, California (11/4-6/88).
- L477 "Chest Biopsy". 8th Annual Interventional and Imaging Radiology Course, UCSD School of Medicine, San Diego, California (11/4-6/88).
- L478 "Percutaneous Cholecystostomy". 8th Annual Interventional and Imaging Radiology Course, UCSD School of Medicine, San Diego, California (11/4-6/88).
- L479 "Gallstones — Solvents, Shocks, Surgery". 8th Annual Interventional and Imaging Radiology Course, UCSD School of Medicine, San Diego, California (11/4-6/88).
- L480 "Gallbladder and Abscess Drainage". Interventional Radiology: State of the Art, Radiological Society of North America, Chicago, Illinois (11/27-12/2-88).
- L481 "Horizons in Gallstone Therapy". Advanced Seminars in Diagnostic Imaging, UCSD School of Medicine, San Diego, California (12/9-11/88).
- L482 "Percutaneous Abscess Drainage — 1989". Advanced Seminars in Diagnostic Imaging, UCSD School of Medicine, San Diego, California (12/9-11/88).
- L483 "Radiologic and Ultrasonographic Diagnosis of Gallstones". Symposium on Current Concepts in the Management of Cholelithiasis, Palm Desert, California (12/10/88).
- L484 "Horizons in Gallstone Therapy". South Coast Radiological Society, Santa Barbara, California (12/15/88).
- L485 "Life-Threatening Contrast Reactions". Radiology, The State of the Art, Vail, Colorado (1/11-14/89).
- L486 "Biliary Tract Interventions". Radiology, The State of the Art, Vail, Colorado (1/11-14/89).

- L487 "Biopsy and Drainage Techniques". Radiology, The State of the Art, Vail, Colorado (1/11-14/89).
- L488 "Complications of Interventions". Radiology, The State of the Art, Vail, Colorado (1/11-14/89).
- L489 Radiologic Management of Intraabdominal Abscess". 12th Annual San Diego Postgraduate Assembly in Surgery, UCSD School of Medicine, San Diego, California (1/16-20/89).
- L490 "Pancreatic Pseudocyst and Abscess — The Radiologist's View". 12th Annual San Diego Postgraduate Assembly in Surgery, UCSD School of Medicine, San Diego, California (1/16/20/89).
- L491 "Horizons in Gallstone Therapy". 41st Annual Midwinter Radiological Conference, Los Angeles, California (1/27-29/89).
- L492 "Imaging and Intervention in Abscess Drainage and Pancreatic Disease". 41st Annual Midwinter Radiological Conference, Los Angeles, California (1/27-29/89).
- L493 "Biliary Imaging and Intervention". 41st Annual Midwinter Radiological Conference, Kauai, Hawaii (1/31-2/4/89).
- L494 "Complications of Interventions". 41st Annual Midwinter Radiological Conference, Kauai, Hawaii (1/31-2/4/89).
- L495 "Abscess Drainage Techniques". 41st Annual Midwinter Radiological Conference, Kauai, Hawaii (1/31-2/4/89).
- L496 "Percutaneous Ostomy Procedures of the GI Tract". 41st Annual Midwinter Radiological Conference, Kauai, Hawaii (1/31-2/4/89).
- L497 "Horizons in Gallstone Therapy". 41st Annual Midwinter Radiological Conference, Kauai, Hawaii (1/31-2/4/89).
- L498 "Interventional Radiology in the Gallbladder". Refresher Course, The Society of Gastrointestinal Radiologists, Eighteenth Annual Meeting and Postgraduate Course, Palm Desert, California (2/19-23/89).
- L499 "Interventional Radiology of the Gastrointestinal Tract". The Society of Gastrointestinal Radiologists, Eighteenth Annual Meeting and Postgraduate Course, Palm Desert, California (2/19-23/89).

- L500 "Invasive Radiologic Techniques in Biliary Tract Disease". Advances and Controversies in Therapeutic Endoscopy, University of Arizona, Tucson, (2/23-25/89).
- L501 "Lithotripsy in Biliary Tract Disease". Advances and Controversies in Therapeutic Endoscopy, University of Arizona, Tucson (2/23-25/89).
- L502 "Interventional Radiology of the Chest". 8th Annual Comprehensive Update: Body Imaging, Mammography, and Neuroradiology, State University of New York Health Science Center at Syracuse, Acapulco, Mexico (2/27-3/4/89).
- L503 "Current Concepts and Controversies in Percutaneous Biopsy". 8th Annual Comprehensive Update: Body Imaging, Mammography, and Neuroradiology, State University of New York Health Science Center at Syracuse, Acapulco, Mexico (2/27-3/4/89).
- L504 "New Horizons in Gallstone Treatment". 8th Annual Comprehensive Update: Body Imaging, Mammography, and Neuroradiology, State University of New York Health Science Center at Syracuse, Acapulco, Mexico (2/27-3/4/89).
- L505 "Abscess Imaging and Intervention". 8th Annual Comprehensive Update: Body Imaging, Mammography, and Neuroradiology, State University of New York Health Science Center at Syracuse, Acapulco, Mexico (2/27-3/4/89).
- L506 "Percutaneous Drainage of Thoracic Fluid Collections". Thoracic Imaging 1989, The Society of Thoracic Radiology, San Diego, California (3/5-9/89).
- L507 "Update on Lithotripsy of Biliary Stones". The 118th Annual Session and Western Scientific Assembly, California Medical Association, Anaheim, California (3/3-8/89).
- L508 "The Place of Interventional Radiology". The 118th Annual Session and Western Scientific Assembly, California Medical Association, Anaheim, California (3/3-8/89).
- L509 "Overview of Biliary Stone Disease". Conference on Lithotripsy and Stone Dissolution, Sacred Heart General Hospital, Eugene, Oregon (3/7/89).
- L510 "Imaging and Intervention of Abscesses and Other Newer Interventional Techniques". (daily workshops) One-On-One Workshops, International Association of Medical Specialists, Breckenridge, Colorado (3/11-18/89).
- L511 "Radiologic and Ultrasonographic Diagnosis of Gallstones". Recent Innovations in Bile Acid Therapy, University of Texas Health Science Center at San Antonio, San Antonio, Texas (3/18/89).

- L512 "Radiology of Trauma". Postgraduate Institute for Emergency and Primary Care Physicians, Symposium II, University of California, San Diego, School of Medicine, La Jolla, California (3/20-24/89).
- L513 "Emergency Radiology of the Abdomen". Postgraduate Institute for Emergency and Primary Care Physicians, Symposium II, University of California, San Diego, School of Medicine, La Jolla, California (3/20-24/89).
- L514 "Biliary Intervention". The Fourteenth Annual Meeting on Diagnostic Angiography and Interventional Radiology Sponsored by the Society of Cardiovascular and Interventional Radiology, San Diego, California (3-20-23/89).
- L515 "Abscess Drainage". The Fourteenth Annual Meeting on Diagnostic Angiography and Interventional Radiology Sponsored by the Society of Cardiovascular and Interventional Radiology, San Diego, California (3-20-23/89).
- L516 "Biliary Lithotripsy and Adjunctive Therapies in Gallstone Disease". The Fourteenth Annual Meeting on Diagnostic Angiography and Interventional Radiology Sponsored by the Society of Cardiovascular and Interventional Radiology, San Diego, California (3-20-23/89).
- L517 "Gastrointestinal Tract Intervention". The Fourteenth Annual Meeting on Diagnostic Angiography and Interventional Radiology Sponsored by the Society of Cardiovascular and Interventional Radiology, San Diego, California (3-20-23/89).
- L518 "Horizons in Gallstone Therapy". Houston Radiological Society, Houston, Texas (3/27/89).
- L519 "Percutaneous Abscess Drainage". Department of Radiology, University of Texas Medical School, Houston, Texas (3/27/89).
- L520 "Interventional Radiology in the Chest". Department of Radiology, Baylor College of Medicine, Houston, Texas (3/27/89).
- L521 "Treatment of Life Threatening Contrast Reactions". Texas Association of Genitourinary Surgeons, University of California, San Diego, School of Medicine, San Diego, California (4/4/89).
- L522 "Interventional Radiology in the Chest". 7th Annual Meeting of the Texas Radiological Society, Galveston, Texas (4/6-9/89).
- L523 "Imaging and Intervention for Pancreatic Inflammatory Disease". 7th Annual Meeting of the Texas Radiological Society, Galveston, Texas (4/6-9/89).

- L524 "Complications of Interventional Radiology and How to Avoid Them". 7th Annual Meeting of the Texas Radiological Society, Galveston, Texas (4/6-9/89).
- L525 "Radiologic and Ultrasonographic Diagnoses of Gallstones". Symposium on the Management of Cholelithiasis, CIBA-GEIGY Pharmaceuticals Division, Banff, Alberta, Canada (4/14/89).
- L526 "Gallstone Lithotripsy and Abdominal Interventional Procedures". American College of Physicians, 70th Annual Session, San Francisco, California (4/13-16/89).
- L527 "The Pancreas and Retroperitoneum". 9th Annual San Diego Residents' Radiology Review Course, University of California, San Diego, School of Medicine, San Diego, California (4/16-21/89).
- L528 "Gallstone Dissolution and Alternate Methods of Treatment". Continuing Education Conference, Glendale Memorial Hospital and Health Center, Glendale, California (4/17/89).
- L529 "Horizons in Gallstone Therapy". University of California, San Diego, School of Medicine, La Jolla, California (4/20/89).
- L530 "Diagnosis and Percutaneous Drainage of Abscesses". Introduction to Interventional Radiology, University of California, San Diego, School of Medicine, San Diego, California (4/22/89).
- L531 "Percutaneous Transhepatic Cholangiography". Introduction to Interventional Radiology, University of California, San Diego, School of Medicine, San Diego, California (4/22/89).
- L532 "Role of Radiologists in Setting Up an Interventional Radiology Service". Introduction to Interventional Radiology, University of California, San Diego, School of Medicine, San Diego, California (4/22/89).
- L533 "Interventional Radiology in the Gallbladder and ESWL for Gallstones". Introduction to Interventional Radiology, University of California, San Diego, School of Medicine, San Diego, California (4/22/89).
- L534 "MTBE and the Interventional Radiologist". Second International Symposium on Biliary Lithotripsy, The University of British Columbia, Vancouver General Hospital, Vancouver, British Columbia, Canada (4/24-26/89).
- L535 "Gallstone Dissolution: Selection of Patients, Procedural Considerations, and Followup". International Special Procedures Conference, Chicago, Illinois (5/17/89).

- L536 "In Vitro Assays of Gallstone Solubility: Comparison of a New Catheter Agitator, Hand Injection, and Solvents Alone". International Special Procedures Conference, Chicago, Illinois (5/17/89).
- L537 "Biliary Stone Removal". International Special Procedures Conference, Chicago, Illinois (5/17/89).
- L538 "Percutaneous Approach to the Gallbladder". International Special Procedures Conference, Chicago, Illinois (5/17/89).
- L539 "Biliary Lithotripsy". International Special Procedures Conference, Chicago, Illinois (5/17/89).
- L540 "Current Management of Gallstones". CIBA-GEIGY Pharmaceuticals Division, Hollywood Community Hospital, Hollywood, California (6/2/89).
- L541 "Biliary Lithotripsy: A Radiologist's Perspective". Surgery Grand Rounds, Mercy Hospital and Medical Center, San Diego, California (6/5/89).
- L542 "Radiologic and Ultrasonographic Diagnosis of Gallstones". CIBA-GEIGY Pharmaceuticals Division, Atlanta, Georgia (6/10/89).
- L543 "MTBE Dissolution". Cholelithorama — Total Gallstone Management, Royal College of Physicians, Regents Park, London, England (6/12-13/89).
- L544 "The Radiologist in Gallstone Management". Cholelithorama — Total Gallstone Management, Royal College of Physicians, Regents Park, London, England (6/12-13/89).
- L545 "Interventional Radiologic Procedures Including the Use of MTBE". Cholelithorama — Total Gallstone Management, Royal College of Physicians, Regents Park, London, England (6/12-13/89).
- L546 "The Future Management of Gallstones: The View of an American Radiologist". Cholelithorama — Total Gallstone Management, Royal College of Physicians, Regents Park, London, England (6/12-93/89).
- L547 "Recent Advances in Therapeutic and Diagnostic Gastrointestinal Radiology". Southern California Society for Gastrointestinal Endoscopists, Santa Monica, California (6/20/89).
- L548 "Interventional Radiology in the Urinary Tract". 11th Annual Diagnostic Imaging Seminar: An Analysis of Various Imaging Procedures, Hospital of the University of Pennsylvania, Nantucket Island, Massachusetts (7/17-21/89).
- L549 "Interventional Radiology in the Biliary Tract". 11th Annual Diagnostic Imaging Seminar: An Analysis of Various Imaging Procedures, Hospital of the University of Pennsylvania, Nantucket Island, Massachusetts (7/17-21/89).

- L550 "Interventional Radiology in the Gallbladder". 11th Annual Diagnostic Imaging Seminar: An Analysis of Various Imaging Procedures, Hospital of the University of Pennsylvania, Nantucket Island, Massachusetts (7/17-21/89).
- L551 "Interventional Radiology in the Pancreas". 11th Annual Diagnostic Imaging Seminar: An Analysis of Various Imaging Procedures, Hospital of the University of Pennsylvania, Nantucket Island, Massachusetts (7/17-21/89).
- L552 "Horizons in Gallstone Therapy". CIBA-GEIGY Pharmaceuticals Division, Mercy Hospital and Medical Center, San Diego, California (7/26/89).
- L553 "Cholelithiasis: Diagnosis and Treatment". CIBA-GEIGY Pharmaceuticals Division, Daniel Freeman Memorial Hospital, Marina del Rey, California (7/28/89).
- L554 "Percutaneous Abscess Drainage — Fundamental Concepts". Seventh Annual Summer Imaging and Interventional Technique Course, Emory University School of Medicine, Amelia Island, Georgia (8/14-18/89).
- L555 "Interventional Radiology in the Chest". Seventh Annual Summer Imaging and Interventional Technique Course, Emory University School of Medicine, Amelia Island, Georgia (8/14-18/89).
- L556 "Interventional Radiology in the Gallbladder". Seventh Annual Summer Imaging and Interventional Technique Course, Emory University School of Medicine, Amelia Island, Georgia (8/14-18/89).
- L557 "Radiology of Trauma". Postgraduate Institute for Emergency and Primary Care Physicians — Symposium II, University of California, San Diego, School of Medicine, La Jolla, California (8/21-25).
- L558 "Emergency Radiology of the Abdomen". Postgraduate Institute for Emergency and Primary Care Physicians — Symposium II, University of California, San Diego, School of Medicine, La Jolla, California (8/21-25).
- L559 "Percutaneous Abscess Drainage 1989: New Concepts, New Areas". 5th International Congress on Interventional Ultrasound, Herlev Hospital, Copenhagen, Denmark (8/29 — 9/1/89).
- L560 "Imaging of the Gallbladder and Gallstones". 5th International Congress on Interventional Ultrasound, Herlev Hospital, Copenhagen, Denmark (8/29 -9/1/89).
- L561 "Biliary Drainage and Stenting". Cardiovascular Imaging and Interventional Radiology 1989, Brigham and Women's Hospital, Boston, Massachusetts (9/25-28/89).

- L562 "Abdominal Intervention, Abscess Drainage and Percutaneous Enterostomy". Cardiovascular Imaging and Interventional Radiology 1989, Brigham and Women's Hospital, Boston, Massachusetts (9/25-28/89).
- L563 "Biopsy and Intervention in the Lung and Mediastinum". Cardiovascular Imaging and Interventional Radiology 1989, Brigham and Women's Hospital, Boston, Massachusetts (9/25-28/89).
- L564 "Interventional Radiology: Ultrasound Applications". New England Society of Ultrasound in Medicine, Massachusetts General Hospital, Boston, Massachusetts (9/27/89).
- L565 "Percutaneous Therapy for Gallstones". Lithotripsy: The Next Generation, Northern California Kidney Stone Center, Santa Cruz, California (9/29-10/1/89).
- L566 "Ultrasound Imaging of the Gallbladder". Lithotripsy: The Next Generation, Northern California Kidney Stone Center, Santa Cruz, California (9/29-10/1/89).
- L567 "Techniques for Percutaneous Access to Gallbladder". The Emory Symposium on Biliary Lithotripsy and Adjunct Procedures, Emory University School of Medicine, Crawford Long Hospital, Atlanta, Georgia (10/4-6/89).
- L568 "MTBE and Interventional Radiology". The Emory Symposium on Biliary Lithotripsy and Adjunct Procedures, Emory University School of Medicine, Crawford Long Hospital, Atlanta, Georgia (10/4-6/89).
- L569 "Highlights of Interventional Radiology". I Reunion Nacional de Radiologic Vasculare Intervencionista, Hospital Virgen de la Salud, Toledo, Spain (10-6-7/89).
- L570 "Horizons in Gallstone Therapy". Virgen del Rocio Hospital, Toledo, Spain (10/9/89).
- L571 "What's New in Interventional Radiology?". Ramon y Cajal Hospital, Madrid, Spain (10/10/89).
- L572 "Gallbladder and Abscess Drainage". Hospital 12 de Octubre, Madrid, Spain (10/10/89).
- L573 "Imaging and Biliary Stones". American Lithotripsy Society, Third Annual Meeting, Denver, Colorado (10/12-15/89).
- L574 "Drainage of Abdominal Abscesses". 54th Annual Scientific Meeting of the American College of Gastroenterology Review Course, New Orleans, Louisiana (10/23-25/89).

- L575 "Horizons in Gallstone Therapy". Symposium on the Management of Cholelithiasis, CIBA-GEIGY Pharmaceuticals Division, San Diego, California (10/29/89).
- L576 "Interventional Radiology and Biliary Lithotripsy". Fourteenth Annual Postgraduate Radiology Course, University of California, San Diego, School of Medicine, San Diego, California (10/30/89).
- L577 "Interventional Procedures: Techniques and Complications". Fourteenth Annual Postgraduate Radiology Course, University of California, San Diego, School of Medicine, San Diego, California (10/30/89).
- L578 "Percutaneous Abscess Drainage". 9th Annual Interventional and Imaging Radiology Course, Department of Radiology, University of California, San Diego School of Medicine, San Diego, California (11/3-5/89).
- L579 "Chest Drainage". 9th Annual Interventional and Imaging Radiology Course, Department of Radiology, University of California, San Diego School of Medicine, San Diego, California (11/3-5/89).
- L580 "Interventional Radiology in the Gallbladder". 9th Annual Interventional and Imaging Radiology Course, Department of Radiology, University of California, San Diego School of Medicine, San Diego, California (11/3-5/89).
- L581 "Gallstones: Solvents, Shocks, Surgery". 9th Annual Interventional and Imaging Radiology Course, Department of Radiology, University of California, San Diego School of Medicine, San Diego, California (11/3-5/89).
- L582 "Workshop: New Techniques in Interventional Radiology: Celiac Ganglion Block, Fallopian Tube Catheterization, Interventional MR". 9th Annual Interventional and Imaging Radiology Course, Department of Radiology, University of California, San Diego School of Medicine, San Diego, California (11/3-5/89).
- L583 "Workshop: Anesthesia for Interventional Radiology". 9th Annual Interventional and Imaging Radiology Course, Department of Radiology, University of California, San Diego School of Medicine, San Diego, California (11/3-5/89).
- L584 "Workshop: Formation, Organization, and Management of an Interventional Radiology Service". 9th Annual Interventional and Imaging Radiology Course, Department of Radiology, University of California, San Diego School of Medicine, San Diego, California (11/3-5/89).
- L585 "Biliary Lithotripsy and Urso". Community Hospital of Chula Vista, Chula Vista, California (11/13/89).

- L586 "Imaging and Intervention for Complications of Pancreatic Inflammatory Disease". Thirteenth Annual Postgraduate Course, Gastrointestinal Endoscopy: Diagnosis and Therapy of Liver, Biliary, and Pancreatic Disorders, University of South Florida College of Medicine, Lake Buena Vista, Florida (12/6-9/89).
- L587 "Percutaneous Management of Gallstones". Thirteenth Annual Postgraduate Course, Gastrointestinal Endoscopy: Diagnosis and Therapy of Liver, Biliary, and Pancreatic Disorders, University of South Florida College of Medicine, Lake Buena Vista, Florida (12/6-9/89).
- L588 "Imaging and Intervention in the Biliary Tract". Thirteenth Annual Postgraduate Course, Gastrointestinal Endoscopy: Diagnosis and Therapy of Liver, Biliary, and Pancreatic Disorders, University of South Florida College of Medicine, Lake Buena Vista, Florida (12/6-9/89).
- L589 "Percutaneous Drainage of Abdominal Abscesses". Thirteenth Annual Postgraduate Course, Gastrointestinal Endoscopy: Diagnosis and Therapy of Liver, Biliary, and Pancreatic Disorders, University of South Florida College of Medicine, Lake Buena Vista, Florida (12/6-9/89).
- L590 "Radiology of Trauma". Postgraduate Institute for Emergency and Primary Physicians: Symposium II, University of California San Diego School of Medicine, La Jolla, California (12/11-15/89).
- L591 "Emergency Radiology of the Abdomen". Postgraduate Institute for Emergency and Primary Physicians: Symposium II, University of California San Diego School of Medicine, La Jolla, California (12/11-15/89).
- L592 "Gallstone Lithotripsy". Grossmont Hospital, La Mesa, California (12/13/89).
- L593 "Workshop: Overview of Interventional Radiology of the Thorax". Thoracic Imaging 1990, The Society of Thoracic Radiology, Naples, Florida (1/7-11/90).
- L594 "Horizons in Gallstone Therapy". Richmond Radiological Society, Richmond, Virginia (1/11/90).
- L595 "Percutaneous Abscess Drainage". Department of Radiology, Medical College of Virginia, Virginia Commonwealth University, Richmond, Virginia (1/11/90).
- L596 "Radiologic Imaging Before and After MTBE Therapy for Gallstones". 19th Annual Meeting and Postgraduate Course, Society of Gastrointestinal Radiologists, Waikoloa, Hawaii (1/14-19/90).
- L597 "Stone Dissolution". 19th Annual Meeting and Postgraduate Course, Society of Gastrointestinal Radiologists, Waikoloa, Hawaii (1/14-19/90).

- L598 "Unknown Film Panel". 19th Annual Meeting and Postgraduate Course, Society of Gastrointestinal Radiologists, Waikoloa, Hawaii (1/14-19/90).
- L599 "What the Interventional Radiologist Can Do". Advances in Gastroenterology, University of California San Diego School of Medicine, San Diego, California (1/20/90).
- L600 "Role of Interventional Radiology in Cancer Diagnosis and Therapy". 13th Annual San Diego Postgraduate Assembly in Surgery, Department of Surgery, University of California San Diego School of Medicine, San Diego, California (1/22-26/90).
- L601 "Diagnosis and Treatment of Gallstones". Symposium on the Management of Cholelithiasis, CIBA-GEIGY Pharmaceuticals Division, San Diego, California (1/23/90).
- L602 "Imaging and Intervention for Abscesses and Fluid Collections". Computed Body Tomography 1990: The Cutting Edge, The Johns Hopkins Medical Institutions, Orlando, Florida (2/8-11/90).
- L603 "Interventional CT". Computed Body Tomography 1990: The Cutting Edge, The Johns Hopkins Medical Institutions, Orlando, Florida (2/8-11/90).
- L604 "Treatment of Life-Threatening Contrast Reactions". Urology Grand Rounds, University of California San Diego School of Medicine, San Diego, California (2/21/90).
- L605 "Percutaneous Lung Biopsy". Practical Radiology, The University of Arizona Health Sciences Center, Tucson, Arizona (2/26-3/1/90).
- L606 "Imaging and Intervention in the Biliary Tract". Practical Radiology, The University of Arizona Health Sciences Center, Tucson, Arizona (2/26-3/1/90).
- L607 "Percutaneous Abscess Drainage". Practical Radiology, The University of Arizona Health Sciences Center, Tucson, Arizona (2/26-3/1/90).
- L608 "Interventional Radiology in the Genitourinary System". Practical Radiology, The University of Arizona Health Sciences Center, Tucson, Arizona (2/26-3/1/90).
- L609 "Abscess Drainage". Department of Radiology, Loma Linda University Medical Center, Loma Linda, California (2/22/90).
- L610 "Interventional Radiology in the Gallbladder". Department of Radiology, Loma Linda University Medical Center, Loma Linda, California (2/22/90).
- L611 "Gallstone Dissolution by Percutaneous Solvent Infusion". The Second Philadelphia Symposium on Biliary Lithotripsy, The Gallstone Evaluation and

- Treatment Center, Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania (3/1-3/90).
- L612 "Biliary Lithotripsy". Advanced Seminars in Diagnostic Imaging, University of California San Diego School of Medicine, Laguna Niguel, California, (3/2-4/90).
- L613 "Percutaneous Drainage Procedures". Advanced Seminars in Diagnostic Imaging, University of California San Diego School of Medicine, Laguna Niguel, California, (3/2-4/90).
- L614 "Radiology of Trauma". Postgraduate Institute for Emergency and Primary Physicians: Symposium II, University of California San Diego School of Medicine, La Jolla, California (3/19-23/90).
- L615 "Interventional Radiologic Techniques for Gallstone Therapy". Advances in Biliary and Urinary Shock Wave Lithotripsy, Departments of Medicine and Urology, Tulane University medical Center, New Orleans, Louisiana (3/29-31/90).
- L616 "When Should CT Scanning be Done?" 11th Cortina Bile Acid Symposium, Cortina d'Ampezzo, Italy (3/22-24/90).
- L617 "Treatment of Gallstones in the Non-functioning Gallbladder". 11th Cortina Bile Acid Symposium, Cortina d'Ampezzo, Italy (3/22-24/90).
- L618 "Workshop: Biliary Intervention". 15th Annual Course of The Society of Cardiovascular and Interventional Radiology, Miami Beach, Florida (3/26-29/90).
- L619 "Newer Biliary Interventions". Department of Radiology, St. Paul's Hospital, Vancouver, British Columbia (4/6/90).
- L620 "World Series of Radiology". Department of Radiology, St. Paul's Hospital, Vancouver, British Columbia (4/6/90).
- L621 "Interventional Radiology". 10th Annual San Diego Residents' Radiology Review Course, Department of Radiology, University of California, San Diego School of Medicine, San Diego, California (4/15-20/90).
- L622 "The Pancreas and Retroperitoneum". 10th Annual San Diego Residents' Radiology Review Course, Department of Radiology, University of California, San Diego School of Medicine, San Diego, California (4/15-20/90).
- L623 "Percutaneous Abscess Drainage". Spring Interventional Course, Department of Radiology, University of California, San Diego School of Medicine, San Diego, California (4/21/90).

- L624 "Percutaneous Transhepatic Cholangiography". Spring Interventional Course, Department of Radiology, University of California, San Diego School of Medicine, San Diego, California (4/21/90).
- L625 "Interventional Radiology in the Gallbladder and ESWL". Spring Interventional Course, Department of Radiology, University of California, San Diego School of Medicine, San Diego, California (4/21/90).
- L626 "Interventional Techniques of the Gallbladder: The Essentials". International Special Procedures Conference, Chicago, Illinois (5/7-10/90).
- L627 "Biliary Stone Treatment Including Lithotripsy". International Special Procedures Conference, Chicago, Illinois (5/7-10/90).
- L628 "Biliary Endoprosthesis: Current and Further Status". International Special Procedures Conference, Chicago, Illinois (5/7-10/90).
- L629 "The Role of Interventional Radiology in Surgical Diseases of the Abdomen". San Diego Society of General Surgeons, San Diego, California (5/16/90).
- L630 "Radiologic Approaches to Gastrostomy". American Society of Gastrointestinal Endoscopy, San Antonio, Texas (5/17-18/90).
- L631 "Radiologic Intervention in Pancreatic Disease". American Society of Gastrointestinal Endoscopy, San Antonio, Texas (5/17-18/90).
- L632 "Interventional Radiology in the Gallbladder". Phoenix Radiological Society, Phoenix, Arizona (6/7/90).
- L633 "Techniques for Percutaneous Access to the Gallbladder". Radiology Today, 5th Multinational Postgraduate Course: Liver and Biliary Tract, Salzburg, Austria (6/21-23/90).
- L634 "Interventional Radiology of the Biliary Tract". Radiology Today, 5th Multinational Postgraduate Course: Liver and Biliary Tract, Salzburg, Austria (6/21-23/90).
- L635 "Drainage of Pancreatic Collections". The Fourteenth Leeds Gastroenterology Course for Radiologists, University of Leeds, The Royal College of Radiologists, Leeds, England (7/2-6/90).
- L636 "MR Guided Interventions". The Fourteenth Leeds Gastroenterology Course for Radiologists, University of Leeds, The Royal College of Radiologists, Leeds, England (7/2-6/90).

- L637 "New Therapy for Gallstones". The Eleventh Annual Lecture — The Fourteenth Leeds Gastroenterology Course for Radiologists, University of Leeds, The Royal College of Radiologists, Leeds, England (7/2-6/90).
- L638 "Diagnosis and Therapy of Abdominal and Thoracic Abscesses". Radiology for Non-Radiologists, Department of Radiology, University of California, San Diego School of Medicine, San Diego, California (7/19-22).
- L639 "Gallbladder Interventions". Biliary Laser Lithotripsy, Division of Gastroenterology, Duke University Medical Center, Durham, North Carolina (7/25/90).
- L640 "Pancreatic Imaging and the Role of the Interventional Radiologist". 12th Annual Meeting of the International Hepato-Biliary Pancreatic Association, Hong Kong (8/22- 24/90).
- L641 "Detection of Complications of Pancreatic Surgery: The Role of Imaging Techniques". 12th Annual Meeting of the International Hepato-Biliary Pancreatic Association, Hong Kong (8/22-24/90).
- L642 "Radiologic Management of Postoperative Strictures and Primary Sclerosing Cholangitis". 12th Annual Meeting of the International Hepato-Biliary Pancreatic Association, Hong Kong (8/22-24/90).
- L643 "Colorectal Malignancies". The World Congresses of Gastroenterology, Sydney, Australia (8/26-31/90).
- L644 "Current Concepts in Percutaneous Biliary Drainage". Department of Radiology, University of Minnesota, Minneapolis MN (9/10/90).
- L645 "Is Gallstone Dissolution Different in San Diego?". Department of Radiology, University of Minnesota, Minneapolis MN (9/10/90).
- L646 "Gallbladder Lithotripsy and Gallstone Dissolution" (Panel Discussion). Department of Radiology, University of Minnesota, Minneapolis MN (9/10/90).
- L647 "Interventional Radiology for Pancreatic Inflammatory disease". Department of Radiology, University of Minnesota, Minneapolis MN (9/10/90).
- L648 "Percutaneous Gastrostomy and Gastroenterostomy". Department of Radiology, University of Minnesota, Minneapolis MN (9/10/90).
- L649 "Biliary Drainage and Stenting". Midwest Interventional Radiology Seminar. University of Illinois College of Medicine at Peoria, Peoria IL, (9/21-23/90).

- L650 "Interventional Gallbladder Procedures". Midwest Interventional Radiology Seminar. University of Illinois College of Medicine at Peoria, Peoria IL, (9/21-23/90).
- L651 "Complications of Pancreatitis". Midwest Interventional Radiology Seminar. University of Illinois College of Medicine at Peoria, Peoria IL, (9/21-23/90).
- L652 "Percutaneous Gastrostomy". Midwest Interventional Radiology Seminar. University of Illinois College of Medicine at Peoria, Peoria IL, (9/21-23/90).
- L653 "New Techniques in Interventional Radiology". East Bay Radiology Society Oakland, CA (9/27/90).
- L654 "Percutaneous Abscess Drainage Fundamentals". Tenth Annual Interventional Radiology Course, Department of Radiology, University of California, San Diego, CA, (10/26-28/90).
- L655 "Advanced Percutaneous Abscess Drainage". Tenth Annual Interventional Radiology Course, Department of Radiology, University of California, San Diego, CA, (10/26-28/90).
- L656 "Percutaneous Transhepatic Cholangiography". Tenth Annual Interventional Radiology Course, Department of Radiology, University of California, San Diego, CA, (10/26-28/90).
- L657 "Chest Biopsy". Tenth Annual Interventional Radiology Course, Department of Radiology, University of California, San Diego, CA, (10/26-28/90).
- L658 "Interventional Radiology in the Gallbladder". Tenth Annual Interventional Radiology Course, Department of Radiology, University of California, San Diego, CA, (10/26-28/90).
- L659 "Scopes, Lasers, EHL, Percutaneous Ultrasound (PUS)". Tenth Annual Interventional Radiology Course, Department of Radiology, University of California, San Diego, CA, (10/26-28/90).
- L660 "Interventional Radiology of Inflammatory Disease of the Pancreas". Fifteenth Annual San Diego Postgraduate Radiology Course, Department of Radiology, University of California, San Diego, CA (10/22-26/90).
- L661 "Gallstones — Diagnosis, Drainage, and Dissolution". Fifteenth Annual San Diego Postgraduate Radiology Course, Department of Radiology, University of California, San Diego, CA (10/22-26/90).

- L662 "Interventional Gallbladder Procedures". Diseases of the Liver, Biliary Tract and Pancreas, Annual Clinical Congress of the American College of Surgeons, San Francisco, CA (10/7-12/90).
- L663 "Hemostasis". The Society of Minimally Invasive Therapy, Vienna, Austria (12/12-15/90).
- L664 "Interventional Radiology in the gallbladder and new treatments for gallstones". vanSonnenberg E, Mueller PR, Torres WE. The 76th Scientific Assembly of the Radiological Society of North America, Chicago IL November 25-30, 1990.
- L665 "Complications of percutaneous cholecystostomy". Goodacre B, vanSonnenberg E, D'Agostino H, Casola G, Sanchez R. The 76th Scientific Assembly of the Radiological Society of North America, Chicago IL November 25-30, 1990.
- L666 "Radiology of Trauma". Postgraduate Institute for Emergency and Primary Physicians: Symposium II, University of California San Diego School of Medicine, La Jolla, California (12/11/90).
- L667 "Interventional Radiology in the Gallbladder and Biliary Tree". New England Roentgen Ray Society, Harvard Medical School, Massachusetts General Hospital, Boston MA (1/18/91).
- L668 "Interventional Radiology of the Gallbladder". Memphis Interventional Radiology Society, Memphis TN (1/23/91).
- L669 "Percutaneous Abscess Drainage". University of Tennessee, Department of Radiology, Memphis, TN (1/23/91).
- L670 "Interventional Radiology in the Gallbladder". Nashville Interventional Radiology Club, Nashville, TN (1/24/91).
- L671 "Percutaneous Abscess Drainage". Vanderbilt University, Department of Radiology, Nashville, TN (1/24/91).
- L672 « Dissolution, EHL, Laser Fragmentation ». Fourteenth Annual San Diego Postgraduate Assembly in Surgery, University of California, San Diego, School of Medicine, Department of Surgery (2/3-8/91).
- L673 "Imaging and Intervention for Complications of Pancreatic Inflammatory disease". American Society of Gastrointestinal Endoscopy, Eighth National Interim Postgraduate Course, San Diego, CA (2/9-10/91).
- L674 "Imaging Techniques". The California Trauma Conference 1991, University of California, San Diego, School of Medicine (2/14-16/91).

- L675 "Current management of controversies in gallstone disease". The 20th Annual Meeting of the Society of Gastrointestinal Radiologists, La Costa Carlsbad, CA, (2/17-21/91).
- L676 "Nonsurgical treatment for Gallstones — UCSD experience". Zeppa M, vanSonnenberg E, Esch O, D'Agostino H, Hofmann AF, Casola G. The 20th Annual Meeting of the Society of Gastrointestinal Radiologists, La Costa Carlsbad, CA, (2/17-21/91).
- L677 "Radiologic Treatment of Gallbladder Disease". Annual Post Graduate Convention of The Alumni Association School of Medicine Loma Linda University (2/22-28/91).
- L678 "Complications in Interventional Radiology". Advanced Seminars in Diagnostic Imaging, University of California San Diego School of Medicine, Laguna Niguel, California, (3/1/91).
- L679 "Lithotripsy and other Gallbladder and Liver procedures". Advanced Seminars in Diagnostic Imaging, University of California San Diego School of Medicine, Laguna Niguel, California, (3/1/91).
- L680 "The Use of Interventional Radiology and Lithotripsy in Biliary Tract Disease". Recent Advances in Geriatric Medicine 1991 — New Treatment Options for Old Problems University of California, San Diego, School of Medicine, San Diego, CA (3/7-9/91).
- L681 "Radiology of Trauma". Postgraduate Institute for Emergency and Primary Physicians: Symposium II, University of California San Diego School of Medicine, La Jolla, California (3/19-22/91).
- L682 "Emergency Radiology of the Abdomen". Postgraduate Institute for Emergency and Primary Physicians: Symposium II, University of California San Diego School of Medicine, La Jolla, California (3/19-22/91).
- L683 "Interventional Radiology in GI". International Diagnostic Course in Davos, University of Switzerland, Davos, Switzerland (4/6-13/91).
- L684 "Interventional Radiology in the Gallbladder". University of New Mexico School of Medicine, Department of Radiology, Albuquerque, New Mexico (4/15-16/91).
- L685 "Percutaneous Abscess Drainage". University of New Mexico School of Medicine, Department of Radiology, Albuquerque, New Mexico (4/15-16/91).
- L686 "What's New in Interventional Radiology". University of New Mexico School of Medicine, Department of Radiology, Albuquerque, New Mexico (4/15-16/91).

- L687 "Interventional Radiology". Less Invasive Interventional Therapy, Georgetown University Medical Center, Washington, D.C. (4/18-19/91).
- L688 "Access for Therapy". Less Invasive Interventional Therapy, Georgetown University Medical Center, Washington, D.C. (4/18-19/91).
- L689 "Interventional Radiology". 11th Annual San Diego Residents' Radiology Review Course, University of California San Diego Medical Center, San Diego, California (4/21-26/91).
- L690 "The Pancreas and the Retroperitoneum". 11th Annual San Diego Residents' Radiology Review Course, University of California San Diego Medical Center, San Diego, California (4/21-26/91).
- L691 "Interventional Procedure Integration". RAD/R&F Medical Advisory Board, General Electric Company, Chicago, Illinois (4/23-25/91).
- L692 "Percutaneous Abscess Drainage". Spring Interventional Radiology Course, University of California San Diego Medical Center, San Diego, California (4/27/91).
- L693 "Percutaneous Transhepatic Cholangiography". Spring Interventional Radiology Course, University of California San Diego Medical Center, San Diego, California (4/27/91).
- L694 "Percutaneous Biliary Drainage". Spring Interventional Radiology Course, University of California San Diego Medical Center, San Diego, California (4/27/91).
- L695 "Biliary Calculus Disease: Interventional Management". American Roentgen Ray Society, Boston, Massachusetts (5/5-10/91).
- L696 "Interventional Radiology of the Gallbladder". 18th Annual Japanese Society of Interventional Radiology, Kanagawa, Japan (5/10-12/91).
- L697 "Drainage of Thoracic Fluid Collections". Thoracic Imaging 1991, Society of Thoracic Radiology, Toronto, Canada (5/13-17/91).
- L698 "Interventional Techniques in the Gallbladder". International Special Procedures Conference, Chicago, Illinois (5/13-16/91).
- L699 "Biliary Stone Treatment". International Special Procedures Conference, Chicago, Illinois (5/13-16/91).
- L700 "Biliary Endoprosthesis and Current and Future Status". International Special Procedures Conference, Chicago, Illinois (5/13-16/91).

- L701 "Interventional Procedures in the Chest, Abdomen and Pelvis". California Radiological Society, Monterey, California (5/17/91).
- L702 "Controversies in Management of Pancreatic Pseudocysts (Symposium)". American Gastroenterological Association Annual Meeting and Digestive Disease Week 1991 Program, New Orleans, Louisiana (5/19-22/91).
- L703 "Ultrasound Guided Interventional Techniques". Symposium on Hepatic Cryosurgery and Intraoperative Ultrasound, San Diego, California (6/6-9/91).
- L704 "Interventional Treatment of Severe Acute Pancreatitis". Standards in Pancreatic Surgery, University of Ulm, Germany, Meersburg Castle, Germany (7/1-4/91).
- L705 "Interventional Radiology in the Biliary System". Radiology for Non-radiologists, University of California, San Diego School of Medicine, San Diego, California (7/18-21/91).
- L706 "Interventional Radiology in the Biliary System". Radiology for Non-radiologists, University of California, San Diego School of Medicine, San Diego, California (8/12-16/91).
- L707 "Biliary Drainage and Stenting". 1991 Midwest Interventional Radiology Seminar, The University of Illinois College of Medicine at Peoria, Peoria, Illinois (8/16-18/91).
- L708 "Interventional Gallbladder and Common Bile Duct Procedures". 1991 Midwest Interventional Radiology Seminar, The University of Illinois College of Medicine at Peoria, Peoria, Illinois (8/16-18/91).
- L709 "Percutaneous Gastrostomy". 1991 Midwest Interventional Radiology Seminar, The University of Illinois College of Medicine at Peoria, Peoria, Illinois (8/16-18/91).
- L710 "Interventional Techniques in the Management of Complication of Pancreatitis". 1991 Midwest Interventional Radiology Seminar, The University of Illinois College of Medicine at Peoria, Peoria, Illinois (8/16-18/91).
- L711 "Radiology of Trauma". Postgraduate Institute for Emergency and Primary Physicians: Symposium II, University of California San Diego School of Medicine, La Jolla, California (8/19-23/91).
- L712 "Emergency Radiology of the Abdomen". Postgraduate Institute for Emergency and Primary Physicians: Symposium II, University of California San Diego School of Medicine, La Jolla, California (8/19-23/91).

- L713 "Assessment and Management of Severe Acute Pancreatitis". 34th World Congress of Surgery, Stockholm, Sweden (8/25-31/91).
- L714 "Obstructive Jaundice: Diagnosis and Treatment by PTC". Nycomed Intercontinental Continuing Education in Radiology, Oslo, Norway (8/26-31/91).
- L715 "Stone Removal from the Gallbladder and the Bile Ducts". Nycomed Intercontinental Continuing Education in Radiology, Oslo, Norway (8/26-31/91).
- L716 "Abdominal Abscesses: Diagnosis and Indications". Nycomed Intercontinental Continuing Education in Radiology, Oslo, Norway (8/26-31/91).
- L717 "Pancreatitis, Diagnosis with CT and MRI". Nycomed Intercontinental Continuing Education in Radiology, Oslo, Norway (8/26-31/91).
- L718 "Complications of Pancreatitis, Interventional Aspects". Nycomed Intercontinental Continuing Education in Radiology, Oslo, Norway (8/26-31/91).
- L719 "Stones in the Urinary Tract: Percutaneous Removal and ESWL". Nycomed Intercontinental Continuing Education in Radiology, Oslo, Norway (8/26-31/91).
- L720 "An Early Christmas List to the Surgeon from the Interventional Radiologist". Surgery Grand Rounds, The University of Vermont, Burlington, Vermont (9/19/91).
- L721 "Interventional Radiology in the Gallbladder". Radiology Grand Rounds, The University of Vermont, Burlington, Vermont (9/19/91).
- L722 "Biliary Intervention and How To Do It". 6th World Congress in Ultrasound, Copenhagen, Denmark (9/1-6/91).
- L723 "Ultrasound Guided Drainage of Abscess: Transabdominal and Transvaginal Approach". Seventh Annual Sonography Update Conference and Exhibit, University of California, San Diego School of Medicine, San Diego, California (9/11-13/91).
- L724 "Percutaneous Gastrostomy". Cincinnati Angiography and Interventional Radiology Club, Cincinnati, Ohio (9/12/91).
- L725 "Interventional Radiology in the Chest". 1991 Annual Convention of the American Osteopathic College of Radiology, Scottsdale, Arizona (9/29-10/2/91).
- L726 "Percutaneous Drainage of Abscesses and Pancreatic Collections". 1991 Annual Convention of the American Osteopathic College of Radiology, Scottsdale, Arizona (9/29-10/2/91).

- L727 "Interventional Techniques for Lung and Pleural Diseases". Western Angiographic and Interventional Society, Laguna Niguel, California (10/3-6/91).
- L728 "Symposium — Therapeutic Endoscopy: Interdisciplinary Collaboration or Competition?" American College of Gastroenterology 1991 Annual Scientific Meeting, Boston, Massachusetts, (10/14-16/91).
- L729 "Percutaneous Drainage of Uncomplicated and Complicated Abdominal Fluid Collections". Radiology/91: Cardiovascular and Interventional Radiology, University of Minnesota, Minneapolis, Minnesota (10/14-18/91).
- L730 "Percutaneous Enterostomy". Radiology/91: Cardiovascular and Interventional Radiology, University of Minnesota, Minneapolis, Minnesota (10/14-18/91).
- L731 "Percutaneous Biopsy and Drainage in the Chest". Radiology/91: Cardiovascular and Interventional Radiology, University of Minnesota, Minneapolis, Minnesota (10/14-18/91).
- L732 "Advances in Abscess Drainage". Visiting Professor, Department of Radiology, The University Hospital of Arkansas, Little Rock, Arkansas (10/9-10/91).
- L733 "Interventional Radiology in the Biliary Tract". Visiting Professor, Department of Radiology, The University Hospital of Arkansas, Little Rock, Arkansas (10/9-10/91).
- L734 "Imaging and Intervention of Pancreatic Disease". Visiting Professor, Department of Radiology, The University Hospital of Arkansas, Little Rock, Arkansas (10/9-10/91).
- L735 "Interventional Radiology of Acute Pancreatitis Complications". 16th Annual San Diego Postgraduate Radiology Course, University of California, San Diego School of Medicine, San Diego, California (10/28-11/1/91).
- L736 "Interventional Radiology and the Law". 11th Annual Interventional Radiology Course, University of California, San Diego School of Medicine, San Diego, California (10/28-11/1/91).
- L737 "Percutaneous Ultrasound (PUS)". 11th Annual Interventional Radiology Course, University of California, San Diego School of Medicine, San Diego, California (10/28-11/1/91).
- L738 "Transvaginal Drainage". 11th Annual Interventional Radiology Course, University of California, San Diego School of Medicine, San Diego, California (10/28-11/1/91).

- L739 "Celiac Ganglion Block". 11th Annual Interventional Radiology Course, University of California, San Diego School of Medicine, San Diego, California (10/28-11/1/91).
- L740 "Percutaneous Enterostomy and Cecostomy". 11th Annual Interventional Radiology Course, University of California, San Diego School of Medicine, San Diego, California (10/28-11/1/91).
- L741 "Percutaneous Treatment of Gallbladder and Biliary Stones — Dissolution, Basketing Ablation, and Laser". 11th Annual Interventional Radiology Course, University of California, San Diego School of Medicine, San Diego, California (10/28-11/1/91).
- L742 "Anesthesia for Interventional Radiology". 11th Annual Interventional Radiology Course, University of California, San Diego School of Medicine, San Diego, California (10/28-11/1/91).
- L743 "Current Concepts in Radiologic Biopsy of the Chest". The 27th Autumn Assembly of the Japanese Radiological Society, Kobe, Japan (11/11-15/91).
- L744 "Current Concepts in Radiologic Biopsy of the Chest". Japanese Society of Thoracic Radiology, Kobe, Japan (11/12/91).
- L745 "Percutaneous Drainage of Thoracic Fluid Collections". Osaka University Medical Center, Osaka, Japan (11/14/91).
- L746 "The Role of the Interventional Radiologists in the Management of Pancreatic Pseudocysts". The Delaware Society for Gastrointestinal Endoscopy, Philadelphia, Pennsylvania (11/20/91).
- L747 "Percutaneous tissue ablation with radiofrequency thermal energy". Sanchez R, vanSonnenberg E, D'Agostino H, Goodacre B, Esch O, Nissenbaum M. The 39th Annual Meeting of the Association of University Radiologists, Orlando, Florida, March 17-22, 1991.
- L748 "The Role of Interventional Radiology". Eighth Annual Controversies, Problems and Techniques in Surgery Symposium, Albert Einstein College of Medicine & Montefiore Medical Center, New York, New York (12/11-13/91).
- L749 "Lung Abscess Diagnosis and Therapy". Society of Thoracic Radiology", Laguna Niguel, California (1/19-23/92).
- L750 "Percutaneous Gastrostomy and Gastroenterostomy". 44th Annual Midwinter Radiological Conference, Los Angeles, California (1/31-2/2/92).

- L751 "Advances in Abscess Drainage". 44th Annual Midwinter Radiological Conference, Los Angeles, California (1/31-2/2/92).
- L752 "Complications in Interventional Radiology and How to Avoid Them". 44th Annual Midwinter Radiological Conference, Los Angeles, California (1/31-2/2/92).
- L753 "Interventional Procedures in the Chest". Advanced Seminars in Diagnostic Imaging, University of California San Diego Medical Center, San Diego, California (2/6-9/92).
- L754 "Percutaneous Drainage of Intra-Abdominal Fluid Collections: When and How?" 15th Annual San Diego Postgraduate Assembly in Surgery, University of California, San Diego, Coronado, California (2/9-14/92).
- L755 "The Use of Newer Radiologic Imaging Technologies in Gastroenterological Disorders". UCSD Topics and Advances in Internal Medicine Postgraduate Course, University of California San Diego Medical Center, San Diego, California (2/24/92).
- L756 "Interventional Radiology of the Chest". Thirteenth Annual John G. McAfee Lecture in Radiology, State University of New York, Syracuse, New York (2/27/92).
- L757 "Interventional Radiology in the Gallbladder". Department of Radiology, State University of New York, Syracuse, New York (2/28/92).
- L758 "Therapeutic Radiology of Biliary and Gastrointestinal Diseases". Southern California Society for Gastrointestinal Endoscopy, Los Angeles, California (2/29-3/1/92).
- L759 "Radiology of Trauma". Postgraduate Institute for Emergency and Primary Physicians: Symposium II, University of California San Diego School of Medicine, La Jolla, California (3/16-20/92).
- L760 "Emergency Radiology of the Abdomen". Postgraduate Institute for Emergency and Primary Physicians: Symposium II, University of California San Diego School of Medicine, La Jolla, California (3/16-20/92).
- L761 "Workshop: Current Concepts in Biopsy and Percutaneous Abscess Drainage". Society of Cardiovascular and Interventional Radiology, Washington, D.C. (4/4-9/92).
- L762 "Interventional Radiology that we Learned from Gerhard Wittich and Brooke Jeffrey". Grand Rounds, Department of Radiology, Stanford University School of Medicine, Stanford, California (4/8/92).

- L763 "Interventional Radiology". 12th Annual San Diego Residents' Radiology Review Course, University of California San Diego School of Medicine, Coronado, California (4/19-25/92).
- L764 "The Pancreas and the Retroperitoneum". 12th Annual San Diego Residents' Radiology Review Course, University of California San Diego School of Medicine, Coronado, California (4/19-25/92).
- L765 "Percutaneous Abscess Drainage". Spring Interventional Radiology Course, University of California San Diego School of Medicine, Coronado, California (4/25/92).
- L766 "Percutaneous Biliary Drainage". Spring Interventional Radiology Course, University of California San Diego School of Medicine, Coronado, California (4/25/92).
- L767 "Interventional Gallbladder Procedures". Spring Interventional Radiology Course, University of California San Diego School of Medicine, Coronado, California (4/25/92).
- L768 "Percutaneous Transhepatic Cholangiography". Spring Interventional Radiology Course, University of California San Diego School of Medicine, Coronado, California (4/25/92).
- L769 "The Gallbladder: Current Interventional Techniques". Specials Procedures Conference, Chicago, Illinois (4/29/92).
- L770 "Biliary Endoprosthesis: Present and Future Status". Specials Procedures Conference, Chicago, Illinois (4/29/92).
- L771 "Biliary Stones: Current Management". Specials Procedures Conference, Chicago, Illinois (4/29/92).
- L772 "New Techniques in Interventional Radiology". New Orleans Spring Roentgen Conference, New Orleans, Louisiana (4/30-5/2/92).
- L773 "Interventional Radiology in the Biliary Tract". New Orleans Spring Roentgen Conference, New Orleans, Louisiana (4/30-5/2/92).
- L774 "Imaging and Intervention of Pancreatic Inflammatory Disease". New Orleans Spring Roentgen Conference, New Orleans, Louisiana (4/30-5/2/92).
- L775 "Advances in Abscess Drainage". New Orleans Spring Roentgen Conference, New Orleans, Louisiana (4/30-5/2/92).

- L776 "Biliary I". XXI Congreso Nacional de la Sociedad Espanola de Radiologica Medica, Torremolinos, Spain (6/1-5/92).
- L777 "Biliary II". XXI Congreso Nacional de la Sociedad Espanola de Radiologica Medica, Torremolinos, Spain (6/1-5/92).
- L778 "The Pancreas, Percutaneous Abscess Drainage, and Percutaneous Gastrostomy". XXI Congreso Nacional de la Sociedad Espanola de Radiologica Medica, Torremolinos, Spain (6/1-5/92).
- L779 "How to Manage the Complications of Laparoscopic Cholecystectomy". Progress in Interventional Radiology, the 7th Annual Guy's Meeting, Guy's and St. Thomas's Medical And Dental School, London, England (6/25-26/92).
- L780 "Pancreatic Fluid Collections". Progress in Interventional Radiology, the 7th Annual Guy's Meeting, Guy's and St. Thomas's Medical And Dental School, London, England (6/25-26/92).
- L781 "Percutaneous Gastroenterostomy". Progress in Interventional Radiology, the 7th Annual Guy's Meeting, Guy's and St. Thomas's Medical And Dental School, London, England (6/25-26/92).
- L782 "Transrectal and Transvaginal Drainage of Pelvic Abscesses". Progress in Interventional Radiology, the 7th Annual Guy's Meeting, Guy's and St. Thomas's Medical And Dental School, London, England (6/25-26/92).
- L783 "Interventional Radiology for Chest Diseases". Clinical Imaging for Non-Radiologists, Department of Radiology, University of California San Diego School of Medicine, San Diego, California (7/20-24/92).
- L784 "Methods for Percutaneous Gastrostomy". Clinical Imaging for Non-Radiologists, Department of Radiology, University of California San Diego School of Medicine, San Diego, California (7/20-24/92).
- L785 "Appropriate Use of the Interventional Radiology Consult". Grand Rounds, University of California, San Diego, School of Medicine, Department of Family and Preventive Medicine, San Diego, California (7/22/92).
- L786 "Percutaneous Biliary Drainage: Indications and Technique". Midwest Interventional Radiology Seminar, The University of Illinois, College of Medicine at Peoria, Peoria, Illinois (8/7-9/92).
- L787 "Percutaneous Biliary Stone Removal". Midwest Interventional Radiology Seminar, The University of Illinois, College of Medicine at Peoria, Peoria, Illinois (8/7-9/92).

- L788 "Drainage of Simple and Complex Abdominal Fluid Collections". Midwest Interventional Radiology Seminar, The University of Illinois, College of Medicine at Peoria, Peoria, Illinois (8/7-9/92).
- L789 "Ultrasound and CT Guided Biopsies of the Abdomen and Pelvis". Midwest Interventional Radiology Seminar, The University of Illinois, College of Medicine at Peoria, Peoria, Illinois (8/7-9/92).
- L790 "Percutaneous Biopsies and Drainages of Chest Lesions and Collections". Midwest Interventional Radiology Seminar, The University of Illinois, College of Medicine at Peoria, Peoria, Illinois (8/7-9/92).
- L791 "Complications in Interventional Radiology and How to Avoid Them". McMaster University, Department of Radiology, Hamilton, Ontario, Canada (8/11-12/92).
- L792 "Percutaneous Abscess Drainage". McMaster University, Department of Radiology, Hamilton, Ontario, Canada (8/11-12/92).
- L793 "Controversies and Current Techniques in Percutaneous Biopsy". McMaster University, Department of Radiology, Hamilton, Ontario, Canada (8/11-12/92).
- L794 "Radiology of Trauma". Postgraduate Institute for Emergency and Primary Physicians: Symposium II, University of California San Diego School of Medicine, La Jolla, California (8/10-14/92).
- L795 "Panel on Laparoscopic Cholecystectomy". 14th Annual Meeting of the International Hepato-Biliary Pancreatic Association, Coronado, California (8/31-9/2/92).
- L796 "Transcutaneous Drainage Of Pancreatic Abscess". International Symposium on Acute Pancreatitis, Emory University School of Medicine, Department of Surgery, Atlanta, Georgia (9/11-13/92).
- L797 "Interventional Radiology for Complicated Pancreatic Disease". Cleveland Radiology Society, Cleveland, Ohio (9/14/92).
- L798 "Interventional Radiology in the Chest". Vancouver Imaging Update, First Annual Radiology Refresher Course, The University of British Columbia, Vancouver, British Columbia (9/13-17/92).
- L799 "Gallbladder Imaging and Intervention in the 90's". Vancouver Imaging Update, First Annual Radiology Refresher Course, The University of British Columbia, Vancouver, British Columbia (9/13-17/92).

- L800 "Biliary Intervention". Vancouver Imaging Update, First Annual Radiology Refresher Course, The University of British Columbia, Vancouver, British Columbia (9/13-17/92).
- L801 "Interventional Radiology — Complications and How to Avoid Them". Vancouver Imaging Update, First Annual Radiology Refresher Course, The University of British Columbia, Vancouver, British Columbia (9/13-17/92).
- L802 "How Best to Treat Pancreatic Pseudocysts: Interventional Radiology Approach". American Gastroenterological Association, San Francisco, California (9/18/92).
- L803 "Benign Biliary Strictures — What is the Best Management Strategy?" Interventional Radiology" — American Gastroenterological Association, San Francisco, California (9/18/92).
- L804 "Interventional Radiology". Family Medicine Grand Rounds, Veterans Administration Medical Center, La Jolla, California (9/25/92).
- L805 "Imaging and Intervention of the Pancreas". San Diego Radiological Society, San Diego, California (9/9/93).
- L806 "Legal Aspects of Interventional Radiology". 16th Annual San Diego Postgraduate Course, University of California San Diego School of Medicine, San Diego, California (10-26-30/92).
- L807 "Interventional Procedures in the GU System". 16th Annual San Diego Postgraduate Course, University of California San Diego School of Medicine, San Diego, California (10-26-30/92).
- L808 "Currents Concepts in Percutaneous Abscess Drainage". 12th Annual Interventional Radiology Course, University of California San Diego School of Medicine, San Diego, California (10/30-11/1/92).
- L809 "Biliary Stenting and Dilatation". 12th Annual Interventional Radiology Course, University of California San Diego School of Medicine, San Diego, California (10/30-11/1/92).
- L810 "Chest Drainage". 12th Annual Interventional Radiology Course, University of California San Diego School of Medicine, San Diego, California (10/30-11/1/92).
- L811 "Percutaneous Cholecystostomy". 12th Annual Interventional Radiology Course, University of California San Diego School of Medicine, San Diego, California (10/30-11/1/92).

- L812 "Percutaneous Biliary and Pancreatic Drainage". South Medical Association's 86th Annual Scientific Assembly, San Antonio, Texas (11/12-15/92).
- L813 "Interventional Radiology for Gallbladder Disorders". South Medical Association's 86th Annual Scientific Assembly, San Antonio, Texas (11/12-15/92).
- L814 "Radiology of Trauma". Postgraduate Institute for Emergency and Primary Physicians: Symposium II, University of California San Diego School of Medicine, La Jolla, California (12/14-18/92).
- L815 "Emergency Radiology of the Abdomen". Postgraduate Institute for Emergency and Primary Physicians: Symposium II, University of California San Diego School of Medicine, La Jolla, California (12/14-18/92).
- L816 "Percutaneous Radiology Techniques in Trauma — 1993". The California Trauma Conference, University of California San Diego School of Medicine, San Diego, California (1/14-16/93).
- L817 "Percutaneous Intervention in the Chest". Interventional Radiology Update, Stanford University Medical Center, Laguna Niguel, California (1/16-17/93).
- L818 "Percutaneous Intervention in the Chest". Los Angeles Radiological Society, Los Angeles, California (1/15-17/93).
- L819 "Interventional Radiology in the GU Tract". Los Angeles Radiological Society, Los Angeles, California (1/15-17/93).
- L820 "Interventional Radiology in the Chest". Los Angeles Radiological Society, Los Angeles, California (1/15-17/93).
- L821 "Acute Gastrointestinal Radiology: Imaging and Intervention (Categorical Course)". 22nd Annual Meeting and Postgraduate Course, Society of Gastrointestinal Radiologists, Scottsdale, Arizona (1/17-22/93).
- L822 "Medico-Legal Issues in Clinical Practice". 16th Annual San Diego Postgraduate Assembly in Surgery, University of California San Diego School of Medicine, San Diego, California (1/24-29/93).
- L823 "Missed Diagnosis and Interventional Procedures". Imaging and the Law: A Symposium on the Economic and Medical-Legal Issues in Radiology, University of Southern California School of Medicine, Palm Springs, California (2/5-7/93).
- L824 "Interventional Radiology in the Chest". Bluegrass Radiological Society, Lexington, Kentucky (2/11/93).

- L825 "Imaging and Radiologic Interventional of Complications of Pancreatitis". University of Kentucky School of Medicine, Department of Radiology, Lexington, Kentucky (2/12/93).
- L826 "Interventional Procedures in the Chest". Advanced Seminars in Diagnostic Imaging, University of California San Diego School of Medicine, Laguna Niguel, California (2/24-27/93).
- L827 "New Advances in Abdominal Interventional Procedures". Advanced Seminars in Diagnostic Imaging, University of California San Diego School of Medicine, Laguna Niguel, California (2/24-27/93).
- L828 "Percutaneous Abscess Drainage in the Chest". University of Texas Medical Branch, Department of Radiology, Galveston, Texas (2/26/93).
- L829 "Miniaturized, Catheter-Based US (Workshop)". 18th Annual Meeting of the Society of Cardiovascular and Interventional Radiology, New Orleans, Louisiana (2/27-3/4/93).
- L830 "Advances in Guided Drainage Techniques". 18th Annual Meeting of the Society of Cardiovascular and Interventional Radiology, New Orleans, Louisiana (2/27-3/4/93).
- L831 "Percutaneous Cholecystostomy for Gallbladder Disease". Northern California Society for Clinical Gastroenterology, San Francisco, California (3/9/93).
- L832 "Interventional Radiology for Acute Complications of Pancreatitis". California Pacific Medical Center, Department of Radiology, San Francisco, California (3/10/93).
- L833 "Interventional Ultrasound in the GU Tract". State-of-the-Art Genitourinary Ultrasound Course, Honolulu, Hawaii (3/13-15/93).
- L834 "Radiology, Interventional Radiology, and the Law". Colorado Society of Radiologists, Denver, Colorado (3/19/93).
- L835 "Current Concepts in Complicated Pancreatitis". Colorado Society of Radiologists, Denver, Colorado (3/18/93).
- L836 "Percutaneous Abscess Drainage in the Chest". University of Colorado Health Sciences Center, Department of Radiology, Denver, Colorado (3/19/93).
- L837 "Radiology, Interventional Radiology, and the Law". Colorado Society of Radiologists, Denver, Colorado (3/18/93).

- L838 "Current Concepts in Complicated Pancreatitis". Colorado Society of Radiologists, Denver, Colorado (3/18/93).
- L839 "Interventional Radiology in the Chest". University of Colorado Health Science Center, Department of Radiology, Denver, Colorado (3/19/93).
- L840 "Interventional Ultrasound of the Gallbladder and Biliary Tree". 10th Italian Congress on Interventional Ultrasound, Parma, Italy (3/25-26/93).
- L841 "The Pancreas and the Retroperitoneum". 13th Annual Residents' Radiology Review Course, University of California San Diego, School of Medicine, San Diego, California (4/18-23/93).
- L842 "Nonvascular Interventional Radiology". 13th Annual Residents' Radiology Review Course, University of California San Diego, School of Medicine, San Diego, California (4/18-23/93).
- L843 "Update on Abdominal Biopsy and Tumor Ablation". Spring Interventional Radiology Course, University of California San Diego, School of Medicine, San Diego, California (4/18-23/93).
- L844 "Current Concepts in Percutaneous Abscess Drainage". Spring Interventional Radiology Course, University of California San Diego, School of Medicine, San Diego, California (4/18-23/93).
- L845 "Chest Drainage". Spring Interventional Radiology Course, University of California San Diego, School of Medicine, San Diego, California (4/18-23/93).
- L846 "Percutaneous Cholecystostomy". Spring Interventional Radiology Course, University of California San Diego, School of Medicine, San Diego, California (4/18-23/93).
- L847 "Percutaneous Transhepatic Cholangiography and Percutaneous Biliary Drainage". Spring Interventional Radiology Course, University of California San Diego, School of Medicine, San Diego, California (4/18-23/93).
- L848 "Controversies and Current Concepts in Interventional Radiology". American Roentgen Ray Society 1993 Annual Meeting, San Francisco, California (4/25-30/93).
- L849 "Abscess Drainage". The Leading Edge in Diagnostic Ultrasound, Jefferson Medical College, Thomas Jefferson University, Atlantic City, New Jersey (5/13-14/93).

- L850 "Interventional Ultrasound for Biliary and Gallbladder Disease". The Leading Edge in Diagnostic Ultrasound, Jefferson Medical College, Thomas Jefferson University, Atlantic City, New Jersey (5/13-14/93).
- L851 "New Uses for Interventional Ultrasound". The Leading Edge in Diagnostic Ultrasound, Jefferson Medical College, Thomas Jefferson University, Atlantic City, New Jersey (5/13-14/93).
- L852 "Biliary Endoprosthesis: Current Status". International Special Procedures Conference, Chicago, Illinois (5/17-20/93).
- L853 "Biliary Stones: Interventional Techniques and Practical Tips". International Special Procedures Conference, Chicago, Illinois (5/17-20/93).
- L854 "Percutaneous Cholecystostomy: Practical Tips". International Special Procedures Conference, Chicago, Illinois (5/17-20/93).
- L855 "Percutaneous Abscess Drainage". The First Asian-Pacific Congress of Cardiovascular and Interventional Radiology, Seoul, Korea (5/24-27/93).
- L856 "Percutaneous Cholecystostomy". The First Asian-Pacific Congress of Cardiovascular and Interventional Radiology, Seoul, Korea (5/24-27/93).
- L857 "Percutaneous Gastroenterostomy". The First Asian-Pacific Congress of Cardiovascular and Interventional Radiology, Seoul, Korea (5/24-27/93).
- L858 "Management of Pancreatic Pseudocysts — Percutaneous Drainage". Medical Grand Rounds, Cedars-Sinai Medical Center, Los Angeles, California (5/28/93).
- L859 "Tumor Ablation". The Toronto Hospital, Department of Radiology, Toronto, Ontario, Canada (6/7/93).
- L860 "Interventional Radiology and the Law". 4th Annual Midwest Interventional Radiology Seminar, The University of Illinois, Peoria, Illinois (8/6-8/93).
- L861 "Percutaneous Jejunostomy and Cecostomy". 4th Annual Midwest Interventional Radiology Seminar, The University of Illinois, Peoria, Illinois (8/6-8/93).
- L862 "New Areas and Controversies in Percutaneous Abscess Drainage". 4th Annual Midwest Interventional Radiology Seminar, The University of Illinois, Peoria, Illinois (8/6-8/93).
- L863 "Pancreatic Collections: Surgery or No Surgery, That is the Question!". 4th Annual Midwest Interventional Radiology Seminar, The University of Illinois, Peoria, Illinois (8/6-8/93).

- L864 "New Stuff: Scopes, Percutaneous Ultrasound, and Tumor Ablation". 4th Annual Midwest Interventional Radiology Seminar, The University of Illinois, Peoria, Illinois (8/6-8/93).
- L865 "Imaging and Intervention for Complicated Pancreatitis". Imaging 1993/Santa Fe, Lovelace Medical Center, Santa Fe, New Mexico (8/9-13/93).
- L866 "Current Concepts in the Biliary Tract". Imaging 1993/Santa Fe, Lovelace Medical Center, Santa Fe, New Mexico (8/9-13/93).
- L867 "Complications in Interventional Radiology and How to Avoid Them". Imaging 1993/Santa Fe, Lovelace Medical Center, Santa Fe, New Mexico (8/9-13/93).
- L868 "Current Concepts in Metal Stents". Imaging 1993/Santa Fe, Lovelace Medical Center, Santa Fe, New Mexico (8/9-13/93).
- L869 "Disinfection and US — Guided Puncture. Problems and Solutions. American view". Interventional Ultrasound Congress, Herlev Hospital, University of Copenhagen, Denmark (9/7/93).
- L870 "Acute Cholecystitis — New Approaches". Interventional Ultrasound Congress, Herlev Hospital, University of Copenhagen, Denmark (9/8/93).
- L871 "New, Almost New, and Not So New Chairs". SCARD Meeting, American College of Radiology Annual Meeting, Orlando, Florida (9/17-19/93).
- L872 "Problems I Would Like to Have Solved". SCARD Meeting, American College of Radiology Annual Meeting, Orlando, Florida, (9/17-19/93).
- L873 "SCARD'S Help". American College of Radiology Annual Meeting, Orlando, Florida, (9/17-19/93).
- L874 "Percutaneous Drainage of Thoracic Collections". Sterling Winthrop National Guest Lecturer, Bethesda, MD, (9/23/93).
- L875 "Current Concepts in Interventional Radiology in the Biliary Tract". Grand Rounds, Uniformed Services, University of Health Sciences, Bethesda, MD, (9/23/93).
- L876 "Interventional Radiology for Complications of Pancreatitis". Sterling Winthrop National Guest Lecturer, Bethesda, MD, (9/24/93).
- L877 "Interventional Procedures-Gallbladder". Fourth Fall Interventional Radiological Society Meeting & Seminar, Fayetteville, Arkansas, (10/15-16/93).

- L878 "Interventional Procedures-Pancreatitis". Fourth Fall Interventional Radiological Society Meeting & Seminar, Fayetteville, Arkansas, (10/15-16/93)
- L879 "Percutaneous Therapy for Pancreatic Abscess". 23rd Annual Meeting of the Society of Gastrointestinal Radiologists, Maui, Hawaii, (2/14-18/94).
- L880 "Radiology and the Law, with an Emphasis on Interventional Radiology". vanSonnenberg E, Barton J, Wittich G. Computed Body Tomography — The Cutting Edge Course, Orlando, Florida (2/17-20/94).
- L881 "Percutaneous Tumor Ablation". Computed Body Tomography — The Cutting Edge, Orlando, Florida (2/17-20/94).
- L882 "Advances in Percutaneous Abscess Drainage". Computed Body Tomography — The Cutting Edge, Orlando, Florida (2/17-20/94).
- L883 "Advances in Percutaneous Abscess Drainage". Sun Valley Imaging Conference, Sun Valley, Idaho, (2/26-3/4/94).
- L884 "Interventional Ultrasound in the GU Tract". Harvard Ultrasound 1994 Course, Boston, Massachusetts (4/5-8/94).
- L885 "Complications of Laparoscopic Cholecystectomy: Coordinated Radiologic and Surgical Management in 21 Patients". Harvard Ultrasound 1994 course, Boston, Massachusetts (4/5-8/94).
- L886 "Imaging and Intervention for Complications of Pancreatitis". Texas Radiological Society, Austin, Texas, (4/15-17/94).
- L887 "Imaging and Interventional Radiology for Complicated Pancreatitis". Kansas City Surgical Society, Kansas City, Missouri, (4/20/94).
- L888 "Interventional Radiology and Complicated Pancreatitis". Houston Angio/Interventional Meeting, Houston, Texas (5/4/94).
- L889 "New Techniques in Interventional Radiology". Practical Interventional Radiology Course, Harvard Medical School, Boston, Massachusetts (5/9-11/94).
- L890 "Percutaneous Therapy for Pancreatic Abscess". Practical Interventional Radiology Course, Harvard Medical School, Boston, Massachusetts (5/9-11/94).
- L891 "Difficult Thoracic Lesions: CT-guided Biopsy Experience in 150 Cases". Practical Interventional Radiology Course, Harvard Medical School, Boston, Massachusetts (5/9-11/94).

- L892 "Percutaneous Abscess Drainage: Current Concepts". Practical Interventional Radiology Course, Harvard Medical School, Boston, Massachusetts (5/9-11/94).
- L893 "Cryotherapy for Prostate Cancer". Family Medicine Grand Rounds, St. Joseph's Hospital, Houston, Texas (5/26/94).
- L894 "Interventional Therapy". Memorial Hospital Southeast Medical Staff Grand Rounds, Houston, Texas (6/8/94).
- L895 "Percutaneous Abscess Drainage: Current Concepts". Wound Ostomy and Continence Nurses Society Meeting, Baltimore, Maryland (6/19-23/94).
- L896 "New Techniques in Interventional Radiology". The 16th Annual Diagnostic Imaging Seminar, Hospital of University of Pennsylvania, Martha's Vineyard, Massachusetts (7/11-15/94).
- L897 "Radiology and the Law, with an Emphasis on Interventional Radiology". The 16th Annual Diagnostic Imaging Seminar, Hospital of University of Pennsylvania, Martha's Vineyard, Massachusetts (7/11-15/94).
- L898 "Interventional Radiology in the Gallbladder: Diagnosis, Drainage, Dissolution, and Management of stones". The 16th Annual Diagnostic Imaging Seminar, Hospital of University of Pennsylvania, Martha's Vineyard, Massachusetts (7/11-15/94).
- L899 "Percutaneous Therapy for Pancreatic Abscess". The 16th Annual Diagnostic Imaging Seminar, Hospital of University of Pennsylvania, Martha's Vineyard, Massachusetts (7/11-15/94).
- L900 "Interventional Radiology in the Chest". The 16th Annual Diagnostic Imaging Seminar, Hospital of University of Pennsylvania, Martha's Vineyard, Massachusetts (7/11-15/94).
- L901 "Cryotherapy for Prostatic Carcinoma". The Pacific Northwest Radiological Society, 73rd Annual South Central Section Meeting, Vancouver, B.C. (8/27-31/94).
- L902 "Percutaneous Treatment of Major Complications of Pancreatitis". The First Texas Radiology Course by UTMB, New Orleans, Louisiana (9/8-11/94).
- L903 "Tumor Therapy — Alcohol & Cryotherapy". The First Texas Radiology Course by UTMB, New Orleans, Louisiana (9/8-11/94).
- L904 "The radiologist's role in the diagnosis and therapy of laparoscopic cholecystectomy complications". ACR Categorical Course, Orlando, Florida (9/17-18/94).

- L905 "Diagnosis and interventional treatment of complicated pancreatitis". ACR Categorical Course, Orlando, Florida (9/17-18/94).
- L906 "Interventional radiology and alleged medical malpractice". ACR Categorical Course, Orlando, Florida (9/17-18/94).
- L907 "Simple cysts". Therapies by Interventional Imaging, 2nd Workshop on Liver Tumor Ablation, Milan, Italy (10/6-9/94).
- L908 "Gallbladder". Therapies by Interventional Imaging, 2nd Workshop on Liver Tumor Ablation, Milan, Italy (10/6-9/94).
- L909 "Abscesses". Therapies by Interventional Imaging, 2nd Workshop on Liver Tumor Ablation, Milan, Italy (10/6-9/94).
- L910 "Radiologic involvement in cryotherapy in tumors". Diagnostic Radiology Update Meeting, Southwestern Medical School, Dallas, Texas (10/14/94).
- L911 "Imaging and intervention in complicated pancreatitis". Diagnostic Radiology Update Meeting, Southwestern Medical School, Dallas, Texas (10/14/94).
- L912 "Interventional Ultrasonography". International Symposium on Interventional Ultrasonography, Porto, Portugal (11/16-19/94).
- L913 "Ultrasound Guided Drainage of Pancreatic Cysts". International Symposium on Interventional Ultrasonography, Porto, Portugal (11/16-19/94).
- L914 "Percutaneous Biopsy and Tumor Ablation". 80th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, (11/27-12/2/94).
- L915 "Abdominal Interventions: Update for the 1990's". 80th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, (11/27-12/2/94).
- L916 "Percutaneous biopsy and tumor ablation". 80th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/27-12/2/94.
- L917 "Current Status and Future Horizons in Radiologic Imaging". University Association, University of Texas Medical Branch, Galveston, Texas (12/12/94).
- L918 "Interventional Uroradiology — Cryotherapy of the Prostate". Annual Postgraduate Course sponsored by The American College of Radiology and The Society of Uroradiology Meeting, Palm Beach, Florida (1/5-19/95).

- L919 "Interventional Techniques in Urinary Tract Infections". Annual Postgraduate Course sponsored by The American College of Radiology and The Society of Uroradiology Meeting, Palm Beach, Florida (1/15-19/95).
- L920 "Hard Cases and New Technologies in Interventional Radiology". The 13th Annual Practical Radiology at Whistler, Whistler, B.C., Canada (2/5-10/95).
- L921 "Interventional Radiology of the Chest". The Oregon Radiology Society Meeting, Portland, Oregon (2/13-16/95).
- L922 "Inflammatory Diseases of the Pancreas". The Annual Meeting of The Society of Gastrointestinal Radiologists, Tucson, Arizona (2/26-3/3/95).
- L923 "Cryotherapy and Tumor Ablation". Visiting Professor Lecture, University of Nebraska, Omaha, Nebraska (3/14-16/95).
- L924 "Imaging & Intervention for Complicated Pancreatitis". Visiting Professor Lecture, University of Nebraska, Omaha, Nebraska (3/14-16/95).
- L925 "Interventional Radiology of the Chest". Visiting Professor Lecture, University of Nebraska, Omaha, Nebraska (3/14-16/95).
- L926 "Percutaneous Drainage of Thoracic Abscesses & Fluid Collections". Refresher Course, Society of Thoracic Radiology, Amelia Island, Florida (3/19-23/95).
- L927 "Imaging and Interventional Radiology in Complicated Pancreatitis". The Armed Forces Institute of Pathology Course, Washington, D.C. (4/1-2/95).
- L928 "Interventional Radiology of the Gallbladder". The Armed Forces Institute of Pathology Course, Washington, D.C. (4/1-2/95).
- L929 "Imaging and Intervention of the Biliary Tract". The Armed Forces Institute of Pathology Course, Washington, D.C. (4/1-2/95).
- L930 "Imaging and Intervention in Pancreatitis". The Pacific Northwest Radiological Society Meeting, Dotter Memorial Lecture, Seattle, Washington (4/21-23/95).
- L931 "Practical Intervention in the Chest". The Pacific Northwest Radiological Society Meeting, Seattle, Washington (4/21-23/95).
- L932 "Cryotherapy". Radiologic Health Science Conference for Technologists, The University of Texas Medical Branch, Galveston, Texas (4/29/95).
- L933 "Abscess Drainage". The Los Angeles Radiological Society Meeting, 20th Annual Spring Diagnostic Ultrasound Conference, Los Angeles, California (5/5-7/95).

- L934 "Imaging and Intervention for Complicated Pancreatitis". Los Angeles Radiological Society Meeting, 20th Annual Spring Diagnostic Ultrasound Conference, Los Angeles, California (5/5-7/95).
- L935 "Ultrasound Guided Tumor Ablation". Los Angeles Radiological Society Meeting, 20th Annual Spring Ultrasound Conference, Los Angeles, California (5/5-7/95).
- L936 "Interventional Ultrasound of the Chest". Los Angeles Radiological Society Meeting, 20th Annual Spring Ultrasound Conference, Los Angeles, California (5/5- 7/95).
- L937 "New Dimensions in Spiral CT for Biliary and Pancreatic Imaging". American Gastroenterology Association, San Diego, California (5/15-17/95).
- L938 "Imaging and Intervention for Complicated Pancreatitis". The Turkish Congress of Medical Imaging and Interventional Radiology, Ankara, Turkey (6/18-22/95).
- L939 "Percutaneous Drainage of Thoracic Collections". The Turkish Congress of Medical Imaging and Interventional Radiology, Ankara, Turkey (6/18-22/95).
- L940 "Percutaneous Tumor Therapy Including Cryoablation". The Turkish Congress of Medical Imaging and Interventional Radiology, Ankara, Turkey (6/18-22/95).
- L941 "Biliary Interventions". The Texas Radiology Course II, Galveston, Texas (6/24-30/95).
- L942 "Gallbladder Intervention". The Texas Radiology Course II, Galveston, Texas (6/24- 30/95).
- L943 "Imaging and Intervention for Complicated Pancreatitis". The Texas Radiology Course II, Galveston, Texas (6/24-30/95).
- L944 "Cryotherapy of the Prostate". The Texas Radiology Course II, Galveston, Texas (6/24-30/95).
- L945 "Interventional Radiology and the Law". The Texas Radiology Course II, Galveston, Texas (6/24-30/95).
- L946 "Cryotherapy of Prostatic Cancer". Nurnberger Tagefr Radiologische Diagnostik ,95, Nurnberg, Germany (6/7-9/95).
- L947 "Intervention in the Chest". Urologic Imaging and Intervention 1995, Saskatchewan, Canada (8/1-6/95).
- L948 "Intervention and Imaging for Complications of Pancreatitis". Urologic Imaging and Intervention 1995, Saskatchewan, Canada (8/1-6/95).

- L949 "Interventional Radiology in the Gallbladder". Urologic Imaging and Intervention 1995, Saskatchewan, Canada (8/1-6/95).
- L950 "Chest Interventions". 5th Annual Midwest Interventional Radiology Seminar, Peoria, Illinois (8/18-20/95).
- L951 "New Approaches to Tumor Ablation". 5th Annual Midwest Interventional Radiology Seminar, Peoria, Illinois (8/18-20/95).
- L952 "Percutaneous Therapy for Pancreatic Abscess". 5th Annual Midwest Interventional Radiology Seminar, Peoria, Illinois (8/18-20/95).
- L953 "The State of the Department". The 19th Annual Cooley-Schreiber Radiological Society Meeting, Houston, Texas (10/6-8/95).
- L954 "Imaging the Liver and Biliary Tract". American College of Gastroenterology Annual Postgraduate Course II entitled "Management Issues in Gastroenterology Medical and Surgical Options", New York, New York (10/13-18/95).
- L955 "Evaluation of the Liver Mass". American College of Gastroenterology Annual Postgraduate Course II entitled "Management Issues in Gastroenterology — Medical and Surgical Options", New York, New York (10/13-18/95).
- L956 "Imaging and Intervention for Complicated Pancreatitis". Dutch Radiology Society, Radiology Centennial Meeting, Den Haag, The Netherlands (10/18-21/95).
- L957 "Image Guided Intervention". Dutch Radiology Society, Radiology Centennial Meeting, Den Haag, The Netherlands (10/18-21/95).
- L958 "Imaging and Intervention for Complicated Pancreatitis". British Society of Interventional Radiologists, London, England (11/17-18/95).
- L959 "Cryotherapy, A New Interventional Technique". British Society of Interventional Radiologists, London, England (11/17-18/95).
- L960 "Abdominal Interventions: Update for the 90's". (vanSonnenberg E, Mueller P) 81st Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois (11/26-12/1/95).

- L961 "Percutaneous Biopsy Including MR Imaging and Tumor Ablation ("How-to" Workshop)". (vanSonnenberg E, Goodacre B, Gazelle S, Chaljub G) 81st Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois (11/26-12/1/95).
- L962 "Imaging and Intervention of Complicated Pancreatitis". Guest Lecturer at The University of Texas Houston Health Science Center, Houston, Texas (1/11/96).
- L963 "Percutaneous Management of Biliary Strictures". American Society for Gastrointestinal Endoscopy / ERCP, New York, New York (3/1-3/96).
- L964 "Percutaneous Management of Benign Biliary Strictures". American Society for Gastrointestinal Endoscopy / ERCP, New York, New York (3/1-3/96).
- L965 "Pseudocyst and Pancreatic Fistulae — Percutaneous Therapy". American Society for Gastrointestinal Endoscopy / ERCP, New York, New York (3/1-3/96).
- L966 "Poking a Skunk and Liking It: Diagnostic and Interventional Radiologic Approach to Pancreatic Pseudocysts." Walter Reed Gastroenterology Symposium, McLean, Virginia (3/15-16/96).
- L967 "Imaging and Intervention for Complicated Pancreatitis". Radiology Update 1996, Costa Rica (4/17-21/96).
- L968 "Interventional Radiology in the Chest". Radiology Update 1996, Costa Rica (4/17-21/96).
- L969 "Interesting Cases". Radiology Update 1996, Costa Rica (4/17-21/96).
- L970 "Jaundice — Workup and Therapy". Family Medicine Grand Rounds, University of Texas Medical Branch, Galveston, Texas (5/2/96).
- L971 "Complicated Pancreatitis — Imaging and Intervention". Guest Lecturer at Brooke Army Hospital, San Antonio, Texas (8/9/96).
- L972 "Complicated Pancreatitis — Imaging and Intervention". Guest Lecturer at Wilford Hall Air Force Hospital, San Antonio, Texas (8/9/96).
- L973 "Complicated Pancreatitis - Imaging and Intervention". Guest Lecturer at the University of Texas Health Science Center, San Antonio, Texas (8/9/96).
- L974 "Imaging and intervention for complicated pancreatitis". The 7th International Congress on Interventional Ultrasound, Copenhagen, Denmark (9/1-7/96).
- L975 "Cryotherapy of the prostate and other organs". The 7th International Congress on Interventional Ultrasound, Copenhagen, Denmark (9/1-7/96).

- L976 "Biliary Update". Scottish Interventional Radiology Course, Western Infirmary, Glasgow, Scotland (9/17-19/96).
- L977 "Pancreatic Intervention". Scottish Interventional Radiology Course, Western Infirmary, Glasgow, Scotland (9/17-19/96).
- L978 Live Case: Biliary Drainage. Scottish Interventional Radiology Course, Western Infirmary, Glasgow, Scotland (9/17-19/96).
- L979 "Lots is New in Interventional Radiology at UTMB". The 20th Annual Cooley-Schreiber Radiological Society Meeting, Galveston, Texas (9/27-29/96).
- L980 "CT and MRI Imaging the Liver and Biliary Tree in 1996". The American Gastroenterology Association Fall Postgraduate Course, Chicago, Illinois (9/26-29/96).
- L981 "Abdominal Interventions: Update for the 1990s". (vanSonnenberg E, Mueller P) 82nd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois (12/1-6/96).
- L982 "Tracheobronchial Interventions". The Society of Thoracic Radiology Refresher Course: Thoracic Imaging 1997, Naples, Florida (1/19-23/97).
- L983 "Radiology of Abdominal Trauma". American Institute of Postgraduate Education Course, Radiology for Emergency and Primary Care Physicians, Kona, Hawaii, (1/25-29/97).
- L984 "Emergency Room Radiology of the Abdomen". American Institute of Postgraduate Education Course, Radiology for Emergency and Primary Care Physicians, Kona, Hawaii, (1/25-29/97).
- L985 "Radiology of Facial and Head Trauma". American Institute of Postgraduate Education Course, Radiology for Emergency and Primary Care Physicians, Kona, Hawaii, (1/25-29/97).
- L986 "Non-Traumatic Abdominal Radiology". Presented at the Radiology for Emergency and Primary Care Physicians Course, Kona, Hawaii (1/26-30/97).
- L987 "Radiology of Facial and Cranial Trauma". Presented at the Radiology for Emergency and Primary Care Physicians Course, Kona, Hawaii (1/26-30/97).
- L988 "Radiology of Abdominal, Pelvic, and Urologic Trauma". Presented at the Radiology for Emergency and Primary Care Physicians Course, Kona, Hawaii (1/26-30/97).

- L989 “Que es Nuevo y Cambiante en Radiologia Intevencionista?” 31st Mexican Society of Radiology and Imaging, Mexico City, Mexico (1/31-2/5/97).
- L990 “Crioterapia”. 31st Mexican Society of Radiology and Imaging, Mexico City, Mexico (1/31-2/5/97).
- L991 “Intervencionismo en el Torax”. 31st Mexican Society of Radiology and Imaging, Mexico City, Mexico (1/31-2/5/97).
- L992 “Radiologia Intervencionista de las Vias Biliares”. 31st Mexican Society of Radiology and Imaging, Mexico City, Mexico (1/31-2/5/97).
- L993 “Tomografia Computarizada de Vesicula y Vias Biliares”. 31st Mexican Society of Radiology and Imaging, Mexico City, Mexico (1/31-2/5/97).
- L994 “Imagenologia e Intervencion en la Pancreatitis Complicada”. 31st Mexican Society of Radiology and Imaging, Mexico City, Mexico (1/31-2/5/97).
- L995 “What’s New in Interventional Radiology?” St. Paul’s Hospital, Hulburt Auditorium, University of British Columbia, Whistler, B.C., Canada (2/7/97).
- L996 “What’s New in Intervention?” The 15th Annual Practical Radiology at Whistler, Whistler, B.C., Canada (2/9-14/97).
- L997 “Percutaneous Radiologic Drainage of Pancreatic Abscesses”. 1997 Americas Hepato-Pancreato-Biliary Congress, Miami, Florida (2/20-23/97).
- L998 “Percutaneous Therapy for Pancreatic Abscess”. The Society of Gastrointestinal Radiologists, Cancun, Mexico (3/9-14/97).
- L999 “Interventional Radiologic Procedures for Complicated Gynecologic Disease”. The Society for the Advancement of Women’s Imaging First Symposium ñ Women’s Imaging. Washington, D.C. (4/3-6/97).
- L1000 “Ultrasound-Guided Tumor Ablation”. Los Angeles Radiological Society (LARS), Los Angeles, California (4/10/97)
- L1001 “New Horizons from an Interventional Radiologist”. Texas Radiology Course IV — 1997, Houston, Texas (4/25-27/97).
- L1002 “What’s New in Interventional Radiology? — Lots!!”. New Orleans Society Spring Roentgen Conference, New Orleans, Louisiana (4/29-5/3/97).
- L1003 “Radiologic Tumor Ablation — Challenging Cases & Teaching Points in IR”. New Orleans Society Spring Roentgen Conference, New Orleans, Louisiana (4/29-5/3/97).

- L1004 "Imaging and Intervention for Major Pancreatic Inflammatory Disease". New Orleans Society Spring Roentgen Conference, New Orleans, Louisiana (4/29-5/3/97).
- L1005 "Current Concepts in Percutaneous Biliary Procedures". New Orleans Society Spring Roentgen Conference, New Orleans, Louisiana (4/29-5/3/97).
- L1006 "Challenging Cases and Teaching Points in Interventional Radiology". New Orleans Society Spring Roentgen Conference, New Orleans, Louisiana (4/29-5/3/97).
- L1007 "Advances in Abdominal Intervention" (vanSonnenberg E, Mueller, P). The American Roentgen Ray Society (97th Annual Meeting), Boston, Massachusetts (5/4-9/97).
- L1008 "New Approaches to Imaging the Pancreas". American Gastroenterology Association Meeting, Washington, D.C. (5/10-11/97).
- L1009 "Tracheobronchial Stents — Practical Tips". International Special Procedures Conference, Chicago, Illinois (5/12-15/97).
- L1010 "Interventional Radiology for Laparoscopic Cholecystectomy Complications". International Special Procedures Conference, Chicago, Illinois (5/12-15/97).
- L1011 "Interventional Biliary Procedures". International Special Procedures Conference, Chicago, Illinois (5/12-15/97).
- L1012 "Gastrointestinal Bleeding: Diagnosis and Management". European Society of Gastrointestinal Radiology, Amsterdam, The Netherlands (6/23-30/97).
- L1013 "Pancreatic Disease". European Society of Gastrointestinal Radiology, Amsterdam, The Netherlands (6/23-30/97).
- L1014 "Interventional Radiology in the Gallbladder". Practical Imaging and Intervention, University of Wisconsin, Manitoba, Canada (7/20-24/97).
- L1015 "Interventional Radiology in the Chest". Practical Imaging and Intervention, University of Wisconsin, Manitoba, Canada (7/20-24/97).
- L1016 "Alcohol Injection and Other Techniques". Liver Day '97 Symposium, University of British Columbia, Vancouver, British Columbia (7/25/97).
- L1017 "Intervention in Complicated Pancreatitis". The Abdominal Imaging Offshore Update, Grand Cayman, Cayman Islands (9/22-26/97).

- L1018 “Interventional Radiology in the Genitourinary Tract”. The Abdominal Imaging Offshore Update, Grand Cayman, Cayman Islands (9/22-26/97).
- L1019 “Interventional Radiology in the Biliary Tract”. The Abdominal Imaging Offshore Update, Grand Cayman, Cayman Islands (9/22-26/97).
- L1020 “Tumor Ablation — Part 1”. The Abdominal Imaging Offshore Update, Grand Cayman, Cayman Islands (9/22-26/97).
- L1021 “Tumor Ablation — Part 2”. The Abdominal Imaging Offshore Update, Grand Cayman, Cayman Islands (9/22-26/97).
- L1022 “Current Concepts in Percutaneous Abscess Drainage”. The Abdominal Imaging Offshore Update, Grand Cayman, Cayman Islands (9/22-26/97).
- L1023 “Percutaneous Drainage of Thoracic Collections”. The Abdominal Imaging Offshore Update, Grand Cayman, Cayman Islands (9/22-26/97).
- L1024 “Interesting and Challenging Cases in Interventional Radiology”. The Abdominal Imaging Offshore Update, Grand Cayman, Cayman Islands (9/22-26/97).
- L1025 “New Techniques in Interventional Radiology: Something for Everyone”. 26th Annual Montrose Fall Clinics Course, Montrose, Colorado (9/26-28/97).
- L1026 “Cryotherapy: a Cool Tool to Treat Cancer and Other Disorders”. 26th Annual Montrose Fall Clinics Course, Montrose, Colorado (9/26-28/97).
- L1027 “Interventional Radiology of the Biliary Tract”. Joint Meeting of the Texas Society for Gastroenterology and Endoscopy and the American College of Gastroenterology, Galveston, Texas (9/19-21/97).
- L1028 “Current Concepts in Percutaneous Abscess Drainage”. 7th NICER Course, Seville, Spain (10/22-29/97).
- L1029 “Biliary Imaging and Intervention Update”. 7th NICER Course, Seville, Spain (10/22-29/97).
- L1030 “Advances in Interventional Radiology”. 51st Annual Congress, Indian Radiological and Imaging Association, Chandigarh, India (1/2-6/98).
- L1031 “Interventional Ultrasound”. 51st Annual Congress, Indian Radiological and Imaging Association, Chandigarh, India (1/2-6/98).
- L1032 “Interventions in Acute Pancreatitis”. 51st Annual Congress, Indian Radiological and Imaging Association, Chandigarh, India (1/2-6/98).

- L1033 "Tumor Ablation". King Edward Medical School, Bombay, India (1/9/98).
- L1034 "Non-Traumatic Abdominal Radiology". American Institute of Postgraduate Education Course, Radiology for Emergency and Primary Care Physicians, Kona, Hawaii, (2/21-28/98).
- L1035 "Radiology of Facial & Cranial Trauma". American Institute of Postgraduate Education Course, Radiology for Emergency and Primary Care Physicians, Kona, Hawaii, (2/21-28/98).
- L1036 "Radiology of Abdominal, Pelvic and Urologic Trauma". American Institute of Postgraduate Education Course, Radiology for Emergency and Primary Care Physicians, Kona, Hawaii, (2/21-28/98).
- L1037 "Pancreatitis. To Needle, Drain, or Observe?" The Society of Gastrointestinal Radiologists, Rancho Mirage, California (2/25-3/1/98).
- L1038 "Radiologic procedures for complicated gynecologic disease". American Roentgen Ray Society (98th Annual Meeting), San Francisco, California (4/27-29/98).
- L1039 "Interventional Radiology for Complicated Pancreatitis". The Texas Radiology Course VI by UTMB ñ Interventional Radiology, Houston, Texas, 5/8-10/98.
- L1040 "Tumor Ablation". The Texas Radiology Course VI by UTMB ñ Interventional Radiology, Houston, Texas, 5/8-10/98.
- L1041 "New Techniques in Interventional Radiology". The Texas Radiology Course VI by UTMB ñ Interventional Radiology, Houston, Texas, 5/8-10/98.
- L1042 "Medical Legal Aspects of Interventional Radiology". The Texas Radiology Course VI by UTMB ñ Interventional Radiology, Houston, Texas, 5/8-10/98.
- L1043 "Image Guided Cryotherapy: Newest Applications". Keynote Speaker at the International Special Procedures Conference, Chicago, Illinois (5/10-14/98).
- L1044 "Stenting of Tracheobronchial Tree How, With What, and Why". International Special Procedures Conference, Chicago, Illinois (5/10-14/98).
- L1045 "Interventional Radiology for Gynecologic and Obstetric Diseases". International Special Procedures Conference, Chicago, Illinois (5/10-14/98).
- L1046 "Percutaneous Drainage of Pancreatic Pseudocysts". American Gastroenterological Association, New Orleans, Louisiana (5/17-20/98).

- L1047 "Radiologic Strategy for Pancreatic Collections ñ CT Scan, Aspiration, Drainage". Joint Clinical Symposium at the American Gastroenterological Association, New Orleans, Louisiana (5/17-20/98).
- L1048 "Peritoneal Abscesses Imaging and Intervention". European Society of Gastrointestinal and Abdominal Radiology 9th Annual Meeting & Postgraduate Course, Marbella, Spain (5/24-28/98).
- L1049 "Percutaneous Cholecystostomy". European Society of Gastrointestinal and Abdominal Radiology 9th Annual Meeting & Postgraduate Course, Marbella, Spain (5/24-28/98).
- L1050 "Administrative Aspects of Breast Imaging". Family Medicine Grand Rounds, University of Texas Medical Branch, Galveston, Texas (6/17/98).
- L1051 "Current Concepts in Chest Intervention". Internal Medicine Grand Rounds, University of Texas Medical Branch, Galveston, Texas (7/9/98).
- L1052 "Interventional Radiology of Complicated Pancreatitis". University of Louisville Medical Center, Louisville, Kentucky (9/16/98).
- L1053 "Interventional Radiology in the Chest". Greater Louisville Radiological Society, Louisville, Kentucky (9/16/98).
- L1054 "Case Discussions". 1998 Penrose Cancer Conference, Penrose-St. Francis Health Services, Colorado Springs, Colorado (9/18-19/98).
- L1055 "Mechanisms of Cryotherapy". 2nd International Conference, Percutaneous Image-Guided Therapies of Neoplastic Diseases, Milan, Italy (10/2/98).
- L1056 "Cryoablation for Prostate Cancer". 2nd International Conference, Percutaneous Image-Guided Therapies of Neoplastic Diseases, Milan, Italy (10/2/98).
- L1057 "What Should a Radiology Administrator Know About Breast Imaging? Lots!" The UTMB Texas Radiology Course VIII ñ Breast Imaging Update, Houston, Texas (10/23-25/98).
- L1058 "Interventional Radiology for Gynecologic and Obstetrics Disorders". 84th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois (11/29-12/4/98).
- L1059 "US-Guided Percutaneous Abscess Drainage". 84th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois (11/29-12/4/98).

- L1060 "What's New in Interventional Radiology?" Michigan Radiological Society, Detroit, Michigan (1/7/99).
- L1061 "Image-Guided Abscess Drainage and Catheter Maintenance". Visiting Professor, University of Michigan, Department of Radiology, Ann Arbor, Michigan (1/8/99).
- L1062 "New Uses of Cryotherapy". Harvard Medical School, Brigham and Women's Hospital, Boston, Massachusetts (1/13/99).
- L1063 "Percutaneous Drainage and Access Procedures". Technique and Technology in 28th Educational & Scientific Symposium, The Society of Critical Care Medicine, San Francisco, California (1/23-27/99).
- L1064 "Non-Traumatic Abdominal Radiology". American Institute of Postgraduate Education, Snowbird, Utah (2/8-12/99).
- L1065 "Radiology of Facial & Cranial Trauma". American Institute of Postgraduate Education, Snowbird, Utah (2/8-12/99).
- L1066 "Radiology of Abdominal, Pelvic, and Urologic Trauma". American Institute of Postgraduate Education, Snowbird, Utah (2/8-12/99).
- L1067 "Problems in Percutaneous Abscess Drainage". Society for Cardio-Vascular and Interventional Radiologists — 24th Annual Scientific Meeting, Orlando, Florida (3/20-25/99).
- L1068 "Pancreatitis". Society of Gastrointestinal Radiologists, Palm Beach, Florida (3/20-26/99).
- L1069 "Hepatocellular Carcinoma." With Brian Goodacre, MD. Society of Gastrointestinal Radiologists, Palm Beach, Florida (3/20-26/99).
- L1070 "Prostate Cryotherapy". Society of Gastrointestinal Radiologists, Palm Beach, Florida (3/20-26/99).
- L1071 "Interventional Radiology in the Chest". Mayo Clinic, Rochester, Minnesota (3/30/99).
- L1072 "State of the Art in Interventional Radiology — We've Come a Long Way Baby". California Society of Radiologic Technologists, 63rd Annual Meeting, San Diego, California (4/8-10/99) (Keynote Speech).
- L1073 "What's Hot and Cold in Percutaneous Tumor Therapy". California Society of Radiologic Technologists, 63rd Annual Meeting, San Diego, California (4/8-10/99).

- L1074 “Interventional Radiology in the Gynecologic and Obstetric Patient”. The Society for Advancement of Women’s Imaging, McLean, Virginia (4/15-18/99).
- L1075 “Pancreatitis: Pathophysiology, Imaging and Therapy”. The American Roentgen Ray Society (99th Annual Meeting), New Orleans, Louisiana (5/12/99).
- L1076 “Interventional Radiology and the Law.” The International Special Procedures Conference “Advanced Course in Vascular and Interventional Radiology,” Oak Brook, Illinois (5/17-20/99).
- L1077 “Interventional Radiology for Gynecologic and Obstetric Diseases”. The International Special Procedures Conference “Advanced Course in Vascular and Interventional Radiology”, Oak Brook, Illinois (5/17-20/99).
- L1078 “Radiologic Therapy for Laparoscopic Cholecystectomy Complications”. The International Special Procedures Conference “Advanced Course in Vascular and Interventional Radiology”, Oak Brook, Illinois (5/17-20/99).
- L1079 “US Guided Percutaneous Abscess Drainage.” 8th Annual Congress in Interventional Ultrasound, Herlev Hospital, University of Copenhagen, Denmark
- L1080 “Alternative Guidance Methods.” 8th Annual Congress in Interventional Ultrasound, Herlev Hospital, University of Copenhagen, Denmark
- L1081 “Interventional Radiology for Complicated Diagnoses” 8th Annual Midwest Seminar in Interventional Radiology, Chicago, Illinois (7/9/99)
- L1082 “Percutaneous Tumor Ablation” ; 8th Annual Midwest Seminar in Interventional Radiology, Chicago, Illinois (7/9/99)
- L1083 “What’s New in Interventional Radiology; 8th Annual Midwest Seminar in Interventional Radiology, Chicago, Illinois (7/9/99)
- L1084 “Imaging and Intervention for Complicated Pancreatitis”; Radiology Grand Rounds, University of Chicago, Chicago, Illinois (9/22/99).
- L1085 “What’s New and Challenging in Interventional Radiology”, Radiology Grand Rounds, University of Chicago, Chicago, Illinois (9/22/99).
- L1086 “Interventional Radiology in the Biliary Tract”. Winnipeg, Canada (10/94)
- L1087 “Interventional Radiology in the Chest”. Winnipeg, Canada (10/94)
- L1088 “Interventional Radiology of pancreatitis”. Winnipeg, Canada (10/94)

- L1089 “Interventional Radiology in the Chest” Radiology and Interesting Cases Grand Rounds, Boston University, Boston, Mass. (1/20/2000)
- L1090 “Abdominal Interventions: New Insights into Routine and Difficult Case Management”; Presented with Peter R. Mueller, MD , 1999 RSNA, Chicago, Illinois (12/3/99)
- L1091 “Interventional Procedures for Gynecologic & Obstetric Disease”; 1999 RSNA, Chicago, Illinois.
- L1092 “Interventional Radiology” European Society of Gastrointestinal Radiologists, , (ESGAR) Tubingen, Germany, 1999
- L1093 “Percutaneous Abscess Drainage”, California Society of Radiology Technologists, University of California Medical Center, San Diego, 1999.
- L1094 “Can New Imaging Technologies Influence Therapy?” Presented at GI Cancer: State of the Science Symposium, Washington, DC 2000.
- L1095 “Interventional Percutaneous Tumor Ablations”, Special Procedures Conference, Chicago, IL, 7/7-9/99
- L1096 “Percutaneous Tumor Ablation”, NCI — National Cancer Institute, Washington, DC (2/15/00).
- L1097 “Complicated Pancreatitis: Imaging and Intervention”, University of Medicine and Dentistry of New Jersey, Department of Radiology Grand Rounds, Newark, NJ (2/24/2000).
- L1098 “Current Topics in Interventional Radiology”, University of Medicine and Dentistry of New Jersey, Department of Radiology Grand Rounds, Newark, NJ (2/24/00).
- L1099 “US-Guided Abdominal Interventions”, Society of Gastrointestinal Radiologists, Lihue, Hawaii (3/10-17/00)
- L1100 “Abscess Drainage (Drenado de Absesos)”, NICER Conference, Mexico City, Mexico (3/22- 23/00).
- L1101 “Percutaneous Therapy (Terapia Percutanea y Endoscopica)” NICER Conference, Mexico City, Mexico (3/22- 23/00).
- L1102 “Interventional Imaging of the Pancreas (Imagen e Intervenciones en el Pancreas)” NICER Conference, Mexico City, Mexico (3/22- 23/00).
- L1103 “Drainage of Abdominal Abscesses and cysts: techniques and outcomes” World Federation of Ultrasound in Medicine, Florence, Italy (5/10/2000).

- L1104 “Percutaneous Gastrostomy (PG) and Gastroenterostomy: from the Lab to a Routine Radiology Procedure” Digestive Disease Week, American Society of Gastrointestinal Endoscopy San Diego, CA (5/20-24-/00).
- L1105 “Pancreatic Necrosis” Digestive Disease Week, American Gastrointestinal Association San Diego, CA (5/20-24-/00).
- L1106 “Interventional Radiology for Gynecologic & Obstetric Diseases” International Special Procedures Conference Oak Brook, IL (7/6-10/00).
- L1107 “Keynote Presentation: Cryotherapy and Novel Image Guidance Approaches”, Cryobiology 2000, 37th Annual Meeting of The Society of Cryobiology in Association with the Society for Low Temperature Biology Cambridge, MA (8/1/00).
- L1108 “Advances in Interventional Radiology”, Beth Israel Deaconess, Department of Radiology Grand Rounds, Boston, MA (8/10/00)
- L1109 “Radiologic Ablation of Hepatic Tumors”, BWH/HMS Department of Surgery Grand Rounds, 9/00
- L1110 “Radiologic Ablation of Hepatic Tumors”, BWH/HMS Department of Gastroenterology Grand Rounds, 9/00
- L1111 “Is Regional Therapy of Value?” DFCI Harvard Gastrointestinal Oncology Program Retreat, Boston, MA (9/18/00)
- L1112 “Interventional Radiology for Complicated Acute Pancreatitis”; MRI/CT Update 2000. Brigham and Women’s Hospital/Harvard Medical School, Boston, MA (10/10/00)
- L1113 “CT/MR Guided Intervention”; MR/CT Update 2000, Brigham and Women’s Hospital/Harvard Medical School, Boston, MA (10/11/00)
- L1114 “Interventional Radiology in the Chest”; Chest Imaging 2000, Brigham and Women’s Hospital/Harvard Medical School, Boston, MA (11/1/00)
- L1115 “Radiologic Imaging: What is the Most Sensitive Radiologic Test for Diagnosing Early Chronic Pancreatitis?”; Combined Meeting of the International Association of Pancreatology and the American Pancreatic Association, Chicago, IL (11/2/00)
- L1116 “Percutaneous Tumor Ablation”; Fifth International Symposium Vascular and Interventional Radiology, Brigham and Women’s Hospital/Harvard Medical School, Boston, MA (11/8/00)

- L1117 "Imaging and Intervention for Complicated Pancreatitis"; The Chilean Radiology Society and The Society of Gastrointestinal Radiologists International Education Conference, LaSerena, Chile (11/8/00)
- L1118 "Imaging and Intervention for Complications of Laparoscopic Cholecystectomy"; The Chilean Radiology Society and The Society of Gastrointestinal Radiologists International Education Conference, LaSerena, Chile (11/8/00)
- L1119 "Current Concepts in Percutaneous Biopsy"; The Chilean Radiology Society and The Society of Gastrointestinal Radiologists International Education Conference, LaSerena, Chile (11/8/00)
- L1120 "Percutaneous Abscess Drainage 2000"; The Society of Gastrointestinal Radiologists International Education Conference, LaSerena, Chile (11/9/00)
- L1121 "IR for Gynecologic and Obstetric Disorders"; RSNA 00, Chicago, IL (11/29/00)
- L1122 "Abdominal Interventions: New Insights into Routine and Difficult Case Management"; RSNA 00, Chicago, IL (11/30/00)
- L1123 "Percutaneous Tumor Ablation"; Radiology Grand Rounds, Children's Hospital, Department of Radiology, Boston, MA (2/12/01)
- L1124 "Imaging and Intervention for Complicated Pancreatitis"; University of Minnesota Medical School, Department of Radiology, Brain to Pelvis: 2000 Conference, Beaver Creek, CO (2/25/01)
- L1125 "Interventional Radiology in the Chest"; University of Minnesota Medical School, Department of Radiology, Brain to Pelvis: 2000 Conference, Beaver Creek, CO (2/26/01)
- L1126 "Radiologic Tumor Ablation"; University of Minnesota Medical School, Department of Radiology, Brain to Pelvis: 2000 Conference, Beaver Creek, CO (2/28/01)
- L1127 "Current Concepts in Abscess Drainage"; University of Minnesota Medical School, Department of Radiology, Brain to Pelvis: 2000 Conference, Beaver Creek, CO (3/21/01)
- L1128 "Current Concepts in Biliary Intervention"; 31st Jornada Paulista de Radiologia Conference, Sao Paulo, Brazil (4/12/01)
- L1129 "Radiologic Tumor Ablation"; 31st Jornada Paulista de Radiologia Conference, Sao Paulo, Brazil (4/12/01)
- L1130 "Imaging and Interventional Radiology for Complicated Pancreatitis"; 31st Jornada Paulista de Radiologia Conference, Sao Paulo, Brazil (4/12/01)

- L1131 "Current Concepts in Percutaneous Abscess Drainage"; 31st Jornada Paulista de Radiologia Conference, Sao Paulo, Brazil (4/13/01)
- L1132 "Interesting and Challenging Cases in Interventional Radiology"; 31st Jornada Paulista de Radiologia Conference, Sao Paulo, Brazil (4/13/01)
- L1133 "Current Concepts in Hepatic Intervention"; 57th Annual Scientific Meeting of the RANZCR, Melbourne, Australia (10/18/01)
- L1134 "Renal Intervention"; Annual Scientific Meeting of the RANZCOR, Melbourne, Australia (10/18/01)
- L1135 "Radiologic Tumor Ablation"; Annual Scientific Meeting of the RANZCOR, Melbourne, Australia (10/20/01)
- L1136 "Imaging and Intervention of Pancreas"; Annual Scientific Meeting of the RANZCOR, Melbourne, Australia (10/18/01)
- L1137 "Interesting Oncologic Cases"; 52nd Annual Scientific Meeting, Christchurch Hospital, Christchurch, New Zealand (10/15/01)
- L1138 "Interventional Ultrasound"; 52nd Annual Scientific Meeting, Christchurch Hospital, Christchurch, New Zealand (10/15/01)
- L1139 "Pancreatic Imaging and Intervention"; 52nd Annual Scientific Meeting, Christchurch Hospital, Christchurch, New Zealand (10/15/01)
- L1140 "Interventional Radiology for Gynecologic and Obsteric Disease"; 52nd Annual Scientific Meeting of the RANZCOR, Christchurch Hospital, Christchurch, New Zealand (10/15/01)
- L1141 "Challenging Interventional Radiology Cases"; 52nd Annual Scientific Meeting of the RANZCR, Queen Elizabeth Hospital, Adelaide, Australia (10/22/01)
- L1142 "Percutaneous Abscess Drainage"; 52nd Annual Scientific Meeting of the RANZCR, Flinders Medical Centre, Adelaide, Australia (10/23/01)
- L1143 "Percutaneous Tumor Ablation"; 52nd Annual Scientific Meeting of the RANZCR, Royal Adelaide Hospital, Adelaide, Australia (10/23/01)
- L1144 "Oncologic Zebras from Dana Farber Cancer Institute"; 52nd Annual Scientific Meeting of the RANZCR, Royal Adelaide Hospital, Adelaide, Australia (10/23/01)
- L1145 "Percutaneous Radiologic Biopsy"; 52nd Annual Scientific Meeting of the RANZCR, Royal Hobart Hospital, Hobart, Tasmania (10/24/01)

- L1146 "Interesting Oncological Cases"; 52nd Annual Scientific Meeting of the RANZCR, Royal Hobart Hospital, Hobart, Tasmania (10/24/01)
- L1147 "Interventional Imaging"; 52nd Annual Scientific Meeting of the RANZCR, Royal Brisbane Hospital, Brisbane, Australia (10/29/01)
- L1148 "Percutaneous Drainage of Thoracic Collections"; 52nd Annual Scientific Meeting of the RANZCR, Royal Brisbane Hospital, Brisbane, Australia (10/29/01)
- L1149 "Interventional Radiology for Complicated Pancreatitis"; 52nd Annual Scientific Meeting of the RANZCR, Royal Brisbane Hospital, Brisbane, Australia (10/29/01)
- L1150 "Percutaneous Abscess Drainage"; 52nd Annual Scientific Meeting of the RANZCR, Princess Alexandra Hospital, Brisbane, Australia (10/30/01).
- L1151 "Radiologic Biopsy"; 52nd Annual Scientific Meeting of the RANZCR, Princess Alexandra Hospital, Brisbane, Australia (10/30/01).
- L1152 "Percutaneous Chest Interventional"; 52nd Annual Scientific Meeting of the RANZCR, Princess Alexandra Hospital, Brisbane, Australia (10/30/01).
- L1153 "Percutaneous Tumor Ablation"; 52nd Annual Scientific Meeting of the RANZCR, Princess Alexandra Hospital, Brisbane, Australia (10/30/01).
- L1154 "Pancreatic Imaging and Interventional Radiology"; 52nd Annual Scientific Meeting of the RANZCR, Princess Alexandra Hospital, Brisbane, Australia (10/30/01).
- L1155 "Interventional Radiology in Gynecologic Disease"; 87th Annual Meeting of the RSNA, Chicago, IL (11/01)
- L1156 "Necrotic Biloma After RF Ablation of Hepatic Metastases"; Meeting of the ISHBPR, Chicago, IL (11/01)
- L1157 "Current Concepts in Percutaneous Abscess Drainage"; World Class Radiology, Orlando, FL (12/01)
- L1158 "Intervention II"; Practical Radiology at Whistler, Whistler, B.C., Canada (2/02)
- L1159 "Interventional Radiology for Pancreatitis"; University of Medicine and Dentistry of New Jersey, Newark, New Jersey (2/28/02)
- L1160 "Tumor Ablation"; University of Medicine and Dentistry of New Jersey, Newark, New Jersey (2/28/02)
- L1161 "Imaging and Intervention for Complicated Pancreatitis"; Congreso Caribe, Santo Domingo, Dominican Republic (3/7/02)

- L1162 "Percutaneous Tumor Ablation"; Congreso Caribe, Santo Domingo, Dominican Republic (3/7/02)
- L1163 "Biliary Imaging and Intervention"; Congreso Caribe, Santo Domingo, Dominican Republic (3/8/02)
- L1164 "Percutaneous Abscess Drainage Update"; Congreso Caribe, Santo Domingo, Dominican Republic (3/8/02)
- L1165 "Advances in Interventional Ultrasound – Current Concepts in Percutaneous Abscess Drainage and Related Procedures"; AIUM, Nashville, TN (3/11/02)
- L1166 "Abdominal Abscess Drainage: State of the Art"; Annual Meeting of the SGR and Abdominal Radiology Course, Orlando, FL (4/16/02)
- L1167 "Abdominal Imaging: Therapy - The Future of Interventional Radiology"; Annual Meeting of the SGR and Abdominal Radiology Course, Orlando, FL (4/19/02)
- L1168 "Oncologic Zebras from Dana Farber"; 56th Annual Meeting of the PNWRS, Victoria, BC, Canada (4/20/02)
- L1169 "Imaging and Interventional Radiology for Complicated Pancreatitis"; 56th Annual Meeting of the PNWRS, Victoria, BC, Canada (4/20/02)
- L1170 "MRI/CT update"; MRI/CT Update Course, Boston, MA (10/14/02)
- L1171 Gastrointestinal Oncology Grand Rounds, "Tumor Ablation for the Gastroenterologist", Department of Medicine, Brigham and Women's Hospital, Boston, MA, 11/02.
- L1172 "Abdominal Interventions: New insights into routine and difficult case management". Presented at the 87th Scientific Assembly and Annual Meeting of the Radiological Society of North America, RSNA, Chicago, Illinois, 11/25-11/30/02
- L1173 Thoracic Oncology Grand Rounds, "Tumor Ablation", Dana Farber Cancer Institute, Boston, MA, 12/02.
- L1174 "Interventional Radiology in the Chest"; World Class Radiology, Lake Buena Vista, Florida (12/9/02)
- L1175 "Pancreatic Imaging and Intervention"; World Class Radiology, Lake Buena Vista, Florida (12/9/02)
- L1176 "Percutaneous Radiologic Ablation of Tumors"; Roxbury Society for Medical Improvement, Brookline, MA (1/23/03)

- L1177 "Percutaneous Management of Liver Abscesses"; Digestive Diseases at the Caribbean XIV, San Juan, Puerto Rico (3/7/03)
- L1178 "Radiologic Tumor Ablation". Digestive Diseases at the Caribbean XIV, San Juan, Puerto Rico (3/8/03)
- L1179 "Imaging and Intervention of Liver Masses"; Digestive Diseases at the Caribbean XIV, San Juan, Puerto Rico (3/9/03)
- L1180 "Tumor Ablation for the Gastroenterologist", Grand Rounds, Department of Medicine, Division of Gastroenterology, Brigham and Women's Hospital (3/03)
- L1181 "Minicourse: Women's Health in Imaging before Menopause. Interventional Procedures" Presented at the 87th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 11/25-11/30/02
- L1182 "RF Ablation of Lung Lesions", Annual meeting of Society of Cardiovascular and Interventional Radiology, Salt Lake City, 4/03
- L1183 "Tumor Ablation". The Children's Hospital of Philadelphia, Visiting Professor. Philadelphia, PA, 6/19/03 – 6/20/03.
- L1184 "Interventional Radiology in the Pancreas". The Children's Hospital of Philadelphia, Visiting Professor. Philadelphia, PA, 6/19/03 – 6/20/03.
- L1185 "Interventional Radiology in the Chest". The Children's Hospital of Philadelphia, Visiting Professor. Philadelphia, PA, 6/19/03 – 6/20/03.
- L1186 "Interventional Radiology in the Chest". Hawaii Radiology Society, Masters Radiology Conference, Island of Maui, Hawaii , 2/14/04 — 2/14/04.
- L1187 "Imaging and Interventional Radiology for Complicated Pancreatitis. Hawaii Radiology Society, Masters Radiology Conference, Island of Maui, Hawaii , 2/14/04 — 2/14/04.
- L1188 "Radiologic Tumor Ablation". Hawaii Radiology Society, Masters Radiology Conference, Island of Maui, Hawaii , 2/14/04 — 2/14/04.
- L1189 "Percutaneous Abscess Drainage". Hawaii Radiology Society, Masters Radiology Conference, Island of Maui, Hawaii , 2/14/04 — 2/14/04.
- L1190 "Imaging and Intervention in the Biliary Tract". Hawaii Radiology Society, Masters Radiology Conference, Island of Maui, Hawaii , 2/14/04 — 2/14/04.
- L1191 " Tumor Ablation with Radiofrequency, Cryotherapy or Microwave Systems". Society of Interventional Radiology, Phoenix, Arizona, 4/27/04 — 4/29/04.

- L1192 “Lessons Learned: Biopsy and Drainage”. Society of Interventional Radiology, Phoenix, Arizona, 4/27/04 — 4/29/04.
- L1193 “Image-Guided Ablation of Thoracic Tumors”. Society of Thoracic Radiology, Rancho Mirage, California, 4/1/04.
- L1194 “The Ideal Interventional Suite — Workflow Barriers of Today and How to Overcome”. Medical Advisory Board of Interventional Computed Tomography, Lisbon, Portugal, 4/17/04 — 4/18/04.
- L1195 “Complications of Tumor Ablation”. Fire & Ice Tumor Ablation Symposium & Workshops, Las Vegas, Nevada, 10/20/05 — 10/21/05.
- L1196 “Bridging Gaps — Experiences Learned in Increasing Referral Patterns from a Major Cancer Center”. Fire & Ice Tumor Ablation Symposium & Workshops, Las Vegas, Nevada, 10/20/05 — 10/21/05.
- L1197 “How I Do It: Patient Selection and Avoiding Complications for Lung Tumor Ablation”. Presented at the 91st Annual Meeting of the Radiological Society of North America, Chicago, Illinois, 2005.
- L1197 Dupuy DE, vanSonnenbergE, Suh R. Lung Panel Discussion. 91st Scientific Assembly & Annual Meeting of the Radiological Society of North America, Chicago, Illinois. November 29, 2005
- L1198 “Tumor Ablation”. American Cancer Society, Phoenix Chapter, 2006.
- L1199 “Tumor Ablation”. St. Joseph’s Hospital and Medical Center, Barrow Hospital Foundation, 2006.
- L1200 “Tumor Ablation”. ValleyLab RFA Symposium, Ft. Collins, CO, 4/6/07.
- L1201 “Tricks of the Trade — Technical Adjuncts to a Successful Ablation”. Percutaneous Tumor Ablation: Current Status and Future Directions, Harvard Medical School, Boston, Massachusetts, 4/21/2006 — 4/22/2006.
- L1202 “Radiofrequency Ablation”. The Arizona Clinical Oncology Society, Phoenix, Arizona, 4/29/2006.
- L1203 “Role of Radio-frequency Ablation (RFA) in Lung Cancer”. Recent Advances in Lung Cancer Therapy: 2006 and Beyond, Heart & Lung Institute, St. Joseph’s Hospital and Medical Center, Phoenix, Arizona, 5/13/2006.
- L1204 “Thoracic Applications of Tumor Ablation”. Fire & Ice Tumor Ablation Symposium & Workshops, Las Vegas, Nevada, 5/19/2006 — 5/20/2006.

- L1205 “Complications of Tumor Ablation”. Fire & Ice Tumor Ablation Symposium & Workshops, Las Vegas, Nevada, 5/19/2006 — 5/20/2006.
- L1206 “Challenging Ablation Case Reviews with Faculty”. Fire & Ice Tumor Ablation Symposium & Workshops, Las Vegas, Nevada, 5/19/2006 — 5/20/2006.
- L1207 “New Borders of US-guided Drainage”? 9th International Congress on Interventional Ultrasound, Copenhagen, Demark, 6/12/2006 — 6/14/2006.
- L1208 “Imaging versus Biopsy, Radiologists Point of View”. 9th International Congress on Interventional Ultrasound, Copenhagen, Demark, 6/12/2006 — 6/14/2006.
- L1209 “Cryoablation in Prostatic and Renal Cancer”. 9th International Congress on Interventional Ultrasound, Copenhagen, Demark, 6/12/2006 — 6/14/2006.
- L1210 “Interventions in the Pancreas”. ESGAR/SGR 2006 Joint Meeting, Crete, Greece, 6/19/2006 — 6/23/2006.
- L1211 “Tumor Ablation”. Rapides Regional Medical Center, Alexandria, LA, 9/3/2006.
- L1212 “The Top 10 Reasons You Came to St. Joe’s and What You Hope to Accomplish”. St. Joseph’s Hospital and Medical Center Community Board Retreat, Scottsdale, AZ, 9/29/2006.
- L1213 “Radiofrequency Ablation of Tumors”. Hendrick Medical Center, Abilene, TX, 10/20/2006.
- L1214 “Non-Invasive Imaging and New Techniques for Killing Tumors”. The Barrow Neurological Foundation Women’s Board Annual Education Day, Barrow Neurological Institute, Phoenix, AZ, 2/8/2007.
- L1215 “Tumor Ablation”. St. Jude Medical Center, Orange, CA, 2/15/2007.
- L1216 “Percutaneous Ablation of Thoracic Tumors and Metastases”. Thoracic and Cardiac Imaging 2007 25th Annual Meeting, Las Vegas, NV, 3/25/2007-3/29/2007.
- L1217 “Complications of Tumor Ablation”. Fire & Ice Tumor Ablation Symposium & Workshops, Lake Buena Vista, FL, 3/30/2007-3/31/2007.
- L1218 “Challenging Ablation Case Review with Faculty”. Fire & Ice Tumor Ablation Symposium & Workshops, Lake Buena Vista, FL, 3/30/2007-3/31/2007.
- L1219 “Imaging for Acute Pancreatitis – MRCP versus ERCP”. American Hepato Pancreato Biliary Association 2007 Annual Meeting, Las Vegas, NV, 4/19/2007-4/22/2007.

- L1220 “Acute Necrotizing Pancreatitis – Role of Percutaneous Management”. American Hepato Pancreato Biliary Association 2007 Annual Meeting, Las Vegas, NV, 4/19/2007-4/22/2007.
- L1221 “Necrotizing Pancreatitis: Percutaneous, Minimally Invasive, or Open Necrosectomy?: The Strength of the Evidence”. The Society for Surgery of the Alimentary Tract Postgraduate Course, Washington, DC, 5/20/2007.
- L1222 “Management of Necrotizing Pancreatitis by Interventional Radiology”. American College of Surgeons Annual Congress, New Orleans, La, 10/9/07.
- L1223 “Innovations & New Hope in Diagnosing & Treating Cancer”. Arizona State University Emeritus College Symposium, Tempe, Arizona, 11/3/07.
- L1224 “Where Have We Been, Where Are We Now, & Where Are We Going?”; Keynote Address, Society of CARS Annual Meeting; Berlin, Germany, 5/07
- L1225 “Interventional Radiology Challenges”; Society of Gastrointestinal Radiologists; with Peter R. Mueller, MD; Palm Springs, Calif; 2/08
- L1226 “Tumor Ablation in the Chest”; Fire & Ice Ablation Sumposium; Las Vegas, Nevada; 3/08
- L1227 “Complications of Ablation”; Fire & Ice Ablation Symposium; Las Vegas, Nevada, 3/08
- L1228 “Challenging Ablation Cases”; Fire & Ice Symposium; Las Vegas, Nevada, 3/08
- L1229 “Thoracic Tumor Ablation”; Society of Thoracic Radiology; Sanibel, Florida; 3/08
- L1230 “Radiologic Tumor Ablation”; Mayo Clinic, Department of Radiology; Scottsdale, Arizona, 3/08
- L1231 “What Do Diseases Look Like?—Seen Through the Fascinating World of Radiology”; Arizona State University; 5 Part Series; 3-4/08
- L1232 “Tumor Ablation in the Lung and Chest”; Annual Meeting Computer Assisted Radiology & Surgery; Barcelona, Spain, 6/08
- L1233 “New Methods of Radiologic Diagnosis for Cancer”; Arizona State University—Cardiovascular & Cancer Undergraduate & Graduate Course; Tempe, Arizona, 9/08
- L1234 “How to Synchronize, Harmonize, and Optimize with Your Doctor”; Arizona State University, Paradise Valley Community College; December, 2008

- L1235 “Advances in Radiologic Imaging and Therapy for Cancer”; Arizona State University, Emeritus College Symposium, November, 2008
- L1236 “What Do Diseases Look Like? Seen Through the Fascinating World of Radiology”; Lecture Series, Arizona State University, 10-12/08
- L1237 “What Do Diseases Look Like? Seen Through the Fascinating World of Radiology”; Lecture Series, Arizona State University, 2-3/09
- L1238 “Interventional Radiology for Life-Threatening Pancreatitis”; Digestive Disease Week, Society of Abdominal Surgeons, Chicago, Illinois, 5/31/09
- L1239 “Thoracic Tumor Ablation”; CARS, Computer Assisted Radiology & Surgery Annual Meeting, Berlin, Germany, 6/24/09
- L1240 “Challenging & Controversial Ablation Cases”; CARS, Computer Assisted Radiology & Surgery Annual Meeting, Berlin, Germany, 6/24/09
- L1241 “Optimizing & Harmonizing the Synchrony with the Doctor about Radiologic Imaging”; ASU Emeritus College Colloquium; Tempe, Arizona, 9/09
- L1242 “Radiologic Tumor Ablation”; Kern/UCLA Medical Center; Annual Faculty Lecture; Bakersfield, California; 11/09
- L1243 “Necrotizing Pancreatitis: Interventional Radiology and Management”, Society for Surgery of the Alimentary Tract, 51st Annual Meeting, New Orleans, LA, 5/1-5/10.
- L1244 “New & Proven Methods to Kill Cancer: Radiologic Tumor Ablation”, Kern Medical Center/UCLA Academic & Community Medical Conference, Bakersfield, CA, 4/28-30/11.
- L1245 “Liver Tumor Ablation”, 25th International Congress and Exhibition, Computer Assisted Radiology and Surgery (CARS), Berlin, Germany, 6/22-25/11.
- L1246 “Liver Tumor Ablation — Part II”, 25th International Congress and Exhibition, CARS, Berlin, Germany, 6/22-25/11.
- L1247 “From Surgery Intern to Radiologic Tumor Ablation Interventionalist”, Surgery Grand Rounds, Kern Medical Center, Bakersfield, CA, 10/11.
- L1248 “What a Joy Killing Is! (Cancer, That Is!)”, Arizona State University 6th Annual Emeritus College Symposium, Tempe, AZ, 11/5/11.
- L1249 “Interventional Radiology: A Little History and a Lot of Current Action.” Surgical Grand Rounds, David Geffen School of Medicine at UCLA, Los Angeles, California, 3/28/12.

- L1250 “Radiologic Tumor Ablation 2012 — How, When, for Whom.” Comprehensive Blood & Cancer Center, Bakersfield, CA, 6/22/12.
- L1251 “Technology of Radio-frequency ablation.” Update in Interventional Oncology: Session 1, Advances in Treatment — Liver at Computer Assisted Radiology and Surgery — CARS 2012, 26th International Congress and Exhibition. Congress Palace, Pisa, Italy, 6/27-30/2012.
- L1252 “Liver cancer: role of tumor ablation — Part I.” Update in Interventional Oncology: Session 2, Advances in Treatment — Liver at Computer Assisted Radiology and Surgery — CARS 2012, 26th International Congress and Exhibition. Congress Palace, Pisa, Italy, 6/27-30/2012.
- L1253 “Liver cancer: role of tumor ablation — Part 2.” Update in Interventional Oncology: Session 2, Advances in Treatment — Liver at Computer Assisted Radiology and Surgery — CARS 2012, 26th International Congress and Exhibition. Congress Palace, Pisa, Italy, 6/27-30/2012.
- L1254 “Optimizing and Harmonizing with Your Doctor.” Arizona State University, Emeritus College, Tempe, AZ, 11/2/2012
- L1255 “Research in Medicine.” Kern Medical Center, Department of Emergency Medicine, Research Section, Bakersfield, CA; 9/13
- L1256 “Harmonizing, Synchronizing, & Optimizing w/ Your Physician”; ASU Outreach Series; Scottsdale, Arizona, 10/13
- L1257 “Liver cancer: role of tumor ablation” Update in Interventional Oncology: Advances in Treatment — Computer Assisted Radiology and Surgery — CARS 2013, 27th International Congress and Exhibition. Heidelberg, Germany 6/27-30/2013
- L1258 “The many roles of tumor ablation outside of the liver” Update in Interventional Oncology: Advances in Treatment — Computer Assisted Radiology and Surgery — CARS 2013, 27th International Congress and Exhibition. Heidelberg, Germany, 6/27-30/2013.
- L1259 “Harmonizing, Synchronizing, & Optimizing w/ Your Physician”; ASU Outreach Series; Phoenix, Arizona; 4/14
- L1260 “Ablation of Liver Tumors”; Interventional Oncology; CARS 2014; 28th Congress; 6/24-27/14; Fukuoka, Japan
- L1261 “Ablation of Complicated Liver Tumor Situations”; Interventional Oncology; CARS 2014; 28th Congress; 6/24-27; Fukuoka, Japan

- L1262 “Ablation of Tumors Other Than in the Liver”; Interventional Oncology; CARS 2014; 28th Congress; 6/24-27; Fukuoka, Japan
- L1263 “Sports Concussions”; AZMSBL Annual Managers’ Meeting; 3/15; Phoenix, Arizona
- L1264 “Cannon Medal Acceptance Speech”; Society of Abdominal Radiology Award Ceremony; 3/15; San Diego, California
- L1264 “Ablation of Hepatocellular Carcinomas & Other Liver Tumors”; CARS 6/2015; Barcelona, Spain
- L1265 “Percutaneous Ablation of Lung Tumors”: CARS 6/2015; Barcelona, Spain
- L1266 “Imaging & Interventional Strategies”; Round Table; CARS 6/2015; Barcelona, Spain
- L1267 “The Scholarly Project Program @ the University of Arizona College of Medicine, Phoenix”; ASU Emeritus College; 11/7/15
- L1268 “The Scholarly Project Program @ the University of Arizona College of Medicine, Phoenix”; Scottsdale Family Medicine Physicians; 1/15/16; Scottsdale, Arizona
- L1269 “The Scholarly Project Program @ the University of Arizona College of Medicine, Phoenix”; Department of Radiology, Phoenix Children’s Hospital; 2/16; Phoenix, Arizona
- L1270 “How to Synchronize, Harmonize, & Optimize with Your Doctor”; ASU New Frontiers Lecture, 4/11/16; Phoenix, Arizona
- L1271 “The Scholarly Project Program @ the University of Arizona College of Medicine, Phoenix”; Cardiology Research Group; Phoenix Children’s Hospital; 4/22/16; Phoenix, Arizona
- L1272 “Percutaneous Ablation of Liver Cancer”; Computer Assisted Radiology & Surgery Annual Meeting; 6/22/16; Heidelberg, Germany
- L1273 “Percutaneous Ablation of Lung Cancer”; CARS Annual Meeting; 6/22/16; Heidelberg, Germany
- L1274 “Research Opportunities @ the UofA College of Medicine”; 7/30/16; National Kidney Foundation, Arizona Branch; Marriott Resort, Scottsdale, AZ
- L1275 “The Scholarly Project Program @ the University of Arizona College of Medicine, Phoenix”; GI Section, Phoenix VA, 9/16

- L1276 “The Scholarly Project Program @ the University of Arizona College of Medicine, Phoenix”; Department of Radiation Oncology, Banner-MD Anderson, Mesa, AZ, 10/16
- L1277 “The Scholarly Project Program @ the University of Arizona College of Medicine, Phoenix”; Department of Surgery, Phoenix Children’s Hospital, 10/16
- L1278 “Liver Cancer: Imaging, Diagnosis, Therapy”; Arizona State University, Emeritus College Symposium, Tempe, Arizona, 11/16
- L1279 “The Scholarly Project Program @ the University of Arizona College of Medicine, Phoenix”; Arizona Rheumatology, Phoenix, Arizona, 11/16
- L1280 “The Scholarly Project Program @ the University of Arizona College of Medicine, Phoenix”; Department of Emergency Medicine, Phoenix Children’s Hospital, 12/16
- L1281 “The Fascinating World of Radiology”; U of Arizona College of Medicine Saturday Scrubs Symposium; Phoenix, Arizona, 1/17
- L1282 “Constructing a CV” University of Arizona College of Medicine; 4/17
- L1283 “The Fascinating World of Radiology”; University of Arizona College of Medicine, Saturday Scrubs Symposium; Phoenix, Arizona, 6/17
- L1284 “Student Affairs & Professionalism”, University of Arizona College of Medicine, 7/17
- L1285 “You Wouldn’t Know Medical School”; Computer Assisted Radiology & Surgery 30th Annual Meeting; Barcelona, Spain, 6/24/17
- L1285 “Interventional Radiology Controversies”; Computer Assisted Radiology & Surgery 30th Annual Meeting; Barcelona, Spain, 6/24/17
- L1286 “Introduction to Interventional Radiology”; University of Arizona College of Medicine; 10/20/17
- L1287 “Anatomy & Pathology Imaging of the Upper & Lower Extremities”; University of Arizona College of Medicine; 10/23/17
- L1288 “How to Synchronize, Harmonize, & Optimize with Your Doctor”; ASU Emeritus College Lecture Series; Monte Vista; 2/26/18
- L1289 “Reminiscences as a Medical Student at the University of Cincinnati College of Medicine”; University of Cincinnati College of Medicine Distinguished Alumni Award Speech; 4/13/18

- L1290 "So You Want to Be a Doctor?"; University of Arizona College of Medicine Phoenix, Summer Scrubs Series; Phoenix, Arizona; 6/15/18
- L1291 "Changes & Current Trends in Medical Education in the United States"; Computer Assisted Radiology & Surgery 35th Annual Meeting; Berlin, Germany; 6/20-24/18
- L1292 "Interventional Radiology Controversies Panel"; Computer Assisted Radiology & Surgery 35th Annual Meeting; Berlin, Germany; 6/20-24/18
- L1293 "Professionalism in Medicine"; University of Arizona College of Medicine; Phoenix, Arizona; 7/10/18
- L1294 "How to Synchronize, Harmonize, & Optimize with Your Doctor"; ASU New Frontiers Lecture, 11/1/18; Glendale, Arizona
- L1295 "What Is Interventional Radiology?"; U of Arizona College of Medicine; 1/30/19; Phoenix, Arizona
- L1296 "How to Synchronize, Optimize, & Harmonize with Your Doctor", Arizona State University Outreach; American Lutheran Church; Sun City, Arizona; 6/3/19
- L1297 "So You Want to Be a Doctor?" U of Arizona College of Medicine; Summer Scrubs Program; 6/12/19
- L1298 "The Fascinating World of Interventional Radiology" U of Arizona College of Medicine; Summer Scrubs Program; 6/12/19
- L1299 "Preparing Students & Clinicians for Artificial Intelligence"; 35th Annual Computer Assisted Radiology & Surgery Conference; Rennes, France; June 18-21, 2019
- L1300 "Controversies in Artificial Intelligence"; 35th Annual Computer Assisted Radiology & Surgery Conference; Rennes, France; June 18-21, 2019
- L1301 "Relevant Radiology for the Internal Medicine Boards"; American College of Physicians Annual Internal Medicine Board Review Course; Seattle, Washington; July 27, 2019
- L1302 "How to Synchronize, Harmonize, & Optimize w/ Your Doctor"; American Association of University Women (via ASU); Sun City, Arizona; November 21, 2019
- L1303 "The Changing Face of Medical Education in the United States"; LifeLong Learning series; ASU outreach; Sun City, Arizona, 12/6/19
- L1304 "How to Synchronize, Harmonize, & Optimize w/ Your Doctor"; ASU Outreach Lifelong Learning; Sun City, Arizona, 2/7/20

- L1305 “Interventional Radiology Cases that Make Your Heart Race”; Annual Meeting of the Society of Abdominal Radiology; Maui, Hawai’i, 3/3/20; w/ Peter Mueller, MD
- L1306 “Innovative Clinical Investigations”; Annual Computer Assisted Radiology & Surgery Meeting (CARS) panel; Munich, Germany; 6/26/20; by Zoom
- L1307 “Professionalism in Medicine”; University of Arizona College of Medicine Phoenix; to 1st year students, w/ Drs. Shah-Patel & Guttman; 7/7/20 by Zoom
- L1308 “Abdominal Radiology”; University of Arizona College of Medicine Phoenix in GIMDN Block; 7/15/20 by Zoom
- L1309 “Abdominal Interventional Radiology Cases That Cause Tachycardia”; Society of Abdominal Radiology; Hollywood, Florida; 3/21; w/ Dr. Peter Mueller (accepted)
- L1310 “The Value, Impact, & Joy of Radiology”; National/International Radiology Symposium for Medical Students”; U of Arizona College of Medicine; 11/7/20
- L1311 “Learning Radiology Like a Radiologist—Chest X-Rays”; Diagnostic,Radiology Interest Group; UACOMP; 4/14/21
- L1312 “So You Want to Be a Doctor?”; U of Arizona College of Medicine Phoenix Summer Scrubs Program; Phoenix, AZ; 6/7/21
- L1313 “The CARS Conferences, & Their Impact on Interventional Radiology & on Medical Students”; 30th Annual CARS Conference (virtual/zoom); Munich, Germany; 6/24/21
- L1314 “Professionalism in Medicine”; Introduction to Medicine Course; U of Arizona of College of Medicine Phoenix; (w/ Career & Professional Advisors); 7/14/21
- L1316 “Learning Radiology Like a Radiologist”; U of Arizona College of Medicine Phoenix; Diagnostic & Interventional Radiology Interest Groups; 7/16/21
- L1317 “Learning Radiology Like a Radiologist”; U of Arizona College of Medicine Phoenix; Diagnostic & Interventional Radiology Interest Groups & Guests (~50); 8/4/21
- L1318 “Interventional Radiology Cases That Make the Heart Race”; Society of Abdominal Radiology Annual Meeting; Scottsdale, Arizona; 3/22 (w/ Peter Mueller, MD)
- L1319 “The Value, Impact, & Joy of Radiology”; 2nd Annual UA College of Medicine Phoenix National/International Medical Student Radiology Symposium”; Phoenix, Arizona 10/2/21
- L1320 “Mediastinal Masses”; Diagnostic & Interventional Radiology Interest Groups & Guests; U of Arizona College of Medicine Phoenix; 12/1/21

- L1321 “New Diagnostic & Interventional Radiology Techniques for Cancer”; Arizona State University (Pebble Creek); Goodyear, Arizona; 2/21/22
- L1322 “Thoracic Radiology—Learning Radiology Like a Radiologist”; U of Arizona College of Medicine Phoenix; Diagnostic & Interventional Radiology Interest Groups & Guests 4/1/22
- L1323 “GU Radiology—Learning Radiology Like a Radiologist”; U of Arizona College of Medicine Phoenix; Diagnostic & Interventional Radiology Interest Groups & Guests; 4/15/22
- L1324 “So You Want to Be a Doctor? Here’s What It’s Gonna Take!”; U of Arizona College of Medicine Phoenix; Summer Scrubs Program; 6/7/22
- L1325 “The Value, Benefits, and Joy of Radiology”; 3rd Annual National/International Medical Student Radiology Symposium; virtual; 10/22/22
- L1326 “Endocrine and Reproductive Radiologic Imaging and Intervention”; Diagnostic & Interventional Radiology Interest Groups; U of Arizona College of Medicine Phoenix; 10/27/22
- L1327 “Interventional Radiology Cases That Make the Heart Race”; Annual Meeting of the Society of Abdominal Radiology. Austin, Texas. March, 2023 (with Peter Mueller MD)
- L1328 “Challenging Interventional Radiology Cases: from Simulation to Experience”. Annual Meeting of the Society of Abdominal Radiology. Austin, Texas. March, 2023 (with Melanie Caserta MD)
- L1329 “Thoracic Radiology”; Learning Radiology Like a Radiologist series. 1st year medical students & Radiology Interest Groups (DR & IR); University of Arizona College of Medicine Phoenix; April 5, 2023
- L1330 “CT Scans”; Learning Radiology Like a Radiologist series. 1st & 2nd year medical students & Radiology Interest Groups (DR & IR); University of Arizona College of Medicine Phoenix; April 27, 2023
- L1331 “How to Synchronize, Harmonize, & Optimize w/ Your Doctor”; ASU Rio Salado College; Surprise, Arizona; 5/4/23
- L1332 “Thoracic & Abdominal CT Scans”. Learning Radiology Like a Radiologist series. 1st & 2nd year medical students & Radiology Interest Groups (DR & IR); University of Arizona College of Medicine Phoenix; 5/10/23
- L1333 “So You Want to Be a Doctor? Here’s What It’s Gonna Take!”; U of Arizona College of Medicine Phoenix; Summer Scrubs Program; 6/13/23

- L1334 Keynote Lecture: “Can Medical Engineers Increase the Acceptance of AI?”; 35th Annual Meeting of Computer Assisted Radiology; Munich, Germany, June 20, 2023
- L1335 “AI & ChatGPT in Medical School; Benefits & Pitfalls”; 35th Annual Meeting of Computer Assisted Radiology; Munich, Germany, June 20, 2023
- L1336 “GI Imaging Focusing on Covid & the Esophagus”; 1st & 2nd year medical students during GIMDN block via DR & IR IGs; UACOMP 8/4/23
- L1337 “GI Imaging of the Stomach, Small Bowel, & Large Bowel”; 1st & 2nd year medical students during GIMDN block via DR & IR IGs; UACOMP 8/30/23
- L1338 “Endocrine & Reproductive Diagnostic & Interventional Radiology”; 1st & 2nd year medical students during REBLS block via DR & IR IGs; UACOMP; 9/29/23
- L1339 “The Joy & Impact of Radiology”; 4th Annual National & International Medical Student Symposium; 10/7/23; UACOMP; Phoenix, AZ (Keynote address)
- L1340 Society of Abdominal Radiology Gold Medal Presentation to Peter Mueller MD; SAR Annual Meeting 2020
- L1341 Society of Abdominal Radiology Gold Medal Presentation to Giovanna Casola MD; SAR Annual Meeting 2024
- L1342 “Interventional Radiology Cases That Make the Heart Race”; Society of Abdominal Radiology Annual meeting 2024 (w/ Peter Mueller MD)
- L1343 “Imaging & Radiologic Intervention of the Urinary Tract”; University of Arizona College of Medicine; May 2024
- L1344 “GI Imaging of the Stomach, Small Bowel, & Large Bowel”; 1st & 2nd year medical students during GIMDN block via DR & IR IGs; UACOMP 7/23/24
- L1345 “GIMDN-Related Radiology Imaging”; DR/IR GIMDN Block; UACOMP 8/16/24
- L1346 “How to Best Integrate IR into Your Abdominal Radiology Practice”; Society of Abdominal Radiology; February 16-21 2025; w/ Drs Stuart Silverman & Peter Mueller (accepted)
- L1347 “The Joy & Impact of Radiology”; 5th Annual National & International Medical Student Radiology Symposium; 10/5/24; UACOMP; Phoenix, AZ (Keynote address)
- L1348 “How to Optimize, Synchronize, & Harmonize w/ Your Doctor”; ASU/RioSalado College; 10/24/24

- L1349 “The Folly of Follow Your/My Dreams”; ASU Emeritus College Symposium; Tempe, Arizona; 11/16/24
- L1350 “Interventional Radiology Cases That Make the Heart Race”; University of Arizona College of Medicine/Banner University Radiology Grand Rounds; 12/12/24
- L1351 “How to Integrate IR into Abdominal Radiology Practice”; Society of Abdominal Radiology annual meeting; Tucson, Arizona; February 2025 (with Stuart Silverman MD & Peter Mueller MD)
- L1352 “Learning Radiology Like a Radiologist—CXR’s”; 1st & 2nd year UACOMP medical students, DR/IR Interest Groups; March 2025
- L1353 “Thoracic Radiology—Plain Film/CT/MRI”; UACOMP; 4/23/25
- L1354 “GU Radiology”—2nd & 3rd year medical students UACOMP; 5/6/25

COMMITTEES

General Medical Education Committee, UCSD Medical Center 1987

Program Co-Director, San Diego Radiological Society, 1987-92

Ad Hoc House Staff Allocation Committee, UCSD Medical Center, 1986

Executive Committee, Department of Radiology, UCSD, 1982-86

Tower Completion Project Task Force, UCSD Medical Center, 1986

Medical Risk Management Committee, University Hospital, UCSD, 1982-1987

Medical Ethics Committee, University Hospital, UCSD, 1983-

Intensive Care Unit Committee, University Hospital, UCSD, 1982

Disaster Planning Committee, Massachusetts General Hospital, 1977-79

Executive Committee, San Diego Radiological Society, 1988-89

Inter-Society Affairs Committee, UCSD Medical Center, 1989-90

Executive Committee, International Hepato-Biliary-Pancreatic Association, 1989-92

Chairman, Stauffer Research Award Committee for Investigative Radiology, 1989-90

Student Affairs Committee, UCSD Medical Center 1989-

Chairman, Ad Hoc Promotion Committee, UCSD School of Medicine 1990-

Executive Committee, Society Minimally Invasive Therapy 1990-current

Sterling Winthrop Research Committee 1990-

Membership Committee Chairman, International Society of Biliary Radiology 1991-92

Chairman, UCSD Library Committee 1991-1993

Nominating Committee, International Hepato-Biliary-Pancreatic Association, 1991-

American College of Radiology Committee on Human Resources of the Commission on
Interventional and Cardiovascular Radiology - 1991-2000

American College of Radiology Committee on Radiologist Resources of the Commission on Human Resources - 1992-2000

American College of Radiology Consultant, Committee on Systematized Refresher Courses of the Commission on Education - 1993-94

Program Committee, International Hepato-Biliary-Pancreatic Association, 1992-
Committee on Standards for Interventional Radiology in Thoracic Radiology, Society of Thoracic Radiology, 1992-

Society of Gastrointestinal Radiology Research Committee 1992-

American College of Radiology Liaison Committee 1992-

Society of Uroradiology - Ad Hoc Committee on Standards 1992-93

University of California San Diego, School of Medicine Senate Representative for the Department of Radiology (Alternate) 1992-

International Society of Hepato-Biliary Radiology:

Treasurer 1992-1994

Vice President 1994

President 1995

UTMB MSRDP Executive Committee 1994-1998

AGA Meeting Committee of Judges for Abstracts on Hepatobiliary Surgery and Gastroenterology, (1994)

Search Committee - Radiation Therapy Chairman, UTMB 1994-1996

Executive Committee of the Hospital, UTMB 1993-98

Multi-Specialty Group Practice Task Force Committee, UTMB; Executive Committee 1994-

Society of Gastrointestinal Radiology (SGR)

Ad Hoc Committee - Strategic Planning 1994-1997

Finance Committee

Membership Committee, Chairman (1998-1999)

Executive Board 1999-

Cannon Medal Committee, SGR Chairman

Society of Thoracic Radiology Committee on Training and Standards of Care 1995-

Film Management Committee, UTMB 1994-1997

Whole Body Counter Committee, UTMB 1994-1997

Breast Imaging Fundraising Committee, UTMB 1995-1997

Financial Committee of MSRDP, UTMB 1995-1997

Society of Chairmen of Academic Radiology Departments (SCARD)
Committee on Economics & Practice, 1996 –

UTMB Primary Care Sub-Group, 1996-

UT-Med Finance Sub-Committee, 1996-1997

UTMB Physician Practice Plan (MSRDP) Executive Committee - 1994-1998

UTMB Executive Operations Committee - 1998

Graduate Clinical Research Center, UTMB, Advisory Board (1994-98)

UTMB Neuroscience Executive Advisory Committee (1998-99)

Radiology FutuRad Committee (RSNA) 1998-01

Society for the Advancement of Women's Imaging, Executive Committee (1997)

Dana Farber Cancer Institute, Executive Committee, 2000 - 2004

Brigham and Women's Hospital, Cancer Committee, 2000 - 2004

Brigham and Women's Hospital, Physicians' Organization, 2001 -

Partners HealthCare System, Oncology Service Line Planning Team, 2001-2004

Brigham and Women's Hospital, Strategic Planning Committee, 2001 - 2004

Brigham and Women's Hospital, Division Director Committee, 2000 - 2004

Brigham and Women's Hospital, Radiology Residency Committee, 2002 - 2004

New England Roentgen Ray Society, Vice President, 2003 - 2004

Medical Advisory Board of InvestCare, 2003-

St. Joseph's Hospital & Medical Center, Academic Chair
Executive Committee, 2005 –

St. Joseph's Hospital & Medical Center, Cancer Committee, 2005 –

St. Joseph's Hospital & Medical Center, Oncology Strategic Planning Committee, 2006-

St. Joseph's Hospital & Medical Center, Physician Enterprise Team Committee, 2006-

St. Joseph's Hospital & Medical Center, Medical Executive Committee, 2006-

Catholic Healthcare West, Imaging Council, 2006-

Society of Interventional Radiology, Standards on Percutaneous Biopsy, Committee Chair 2007-08

Arizona State University, Emeritus College, Development & Endowment Committee 2008-

Computer Assisted Radiology & Surgery Society, Abstract Review & Program Committees 2008-2012

Arizona State University, Emeritus College, Nominating Committee, 2008

Chairman, Graduate Medical Education Committee, Kern/UCLA Medical Center, 2009-2014

Executive Committee Board Member, Phoenix Men's Baseball Association, 2009-present

Computer Assisted Radiology & Surgery Society -- Program Committee, 2009-present

Chair, Institutional Review Board, Kern Medical Center, 2009-2014

Chairs Council, Kern Medical Center, 2009-2014

Chair, Continuing Medical Education Committee, Kern Medical Center, 2009-2014

California Legal Review Board, 2011-present

Dean's Council, Phoenix Seminary, 2011-present

Chair, Collaborative Committee and American College of Radiology representative for revision of ACR–SIR–SPR Practice Guideline for the Performance of Image-Guided Percutaneous Needle Biopsy (PNB) in Adults. 2012.

Radiology Chair Search Committee, Kern Medical Center, 2012

Chair, Academic Chairs Council, Kern Medical Center, 2012-present

Chair, Medical Student Clerkship Committee, Kern Medical Center, 2012

Internal Medicine Chair Search Committee, Kern Medical Center, 2013

Intel International Science & Engineering Fair; Co-Chair Medicine & Health Section; Phoenix, Arizona. June, 2013

Kern/UCLA Medical Center (2009-2014)

Chief Academic Officer	7/2009
Vice Chair of Radiology	7/2009
Chief of Interventional Oncology	7/2009
Chair, IRB	7/2009
Chair, Graduate Medical Education Committee	7/2009
Chair, Continuing Medical Education Committee	7/2009
Designated Institutional Official	7/2010
Director of Medical Education	7/2011
Chair, Medical Student Clerkship Committee	7/2012

University of Arizona College of Medicine; PAL Block Review Committee; 2016

CARS Annual Meeting; Program Committee, 2017, 2018

University of Arizona College of Medicine; Doctoring Review Committee; 2017

University of Arizona College of Medicine; Student Affairs Search Committee for Advising Director; 2018

University of Arizona College of Medicine; Planning Committee for 2019 AAMC National meeting

University of Arizona College of Medicine; Scholarly Project Award Poster Selection Committee; 2/19

University of Arizona College of Medicine; Leader, Advising Website Construction Committee; 2018, 2019

Scholarly Project Outstanding Project Committee, U of Arizona College of Medicine Phoenix, 2019-2020

Career & Professional Advisor Search Committee, U of Arizona College of Medicine Phoenix, 2020

University of Cincinnati College of Medicine Research Day Judge, 2020

Assessment & Evaluation Sub Committee, U of Arizona College of Medicine Phoenix, 2021-present

Learning Specialist Search Committee, U of Arizona College of Medicine Phoenix, 2021

Career & Professional Advising Search Committee, U of Arizona College of Medicine Phoenix, 2021

U of Arizona College of Medicine Phoenix IRB Umbrella Survey Committee, 2021-present

University of Cincinnati College of Medicine Research Day Judge, 2021

Chair; Career & Professional Advisor Search Committee; U of Arizona College of Medicine Phoenix; 2024

Arizona Michael Grossman Research Conference; Judge; 2024

Dean Search Committee, Arizona State University, Emeritus College; 2024

International Computer Assisted Radiology & Surgery Program Committee, 2025

TEACHING

UCSD Medical Student Coordinator of Independent Study Projects, 1983-91

UCSD Medical Student Advisor 1982-91

UCSD Medical School Anatomy Course, Instructor 1984-88

Student Independent Study Project Director, 1981-91

CT and GI Radiology Lectures, Radiology 401 Elective, UCSD, 4th Year

Medical Director Independent Study Project in Radiology for Medical Students 1982

Cardiac and GI Radiology Lectures, Harvard Medical School, 4th Year Medical Students, 1977-1981

Annual Emergency Room Course, Radiology Coordinator, UCSD School of Medicine, 1981-91

Cardiopulmonary Resuscitation for Medical Students, New York Medical College, 1975-6

Physical Diagnosis for 2nd Year Medical Students, New York Medical College, 1975-76

Visiting Interventional Radiology Fellowship Program for Community Radiologists at UCSD, 1982-1993

Fellowship Training Program for Interventional Radiology, CT, Ultrasound Sections at UCSD

UCSD Ultrasound Videotape series:

“Percutaneous Abscess Drainage, Part I/Part II”

“Percutaneous Biopsy”

“Clinically Relevant Abdominal Anatomy”

“CT of Pancreatic Neoplasms”

“Percutaneous Abscess Drainage: Current Concepts & New Areas, Part I/Part II”

RSNA Audiovisuals Educational Programs:

-“Techniques in Drainage of Abdominal Abscesses and Fluid Collections”, 1988

-“Techniques in Needle Aspiration of Abdominal Tumors and Fluid - Collections”, 1988.

-“Percutaneous Abscess Drainage in the Chest”, 1989.

-“Techniques in Drainage of Abdominal Abscesses and Fluid Collections”, 1989.

-“Techniques in Needle Aspiration of Abdominal Tumors and Fluid Collections”, 1989.

-“Thoracic Drainage Procedures”, 1990.

-“Interventional Radiology of the Biliary Tree and Biliary Tree Lithotripsy”, 1991.

-“Percutaneous Abscess Drainage“, 1992.

ACR Teaching File Contributor in CT/Ultrasound and Interventional Radiology, 8/83, 10/85.

Percutaneous Abscess Drainage (92) Videotape Series – “Recent Advances in Abscess Drainage”. RSNA Audiovisuals -Educational Program, 1992.

Medical Student ISP and Elective Programs in Interventional Radiology 1982-present.
Coordinator, University of Texas Medical Branch, Cooley Visiting Professor Program (1996-1999)

UCSD Interventional Radiology Videotape Series:

“Radiologic Imaging and Intervention for Complicated Pancreatic Inflammatory Disease”, 1990

“CT-Guided Chest Biopsy” 1990“

“Interventional Radiology in the Gallbladder” 1990

“CT-Guided Chest Biopsy” 1991

“Radiologic Imaging and Intervention for Complicated Pancreatic Inflammatory Disease” 1991

“Radiologic Drainage of Thoracic Fluid Collections” 1990

“Percutaneous Gastrostomy and Gastroenterostomy” 1990

Lecturer - Radiology Elective Course for Medical Students, UTMB, 1993 -

Lecturer - Radiology 1st and 4th Year Medical Students, UTMB, 1993 –

Lecturer – Core Radiology Problem Based Learning Series, UTMB, 1998

Instructor – Harvard Anatomy Course, 1999

Harvard Medical Student Radiology Teaching Award, 2003

Course Coordinator, “Tumor Ablation”, Annual meeting of Society of Cardiovascular and Interventional Radiology, 2003

Arizona State University; What Do Diseases Look Like?—Seen Through The Fascinating World of Radiology”; 5 Part Series; 2008

Moderator and Speaker, weekly multidisciplinary conferences (Abdominal GI, GU, Thoracic, Trauma, and Geriatrics), Kern/UCLA Medical Center, 2009-present

“Learning Radiology Like a Radiologist”, monthly teaching conference to residents, students, and faculty, Kern/UCLA Medical Center, 2009-present

Conference Director, Kern Medical Center & David Geffen School of Medicine at UCLA Academic & Community Medical Conference and Research Forum, Bakersfield, CA, April 2011

Conference Director, Kern Medical Center & David Geffen School of Medicine at UCLA Academic & Community Medical Conference and Research Forum, Bakersfield, CA, April 2012

Conference Director, Kern Medical Center & David Geffen School of Medicine at UCLA Academic & Community Medical Conference and Research Forum, Bakersfield, CA, April 2013

Anatomy instruction for 1st year medical students. University of Arizona College of Medicine. 2014.

Sim Lab Instruction for 3rd year medical students in thoracentesis & paracentesis; anaphylaxis, rhabdomyolysis; University of Arizona College of Medicine. 2014-current

Internal Medicine Instructor for 3rd year medical students in Thrombosis & Pulmonary Embolism, University of Arizona College of Medicine, 2014-current

Scholarly Project Faculty, Advisor, & Mentor, UofA College of Medicine. 2013-current

Ultrasound Interest Group Sim Lab Instructor, 2015

Neurology Interest Group Lumbar Puncture Instructor, 2015

Case Based Learning Instructor 2nd year medical students—GI-Metabolic-Diabetes-Obesity, University of Arizona College of Medicine, Phoenix. 2014-current

Problem Based Learning Instructor for 1st & 2nd year medical students, David Geffen School of Medicine at UCLA, 2015, 2016-current

Case Based Learning Instructor 1st year medical students—Molecular-Basis of Diseases, University of Arizona College of Medicine, Phoenix, 2016-current

Case Based Learning Instructor 1st year medical students—Introduction to Medicine, University of Arizona College of Medicine, Phoenix, 2016-current

Case Based Learning Instructor 1st year medical students—Musculo-skeletal & Neurologic Block; University of Arizona College of Medicine, Phoenix, 2017

Learning Radiology Like a Radiologist Series; Diagnostic & Interventional Radiology Interest Groups; University of Arizona College of Medicine Phoenix, 2021, 2022, 2023, 2024, 2025

Faculty Advisor—"National & International Medical Student Radiology Symposia (#s 1-5) 2019-2025

COURSE DIRECTORSHIP

Course Coordinator for UCSD “Radiology of the Abdomen”, Coronado, CA, 1983-1984.

Course Coordinator for UCSD “Radiology of the Abdomen and Chest”, San Diego, CA, 1985

Course Coordinator for UCSD “UCSD Imaging Symposium”, San Diego, CA 1986.

Course Coordinator for UCSD “Interventional and Imaging Course”, San Diego, CA, 1987.

Course Coordinator for UCSD “Interventional and Imaging Course”, San Diego, CA, 1988

Course Coordinator for UCSD “Introduction to Interventional Radiology”, San Diego, CA, 1988.

Course Coordinator for UCSD “Introduction to Interventional Radiology”, San Diego, CA, 1989.

Course Coordinator for UCSD “Interventional and Imaging Radiology Course, San Diego, CA, 1989.

Course Coordinator for UCSD “Spring Interventional Radiology Course”, San Diego, CA, 1990.

Course Coordinator for UCSD “ Interventional Radiology Course”, San Diego, CA, 1990.

Course Coordinator for UCSD “Spring Interventional Radiology Course”, San Diego, CA, 1991.

Course Coordinator for UCSD “Interventional Radiology Course”, San Diego, CA, 1991.

Course Coordinator for UCSD “Spring Interventional Radiology Course”, San Diego, CA, 1992.

Course Co-Director for UCSD “Interventional Radiology Course”, San Diego, CA, 1992.

Categorical Course Co-Director in Interventional Radiology, Radiology Society of North America, Chicago, IL, 1992.

Course Coordinator for UCSD “Spring Interventional Radiology Course”, San Diego, CA, 1993

Course Director of “The 1st Texas Radiology Course by UTMB,” Austin, Texas, September 8-11, 1994.

American College of Radiology (ACR) Categorical Course on Interventional Radiology, Director, New Orleans, LA, September 17-18, 1994.

Co-Coordinator of Second Liver Tumor Therapy Conference, Milan, Italy, October 8, 1994.

Course Director of “Texas Radiology Course II by UTMB”, Galveston, Texas, June 24-30, 1995.

Course Co-Director for “The Texas Radiology Course V by UTMB; 1998 MRI Update: Neuroradiology and Musculoskeletal Imaging”, Houston, Texas, March 27-29, 1998.

President and Program Director of the Society of Gastrointestinal Radiology Annual Conference, “Abdominal Radiology Conference”; combined meeting of Society of Gastrointestinal Radiologists and The Society of Uroradiology, Scottsdale, Arizona, March 2001.

Course Director, Tumor Ablation, Society of CardioVascular and Interventional Radiology, Phoenix, Arizona, 2004.

Course Director, Harvard Tumor Ablation Course, Cambridge, Massachusetts, May 2005.

Course Co-Director, Fire and Ice (Tumor Ablation), Las Vegas, Nevada, October 2005.

Course Co-Director, Fire and Ice (Tumor Ablation), Las Vegas, Nevada, May 2006.

Course Co-Director, Fire and Ice (Tumor Ablation), Orlando, Florida, May, 2007

Course Co-Director, Fire & Ice (Tumor Ablation), Las Vegas, Nevada, March, 2008.

Course Director, Multidisciplinary Noon Conferences, Kern/UCLA Medical Center, Bakersfield, California, July 2010-present.

Program Chair and Coordinator, Kern Medical Center & David Geffen School of Medicine at UCLA Academic & Community Medical Conference, California State University Bakersfield, Bakersfield, California, April 28-30, 2011.

Program Chair and Coordinator, Kern Medical Center & David Geffen School of Medicine at UCLA Academic & Community Medical Conference, California State University Bakersfield, Bakersfield, California, April 5, 2012.

Program Chair and Coordinator, Kern Medical Center & David Geffen School of Medicine at UCLA Academic & Community Medical Conference – High School Medical Careers Forum, California State University Bakersfield, Bakersfield, California, October 5, 2012.

Program Chair and Coordinator, Kern Medical Center & David Geffen School of Medicine at UCLA Academic & Community Medical Conference – College Medical Careers Forum, California State University Bakersfield, Bakersfield, California, February 8, 2012.

Program Chair and Coordinator, Kern Medical Center & David Geffen School of Medicine at UCLA Academic & Community Medical Conference – High School Medical Careers Forum, California State University Bakersfield, Bakersfield, California, October 14, 2013.

Program Chair and Coordinator, Kern Medical Center & David Geffen School of Medicine at UCLA Academic & Community Medical Conference – College Medical Careers Forum, California State University Bakersfield, Bakersfield, California, May 19, 2013.

Medical Student Lecture Series—“Learning Radiology Like a Radiologist”; KMC/UCLA Medical Center; weekly, 2012-2014.

Radiology Lecture Series, “Learning Radiology Like a Radiologist”, University of Arizona College of Medicine, Phoenix. (Biweekly) 2015-current

Faculty Advisor, Diagnostic & Interventional Radiology Interest Group; University of Arizona College of Medicine, Phoenix, 2016-current

National/International Medical Student Radiology Symposium, University of Arizona College of Medicine, 11/7-8/20; Faculty Director

National/International Medical Student Radiology Symposium, University of Arizona College of Medicine, 10/2-3/21; Faculty Director

National/International Medical Student Radiology Symposium, University of Arizona College of Medicine; 10/22/22; Faculty Director

National/International Medical Student Radiology Symposium, University of Arizona College of Medicine; 10/7/23; Faculty Director

National/International Medical Student Radiology Symposium, University of Arizona College of Medicine; 10/5/24; Faculty Director

MEDICAL STUDENT MENTOR/PRECEPTOR FOR INDEPENDENT STUDY PROJECTS AND INTERVENTIONAL RADIOLOGY ROTATIONS

UCSD School of Medicine

Chris Lafferty, 1984
Gary Spoto, Fall 1984
Linda Brown, 1984
John Nunes, 1984
John Gibbs, 1985
Larry Tanenbaum, 1985
Melanie Ho, Fall 1985
Geoffrey Rubin, Summer 1986
Elisabeth Beahme, Fall 1986
James Ken, Spring 1987
Thomas Brannigan, Spring 1987
Greg Causey, Summer, 1987
Tom Kinney, Summer 1987
Brian Moore, Fall 1987
Brian Gage, Fall 1987
Shane MaCauley, Winter 1987
Casey Muehle, Spring 1988
Walter Kerwin, Summer 1988
Steve Abedon, Spring 1989
Colleen Harker, Summer 1989
Jason Mauer, Summer 1989
Greg Mohr, Summer 1989
David Bass, Fall 1989
Richard Hopkins, Fall 1989
Thomas Laverdiere, Fall 1989
Scott Binet, Fall 1989
Brandt Foreman, Fall 1989
John McIntyre, Spring 1980
Susan Lee, Spring 1990
Mike Zeppa, Summer/Fall 1990
Philip Moyers, Summer 1990
Yong Park, Summer 1990
Patrick Wheelock, Fall 1990
Majid Majidian, Fall/Winter 1990
Heather Wark, Winter 1990
Robert Cahn, Summer 1991
Terry Shank, Summer 1991
Richard Anguiano, Winter 1991
Kurt Muetterties, Fall 1991
Eric Barton, Fall 1991
Charles Tsai, Fall 1991

David Epstein, Fall 1991
Kathy Spankneble, Fall 1991
Craig Gomberg, Fall 1991
Karence Chan, Fall 1991
Mark Lanoue, Spring 1992
Sherry Raissdana, Spring 1992
Tim Bell, Summer and Fall 1992
Toby Wroblicka, Summer 1992
Ken Chon, Summer 1992
Steve Topham, Summer 1992
Kevin Litwin, Summer 1992
Tina Cartwright, Summer 1992
Helen Housley, Fall 1992
Rebecca Dyson, Fall 1992

University of Texas College of Medicine

Keith Crow, Fall 1995
Christian Habermann, Winter 1996
Nancy McBride, Spring 1996
Santiago Marroquin, Spring 1997

Harvard Medical School

Yung Chen, 1999
Richard Urman, 1999
Gary Choy, 2000
Rourke Stay, 2000-2001
Christina Henn, 2001
Tamara Oei, 2002 - 2005
Franklin Liu, 2002 - 2004
Florian Kipfmueller, 2003 - 2004
Wai-Kit Lo, 2003 - 2005
Larry Cheung, 2003 - 2005
Lawrence Genen, 2003 - 2005

University of Arizona Tucson College of Medicine

Mark Mamlouk, 2006
Stephanie Furniss, 2011

Arizona State University

Clarissa Andorfer, 2009
Shiv Shah, 2020

Kern/UCLA Medical Center

Maryam Yazdenshenas, 2010
Jesse Cottrell, 2011
Jordan Stawski, 2012
Amrit Hansra, 2013
Jason Chu, 2013
Misa Stroker, 2013
Dustin Covell, 2013
Fariad Banimahd, 2013
Ines Teuma, 2014

University of Arizona, College of Medicine, Phoenix

David Campbell, 2013
Devanshi Intwala, 2013
Patrick Kishi 2014
Daniel Crawford, 2015
Taylor Graber, 2015
Porus Mistry, 2015
Tarek Eid, 2015
Antoine Azar, 2015
Phillip Y Cheung-Cheng, 2016
Pathways Student Advisor, 2016
--Agnes Ewongo
--Ana Meza Rochin
--Fatima Hernandez
--Jessica Reyes
--Ogaga Ojameruya
Ed Bergin, 2017
James Kelleher, 2018
Carl Goff, 2018
Diep Nguyen, 2018
Madison Rosztoczy, 2018
Brandon Ngo, 2019
Julie Tran, 2019
Eyal Ron, 2020
Shelby Hoebee, 2020
Zana Alattar, 2020
Shiv Grewal, 2020
Paolo Miro, 2020
Zach Sitton, 2020
David Casper 2020
Mandy Kaur 2020
Joy Lee, 2021
Alexandra Dominiani, 2021

Avery Williams 2021
Alexxa Wirth 2021
Nick Groth 2021
Jeremy Winkelman 2021
Luke Lammers 2021
Nia Nikhahammanesh 2021
Maya Patel 2021
Paul ChronEOS 2022
Easton Neitzel 2022
Josh Willis 2023
Garrett Trang 2023
Alexxa Wirth 2023
Michael Ruta 2023
Stephen Yao 2023
Greg Sprout 2023
Rachel Fisher 2024
Taaha Adamji 2024
Jed Whetten 2024
Raj Shah 2025
Kennedy Sparling 2025
Owais Salahudeen 2025
Nina Cherian 2025

University of Cincinnati College of Medicine

Multiple student mentoring 2024

High School

Shiv Shah, 2019
Lydia Pastore, 2022
Tyler Fair, 2024

**UNIVERSITY OF ARIZONA COLLEGE OF MEDICINE PHOENIX
INDEPENDENT ELECTIVES**

2024

Stacy Ruther
Dalia Kouja
Liane Ruddy
Jordan Mackner
Owais Salahudeen
Taaha Adjami
Asahi Murata
Michael Ruta
Easton Neitzel
Dani Heiser

2025

Jessica Guido
Jed Whetten
Nina Cherian
Owais Salahudeen
Kennedy Sparling
Raj Shah
Kathya Cenicerros

VISITING PROFESSORSHIPS

University of Kansas, 2/3/83
University of Texas, 1/9-10/84
University of Washington, Seattle, 2/16/85
University of California, Irvine, 2/26/86
Northwestern University Memorial Hospital, Chicago, 5/13/86
Children's Hospital, University of Cincinnati, Cincinnati, 4/6/87
Brown University, Providence 9/14/87
Stanford University Medical Center, Stanford, 10/21/87
University of Nebraska Medical Center, Omaha, 11/19/87
Emory University Hospital, Atlanta, 4/12/88
University of Manitoba, Winnipeg, 4/22/88
Medical College of Wisconsin, 10/29-30/88
University of South Florida, Tampa, 9/9/89
Emory University Medical Center, Atlanta, 10/4/89
University of Miami, 12/6/89
Medical College of Virginia, Richmond, 1/11/90
University of British Columbia, St. Paul Hospital, 4/6/90
Vanderbilt University, 1/24/91
University of Arkansas, 10/9-10/91
State University New York Upstate Medical Center, 2/27-28/92
University of Nebraska, 3/14-16/95
University of Texas Health Science Center at San Antonio, 8/9/96
University of British Columbia, 2/7/97
Chandigarh Medical University, India, 1/3-10/98
University of Louisville, 9/14/98
University of Michigan, 1/8/99
Mayo Clinic, Rochester, Minnesota, 3/27-4/1/99
University of Chicago, Chicago, IL 9/22/99
Boston University, Boston, MA 1/20/00
New Jersey School of Medicine 2/24/00, 2002
University of Pennsylvania, Children's Hospital 6/19/03-6/20/03

JOURNAL REVIEWING AND EDITORIAL BOARDS

Reviewer:

Acta Radiologica
American Journal of Roentgenology
British Journal of Surgery
Cancer
Cardiovascular and Interventional Radiology
Case Reports in Surgery
Computer Assisted Radiology & Surgery International Journal
Digestive Disease and Science
Endoscopy
Gastroenterology
Hepato-Biliary Pancreatic Surgery
Insights into Imaging
International Journal of Computer Assisted Radiology & Surgery
International Journal of Microbiology
Journal Cardiovascular and Thoracic Surgery
Journal of Clinical Ultrasound
Journal of Endovascular Therapy
Journal of International Hepato-Biliary Pancreatic Surgery
Journal of Lithotripsy and Stone Disease
Journal of Medicine and Medical Sciences
Journal of Ultrasound in Medicine
Mayo Clinic Proceedings
Radiographics
Radiology
Radiology Cardio-Thoracic
Surgery
The Laryngoscope
The New England Journal of Medicine
The Oncologist
Scientifica
Journal of Vascular & Interventional Radiology
Academic Medicine
Radiology Imaging Cancer
European Radiology
Postgraduate Medical Journal

Assistant Editor:

Abdominal Imaging
American Journal of Gastroenterology
American Journal of Roentgenology (1988-1991)

Investigative Radiology (1991-1994)
Journal of Critical Care
American Journal of Roentgenology 2003 – 2010

Associate Editor:

Radiology (1992 – 1999)
Journal of Intensive Care Medicine (1997-Current)
Radiology Report
Journal of the Society of Minimally Invasive Therapy
Seminars in Interventional Radiology
Academic Radiology (1994-1995)
International Medical Image Registry (1995-1996)

Consultant to the Editor:

Radiology (1992-99)
American Journal of Roentgenology (Interventional Radiology Section) (1998- 2010)
Seminars in Interventional Radiology
Hepato-Biliary Pancreatic Surgery

Co-Editor in Chief:

Journal of Interventional Radiology
Key Interventional Radiology (through 1991)

Editorial Advisory Board

Interventional Radiology Monitor Intervention
Cardiovascular & Interventional Radiology (1999-2004)
HPB The Official Journal of the International Hepato-Pancreatico-Biliary Association
Arizona Bluegrass Association Newsletter (2009-present)
Seminars in Interventional Radiology
Abdominal Radiology (2024-)
Post Graduate Medicine (2024-)

Editor in Chief

Cardiovascular and Interventional Radiology (CVIR) (2002–2005)
Emeritus Voices (Literary Journal of Arizona State University Emeritus College)
2009-2012
AZMS Baseball League Newsletter (2013-2018)

GRANTS/RESEARCH COMMITTEES

“Assessment of Specimen Adequacy in Renal Needle Biopsy—Comparison of Various Needle Sizes and Designs” Eric vanSonnenberg, M.D., Ralph Koenker, M.D., Gerhard R. Wittich, M.D., Meadox Surgi-Med Corporation.

“Ceruletide Project”, Giovanna Casola, M.D. Eric vanSonnenberg, M.D. Adra Labs.

“Percutaneous Gastrostomy Development”, Eric vanSonnenberg, M.D. , Gerhard R. Wittich, M.D., Cook, Inc.

“Development of Cholecystostomy Instrumentation”, Eric vanSonnenberg, M.D., Principle Investigator, Gerhard R. Wittich, M.D., Giovanna Casola, M.D., MediTech, Inc.

“Assesment of Tumor Tracking by Needle Biopsy” project, Eric vanSonnenberg, M.D., Thomas Brannigan, M.D., Giovanna Casola, M.D., Meadox Surgi-Med Corporation.

“Evaluation of Biliary Endoscope”, Eric vanSonnenberg, M.D., Principle Investigator, Giovanna Casola M.D. Robert Varney, M.D., MediTech, Inc.

“Investigation of Methyl-Tert-Butyl Ether”, Alan Hofmann, M.D., Eric vanSonnenberg, M.D., Co-Principal Investigator, I.N.D.

“Gallstone Agitator Development”, Eric vanSonnenberg, M.D. Principle Investigator, Joanna Cox, M.D. , Medi-tech, Inc., (units placed at UCSD Medical Center).

“Development of an Improved solvent for Contact Dissolution of Cholesterol Gallstones”, Alan F. Hofmann, M.D., Eric vanSonnenberg, M.D., Lithox, Inc.

“Percutaneous Endoscopic Development for Gallbladder and Abdominal Viscera”, Intramed Laboratories, Inc., Eric vanSonnenberg, M.D., Principal Investigator, (units placed at UCSD Medical Center).

“Percutaneous Ultrasound Development, Disonics-Boston Scientific, Inc. (unit placed at UCSD Medical Center), Eric vanSonnenberg, M.D.

Bruel & Kjaer Interventional Radiology Ultrasound Development, Eric vanSonnenberg, M.D., Principle Investigator, (2 units placed at UCSD Medical Center).

Electrohydraulic Lithotripsy Development, Northgate, Inc., Eric vanSonnenberg, M.D., Principal Investigator, (unit placed at UCSD).

“Gallbladder Ablation”, San Diego Radiology Research and Education Foundation, Horatio D’Agostino, M.D., Eric vanSonnenberg, M.D.

“Evaluation of Needles for Kidney Biopsy”, Bard, Inc., Jong Park, M.D., Eric vanSonnenberg, M.D.

“NMR Detectable Markers of Abscess Collections”, Eric vanSonnenberg, M.D., Jim Schumacher, M.D., UCSD Academic Senate Research Award.

“Radiofrequency Ablation of Hepatic Tumors”, Boston-Scientific, Inc., Eric vanSonnenberg, M.D., Robert Sanchez, M.D., (unit placed at UCSD Medical Center).

Candela Laser Development (laser unit placed at UCSD Medical Center) Eric vanSonnenberg, M.D., Principal Investigator.

Bruel & Kjaer Ultrasound Unit 3535 for Interventional Radiology and Doppler Ultrasound (Placed at UCSD Medical Center), Eric vanSonnenberg, M.D., Principal investigator.

Cryoablation Unit (Clinical and Research) purchased and placed at UCSD Medical Center, Eric vanSonnenberg, M.D., Principal Investigator.

“Approaches to Gene Therapy for Cancer”, Theodore Friedman, M.D., Principal Investigator Eric vanSonnenberg, M.D., et al.

Cryoablation Unit (Clinical and Research) purchased and placed at UTMB at Galveston, TX Eric vanSonnenberg, M.D., Principal Investigator.

Grant Reviewer – Winthrop/Sanofi Corporation, 1990.

Breast Imaging Fund-Raising Campaign – 1995 (\$1.7 million for breast MRI, core biopsy, and mammography van).

“Treatment of Tracheobronchial Strictures with Wallstent Tracheobronchial Prostheses”, Eric vanSonnenberg, M.D., Principal Investigator, Joseph Zwischenberger, M.D., Gerhard Wittich, M.D., Schneider, Inc., \$5,000.

“Real-Time Fuzzy Logic Control of Thermal Therapy”, Hao Ying, Ph.D., Eric vanSonnenberg, M.D., Whittaker Grant, C.R. Bard, Inc., UTMB Sealy Foundation, U.S. Dept. of Commerce (SBIR) Texas A&M Sea Grant College Program.

“Radiofrequency Ablation of Tumors”, Eric vanSonnenberg, M.D., Principal Investigator, unit placed at UTMB, RITA Corp.

“Electronic Transmission of Rural Radiographs”; Eric vanSonnenberg, M.D., Principal Investigator, Alabama Coushatta Indian Tribe/Sam Houston State College, UTMB Department of Radiology, \$130,000 grant.

“Radiofrequency of Lung Lesions”, Eric vanSonnenberg, M.D., and Oliver Esch, M.D., Co-Principal Investigators, Radionics, Inc., \$39,000.

“UTMB Radiology Research Grant Symposium”, Eric vanSonnenberg, M.D., Co-Coordinator; Sponsored by the UTMB Radiology Department, 6/27/98, Open Gates.

“Diagnostic Radiology Study Section”, Sponsored by the Department of Health and Human Services, National Institutes of Health (Center for Scientific Review), 10/13-14/98, Washington, D.C.

“In Vitro Experiments in Tumor Ablation”, Eric vanSonnenberg, MD, PI Yung Chen, sponsored by Boston Scientific.

“Radiofrequency of Lung Tumors”, Eric vanSonnenberg, MD, PI; Boston Scientific Corporation.

“Metcalf Family Donation to Interventional Radiology and Tumor Ablation”, Eric vanSonnenberg, MD, PI, 2002.

“Phase II Study of Gleevec in Patients with Unresectable or Metastatic-Gastrointestinal Stromal Tumors Expressing C-Kit”, Eric vanSonnenberg, MD (Co-Investigator); Novartis Pharmaceuticals Corporation.

Pastor Family Donation to Tumor Ablation Project, Eric vanSonnenberg, MD, PI, 2004.

Loss Family Donation to Tumor Ablation Project, Eric vanSonnenberg, MD, PI, 2005.

Arizona State University Emeritus College, Research Grant Reviewer 2009

UCLA Subaward for participation as a training site, HRSA Geriatric Education Centers Award Program. Eric vanSonnenberg, MD, Training Site PI. 2010-2012

International Science & Engineering Fair, Co-Chair Medical Section; Phoenix, Arizona; May, 2013

International Science & Engineering Fair, Grand Award Judge Medical Section; Los Angeles, California; May, 2014

Valley Research Program, Grant Committee Reviewer—March 2016

Academic Research Excellence Day, Phoenix; Judge; May, 2016

International Science & Engineering Fair (ISEF); co-Chair Medicine Section, Phoenix, Arizona, May 2016

PI, Assessment of Medical Student Facility w/ a New Needle Biopsy System; Phil Cheung MSIV Scholarly Project; University of Arizona College of Medicine, Phoenix

University of Cincinnati College of Medicine Research Day Judge, 2020

University of Arizona IRB Umbrella Committee 2021-

University of Cincinnati College of Medicine Research Day, Judge, November 2021

Michael Grossman Annual Phoenix Research Meeting, Judge, April 2023

Annual Michael Grossman Academic Excellence Day, Judge, 2024

29th Annual Michael Grossman Academic Excellence Day, Judge, 2025

IRB/RESEARCH PROTOCOLS

Cryotherapy of the Prostate, Joseph Schmidt, M.D. and Eric vanSonnenberg, M.D., Co-Principal Investigators; UCSD, San Diego, California.

Cryotherapy of the Prostate, Eric vanSonnenberg, M.D. and Eduardo Orihuela, M.D., Co-Principal Investigators; Michael Warren, M.D., Durwood Neal, M.D., Co-Workers; UTMB, Galveston, Texas.

Treatment of Tracheobronchial Structures with Wallstent Tracheobronchial Prostheses, Eric vanSonnenberg, M.D., Joseph Zwischenberger, M.D., and Gerhard Wittich, M.D., Co-Principal Investigators; Oliver Esch, M.D., Brian Goodacre, M.D., Eric Walser, M.D., Robert Morgan, M.D., Christian Nolsoe, M.D., Co-Workers; UTMB, Galveston, Texas.

Alternative Methods to Treat Liver Tumors, Eric vanSonnenberg, M.D. and Courtney Townsend, Jr., M.D., Co-Principal Investigators; Oliver Esch, M.D., William Nealon, M.D., Thomas Broughan, M.D., Brian Goodacre, M.D., Eric Walser, M.D., Massoud Motamedi, Ph.D., Ben Signer, M.D., Co-Workers; UTMB, Galveston, Texas. (pending)

Alternative Methods to Treat Pancreatic Carcinoma, William Nealon, M.D., Eric vanSonnenberg, M.D., Co-Principal Investigators; Gerhard Wittich, M.D., Brian Goodacre, M.D., Oliver Esch, M.D., Eric Walser, M.D., and Masood Motamedi, M.D., Co-Workers; UTMB, Galveston, Texas.

Effect of Cryosurgery in Human Renal Cell Cancer, Eduardo Orihuela, M.D., Principal Investigator, Michael Warren, M.D., Durwood Neal, M.D., Eric vanSonnenberg, M.D., Brian Goodacre, M.D., Massoud Motamedi, Ph.D., Adekunle Adesokan, Co-Investigators, UTMB, Galveston, Texas.

Cryomyolysis, Joanne Mallett, M.D., Principal Investigator, Eric vanSonnenberg, M.D., Collaborator, UTMB, Galveston, Texas.

RF Hepatic Tumor Ablation, Eric vanSonnenberg, M.D., Principal Investigator, IRB Innovative Therapy, Harvard Medical School.

RF Lung Tumor Ablation, Eric vanSonnenberg, M.D., Principal Investigator, IRB Innovative Therapy, Harvard Medical School.

MR-guided Cryoablation of Adrenal Tumors; G Sica, PI, Eric vanSonnenberg

MR-guided Cryoablation of Liver Tumors; S Silverman. PI, Eric vanSonnenberg

MR-guided Cryoablation of Renal Tumors; S Silverman, PI, Eric vanSonnenberg

Pediatric RF Tumor Ablation, Children's Hospital, Harvard Medical School, 2004.

Percutaneous thermal ablation with radiofrequency energy and porcine model.
Eric vanSonnenberg, PI; Harvard Medical School

Centered Safety and Efficacy Evaluation of the Bio-Seal Biopsy Track Plug for Reducing Pneumothorax Rates Post Lung Biopsy Procedures, Principal Investigator-- Eric vanSonnenberg, MD; Co-Workers: Ross Bremner, MD, Shawn Wright, MD, Neil Goldstein, MD, and Renato Santos, MD; St. Joseph's Hospital and Medical Center, 2007.

Assessment of Medical Student Facility w/ a New Needle Biopsy System; Phil Cheung MSIV Scholarly Project, Eric vanSonnenberg, MD, PI; U of Arizona College of Medicine

Evaluation of Abstract Style Preference, Comparing Structured Versus Unstructured among Various Medical Specialties. Eric vanSonnenberg, MD PI; Megha Patel MSII; U of Arizona College of Medicine

PART-TIME EMPLOYMENT

Radiology Imaging & Diagnostics Hemet, California Diagnostic Radiologist	2019-2020
Phoenix Diagnostic Imaging Phoenix, AZ Diagnostic Radiologist	2008
Sun Radiology Sun City, AZ Diagnostic Radiology	2008
Payson Medical Center Payson, AZ Diagnostic and Interventional Radiologist	2005
Addison Gilbert Hospital Gloucester, MA Emergency Room Physician	1979-1981
Symmes Hospital Arlington, MA Radiologist	1980-1981
Wyman, Dreyfuss Associates Boston, MA Radiologist	1980-1981
Whidden Memorial Hospital Everett, MA Radiologist	1980-1981
Norwood Hospital Norwood, MA Radiologist	1980
Lowell General Hospital Lowell, MA Radiologist	1980-1981
Cambridge City Hospital Cambridge, MA Radiologist	1978-1980

Hunt Memorial Hospital Danvers, MA Emergency Room Physician	1977-1979
Goddard Medical Center Brockton, MA Radiologist	1977-1979
Greenpoint Hospital New York, New York Emergency Room Physician	1975-1976
Emergency Room Longview Hospital Cincinnati, Ohio Emergency Room Extern-'Physician'	1971-1973
Brown County Hospital Brown County, Ohio Emergency Room Extern-'Physician'	1972-1973