

CURRICULUM VITAE

Name: Philip Costello, M.D., F.A.C.R.

Office Address: Professor and Chairman
Department of Radiology
Medical University of South Carolina
169 Ashley Avenue, P.O. Box 250322
Charleston, SC 29425 USA

Education:

1965-1966 M.B., B.S. (Part I)
Kings College, London University

1966-1969 M.B., B.S. (Part II)
Westminster Medical School, London, England

Postdoctoral Training:

1969-1970 House Physician to Professorial Medical Unit,
Westminster Hospital, London, England

1970-1971 Internship, Hamilton Civic Hospitals, Hamilton, Ontario

1971-1975 Radiology Residency, University of Toronto and Toronto General Hospital,
Canada

Licensure and Certification:

1969 General Medical Council of Great Britain

1971 Medical Council of Canada

1974 American Board of Radiology

1975 Fellow of Royal College of Physicians of Canada (F.R.C.P.)

1975 Diplomate, American Board of Nuclear Medicine

1975 Massachusetts License Registration

1996 South Australian Medical License

1997 Fellow of the Royal Australasian College of Radiologists (F.R.A.C.R.)

1998 Pennsylvania License

2004 South Carolina Medical License

2005 Recertification, American Board of Nuclear Medicine

Academic Appointments:

1978-1984	Assistant Clinical Professor of Radiology, Harvard Medical School, Boston, MA
1984-1988	Assistant Professor of Radiology, Harvard Medical School, Boston, MA
1988-1996	Associate Professor of Radiology, Harvard Medical School, Boston, MA
1996-1998	Clinical Professor of Radiology, The University of Adelaide, Australia
1998-1999	Visiting Professor of Radiology, University of Pittsburgh School of Medicine, Department of Radiology, Pittsburgh, PA
1999-2003	Associate Professor of Radiology, Harvard Medical School, Boston, MA
2003-2004	Professor of Radiology, Harvard Medical School, Boston, MA
2004-present	Professor and Chair of Radiology, Medical University of South Carolina, Charleston, SC

Hospital or Affiliated Institution Appointments:

1975-1996	Staff Radiologist, New England Deaconess Hospital, Boston, MA
1976-1984	Clinical Associate, Brigham and Women's Hospital, Boston, MA
1980-1996	Director, Computed Tomography and Pulmonary Radiology, Department of Diagnostic Radiology, New England Deaconess Hospital, Boston, MA
1996-1998	Director, Department of Radiology, The Queen Elizabeth Hospital, Adelaide, Australia
1998-1999	Chief, Division of Chest Radiology, University of Pittsburgh Medical Center, Pittsburgh, PA
1999-2004	Chief, Division of Thoracic Radiology, Brigham & Women's Hospital, Boston, MA
2004-present	Chairman, Department of Radiology, Medical University of South Carolina, Charleston, SC
2004-present	Member, Peer Review Committee, Medical University of South Carolina
2009-present	President, University Medical Associates, Medical University of South Carolina

Major Committee Assignments:Hospital

1976-1978	Pulmonary Section Committee, New England Deaconess Hospital, Boston, MA
1978-1981	Disaster Plan Committee, New England Deaconess Hospital, Boston, MA
1987-1996	Institutional Review Board, New England Deaconess Hospital, Boston, MA
1996-1998	Joint Executive Committee, The Queen Elizabeth Hospital, Adelaide, Australia.
2004-2009	Secretary, Board of Directors, Executive Committee, University Medical Associates, Medical University of South Carolina, Charleston, SC
2005-2006	Chair, Search Committee for Director of Digestive Disease Center, Medical University of South Carolina
2006-2007	Chairman, Search Committee for Chair, Department of Surgery, Medical University of South Carolina
2006-	Conflict of Interest Committee, Medical University of South Carolina
2006-	Chairman, University Medical Associates/College of Medicine Backfill Planning Steering Committee, Medical University of South Carolina
2006-	Member, College of Medicine/University Medical Associates Steering Committee, Medical University of South Carolina

2007-2009 Chair, Communications Sub-Committee of MUSC Excellence Committee, Medical University of South Carolina

2009-present Chair, Executive Committee, University Medical Associates, Medical University of South Carolina

2009-2010 Search Committee for Vice President of Medical Affairs and Dean of Medicine

2010-present Chair, College of Medicine, Budget/Funds Flow Committee, Medical University of South Carolina

2010-present Chair, College of Medicine Tax Realignment Committee, Medical University of South Carolina

2010-present Member, Search Committee for Associate Deans for Faculty Affairs and Faculty Development

National

1990-1992 Scientific Exhibit Committee, American Roentgen Ray Society

1990-1992 Educational Committee, New England Roentgen Ray Society

1991-1997 Siemens Corporation Medical Advisory Board

1999-2002 Scientific Exhibit Committee, American Roentgen Ray Society

2000- Reviewer for *RadioGraphics* Multi-Specialty Exhibits, Radiological Society of North America, Chicago, IL, November

2001-2003 Society of Computed Body Tomography and Magnetic Resonance, Continuing Education Committee (2 year appointment)

2002-2005 Scientific Exhibit Committee, American Roentgen Ray Society

2003-2004 Principal Investigator, American College of Radiology – Contemporary Screening for the Detection of Lung Cancer - National Lung Screening Trial, Brigham and Women’s Hospital, Boston, MA

2006- Reviewer, Scientific and Educational Exhibits, American Roentgen Ray Society Annual Meeting

2006-2007 Chair, Credentials and Membership Committee, Society of Computed Body Tomography and Magnetic Resonance Imaging

2007-2010 Member, Chest Subcommittee of the Educational Exhibits Committee (EEC), Radiological Society of North America (3-year term)

2008-2011 Member, Corporate Relations Committee, American Roentgen Ray Society

2009-2012 Chair, Corporate Relations Committee, American Roentgen Ray Society

2010-2013 Roentgen Fund Board of Trustees, American Roentgen Ray Society.

Professional Societies:

1975-1992 Canadian Association of Radiologists

1975-1987 Ontario Medical Association

1975- Massachusetts Radiological Society

1975- New England Roentgen Ray Society

1976- American College of Radiology

1997- American Roentgen Ray Society

1978- Radiological Society of North America

1982- Society of Thoracic Radiology

1987- Association of University Radiologists

1997- Society of Computed Body Tomography and Magnetic Resonance

1997- Royal Australian and New Zealand College of Radiologists

2004- Society of Chairmen of Academic Radiology Departments

Editorial Advisory Boards:

- 1986- Reviewer - *American Journal of Roentgenology*
1986- Reviewer - *Radiology*
1986-1995 Reviewer - *Journal of Surgical Oncology*
1990- Reviewer - *RadioGraphics*
Reviewer – *Journal of Thoracic Imaging*

Awards and Honors:

- 1966 Pickering Biochemistry Prize, King's College
1966 DeZouza Physiology Scholarship, King's College
1968 Calveley Pathology Prize, Westminster Medical School
1968 Sturges Prize in Medicine, Westminster Medical School
1969 Chadwick Prize in Medicine, Westminster Medical School
1993 Bronze Medal and Certificate of Merit, American Roentgen Ray Society
Scientific Exhibit "Spiral CT of the Tracheobronchial Tree".
1994 Certificate of Merit, Radiological Society of North America Scientific Exhibit
"Spiral CT of Peridiaphragmatic Abnormalities: Benefits of Multiplanar Reformations"
1995 Fellow of the American College of Radiology
1995 Certificate of Merit, Radiological Society of North America Scientific Exhibit
"Chemoembolized Hepatomas: Correlation of CT studies with Clinical Course."
1997 Fellow of the Royal Australasian College of Radiology
1998 Society of Computed Body Tomography and Magnetic Resonance Imaging
Investigators Award
2000 Harry Z. Mellins Award, Department of Radiology, Brigham and Women's Hospital,
Boston, MA
2005-2006 Best Doctors in America Award
2007-2008 Best Doctors in America Award

Funding Information

- 1991-1992 Sanofi Winthrop Pharmaceuticals
Randomized evaluation of enhancement in the liver
of omnipaque 350, 300 and 240 and hypaque 60% in adult
patients undergoing dynamic sequential bolus CT of the
abdomen.
- 1993-1994 Sanofi Winthrop Pharmaceuticals
Randomized evaluation of enhancement in the liver
of omnipaque 350 and 300 in adult patients suspected of
having metastatic liver disease undergoing bolus
enhanced spiral CT of the abdomen.
- 1994-1995 BRACCO Diagnostics
A randomized comparative trial to evaluate Iopamidol-
370, Ioversol-300, Iohexol-240 in spiral contrast
enhanced computed tomography (S-CECT) of the abdomen.
- 1999-2001 Society for Body CT and MR

Investigator's Award for the topic, "Monitoring the therapeutic response of metastatic melanoma by fusion imaging of spiral CT and FDG PET data".

- 2002-2004 DEUS Technology Computer Aided Diagnosis Assessment
Provide digitally acquired chest xray images for the assessment of a computer aided diagnostic software (produced by DEUS Technologies) in the detection of lung nodules ranging in size from 9-30 mm.
- 2002-2004 R2 Technology CAD Assessment
To assess the accuracy of a computer-aided software tool on CT detected lung nodules and pulmonary emboli
- 2002-2004 American College of Radiology Imaging Network
Contemporary Screening for the Detection of Lung Cancer – ACRIN 6654
2003- Principal Investigator
- 2004-2007 U.S. Army Medical Research Acquisition Activity (USAMRAA).
High Resolution Volumetric Computed Tomograph (VCT) for Thoracic Imaging Using Digital Flat-Panel Technology

A. Current Research Activities

Assessment of multidetector CT - clinical applications for:

1. Cardiac assessment - coronary artery disease; cardiac function
2. Acute chest pain evaluation
3. Pulmonary nodule measurement and evaluation
4. Lung cancer screening of high risk individuals

B. Report of Teaching

1. Local Contributions:

a. Medical Schools

Harvard Medical School

1977 - 1991 Lecturer, Respiratory Pathophysiology Course
20 medical students, 4 hours per year

1987 Lecturer, Human Systems, Course No. 707.0
2 hours

University of Adelaide

1996 - 1998 Teaching of medical students – thoracic and abdominal imaging,
15 medical students, 30 hours per year

University of Pittsburgh

1998-1999 Teaching of medical students

Harvard Medical School

1999-2004 Medical student teaching during radiology electives

Medical University of South Carolina

2004- Medical student teaching during radiology electives
(Two 1-hour sessions)

b. Graduate Education

New England Deaconess Hospital

- 1975 - 1996 Radiology resident teaching, Chest Disease and Computed Tomography
Lecturer to 12 radiology residents
20 lectures per year
- 1975 - 1996 Teaching of medical house officers
10 lectures per year
- 1975- 1996 Weekly Pulmonary Radiology Conference
20 medical residents, staff physicians and surgeons

University of Adelaide – The Queen Elizabeth Hospital

- 1996-1998 Weekly Clinical Oncology Conference
Case Discussions
5 staff physicians
5 medical residents and fellows
- Weekly Pulmonary Medicine and Thoracic Surgery Conference
Case Discussions
5 physicians and 1 surgeon
10 medical residents
- Radiology Resident Lectures
Pulmonary Radiology/Abdominal Imaging
7 Radiology Residents
Presenter of Didactic and Leader of Case Discussions
80 hours per year

University of Pittsburgh

- 1998-1999 Pulmonary Radiology Lectures
Radiology residents
10 hours per year

Harvard Medical School

- 1999-2004 Pulmonary Radiology Lectures
Radiology residents
10 hours per year

Medical University of South Carolina

- 2004- Monthly Outcomes Conf.
Radiology Residents
- Thoracic Radiology Lecture – Monthly
Radiology Residents
- Liver Tumor Board – bi-monthly
- Medical Student Lecture (every three weeks)

2. Regional, National and International Contributions:

a. Invited Presentations

- 1977 "The Evolving Spectrum of Intrathoracic Lymphoma", New England Roentgen Ray Society, Boston, MA - October
- 1978 "Transhepatic Cholangiography and Bile Duct Drainage", Post-graduate course, Brown University, Union-Truesdale Hospital, Hyannis, MA - August
- 1978 "Preliminary Observation on the Clinical Value of Emission Computed Tomography," Hill TC, Costello P, McNeil BJ. World Federation of Nuclear Medicine - September
- 1979 "Advances in Cancer Treatment: Lung Biopsy Techniques", Harvard Medical School, Boston, MA - May
- 1980 "Percutaneous Transhepatic Decompression", Clouse ME, Costello P. Radiological Society of North America, Dallas, TX - November
- 1980 "Chest Disease - 1980", Harvard Medical School
- (a) Pulmonary Sarcoidosis: Radiological Features
 - (b) Panelist on Allergic Lung Disease
 - (c) Seminar on Computed Tomography of the Thorax.
- 1980 Panelist on Chest Disease, New England Roentgen Ray Society - October 1979 and 1980
- 1981 "Applications of Computerized Tomography", Speaker, Medical Grand Rounds, Kent County Hospital, Warwick, RI - February
- 1981 "Emergency Chest Radiology", Speaker, American College of Emergency Physicians. Waterville Valley, NH – January
- 1981 "Diagnosis of Pancreatic Carcinoma", Course in Cancer Management, Harvard Medical School/New England Deaconess Hospital – June
- 1981 "CT for the General Surgeon", Speaker, Surgical Grand Rounds, New England Deaconess Hospital and Mount Auburn Hospital - September
- 1982 "Introduction to Thoracic CT". Speaker, Department of Anaesthesia, Beth Israel Hospital, Boston, MA - April
- 1982 "CT Guided Thoracic Needle Biopsy Techniques", American College of Chest Physicians, Lahey Clinic, Burlington, MA - April

- 1982 "Radiological Diagnosis of Pancreatic Disease. Current Surgery", Speaker, Harvard Medical School - August
- 1982 "Gastrointestinal Tract Opacification - Computed Tomography 1982", Speaker, Harvard Medical School – September
- 1978 "Pulmonary Lymphoma and Lung Involvement in Systemic Disease", Speaker, New England Board Review Course, Boston, MA
- 1984 "Ultrasound and CT of Focal Splenic Pathology", Speaker, Canadian Association of Radiologists Meeting, Vancouver, BC - June
- 1984 "CT in Management of Lymphoma", Speaker, CT and NMR Course, Harvard Medical School - September
- 1984 Moderator, Pulmonary Radiology Case Presentation Panel, New England Roentgen Ray Society, Boston, MA
- 1985 "CT Body Stereotaxis: Initial Biopsy Experience", Onik G, Wells T, Goldberg HI, Moss RA, Costello P. AJR Meeting, Nashville, TN - May
- 1986 "CT-guided Stereotaxic Biopsy of the Thorax ", Costello P, Onik G. Society for Thoracic Radiology, Newport Beach, CA- February
- 1986 "Pulmonary Manifestations of the Lymphomas", Lymphoproliferative Diseases of the Lung", Speaker, Harvard Medical School - October
- 1987 "Thoracic Lymphoma", Chest Disease 1987, Harvard Medical School - October
- 1987 "Thoracic Lymphoma - Current Concepts", Grand Rounds, Massachusetts General Hospital - October
- 1988 "Thoracic Lymphoma", Chest Disease 1989, Harvard Medical School, Boston, MA
- 1990 "Gallbladder Lithotripsy - Clinical Experience". Second International Meeting of Lithostar Users, Cancun, Mexico - February
- 1990 "Clinical Experience with Gallbladder Lithotripsy", Advances in Biliary Shockwave Lithotripsy, New Orleans, LA - March
- 1990 "A Comparison of Subcostal and Intercostal Targeting for Cholecystolithotripsy", Third International Symposium on Biliary Lithotripsy, Munich, Germany - September
- 1990 "Clinical Experience with a Continuously Rotating CT System", Radiology Grand Rounds, Brigham and Women's Hospital, Boston, MA – November

- 1990 Panel on Unknown Cases, Scientific Meeting, Chest Radiology, New England Roentgen Ray Society, Cambridge, MA - November
- 1991 "Spiral Volumetric CT (SVCT) of the Mediastinum" European Congress of Radiology, Bi-Annual Meeting, Vienna, Austria - September
- 1991 "MR Venography: Clinical Applications in the Thorax", European Congress of Radiology, Bi-Annual Meeting, Vienna, Austria - September
- 1991 "Spiral CT - Thoracic Applications". Chest Imaging: 1991, Harvard Medical School Course, Boston, MA - October
- 1991 "Spiral CT - Thoracic Applications". New England Roentgen Ray Society Refresher Course, Mt. Washington Hotel, NH - October
- 1991 "Clinical Applications of Spiral CT". Beth Israel Hospital, Radiology Research Seminar, Harvard Club, Boston, MA - October
- 1991 "Clinical Indications for Spiral CT". CT/MR Tampa District User Meeting, Sonesta Villa Resort, Orlando, FL - October
- 1992 "Recent Advances in Computed Tomography", Radiology Grand Rounds, Mt. Auburn Hospital, Cambridge, MA - March
- 1992 "Cardiovascular Applications of Spiral CT", 2nd European CT Conference, Rudolph Virchow University, Berlin, Germany - March
- 1992 "Clinical Use of Spiral CT in the Thorax", CT Seminar, Tucson, Arizona - May
- 1992 "Complex Abdominal Fluid Collection Drainage using CT Guidance", CT Seminar, Tucson, Arizona - May
- 1992 "Current Concepts in Spiral CT". Siemens CT Seminar, Cerritos, CA - June
- 1992 "New Developments in Spiral CT" Hoag Memorial Hospital, Newport Beach, CA - August
- 1992 "Spiral CT: Thoracic Applications" Spiral CT Conference, Johns Hopkins University, Baltimore, MD - August
- 1992 "Vascular Applications" Spiral CT Conference, Johns Hopkins University, Baltimore, MD - August
- 1992 "Spiral CT: Vascular Applications in the Thorax and Abdomen." Radiology Grand Rounds, M.D. Anderson Hospital, Houston, TX - September
- 1992 "Spiral CT: Vascular Applications in the Thorax and Abdomen." Radiology Grand Rounds, Southwestern Medical Center Dallas, TX - November

- 1993 "CT Angiography of the Abdominal Aorta". Vascular Conference, Brigham & Women's Hospital, Boston, MA - February
- 1993 "Spiral CT: Use in Radiotherapy Planning". Radiotherapy Users Conference, Santa Barbara, CA -March
- 1993 "Vascular Applications of Spiral CT". CT Conference, University of Wisconsin, Madison, WI - April
- 1993 "Spiral CT of the Thorax". CT Conference, University of Wisconsin, Madison, WI – April
- 1993 A Spiral CT of the Thorax and Vascular Spiral CT. University of Wisconsin, Madison, WI - May
- 1993 "Clinical Applications of Spiral CT in the Abdomen", University of Washington Medical Center, Seattle, WA - September
- 1993 "Spiral CT of the Tracheobronchial Tree: Clinical Applications and Technique". The 44th Annual Meeting of the Royal Australasian College of Radiologists, Sydney, Australia – October
- 1993 "Spiral CT Angiography". The 44th Annual Meeting of the Royal Australasian College of Radiologists, Sydney, Australia - October
- 1993 "Imaging Thoracic Lymphoma". The 44th Annual Meeting of the Royal Australasian College of Radiologists, Sydney, Australia - October
- 1993 "Clinical Applications of Spiral CT". Sturdy Memorial Hospital, Attleboro, MA - November
- 1993 "Spiral CT Imaging and CT Angiography". Florida West Coast Radiological Society, Tampa, FL - November
- 1993 "Spiral CT Angiography in the Thorax and Abdomen". University of Pennsylvania Medical Center, Philadelphia, PA - December
- 1993 "Spiral CT of the Thorax". Philadelphia Roentgen Ray Society, Philadelphia, PA - December
- 1993 "Spiral (Helical) CT: Principles, Techniques, and Clinical Applications". Plenary Session, Refresher Courses, Panel Member, 79th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov.-Dec.
- 1994 "Spiral CT Angiography". University Hospital, Indiana University, Indianapolis, IN - February

- 1994 "Spiral Helical CT of the Thorax". University Hospital, Indiana University, Indianapolis, IN - February
- 1994 "Spiral CT □ Clinical Applications". North Shore Radiological Society - February
- 1994 "Spiral CT of the Thorax". Radiology Grand Rounds. Cedars-Sinai Medical Center, Los Angeles, CA - February
- 1994 "Spiral CT of the Thorax". Annual Meeting of the Society for Thoracic Radiology, Phoenix, AZ - March
- 1994 Panel on Unknown Cases, Scientific Meeting, Thoracic Radiology, New England Roentgen Ray Society, Cambridge, MA - March
- 1994 "Spiral CT of the Chest". Categorical Course on Body CT, 94th Annual Meeting, American Roentgen Ray Society, New Orleans, LA - April
- 1994 "Vascular Imaging with Spiral CT". 81st Annual Meeting of the Texas Radiological Society, Austin, TX -April
- 1994 "Spiral CT of the Thorax". 81st Annual Meeting of the Texas Radiological Society, Austin, TX -April
- 1994 "Imaging of Thoracic Lymphoma". 81st Annual Meeting of the Texas Radiological Society, Austin, TX - April
- 1994 "Spiral CT Angiography". Visiting Professor, University of Maryland, Maryland Radiological Society, Baltimore, MD - May
- 1994 "Spiral CT Angiography". UCLA Medical Center, Los Angeles, CA - May
- 1994 "Spiral CT of the Thorax". American Thoracic Society Annual Meeting, Boston, MA - May
- 1994 "What's New in Fast CT Scanning?". Siemens CT Technologists Seminar. San Diego, CA - June
- 1994 "CT Angiography Overview". Siemens CT Technologists Seminar. San Diego, CA - June
- 1994 "Interventional CT Procedures". Siemens CT Technologists Seminar. San Diego, CA - June
- 1994 "Clinical Applications of CT Angiography". Guest Lecturer, University of Colorado Health Sciences Center, Department of Radiology, Denver, CO - September

- 1994 "Lessons Learned from Spiral CT and Applied to Fast CT Imaging". Invited Speaker "Seminar: The Future of EBCT Imaging - Where Should the Development Emphasis Be?" Panel Member Advances in Ultrafast Computed Tomography 1994. An International Symposium on Electron Beam Tomography. University of Iowa - October
- 1994 "Spiral CT of the Thorax". Radiology Grand Rounds. Massachusetts General Hospital, Boston, MA - October
- 1994 "Vascular CT" and "Spiral CT of the Thorax". Guest Lecturer, University of Kentucky Medical Center and The Bluegrass Radiological Society, Lexington, KY - October
- 1994 "Vascular CT". Magnetic Resonance and CT Update Course. Harvard Medical School, Boston, MA - October
- 1994 "Vascular CT Imaging" and "Spiral CT Clinical Applications". Puerto Rico Radiological Society, Puerto Rico - October
- 1994 "Spiral CT of the Thorax". University of Southern California - LA County Medical Center, Los Angeles, CA - November
- 1994 "Fast CT Imaging: Spiral CT or Electron Beam CT?" Radiology Grand Rounds, Brigham and Women's Hospital, Boston, MA - November
- 1994 "Clinical Applications of Spiral CT". Radiology Grand Rounds, Boston University Medical Center, Boston, MA - November
- 1994 "Spiral (Helical) CT: Principles and Clinical Applications". Refresher Course - 80th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov-Dec
- 1995 "Vascular Computed Tomography." Radiology Grand Rounds, Mount Auburn Hospital, Cambridge, MA - April
- 1995 "Spiral CT of the Thorax." Radiology Grand Rounds, University of Massachusetts Medical Center, Worcester, MA - April
- 1995 "Spiral CT of the Thorax." DVT Mini Symposium. The Canadian Association of Radiologists, Montreal, Canada - June
- 1995 "Spiral CT of Pulmonary Thromboembolism." DVT Mini Symposium. The Canadian Association of Radiologists, Montreal, Canada - June
- 1995 "Helical CT - Clinical Applications in the Thorax." Chest Course, Harvard Medical School, Boston, MA - September
- 1995 "Vascular CT." CT/MRI, Harvard Medical School, Boston, MA - October

- 1995 "What Direction Does EBT Imaging Need to Take in 1996?"
Panelist: An International Symposium on Electron Beam Tomography by The University of Iowa College of Medicine and Harbor-UCLA Medical Center. Scottsdale, AZ – October
- 1995 "Spiral (Helical) CT: Principles and Clinical Applications". Refresher Course - 81th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov-Dec
- 1995 Moderator, Chest (Spiral CT) - 81th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov-Dec
- 1996 "Spiral CT: Principles and Applications". Visiting Professor of Radiology, College of Physicians, Columbia University, NY. January 29, 1996
- 1996 "Spiral (helical) CT of the Thorax". Visiting Professor of Radiology. The Department of Diagnostic Radiology and Nuclear Medicine, University of Western Ontario, London, Ontario, Canada. April 1, 1996.
- 1996 "Helical (Spiral) CT: Principles and Clinical Applications in Thoracic Imaging; Part I". Visiting Professorship Lecture Series. The Department of Radiology University of Pittsburgh and The Pittsburgh Roentgen Society, Pittsburgh, PA. April 10, 1996.
- 1996 "Helical (Spiral) CT: Principles and Clinical Applications in Thoracic Imaging; Part II". Visiting Professorship Lecture Series. The Department of Radiology, University of Pittsburgh and The Pittsburgh Roentgen Society, Pittsburgh, PA. April 10, 1996.
- 1996 "Malignant Lymphoma and the Thorax". Visiting Professorship Lecture Series. The Department of Radiology, University of Pittsburgh and The Pittsburgh Roentgen Society, Pittsburgh, PA. April 11, 1996.
- 1996 "Vascular System Imaging with Helical CT". Visiting Professorship Lecture Series. The Department of Radiology, University of Pittsburgh and The Pittsburgh Roentgen Society, Pittsburgh, PA. April 11, 1996.
- 1996 "Contributions of Helical and Electron Beam CT to Thoracic Imaging". 96th Annual Meeting American Roentgen Ray Society. San Diego, CA. May 8, 1996.
- 1996 "Spiral CT of the Thorax". Royal Australasian College of Radiologists (SA), Adelaide, South Australia, 24 September 1996.
- 1996 "Advances in gastrointestinal CT", Department of Gastroenterology/University Department of Medicine, The Queen Elizabeth Hospital, Adelaide, South Australia, 2 October.

- 1997 "Spiral (Helical) CT: Principles and Clinical Applications", Scientific Session - 82nd Scientific Assembly & Annual Meeting, RSNA, Chicago, IL. Dec.1-6.
- 1998 "Effect of Different Intravenous Iodine Doses during Helical CT of Tumor-Liver Relative Contrast Attenuation", Scientific Session - 82nd Scientific Assembly & Annual Meeting, RSNA, Chicago, IL. Dec. 1-6.
- 1997 "Applications of Spiral CT in Nephrology", Asia Pacific Forum in Nephrology, Hayman Island, Queensland, March 7-9 1997
- 1997 "Contribution of Helical CT and Electron Beam CT to Thoracic Imaging". American Roentgen Ray Society Meeting, Boston, May 1997.
- 1997 "The Impact of Spiral CT on Thoracic Imaging". University of Pittsburgh Medical Centre Radiology Grand Rounds. 12 August 1997.
- 1997 "Pulmonary Embolus - A new look at patient diagnosis utilising spiral CT scanning. The Royal Adelaide Hospital, Adelaide, South Australia, 20 August 1997
- 1997 "CT Angiography and advances in 3D imaging". Macquarie University, Sydney, New South Wales. 27 August 1997.
- 1997 "Advances in 3D CT Angiography". Royal Australasian College of Surgeons (SA State Committee) Annual General Meeting, Adelaide, South Australia, 5 September 1997.
- 1997 "Spiral CT for the Diagnosis of Pulmonary Emboli". The Royal Australasian College of Radiologists 48th Annual General and Scientific Meeting, Adelaide, South Australia, 12-15 September 1997.
- 1997 "Multiphasic Spiral CT of the Transplanted Kidney". The Royal Australasian College of Radiologists 48th Annual General and Scientific Meeting, Adelaide, South Australia, 12-15 September 1997.
- 1997 Chair, Spiral CT Session, The Royal Australasian College of Radiologists 48th Annual General and Scientific Meeting, Adelaide, South Australia, 12-15 September 1997.
- 1997 "Advances in Spiral CT Imaging". Invited Speaker, Nycomed Seminar, Sydney, NSW, 18-19 September 1997.
- 1997 "Advances in Vascular Imaging". Surgical Forum, The Queen Elizabeth Hospital/University of Adelaide Department of Surgery 22 September 1997.
- 1997 "Spiral CT and Pulmonary Emboli". Respiratory Medicine Unit Clinical Meeting, The Queen Elizabeth Hospital. 16 October, Adelaide, SA.

- 1997 “Advances in Spiral CT Angiography”. Annual Vascular Symposium, Adelaide, SA. 16-17 October.
- 1997 “Spiral CT of the Tracheobronchial Tree”. Asian-Oceanian Seminars on Diagnostic and Interventional Radiology, Kuala Lumpur, Malaysia. 1-2 November.”
- 1997 “Spiral CT in the Thorax: CT Angiography”. Asian-Oceanian Seminars on Diagnostic and Interventional Radiology, Kuala Lumpur, Malaysia. 1-2 November.
- 1997 “Spiral CT for the Diagnosis of Pulmonary Emboli”. Asian-Oceanian Seminars on Diagnostic and Interventional Radiology, Kuala Lumpur, Malaysia. 1-2 November.
- 1998 “Interactive 3D Volume Rendering - Vascular Applications”. 4th International Somatom Plus CT Scientific User Conference Rotterdam, March 6-7, 1998.
- 1998 “Spiral CT Angiography - A Noninvasive Tool For Vascular Imaging”. CDRC Research Seminar, The Queen Elizabeth Hospital, Adelaide, South Australia, 9 March 1998.
- 1998 “Advances in Imaging, Including the Role of PET Scanning”. The Thoracic Society of Australia & New Zealand Annual Scientific Meeting, Adelaide, South Australia March 15-18.
- 1998 “Application of Spiral CT to Diagnosis of Pulmonary Embolus”. The Thoracic Society of Australia & New Zealand Annual Scientific Meeting, Adelaide, South Australia March 15-18.
- 1998 Chair, Master Clinician Session The Thoracic Society of Australia & New Zealand Annual Scientific Meeting, Adelaide, South Australia, March 15-18.
- 1998 “Spiral CT Angiography of Thoracic Aorta”. Society Of Computed Body Tomography and Magnetic Resonance 21st Annual Course. March 30-April 3, Rancho Mirage, CA.
- 1998 Panelist: CT Club - Discussion of Interesting Cases. Society Of Computed Body Tomography and Magnetic Resonance 21st Annual Course. March 30-April 3, Rancho Mirage, CA.
- 1998 “A Practical Approach to High Resolution CT of the Chest”. The Royal Australasian College of Radiologists (SA Branch) Scientific Meeting. Adelaide, South Australia. April.
- 1999 “A Practical Approach to HRCT of the Lungs”. Pittsburgh Roentgen Society. February 2.

- 1999 Carotid Bifurcation CTA: Assessment of Interactive Volume Rendering”.
University of Pittsburgh Medical Center, Pittsburgh, PA.
- 1999 Society for Thoracic Radiology: Moderator of Plenary Session in Advances in
Spiral CT. Amelia Island, Florida. March.
- 1999 “Imaging Thoracic Lymphoma”.
“Spiral CT for Pulmonary Embolism”.
Panelist: CT Club Discussion of Interesting Cases.
Society of Computed Body Tomography and Magnetic Resonance.
22nd Annual Course. April 1999, New Orleans.
- 1999 Moderator of Thoracic Imaging: Cardiovascular Session.
“CT for Pulmonary Embolus”.
Society of Computed Body Tomography and Magnetic Resonance. Ninth
Summer Practicum. Keystone, Colorado. August 23-27.
- 1999 Program Co-Director and Moderator –HRCT: Panel Discussion. Lectures: “CT
of Pulmonary Thromboembolic Disease”, “Thoracic Aorta: Nontraumatic
Diseases”, “Mediastinal Masses-Nonvascular”. Chest Imaging 1999 Course.
Harvard Medical School, Brigham and Women’s Hospital / Massachusetts
General Hospital. Boston, MA. October 17-20.
- 1999 Co-Moderator, Chest (Multidetector and Other Advanced CT Applications).
85th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov-Dec
1999.
- 2000 "Protocol Selection for Spiral CT". Workshop. Society of Thoracic Radiology
Meeting. San Diego, CA. March 12-16.
- 2000 "Mediastinum, Solitary Nodules"
BWH/MGH Radiology Review 2000, Harvard Medical School, Brigham and
Women’s Hospital / Massachusetts General Hospital. Boston Marriott Copley
Place, Boston, MA. April 11.
- 2000 "A Practical Approach to Diffuse Lung Disease", "Spiral CT for the Diagnosis
of Pulmonary Emboli", and "CT of Large and Small Airways" Clinical
Essentials of Spiral CT Meeting. Institute for Advanced Medical Education.
Boston, MA. June 2-4.
- 2000 "A Practical Approach to HRCT of the Lungs"; "MR Imaging of the Thorax:
Technique and Interpretation", "Diseases of the Thoracic Aorta: CT and MR";
"Optimization of Techniques for Spiral CT of the Chest". Society of Computed
Body Tomography and Magnetic Resonance. Summer Practicum. Whistler, BC.
August 14-17.

- 2000 "Spiral CT for Pulmonary Thrombo-Embolism". Radiology Grand Rounds. University of Massachusetts Medical School. UMass Memorial Health Care. Department of Radiology, Worcester, MA. September 20.
- 2000 "Non-Traumatic Diseases of the Thoracic Aorta", "Pulmonary Embolism: Diagnosis by CT". MRI/CT Update 2000 Course. Harvard Medical School, Brigham and Women's Hospital / Massachusetts General Hospital. Boston, MA. October 10-14.
- 2000 Program Co-Director and Moderator – Cardiac MR-State of the Art; CT/MR of the Thoracic Aorta and Pulmonary Arteries; Potpourri; Acute Care Radiology; Film Panel. Lecture: "Spiral CT of the Thoracic Aorta". Chest Imaging 2000 Course. Harvard Medical School, Brigham and Women's Hospital / Massachusetts General Hospital. Boston, MA. October 19-November 1.
- 2000 "Tuberculosis Around the World: The Many Faces of a Rising Threat". Ros PR, Goldberg BB, Palmer PE, Leong L, Costello P, Ostensen H, Arredondo FA. Refresher Course (No. 317), 86th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL, November 28.
- 2001 "CT Lung Cancer Screening". Brigham and Women's Hospital Cancer Center 2001 Colloquium Series for Basic, Translational, and Clinical Research. Topic: Lung Cancer: Accomplishments and Challenges in Pathogenesis, Prevention, Diagnosis, and Treatment. Panelist and Discussant. Boston, MA. January 30.
- 2001 Workshop: "Optimizing Thoracic CT Techniques"; Lecture: "Diagnosis of Pulmonary Embolism"; Interactive Case Session - Chest. Society of Computed Body Tomography and Magnetic Resonance. Twenty-Fourth Annual Course. March 19-23.
- 2001 Lecture: "Thoracic MRI Technique and Interpretation". Society of Thoracic Radiology Meeting. Boca Raton, Florida. April 4-8.
- 2001 Moderator, "Panel of Unknown Cases". New England Roentgen Ray Society Meeting. April 20.
- 2001 "Mediastinum, Solitary Nodules"
BWH/MGH Radiology Review 2001, Harvard Medical School, Brigham and Women's Hospital / Massachusetts General Hospital. The Tremont Boston, Boston, MA. May 10.
- 2001 "Pulmonary Embolism CT". MRI/CT Update 2000 Course. Harvard Medical School, Brigham and Women's Hospital. Boston, MA. October 29-November 2.
- 2001 "CT of Pulmonary Embolism (PE)" and "CT of the "Thoracic Aorta". Visiting Lecturer in Diagnostic Radiology, University of Kentucky and The Bluegrass Radiological Society. November 8 & 9.

- 2001 "AIDS Imaging: A Worldwide Problem". Ros P, Goldberg BB, Corr PD Arredondo FA, Ostensen H, Costello P, Leong-Fung L. Refresher Course (No. 729), 87th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL, November 29.
- 2001 Co-Moderator of Chest Session: "Pulmonary Perfusion: Advances in MR and CT". 87th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL, November 27.
- 2002 "Lung Cancer Staging", "MRI of the Thorax", "How to Perform HRCT of the Lungs: A Practical Differential Diagnostic Approach", Panel Discussion/Questions and Answers, and Interactive Case Session - Chest Imaging. Society of Computed Body Tomography and Magnetic Resonance Twenty-Fifth Annual Course, Charleston, SC, March 18.
- 2002 Lecture, "Non-Vascular Thoracic MRI". Mini Symposium: CT Screening, "CT Screening for Lung Cancer". Pacific Northwest Radiological Society Meeting. Victoria, British Columbia, Canada, April 20-21.
- 2002 "Mediastinum, Solitary Nodules". BWH/MGH Radiology Review 2002, Harvard Medical School, Brigham and Women's Hospital / Massachusetts General Hospital. The Swissôtel, Boston, MA. April 25.
- 2002 "CT of the Thoracic Aorta". Categorical Course, Body CT. American Roentgen Ray Society, 102nd Annual Meeting, Atlanta, GA. April 30.
- 2002 Diagnosis: "CT/MR" Update on Venous Thromboembolism. Boston Park Plaza Hotel, Boston, MA July 18.
- 2002 Workshop: "CT Diagnosis of Acute Thoracic Emergencies"; Lectures: "Solitary Pulmonary Nodule: CT/PET"; "CT/MR of Mediastinal Pathology". Twelfth Summer Practicum, Society of Computed Body Tomography and Magnetic Resonance. Silverado Resort and Country Club, Napa, CA. August 18-22.
- 2002 Medical Grand Rounds. Lecture: "Imaging of Pulmonary Embolism". Radiology Grand Rounds. Lecture: "CT/PET of the Solitary Pulmonary Nodule". St. Raphael's Hospital, New Haven, CT. September 23.
- 2002 MRI/CT Update 2002 Course. Lecture: "CT Imaging of Pulmonary Embolism". Harvard Medical School, Brigham and Women's Hospital. Boston, MA. October 13-15.
- 2002 Imaging Strategies in Primary Care Medicine. Lecture: "DVT/PE: Nuclear vs. CT Imaging", and Roundtable Discussion. Tufts Managed Care Institute, Caritas Christi Health Care System, and Tufts University School of Medicine

- 2002 Clinical Essentials of CT & MRI. Lectures: "CT Screening of Lung Cancer"; "Solitary Pulmonary Nodule - PET/CT"; "HRCT of Interstitial Lung Disease: A Practical Approach"; "Interpretation Rounds in Chest CT". Institute for Advanced Medical Education. Westin River North, Chicago, IL. October 23-27.
- 2002 Program Co-Director and Moderator – Pulmonary Infections; Cardiovascular Imaging. Lectures: “Pulmonary Embolism: CT Evaluation”. Chest Imaging Course. Harvard Medical School, Massachusetts General Hospital / Brigham and Women’s Hospital. Boston, MA. October 17-20.
- 2002 Chairperson - Imaging Modalities 1; Lecture, "Controversial Aspects of Staging Lung Cancer by CT and MR". Innovative Achievements in Cancer Imaging. The Thirty-third International Symposium of The Princes Takamatusu Cancer Research Fund. Palace Hotel. Tokyo, Japan. November 12-14.
- 2002 Moderator, Scientific Session - Chest (Sunday, Room E351); "Lung Cancer Screening and Staging". Costello PC, Jacobson FL, Shaffer K. Categorical Course (No. 812). "AIDS Imaging: A Worldwide Problem". Ros P, Goldberg BB, Corr PD Arredondo FA, Ostensen H, Costello P, Leong-Fung L. Refresher Course (No. 529). 88th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL, December 1-6.
- 2003 Focus Sessions: “Nontraumatic Thoracic Aortic Emergencies”; “CT/PET of the Solitary Pulmonary Nodule”; Workshop: “How to Perform and Interpret CT Pulmonary Angiography”; Interactive Case Session: Chest Imaging. Twenty-Sixth Annual Course. Society of Computed Body Tomography and Magnetic Resonance. Rancho Mirage, CA, March 24-28.
- 2003 Massachusetts Thoracic Society Annual Meeting. Pro/Con Lecture (PRO): “Can Spiral CT Scanning and Radiography Replace V/Q Scans in Diagnosing Pulmonary Embolism”. Burlington Marriott, Burlington, MA. April 2.
- 2003 Cheema JIS, Costello P. Unusual Tumors of the Mediastinum and Pleura. Categorical Course: Oncologic Imaging, 103rd Annual Meeting, American Roentgen Ray Society, San Diego, CA, May 4-9.
- 2003 Co-Moderator, Scientific Session – Chest (CAD) (Sunday, Room E351) “Lung Cancer: Screening, Diagnosis, and Multimodality Staging”. Leung AN, Costello P. Refresher Course (No. 101); “Lung Cancer Screening and Staging”. Costello PC, Jacobson FL, Shaffer K. Refresher Course (No. 512). 89th Scientific Assembly and Annual Meeting, Radiological Society of North America, Nov. 3-Dec. 5.
- 2004 Interactive Case Session: Chest Imaging; Lecture: “Lung Cancer Staging by CT and PET Imaging”; Workshop: Mediastinal Mass Evaluation by CT and MRI. Twenty-Seventh Annual Course. Society of Computed Body Tomography and Magnetic Resonance. Henderson, NV. March 22-26.

- 2004 Co-Moderator, Scientific Session 18-Cardiopulmonary: Cardiovascular and Pulmonary Embolism. Costello P, Fishman JE. Abstracts 146-156. American Roentgen Ray Society Meeting. Miami, FL. May 2-7.
- 2004 Program Co-Director and Moderator – Lung Cancer Screening/Staging; HRCT of the Lungs /Unknown Case Quiz; Lectures: “Pleural Tumors”; Case Discussions; . Chest Imaging Course. Harvard Medical School, Brigham and Women’s Hospital/ Massachusetts General Hospital . Boston, MA. November 14-16.
- 2004 “Lung Cancer: Screening, Diagnosis, and Multimodality Staging”. Leung AN, Costello P, Erasmus J. Refresher Course (No. RC801); “Lung Cancer Screening and Staging”. Costello PC, Jacobson FL, Ravenel J. Refresher Course (No. RC512). 90th Scientific Assembly and Annual Meeting, Radiological Society of North America (Nov. 28-Dec. 3).
- 2005 Course Director, Charleston Course on Cardiothoracic Imaging, Charleston Place, Charleston, SC. March 3-5, 2005. “CT of the Thoracic Aorta”. Hands-on Workstation Instruction. “Images, Images, Images: Unknown Case Review.
- 2005 Lecture: Impact of MDCT on the Evaluation of Focal Lung Disease. Refresher Course: Evaluation and Management of Pulmonary Nodules. Costello P, Naidich D. 28th Annual Course, Society of Computed Body Tomography and Magnetic Resonance. Miami, FL. March 21-25.
- 2005 Lectures: “Pulmonary Nodule Assessment”; “Lung Cancer Staging”; “CT of Diffuse Lung Disease”; and “MDCT of Pulmonary Embolism”. CT & MR Imaging 2005. Institute for Advanced Medical Education. Las Vegas, NV. April 4-9
- 2005 Moderator: “Functional Imaging III – MR”; Co-Moderator: “Satellite Symposium – Siemens, New Clinical Perspectives in Cardio-Thoracic Imaging Using State-of-the-Art CT and MR”. Welcome; Lecture: Plenary Session: Lung Cancer II: “CT & MR in Lung Cancer Staging”.
- 2005 Lecture: “CT and MRI in Lung Cancer Staging”. 1st World Congress of Thoracic Imaging, Florence, Italy. May 7-10.
- 2005 Moderator: “Scientific Session 10-Cardiopulmonary Imaging: Pulmonary Embolism – Abstracts 085-090”; Section Chief, Scientific Exhibit Awards Committee. American Roentgen Ray Society 105th Annual Meeting, New Orleans, LA. May 15-20.
- 2005 Lecture: “Contrast Considerations with Cardiac CT”. Contrast Optimization and Emerging Technologies for the Cardiac Cath Lab. Marriottt at Metro Center. Transcatheter Cardiovascular Therapeutics (TCT2005). Richmond, VA. October 17.

- 2005 Radiology Grand Rounds Speaker, University of Maryland, Baltimore, MD. Lecture: “Has Spiral CT Replaced V/Q Scanning for Pulmonary Embolism?” November 16.
- 2006 Course Director, “Imaging Essentials: 2006”. Lectures: “A Practical Approach to HRCT of the Lungs”; “Impact of MDCT and PET/CT on the Management of the Solitary Pulmonary Nodule”; “Cardiac MR – Anatomy and Imaging Planes”. The International Institute for Continuing Medical Education, Inc. St. John’s Island, January 9-12.
- 2006 Visiting Professor and Jack Westcott Lecturer. Radiology/Medicine Grand Rounds. “Cardiac CT – Clinical Utility in 2006”. Hospital of Saint Raphael/Yale University School of Medicine, New Haven, CT. January 19.
- 2006 Visiting Professor, Yale-New Haven Hospital/Yale University School of Medicine. Lecture: “Impact of MDCT and PET/CT on Evaluation of the Solitary Pulmonary Nodule”. New Haven, CT. January 19.
- 2006 Moderator, “Coronary CTA”. Society of Thoracic Radiology, 2006 Annual Meeting. Participant, Unknown Film Panel. Royal Pacific Resort, Orlando, FL. March 12-16.
- 2006 Lecture: “Opportunities and Challenges for both Private Practice and Academic Radiologists in South Carolina”. Annual Meeting of the South Carolina Radiological Society. March 17-19.
- 2006 Course Director, Charleston Course on Cardiovascular Imaging, Sanctuary Hotel, Kiawah Island, SC. March 20-22. Lectures: “CTA of the Thoracic Aorta”; “CT and MR of Pericardial Disease”; “Non-Atherosclerotic Cardiac Disease”.
- 2006 Lectures: Has MDCT Replaced V/Q Imaging for Pulmonary Embolism Diagnosis?; Impact of MDCT on Focal Lung Disease; High Resolution MDCT of Diffuse Lung Diseases. 29th Annual Course, Society of Computed Body Tomography and Magnetic Resonance. Phoenix, AZ. April 3-7.
- 2006 Instructional Course – “MDCT: Principles and Applications in the Thorax” Gruden J, Costello P, Foley WD, Gutierrez F, Fleischmann D (IC401); American Roentgen Ray Society Annual Meeting, Vancouver, BC. April 20-May 5.
- 2006 Visiting Professor. Medical College of Virginia/Virginia Commonwealth University. Radiology Grand Rounds. Lecture: “Evaluation of Lung Cancer by CT and PET/CT”; “Resident Case Conference”. Richmond, VA. September 14.
- 2006 Guest Speaker, Richmond Radiological Society. Lecture: “Cardiac CT: Status in 2006”. Berkley Hotel, Richmond, VA. September 14.

- 2006 Speaker, “Chairs: Successes and Challenges Session”. Society of Chairmen of Academic Radiology Departments. Stoweflake Resort, Stowe, VT. Oct.11-15.
- 2007 Course Director, “Imaging Essentials: 2007”. Lectures: “Cardiac Anatomy, Variants, Anomalies”; “MDCT and PET/CT of the Solitary Pulmonary Nodule”; “Update on Lung Cancer Diagnosis and Staging”; “A Practical Approach to HRCT of the Lungs”; and Cardiac CT Review (17 cases). Medical University of South Carolina. St. Thomas, USVI, January 7-11.
- 2007 Lecture: “Modern Imaging of Liver Disease”. MUSC Liver Disease and Transplant Symposium. Embassy Suites Convention Center. North Charleston, SC. February 17.
- 2007 Key Note Presentation: “Status of Lung Cancer Screening in 2007”; Lecture: “Has Spiral CT Replaced V/Q Scans for Pulmonary Embolism?” Society of Computed Body Tomography/Magnetic Resonance. 30th Annual Course. Orlando, Florida. March 5-9.
- 2007 Moderator, Workshop: HRCT Unknown Film Panel. Participants: Khan A, Marom EM, McGuinness G, Strollo DC. Society of Thoracic Radiology Annual Meeting & Postgraduate Course. Red Rock Casino, Resort & Spa. Las Vegas, NV. March 25-29.
- 2007 Lectures: “Has MDCT Replaced V/Q Imaging for the Diagnosis of Pulmonary Embolism?” and “Management of the Solitary Pulmonary Nodule”. Moderator, Workshop: A Practical Approach to HRCT of the Lungs. 27th International London Course in Computed Tomography, Magnetic Resonance Imaging & Positron Emission Tomography. The Gleneagles Hotel, Auchterarder, Perthshire, Scotland. April 1-5.
- 2007 Panelist, “Chair Roundtable: How a Chair Can Help Your Career”. AUR-Philips 2007 Academic Faculty Development Program. Hyatt Regency Denver at Colorado Convention Center, Denver, CO. April 27.
- 2007 Chair, Acute Care Session. SOMATOM World Summit 2007. Siemens Medical Solutions. Hyatt Berlin, Germany. May 4-5.
- 2007 Lectures: “How to Implement a Comprehensive Cardiac Imaging Program” and “Management of the Incidentally Detected Lung Nodule”. Society of Computed Body Tomography/Magnetic Resonance. 2007 Summer Practicum. Banff, Alberta, Canada. August 5-9.
- 2008 Course Director: Cardiovascular Imaging in Costa Rica. Lectures: “Cardiac Anatomy, Variants, Anomalies”; “Extracardiac Findings at CT of the Heart”; “CT of the Thoracic Aorta”; “Nuclear Cardiology: PET, SPECT, PET-CT, SPECT-CT”. Case presentations at Cardiac CT Mentored Case Review. Medical University of South Carolina. Los Suenos Marriott Ocean and Golf Resort, Playa Herradura, Costa Rica. January 8-12.

- 2008 Visiting Professor, Emory University School of Medicine. Radiology Grand Rounds Lecture: “CT of Acute Aortic Syndromes”. Noon Lecture: “Impact of MDCT and PET/CT on the Management of the Solitary Pulmonary Nodule. Atlanta, GA. February 20.
- 2008 Course Director: “The Charleston Course at the Sanctuary”. Lectures: “Cardiac Anatomy, Variants, Anomalies”; “How to Set-Up a Cardiac CT Service”; “CTA of the Thoracic Aorta”. Imaging Olympics (case presentations); Cardiac CT Mentored Case Review (10 cases – Bypasses and Pulmonary Veins). Sanctuary Hotel, Kiawah Island, Kiawah, SC. February 24-27.
- 2008 Moderator, Case Review: Bypass Grafts. Lecture: “Cardiac CT: Business Issues”. Society of Computed Body Tomography & Magnetic Resonance. Charleston Place Hotel, Charleston, SC. March 30-April 4.
- 2008 Lecture: “Pulmonary Embolism”. Categorical Course. State-of-the-art Emergency and Trauma Radiology. American Roentgen Ray Society, 108th Annual Meeting, Washington, DC. April 14.
- 2009 Course Director: “Cardiac Imaging 2009”. Lectures: “Cross-Sectional Cardiothoracic Anatomy”; “Extracardiac Findings at Cardiac Imaging”; Cardiac CT and MR: Imaging Planes, Anatomy, Anomalies”; “How to Set Up a Successful Cardiac Imaging Service”; Cardiac CT Case Review: Bypass Grafts and Pulmonary Veins; Moderator - Cardiac Imaging Olympics: Unknown Cases for the Audience. Marriott St. Kitts Resort and Hotel. St. Kitts, West Indies. January 4-8.
- 2009 Course Director: “The Charleston Course at the Sanctuary: Cardiac Imaging 2009”. Lectures: “Cross-Sectional Cardiothoracic Anatomy”; “Extracardiac Findings at Cardiac Imaging”; “Cardiac CT and MR: Imaging Planes, Anatomy, Anomalies”; “How to Set Up a Successful Cardiac Imaging Service”; Cardiac CT Case Review: Normal Coronary Artery Anatomy, Variants, Anomalies; Bypass Grafts and Pulmonary Veins; Moderator - Cardiac Imaging Olympics: Unknown Cases for the Audience. Sanctuary Hotel, Kiawah Island, Kiawah, SC. February 22-25.
- 2009 Lecture: “Case-Based Introduction to CT of Coronary Artery Bypass”. Masters in Body Imaging Course. Society of Computed Body Tomography. Eden Roc, Miami Beach, Florida. March 5.
- 2009 Moderator, Scientific Session – Coronary Imaging. 2nd World Congress: Thoracic Imaging and Diagnosis in Chest Disease. Valencia, Spain. May 31.
- 2009 Invited Speaker. Sven Paulin Lecture. Radiology Grand Rounds. Lecture: “Cardiac CT Angiography – 5 Years of Progress at MUSC” and Resident Case Conference. Beth Israel- Deaconess Medical Center. Boston, MA October 16.

- 2009 Panelist: “Image Interpretation Session”; Moderator: Bisset GS; Panel: Beauchamp NJ, Berquist TH, Buckwalter KA, Costello P, John SD, Kruskal JB, Morgan DE, Tarver RD, Taylor RD, Taylor GA, Yuh WTC. Nov. 29 4:00-5:45 pm; Presiding: Cardiac (CT/MR Imaging: Chest Pain in ER) – Nov 30; Presiding: Cardiac (CT/MR Imaging: Miscellaneous) – Dec 2. Radiological Society of North America 95th Scientific Assembly and Annual Meeting. Chicago, IL. Nov 29-Dec 4.
- 2010 Course Director: “The Charleston Course at the Sanctuary: Cardiac Imaging 2010”. Lectures: “Cross-Sectional Cardiothoracic Anatomy”; “Extracardiac Findings at Cardiac Imaging”; “Cardiac CT and MR: Imaging Planes, Anatomy, Anomalies”; “How to Set Up a Successful Cardiac Imaging Service”; Cardiac CT Case Review: Normal Coronary Artery Anatomy, Variants, Anomalies; CT of Bypass Grafts and Pulmonary Veins; Moderator - Cardiac Imaging Olympics: Unknown Cases for the Audience. Sanctuary Hotel, Kiawah Island, Kiawah, SC. February 21-24.
- 2010 Visiting Professor, Nanjing Drum Tower Hospital, affiliated Hospital of Nanjing University Medical School, Nanjing, China. Lecture: “Advanced Cardiac CT Imaging in 2010”. July 26-29, 2010.
- 2010 Lecture: “Extracardiac Findings on Cardiac CT: Review of the Literature”. (Special Interest/Controversies/Hot Topics). SC43A. Radiological Society of North America 95th Scientific Assembly and Annual Meeting. Chicago, IL. December 1.

Teaching Award

- 1985-1986 Resident and Fellow Teaching Award, Department of Diagnostic Radiology, New England Deaconess Hospital Boston, MA

Advisory and Supervisory Responsibilities

- 1984-1985 Fellowship Supervisor for Gary Onik, M.D., CT/MR Imaging Division, Department of Radiology, New England Deaconess Hospital, Boston, MA
Trainee’s current position: Director of Surgical Imaging, Center for Surgical Advancement, Celebration Health/Florida Hospital, Celebration, FL.
Publications: 68.
- 1989-1993 Resident in Training Supervisor for Damian Dupuy, M.D., Department of Radiology, New England Deaconess Hospital, Boston, MA
Trainee’s current position: Clinical Associate Professor of Diagnostic Imaging, Brown University, Providence, RI. Publications: 32.
- 1990-1994 Resident in Training and Fellowship Supervisor for Richard Tello, M.D., Department of Radiology, New England Deaconess Hospital, Boston, MA
Trainee’s current position: Professor of Radiology, Boston University School of Medicine. Publications: 49.

- 1992-1996 Resident in Training and Fellowship Supervisor for Jonathan Kruskal, M.D., Department of Radiology and CT/MR Imaging Division, New England Deaconess Hospital, Boston, MA. Trainee's current position: Associate Professor of Radiology, Harvard Medical School. Publications: 48.
- 1993-1994 Fellowship Supervisor for Joachim Gaa, M.D., CT/MR Imaging Division, Department of Radiology, New England Deaconess Hospital, Boston, MA. Trainee's current position: Assistant Professor of Radiology, Faculty of Clinical Medicine Mannheim-University of Heidelberg, Germany. Publications: 52.
- 1994-1995 Fellowship Supervisor for Stephen Eustace, M.D., CT/MR Imaging Division, Department of Radiology, New England Deaconess Hospital, Boston, MA. Trainee's current position: Associate Professor of Radiology, Boston University School of Medicine, Head, Musculoskeletal Radiology, Boston Medical Center, Boston, MA. Publications: 79.
- 1997-1998 Fellowship Supervisor for Dr. Rodney Wu, CT/MR Imaging Division, University of Adelaide, South Australia. Trainee's current position: Staff Radiologist, Wellington Hospital, Wellington, New Zealand.
- 1997-1998 Fellowship Supervisor for Dr. Mark Tie, CT/MR Imaging Division, University of Adelaide, South Australia. Trainee's current position: Staff Radiologist, University of Adelaide. Publications: 2
- 1999-2000 Fellowship Supervisor for Dr. Ahmed Farag, Department of Radiology, Brigham and Women's Hospital, Boston, MA. Trainee's current position: Staff Radiologist (Private practice), Lake Forest Hospital, Lake Forest, IL. Publications: 2
- 2000-2001 Fellowship Supervisor for Dr. Maria Alejandra Duran Mendicuti. Trainee's current position: Fellow in Bone Radiology, Brigham and Women's Hospital. Publications: 1
- 2001-2002 Fellowship Supervisor for Dr. Ralph Drost. Trainee's current position: Fellow in Oncology, Dana Farber Cancer Institute.
- 2002-2003 Fellowship Supervisor for Dr. Jugesh Cheema. Trainee's current position: Staff Radiologist, VA Medical Center, New Haven, CT

PART III: BIBLIOGRAPHY:

1. Costello P, Clouse ME, Kane RA, Paris A. Problems in the diagnosis of adrenal tumors. *Radiology* 1977;125:335-341
2. Clouse ME, Costello P, Legg MA, Soeldner S, Cady B. The role of subselective angiography in the diagnosis of insulinomas. *AJR* 1977;128:741-746
3. Costello P, Zinman L, Michaud J. The angiography of intrarenal leiomyoma. *Can Assn Radiologists* 1978;29:134-135
4. Costello P, Gramm HF, Lokich J. Detection of hypertrophic pulmonary osteoarthropathy associated with pulmonary metastatic disease. *Clin Nuc Med* 1977;2:397-399

5. Costello P, Gramm HF, Steinberg D. Simultaneous occurrence of functional asplenic and splenic accumulation of disphosphomate in metastatic breast carcinoma. *J Nuc Med* 1977;128:1237-1238
6. Gramm HF, Reuter K, Costello P. Radiologic manifestations of diabetic gastric neuropathy and its differential diagnosis. *Gastrointestinal Radiology* 1978;3:151-155
7. Balikian JP, Chen TH, Costello P, Herman PF. Pulmonary actinomycosis: A report of three cases. *Radiology* 1978;128:613-616
8. Hill TC, Costello P, Gramm HF, McNeil BJ, Treves S. Early clinical experience with a radionuclide computerized emission tomography brain imager system. *Radiology* 1978;182:803-806
9. Hill TC, Costello P, Davis MA, Lovett R, Shulkin P. Radioisotope computerized emission tomography of the body of laboratory animals. *Radiology* 1978;128:799-801
10. Costello P. Renal displacement simulating crossed renal ectopia. *J Can Assn Radiologists* 1978;29:262-263
11. Costello P, Clouse ME, Rolla A. Hypoglycemia and extrapancreatic tumors. *AJR* 1979;132:445-447
12. Costello P, Mauch P. Radiographic features of recurrent intrathoracic Hodgkin's disease following radiation therapy. *AJR* 1979;133:201-206
13. Kane RA, Costello P, Sedgwick CA. Control of a Massively bleeding arteriportal fistula using a balloon catheter. *Am J Surg* 1980; 139:254-256
14. Rosenthal JT, Costello P, Roth RA. Varicosities of renal venous system. *Urology* 1980;15:427-429
15. Kennedy JD, Costello P, Balikian JP, Herman PG. Exogenous lipoid pneumonia. *AJR* 1981;136:1145-1149
16. Clouse ME, Tomashefski JR Jr., Reinhold RB, Costello P. Mechanical effect of balloon angioplasty: Case report with histology. *AJR* 1981;137:869-871
17. Costello P, Duszlak EJ, Clouse ME. CT-guided biopsy: A simplified approach. *Comput Tomogr* 1982;6:40-42
18. Duszlak EJ, Costello P, Seltzer SE, Clouse, ME. CT of prosthetic arterial graft complications. *Computed Tomogr* 1982;6:95-101
19. Duszlak EJ, Costello P, Crosson AW, Clouse ME. Pelvic sarcoidosis: CT demonstration. *J Comp Assist Tomogr* 1982;6:1032-1073

20. Lokich J, Costello P. Splenic embolization to prevent dose limitation of cancer chemotherapy. *AJR* 1983;140:159-161
21. Evans DE, Manco LA, Costello P. Renal cyst wall thickening following percutaneous aspiration. *J Compt Assist Tomogr* 1983;7:154-155
22. Clouse ME, Lee RGL, Duszlak EJ, Lokich JJ, Trey C, Alday MR, Yoburn DC, Diamond J, Crosson AW, Costello P. Peripheral hepatic artery embolization for primary and secondary hepatic neoplasms. *Radiology* 1983;147:407-411
23. Bennum RR, Costello P. CT findings in angioimmunoblastic lymphadenopathy. *J Compt Assist Tomogr* 1983;7:454-456
24. Reinhold RB, Lokich J, Tomaszewski J, Costello P. Management of malignant ascites with a peritoneovenous shunt. *Am J Surg* 1983;45:455-457
25. Clouse ME, Evans D, Costello P, Alday M, Edwards SA, McDermott WV. Percutaneous transhepatic biliary drainage: Complications due to multiple duct obstructions. *Ann Surg* 1983;198:25-29
26. Costello P, Duszlak EJ, Lokich J, Clouse ME. Assessment of tumor response by CT liver volumetry. *Comput Tomogr* 1983;7:323-326
27. Kane RA, Costello P, Duszlak EJ. CT findings in acute cholecystitis: New observations. *AJR* 1983;141:697-701
28. Costello P, Duszlak E, Kane RA, Lee RGL, Clouse ME. Peripancreatic lymph node enlargement in Hodgkin's disease, non-Hodgkin's lymphoma and pancreatic carcinoma. *Comput Tomogr* 1984; 8:1-11
29. Kane RA, Jacobs R, Katz J, Costello P. The porcelain gallbladder revisited: ultrasonic and CT findings. *Radiology* 1984; 152:137-142
30. Grigas D, Bor DM, Kosinski E, Costello P, Rose RM. Cardiopulmonary function following post operative mediastinitis. *Chest* 1984; 85:729-732
31. Pezzuti RT, Hill TC, Kasulis PW, Costello P, Kane RA, Clouse ME. Splenic variant simulating suprarenal mass diagnosed with emission computed tomography. *Clin Nuc Med* 1984; 9:646-647
32. Clouse ME, Costello P, O'Leary DH. Removal of intravascular foreign body using modified Grollman catheter and Dormia basket. *J Can Assoc Radiol* 1984; 35:305-307
33. Wilinsky J, Costello P, Clouse ME. Liposarcoma involving the scapula. *Comput Tomogr* 1984:151-153

34. Clouse ME, Harrison DA, Grassi CJ, Costello P, Edwards SA, Wheeler HG. Lymphangiography, ultrasonography, and computed tomography in Hodgkin's disease and non-Hodgkin's lymphoma. *Comput Tomogr* 1985; 9:1-8
35. Costello P, Kane RA, Oster JA, Clouse ME. Focal splenic disease demonstrated by ultrasound and computed tomography. *J Can Assoc Radiol* 1985; 36:22-28
36. Grassi CJ, Costello P. CT demonstration of abdominal wall endometrioma. *Comput Tomogr* 1985; 9:157-159
37. Onik G, Cosman EH, Wells T, Moss AA, Goldberg HI, Costello P. CT body stereotaxic instrument for percutaneous biopsy and other interventional procedures: phantom studies. *Invest Radiol* 1985; 20:525-530
38. Mikulis D, Costello P, Clouse ME. Hepatic hemangioma: atypical features. *AJR* 1985; 145:77-79
39. Costello P, Rose R. CT findings in pleural aspergillosis. *J Comp Tomogr* 1985; 9:760-762
40. Rose RM, Lee R, Costello P. Solitary nodular sarcoidosis. *Clin Radiol* 1985; 36:589-592
41. Onik G, Costello P, Cosman E, Wells T Jr, Goldberg H, Moss A, Kane R, Clouse ME, Hoddick W, Moore S, Demas S. CT body stereotaxis: an aid for CT-guided biopsies. *AJR* 1986; 146:163-168
42. Longmaid HE, Seltzer SE, Costello P, Gordon P. Hepatocellular carcinoma presenting as primary extrahepatic mass on computed tomography. *AJR* 1986; 146:1005-1010
43. Zibrak J, Costello P, Silvestri R, et al. Bronchoscopic and radiographic features of Kaposi's sarcoma involving the respiratory system. *Chest* 1986; 90:476-479
44. Jensen W, Rose RM, Hammer S, Jenkins R, Costello P. Pulmonary complications of liver transplantation. *Transplantation* 1986; 42:484-490
45. Onik G, Cosman E, Wells T, Goldberg H, Moss A, Kane R, Moore S, Stauffer P, Costello P, Hoddick W. CT body stereotaxic system for placement of needle arrays. *Int J Radiation Biol Oncol* 1987; 13:121-128
46. Costello P, Williams CR, Jenkins RW, Jensen WA, Rose RM. The incidence and implications of chest radiographs in abnormalities following orthotopic liver transplantation. *J Can Assoc Radiol* 1987; 38:90-95
47. Costello P, Onik G, Cosman E. Computed tomographic-guided stereotaxic biopsy of thoracic lesions. *J Thoracic Imaging* 1987; 2:27-32.

48. Onik G, Cosman E, Wells T Jr., Goldberg JI, Moss A, Costello P, Kane R, Hoddick W. CT-guided aspirations for the body: comparison of hand guidance with stereotaxis. *Radiology* 1988; 166:389-394
49. Finn JP, Longmaid HE, Edelman RR, Jenkins RL, Qian Z, Costello P, Clouse ME. Portal MR venography: techniques and clinical applications. *Dynamic Cardiovascular Imaging*, August 1990
50. Dupuy D, Costello P, Lewis D, Jenkins R. Abdominal CT findings following liver transplantation in 66 patients. *AJR* 1991; 156:1167-1170
51. Costello P, Anderson WA, Blume D. Pulmonary nodule: Evaluation with spiral volumetric CT. *Radiology* 1991; 179:875-876.
52. Costello P, Ecker C, Tello R, Hartnell GG. Assessment of the thoracic aorta by spiral CT. *AJR* 1992;158:1127-1130
53. Dupuy D, Costello P. Computerized tomography after liver transplantation. *Radiologia Diagnostica* 1992; 33(4):242-247.
54. Longmaid HE, Dupuy D, Kane RA, Foley M, Finn, JP, Costello P. Non-invasive liver imaging: new techniques and practical strategies. *Seminars in Ultra, CT and MR* 1992; 13(5):399-409
55. Dupuy D, Costello P. Cross sectional imaging of liver transplantation. *Seminars in Ultra, CT and MR* 1992; 13(5):377-398
56. Costello P, Dupuy D, Ecker C, Tello R. Spiral CT of the thorax with reduced volume of contrast material: A comparative study. *Radiology* June 1992; 183:663-666.
57. Dupuy D, Costello P, Ecker C. Spiral CT of the pancreas. *Radiology* 1992; 183:815-818.
58. Tello R, Scholz E, Finn JP, Costello P. Subclavian vein thrombosis detected by spiral CT and three dimensional reconstruction. *AJR* 1993; 160:33-34
59. Hartnell GG, Tello R, Costello P. Spiral CT in 3-D reconstruction in determining coronary artery bypass graft patency. *Medica International* 1993; 3:23-26
60. Gaa J, Stehling MK, Costello P. The first clinical experiences with spiral-CT-angiography of the abdomen. (article in German). *Rontgenpraxis* 1993; 46(10):310-312.
61. Tello R, Hill TC, Hartnell GG, Costello P, Stokes KR. Legionella infected thoracic aortic graft: case report. *Computerized Medical Imaging and Graphics* 1993; 17(1):61-67

62. Meier RA, Marianacci EB, Costello P, Fitzpatrick PJ, Hartnell GG. Aneurysms of anomalous right subclavian arteries: Use of 3-dimensional image reconstruction to clarify anatomy. *J Comput Assist Tomogr* 1993; 17 (6):887-890
63. Costello P, Gaa J. Clinical Assessment of an Interventional CT Table: Technical Note. *Radiology* 1993; 189:284-285
64. Costello P, Gaa J. Spiral CT angiography of the abdominal aorta and its branches. *European Radiol* 1993 (3):359-365
65. Tello R, Costello P, Ecker C, Hartnell GG. Spiral CT evaluation of coronary artery bypass graft patency. *J Comput Assist Tomogr* 1993; 17:253-259.
66. Costello P. Spiral CT of the thorax. *Semin US/CT and MR* 1994; 15(2):90-106
67. Gaa J, Costello P. Spiral CT of the thorax. *Applied Radiology* 1994;23(9):37-41.
68. Costello P. Thoracic helical (spiral) CT. *Radiographics* 1994; 14:913-918.
69. Bree RL, Parisky YR, Bernardino ME, Costello P, Leder R, Brown PC. Cost-effective use of low-osmolality contrast media for CT of the liver: Enhancement provided by various doses of iohexol. *AJR* 1994; 163:579-583.
70. Tello R, Suojanen J, Costello P, McGinnis A. Comparison of spiral CT and conventional CT in 3-D visualization of facial trauma: Work in progress. *Computerized Medical Imaging and Graphics* 1994; 18(6):423-427.
71. Eustace S, McEnnif N, Rastegar J, Roizental M, Costello P. Acute HIV polymyositis with complicating myoglobinuric renal failure: CT appearances. *J Comput Assist Tomogr* 1995; 19(2) 321-323.
72. Costello P, Gaa J. Spiral CT angiography of abdominal aortic aneurysms. *Radiographics* 1995; 15:397-406.
73. Costello P, Eustace S. Spiral computed tomography of the abdominal aorta and its branches. *Postgraduate Radiology* 1995; 15(1):34-42.
74. Zeman RK, Silverman PM, Vleco PT, Costello P. CT angiography. *AJR* 1995; 165:1079-1088.
75. Beard C, Kijewski P, Bussiere M, Gelman R, Galdstone D, Shaffer K, Plunkett M, Costello P, Coleman CN. Analysis of prostate and seminal vesicle motion: implications for treatment planning. *International Journal of Radiation Oncology Biology Physics*. 1996; 34(2): 451-458.
76. Tello R, Kruskal J, Dupuy D, Costello P. In vivo three-dimensional evaluation of the tracheobronchial tree. *Journal of Thoracic Imaging* 1995; 10(4):291-293.

77. Touliopoulos P, Costello P. Helical (spiral) CT of the thorax. *Radiologic Clinics of North America* 1995; 33(5):843-861.
78. Tello R, Jenkins R, McGinnis A, Costello P, Lewis WD. Biliary tree necrosis in transplanted liver detected by spiral CT with three-dimensional reconstruction. *Clinical Imaging* 1996; 20:8-11.
79. LoCicero J, Costello P, Campos CT, Francalancia N, Dushay KM, Silvestri RC, Zibrak JD. Spiral CT with multiplanar and 3-D reconstructions accurately predicts tracheobronchial pathology. Running Title: Spiral CT for tracheobronchial pathology. *Ann Thoracic Surgery* 1996; 62: 811-817.
80. Gates J, Hartnell GG, Costello P, Clouse ME. The Adrenal Gland: An Overview. *Postgraduate Radiology* 1997. Vol 17: 63-80.
81. Tello R, Hoffman C, Ecker C, Costello P, Hartnell GG. Assessment of coronary artery bypass graft longevity with spiral computed tomography. *Asian Oceanian J of Radiology* 1997; 2(2):85-88.
82. Estes JM, Quist WC, Logerfo FW, Costello P. Noninvasive characterization of plaque morphology using helical computed tomography. *J Cardiovasc Surg* 1998; 39(5):527-534.
83. Costello P, Petrucco M. Chest radiographic findings following video-assisted thorascopic lung volume reduction for emphysema. *Australasian Radiology* 1999. Vol 43: 7-11.
84. Verhoek G, Costello, P, Khoo EW, Wu R, Kat E, Fitridge RA. Carotid bifurcation CT angiography: assessment of interactive volume rendering. *J Comput Assist Tomogr* 1999; 23(4):590-596.
85. Holbert JM, Costello P, Federle MP. Role of spiral computed tomography in the diagnosis of pulmonary embolism in the emergency department. *Annals Emerg Med* 1999; 33(5):520-528.
86. Towers JD, Holbert JM, Britton CA, Costello P, Sciulli R, Gur D. Multipoint rank order study methodology: Observer issues. *Invest Radiol* 2000; 35(2):125-130.
87. Vilchez RA, Linden P, Lacomis J, Costello P, Fung J, Kusne S. Acute respiratory failure associated with pulmonary cryptococcosis in non-AIDS patients. *Chest* 2001; 119(6):1865-1869.
88. Lacomis JM, Costello P, Vilchez R, Kusne S. The radiology of pulmonary cryptococcosis in a tertiary medical center. *J Thorac Imag* 2001; 16(3):139-148.
89. Holbert JM, Costello P, Li W, Hoffman RM, Rogers RM. CT features of pulmonary alveolar proteinosis. *AJR* 2001; 176:1287-1294.

90. Vilchez RA, Irish W, Lacomis J, Costello P, Fung J, Kusne S. The clinical epidemiology of pulmonary cryptococcosis in non-AIDS patients at a tertiary care medical center. *Medicine* 2001; 80:308-312.
91. Hunsaker AR, Ingenito EP, Reilly JJ, Costello P. Lung volume reduction surgery for emphysema: Correlation of CT and V/Q scanning with physiological mechanisms of improvement in lung function. *Radiology* 2002; 222:491-498.
92. Tello R, Hartnell GC, Costello P, Ecker CP. Coronary artery bypass graft flow: quantitative evaluation with cine single-detector row CT and comparison with findings at angiography. *Radiology* 2002; 224:913-918.
93. Tooker AC, Hong KS, McKinstry EL, Costello P, Jolesz FA, Albert MS. Distal airways in humans: Dynamic hyperpolarized ³He MR imaging — Feasibility. *Radiology* 2003; 227:575-579.
94. Duran-Mendicuti A, Costello P, Vargas SO. Primary synovial sarcoma of the chest: Radiographic and clinicopathologic correlation. *J Thorac Imaging* 2003; 18(2):87-93.
95. Schoepf UJ, Costello P. CT angiography for diagnosis of pulmonary embolism: State of the art. *Radiology* 2004; 230(2):329-337.
96. Hofmann LK, Zou KH, Costello P, Schoepf UJ. Electrocardiographically gated 16-section CT of the thorax: cardiac motion suppression. *Radiology* 2004; 233:927-933.
97. Schoepf UJ, Goldhaber SZ, Costello P. Spiral computed tomography for acute pulmonary embolism. *Circulation* 2004; 109:2401-2404.
98. Lauffer L, Kini JA, Costello P, Godleski J. Granulomatous *Pneumocystis carinii* pneumonia in a Non-AIDS patient: An atypical presentation. *J Thorac Imaging* 2004; 19:196-199.
99. Quiroz R, Kucher N, Schoepf UJ, Kipfmueller F, Solomon SD, Costello P, Goldhaber SZ. Right ventricular enlargement on chest computed tomography: prognostic role in acute pulmonary embolism. —*Brief Rapid Communication*— *Circulation* 2004; 109:2401-2404.
100. Ryu DS, Spirn PW, Trotman-Dickenson B, Hunsaker A, Jung SM, Park MS, Jung BH, Costello P. HRCT findings of proximal interruption of the right pulmonary artery. *J Thorac Imag* 2004; 19:171-175.
101. Ryu DS, Cheema JIS, Costello P. Fibrosing mediastinitis with peripheral airway dilatation and central pulmonary arterial occlusion. *J Thorac Imag* 2004; 19:204-206.
102. Hofmann LK, Zou KH, Costello P, Schoepf UJ. Electrographically gated 16-section CT of the thorax: Cardiac motion suppression. *Radiology* 2004; 233:927-933.

103. Schoepf UJ, Kucher N, Kipfmueller F, Quiroz R, Costello P, Goldhaber SZ. Right ventricular enlargement on chest computed tomography: A predictor of early death in acute pulmonary embolism. *Circulation* 2004; 110:3276-3280.
104. Schoepf UJ, Costello PC. Spiral computed tomography is the first-line chest imaging test for acute pulmonary embolism: yes. *J Thromb Haemost* 2004; 2: 1-4. *J Thromb Haemost* 2004 ; DOI: 10.1111/j.1538-7836.2004.01142.x
J Thromb Haemost 2005; 3:7-10
105. Peldschus K, Herzog P, Wood SA, Cheema JI, Costello P, Schoepf UJ. Computed aided diagnosis as a second reader: Spectrum of findings in CT studies of the chest interpreted as normal. *Chest* 2005; 128:1517-1523.
106. Ravenel JG, Costello P, Schoepf UJ, Eng J, Segal JB. CT in the diagnosis of pulmonary embolism. *AJR Am J Roentgenol* 2005; 184:1707-1708.
107. Kipfmueller F, Quiroz R, Goldhaber SZ, Schoepf UJ, Costello P, Kucher N. Chest CT assessment following thrombolysis or surgical embolectomy for acute pulmonary embolism. *Vascular Medicine* 2005; 10(2):85-89.
108. Williams B, Mulvihill DM, Pettus BJ, Brothers R, Costello P, Schoepf UJ. Pediatric superior vena cava syndrome: Assessment at low radiation dose 64-slice CT angiography. Case Report. *J Thorac Imaging* 2006; 21(1):71-72.
109. Savino G, Herzog C, Costello P, Schoepf UJ. 64 slice cardiovascular CT in the Emergency Department: concepts and first experiences. *Radiol Med (Torino)*, 2006; (on line 29 May) June 111(4):481-496.
110. Zangos S, Herzog C, Eichler K, Hammerstingl R, Lukoscsek A, Guthmann S, Gutmann B, Schoepf UJ, Costello P, Vogl TJ. MR-compatible assistance system for function in a high-field system: device and feasibility of transgluteal biopsies of the prostate gland. *Eur Radiol* 2007; April 17. DOI 10.1007/s00330-006-0421-0. Springer-Verlag 2006.
111. Zangos S, Steenburg SD, Phillips KD, Kerl M, Nguyen SA, Herzog C, Schoepf UJ, Vogl TJ, Costello C. Acute abdomen: Added diagnostic value of coronal reformations with 64-slice multidetector row computed tomography. *Acad Radiol* 2007; 14:19-27.
112. Kini S, Lake DR, Kavanagh JJ, Ravenel JG, Schoepf UJ, Costello P, Pope T. Diagnosing pulmonary embolism. *Emergency Medicine* 2007; 39(2):25-32.
113. Herzog C, Zwerner PL, Doll J, Nielsen CD, Nguyen SA, Savino G, Vogl TJ, Costello P, Schoepf UJ. Significant coronary artery stenosis: comparison of per-patient and per-vessel or per-segment basis at 64-slice CT angiography: *Radiology* 2007; 244:112-120.
114. Schoepf UJ, Zwerner PL, Savino G, Herzog C, Kerl JM, Costello P. How We Do It: Coronary CT angiography. *Radiology* 2007; 244(1):48-63.

115. Schoepf UJ, Schneider AC, Das M, Wood SA, Cheema JI, Costello P. Pulmonary embolism: Computer aided detection at multidetector-row spiral CT. *J Thorac Imag* 2007; 22(4):319-323.
116. Herzog C , Nguyen SA , Savino G, Zwerner PL, Doll J, Nielsen CD, Flohr TG, Vogl TJ, Costello P, Schoepf UJ. Does two-segment image reconstruction at 64-section CT coronary angiography improve image quality and diagnostic accuracy. *Radiology* 2007; 244(1):121-129; (10.1148/radiol.2441060004).
117. Schoepf UJ, Schneider AC, Das M, Wood SA, Cheema JI, Costello P. Pulmonary embolism: Computer-aided detection at multidetector row spiral computed tomography. *J Thorac Imaging* 2007; 22:319-323.
118. Ruzsics B, Lee H, Powers ER, Flohr TR, Costello P, Schoepf UJ. Images in cardiovascular medicine. Myocardial ischemia diagnosed by dual-energy computed tomography: correlation with single photon emission computed tomography. *Circulation* 2008; 117:1244-1245.
119. Kerl JM, Nguyen SA, Lazarchick J, Powell JW, Oswald MW, Alvi F, Costello P, Vogl TJ, Schoepf UJ. Iodinated contrast media: effect of osmolarity and injection temperature on erythrocyte morphology in vitro. *Acta Radiol* 2008; 49:337-343.
120. Kerl JM, Ravenel JG, Nguyen SA, Suranyi P, Thilo C, Costello P, Bautz W, Schoepf UJ. Right heart: split bolus injection of diluted contrast medium for visualization of coronary CT angiography. *Radiology* 2008; (in press).
121. Nguyen SA, Suranyi P, Ravenel JG, Randall PK, Romano PB, Strom KA, Costello P, Schoepf UJ. Iso-Osmolality versus Low-Osmolality Iodinated Contrast Medium at Intravenous Contrast-enhanced CT: Effect on Kidney Function. *Radiology* 2008; May 15. [Epub ahead of print]; 248(1):97-105.
122. Herzog C, Mulvihill DM, Nguyen SA, Savino G, Schmidt B, Costello P, Vogl TJ, Schoepf UJ. Pediatric cardiovascular CT angiography: radiation dose reduction using automatic anatomic tube current modulation. *AJR* 2008; 190(5):1232-40.
123. Schwarz F, Ruzsics B, Schoepf UJ, Bastarrrika G, Chiaramida SA, Abro JA, Brothers RL, Schmidt B, Costello P, Zwerner PL. Dual energy CT of the heart—principles and protocols. *Eur J Radiol* 2008; 68(3):423-33.
124. Ruzsics B, Lee H , Zwerner PL, Gebregziabher M, Costello P, Schoepf UJ. Dual energy CT of the heart for diagnosing coronary artery stenosis and myocardial ischemia-initial experience. *Eur Radiol* 2008; 18(11):2414-24. Epub 2008 June 4.
125. Lee H, Ruzsics B, Schoepf UJ, Steward EA, Costello P, Glenn JL, Ikonomidis JS. New-onset heart failure caused by spontaneous papillary muscle rupture: Diagnosis with dual-source computed tomographic coronary angiography. *J Thorac Cardiovasc Surg* 2009; 137 (1):e19-21.

126. Aho MR, Gebregziabher M, Schoepf UJ, Suranyi P, Lee H, Gregg D, Costello P, Zwerner PL. Impact of right ventricular contrast attenuation on the accuracy of right ventricular function analysis at cardiac multi-detector-row CT. *Eur J Radiol* 2009 (Jan 21); doi:10.1016/j.ejrad.2008.12.011.
127. Ruzsics B, Gebregziabher M, Lee H, Brothers RL, Allmendinger T, Vogt S, Costello P, Schoepf J. Coronary CT angiography: automatic cardiac-phase selection for image reconstruction. *Eur Radiol* 2009; Mar 11. [Epub ahead of print]; doi 10.1007/s003300-009-1368-8.
128. Enrico B, Suranyi P, Thilo C, Bonomo L, Costello P, Schoepf UJ. Coronary artery plaque formation at coronary CT angiography: morphological analysis and relationship to hemodynamics. *Eur Radiol* 2009; Apr 19(4):837-44. Epub 2008 May 7.
129. Thilo C, Schoepf UJ, Gordon L, Chiaramida S, Serguson J, Costello P. Integrated assessment of coronary anatomy and myocardial perfusion using a retractable SPECT camera combined with 64-slice CT: initial experience. *Eur Radiol* 2009; 19(4):845-856. Epub 2008.
130. Bastarrika G, Thilo C, Headden G; Zwerner P, Costello P, Schoepf UJ. Cardiac CT in the assessment of acute chest pain in the emergency department. *AJR* 2009; 193:307-409.
131. Blackmon K, Streck J, Thilo C, Bastarrika G, Costello P, Schoepf UJ. Reproducibility of automated noncalcified coronary artery plaque burden assessment at coronary CT angiography. *J Thorac Imag* 2009; 24(2):96-102.
132. Bastarrika G, Brabham WW, O'Brien TX, Costello P, Schoepf UJ. Dual-source computed tomography assessment of malfunctioning mechanical prosthetic valve. *Ann Thorac Surg.* 2009 May;87(5):e50.
133. Blackmon KN, Steck J, Thilo C, Bastarrika G, Costello P, Schoepf UJ. Reproducibility of automated noncalcified coronary artery plaque burden assessment at coronary CT angiography. *J Thorac Imag* 2009; 24(2):96-102.
134. Thilo C, Gebregziabher M, Mayer FB, Zwerner PL, Costello P, Schoepf UJ. Correlation of regional distribution and morphological pattern of calcification at CT coronary artery calcium scoring with non-calcified plaque formation and stenosis. *Eur Radiol* 2010; 20(4):855-61; 2009; Oct. 28 (Epub ahead of print);
135. Bauer RW, Thilo C, Chiaramida SA, Vogl TJ, Costello P, Schoepf UJ. Non-calcified atherosclerotic plaque burden at coronary CT angiography: a better predictor of ischemia at stress myocardial perfusion imaging than calcium score and stenosis severity. *AJR* 2009; 193(2):410-418.
136. Ruzsics B, Schwarz F, Schoepf UJ, Lee YS, Bastarrika G, Chiaramida SA, Costello P, Zwerner PL. Comparison of dual energy computed tomography of the heart with single

- photon emission computed tomography for assessment for coronary artery stenosis and of the myocardial blood supply. *Am J Cardiol* 2009;104(3):318-326. Epub 2009; June 6.
137. Arnoldi E, Gebregziabher M, Schoepf UJ, Goldenberg R, Ramos-Duran L, Zwerner PL, Nikolaou K, Reiser MF, Costello P, Thilo C. Automated computer-aided stenosis detection at coronary CT angiography: initial experience. *Eur Radiol*. 2010 May;20(5):1160-7. Epub 2009 Nov 5.
 138. Kerl JM, Schoepf UJ, Vogl, TJ, Ackerman H, Vogt S, Costello P, Herzog C. In vitro evaluation of metallic coronary artery stents with 64-MDCT using an ECG-gated cardiac phantom: relationship between in-stent visualization, stent type, and heart rate. *AJR* 2010; 194(3):W256-262.
 139. Bastarrika G, Broncano J, Schoepf UJ, Schwarz F, Le YS, Abro JA, Costello P, Zwerner PL. Relationship between coronary artery disease and epicardial adipose tissue quantification at cardiac CT: Comparison between automatic volumetric measurement and manual bidimensional estimation. *Acad Radiol* 2010; 17(6) June:727-734
 140. Arnoldi E, Ramos-Duran L, Abro JA, Zwerner PL, Nikolaou K, Reiser MF, Costello P, Schoepf UJ. Coronary CT angiography using prospective ECG triggering: High diagnostic accuracy with low radiation dose. *Radiologe*. 2010 Apr 14. 50(6):500-506.
 141. Henzler T, Barraza JM Jr, Nance JW Jr, Costello P, Krissak R, Fink C, Schoepf UJ. CT imaging of acute pulmonary embolism. *J Cardiovasc Comput Tomogr*. 2010 Oct 29. [Epub ahead of print]
 - 142: Kerl JM, Joseph Schoepf, Bauer RW, Tekin T, Costello P, Vogl TJ, Herzog C. 64-Slice Multidetector-row Computed Tomography in the Diagnosis of Coronary Artery Disease: Interobserver Agreement Among Radiologists With Varied Levels of Experience on a Per-patient and Per-segment Basis. *J Thorac Imaging*. 2010 Nov 19. [Epub ahead of print]

REVIEWS AND EDUCATIONALLY RELEVANT PUBLICATIONS

1. Hartnell GG, Costello P. The Diagnosis of Thoracic Aortic Dissection by Noninvasive Imaging Procedures. *New Engl J Med* 1993; 328(12):1637
2. Questions and Answers: Costello P. What is the Optimal Pitch on Spiral CT for Evaluation of Aortic Pulmonary Embolic Disease? *AJR* 1995; 165 9 (Sept): 1-2.
3. Costello P. Chest Lymphoma. Syllabus: A Categorical Course in Diagnostic Radiology. *Chest Radiology*. Published by the Radiological Society of North America. Greene R (ed). 78th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov.-Dec. 1992

4. Costello P. Spiral CT of the thorax. Syllabus: A Categorical Course in Body CT. Published by the American Roentgen Ray Society. Fishman EK, Federle MP (eds). 94th Annual Meeting, ARRS, New Orleans, LA - April 1994.
5. DiPiro PJ, Costello P. Imaging of Thoracic Lymphoma. Contemporary Diagnostic Radiology 2000; 23:1-6.
6. Costello P, Gupta KB. CT Angiography Gains Acceptance in Diagnosis of Pulmonary Emboli. Diagnostic Imaging 2000; 22(12):43-45, 49, 87.
7. Farag A, Costello P. CT of Pulmonary Thromboembolic Disease. Applied Radiology 2001; 30(2):22-26.
8. Costello P, Gupta KB. Pulmonary embolism: Imaging modalities – V/Q scan, spiral (helical) CT, and MRI. In: Bounameaux H, Goldhaber SZ (ed). Seminars in Vascular Medicine. Thieme Medical Publishers, Inc.; 2001:1(2):155-163.
9. Cheema JIS, Costello P. Unusual Tumors of the Mediastinum and Pleura. Syllabus: Oncologic Imaging – Categorical Course Syllabus. Published by the American Roentgen Ray Society. Fielding JR, Castillo M (eds). 103rd Annual Meeting, ARRS, San Diego, CA – May 4-9, 2003.
10. Costello P. Guest Editor. Letter. (Collins J, Editor). Multidetector Row CT of the Chest. Semin Roentgenol 2003; 38(2):105.
11. Schoepf UJ, Costello P. Multidetector Row CT of Pulmonary Embolism. Semin Roentgenol 2003; 38(2):106-114
12. Costello P. Controversial Aspects of Staging Lung Cancer by CT and MR. In: Ros PR, Kakizoe T, Itai Y, Moriyama, eds. Innovative Achievements in Cancer Imaging. Extended abstracts for the 33rd International Symposium of the Princess Takamatsu Cancer Research Fund, Tokyo, Japan, 2002. pp. 20-22.
13. Schoepf UJ, Costello P. Isolated Subsegmental Pulmonary Embolus Diagnosed by Multidetector-Row CT. Images in Cardiovascular Medicine. Online Only image. Circulation 2004; 109(19):e220-1.
14. Schoepf UJ, Goldhaber SZ, Costello P. Spiral computed tomography for acute pulmonary embolism. Review: Current perspective. Circulation 2004; 109:2160-2167.
15. Schoepf UJ, Costello P. CT angiography for diagnosis of pulmonary embolism: state of the art. Review. Radiology. 2004; 230:329-37.
16. Schoepf UJ, Costello P. Debate. Spiral computed tomography is the first-line chest imaging test for acute pulmonary embolism: yes. J Thromb Haemost 2005; 3:7-10.

17. Quiroz R, Kucher N, Zou KH, Kipfmueller F, Costello P, Goldhaber SZ, Schoepf UJ. Clinical validity of a negative computed tomography scan in patients with suspected pulmonary embolism. A systematic review. *JAMA* 2005; 293 (16):2012-2017.
18. Ravenel JG, Costello P, Schoepf UJ. CT in the diagnosis of pulmonary embolism (letter). *AJR* 2005; 184:1707-1708.
19. Schoepf UJ, Savino G, Lake DR, Ravenel JG, Costello JG. The age of CT pulmonary angiography. *J Thorac Imaging* 2005; 20(4):273-279.
20. Lake DR, Kavanagh JJ, Ravenel JG, Schoepf UJ, Costello P. Computed tomography and pulmonary embolus: A review. *Semin Ultrasound CT MR*. 2005; 26(5):270-280.
21. Auler MA, Heagy T, Aganovic L, Brothers R, Costello P, Schoepf UJ. Saline chasing technique with dual-syringe injector systems for multi-detector row computed tomographic angiography: Rationale, indications, and protocols. *Curr Probl Diagn Radiol* 2006; 35:1-11.\
22. Costello P. Contrast considerations with cardiac computed tomography. *J Invas Cardiol* 18 (supplement A) February 2006: 16A-17A.
23. Schoepf UJ, Zwerner PL, Costello P. Update on Cardiac CT. *Cath Lab Digest*. 2006; April (supplement): 12-29.
24. Kerl J, Hoffmann LK, Thilo C, Vogl TJ, Costello P, Schoepf UJ. Coronary CTA: Image Acquisition and Interpretation. Symposium. *J Thorac Imag* 2007; 22(1):22-34.
25. Thilo C, Auler M, Zwerner P, Costello P, Schoepf UJ. Coronary CTA: Indications, Patient Selection, and Clinical Implications. Symposium *J Thorac Imag* 2007; 22(1)35-39.
26. Herzog C, Zangos S, Zwerner P, Costello P, Vogl TJ, Schoepf UJ. CT of coronary artery disease. Symposium. *J Thorac Imag* 2007; 22(1) 40-48
27. Savino G, Zwerner P, Herzog C, Politi M, Bonomo L, Costello P, Schoepf UJ. CT of cardiac function. Symposium. *J Thorac Imag* 2007; 22(1) 86-100.
28. Zangos S, Eichler K, Thalhammer A, Schoepf JU, Costello P, Herzog C, Mack MG, Vogl TJ. MR-guided interventions of the prostate gland. *Minim Invasive Ther Allied Technol* 2007; 16(4)222-9.
29. Schoepf UJ, Suranyi P, Thilo C, Costello P, Zwerner PL. Replacing diagnostic catheterization with coronary CT angiography: the final frontier. *Eur Heart J* (Editorial) 2007; 28:2305-2306.
30. Ravenel JG, Costello P, Silvestri GA. Screening for lung cancer. *AJR* 2008; 190:755-761.

31. Schoepf UJ, Thilo C, Fernandez MJ, Costello P. CT coronary angiography: indications, image acquisition, and interpretation. *Radiologia* 2008; 50:113-30.
32. Costello P. Pulmonary embolism. Syllabus: State-of-the-Art Emergency and Trauma Radiology – Categorical Course Syllabus. Published by the American Roentgen Ray Society. Nunez DB, Ledbetter MS, Soto JA, Yu JS (eds). 108th Annual Meeting ARRS, Washington, DC – April 13-18, 2008
33. Bastarrika G, Blackmon KN, Ravenel JG, Costello P, Schoepf UJ. Review Article. The diagnostic value of computer-aided detection at multidetector-row spiral computed tomography for pulmonary embolism. *Clin Pulm Med* 2009; 16(2): 101-105.
34. Bastarrika G, Lee YS, Huda, Ruzsics B, Costello P, Schoepf UJ. CT of coronary artery disease. *Radiology* 2009; 253(2):317-338.

BOOKS AND BOOK CHAPTERS

1. Costello P, Wheelock FC, Hoar C. Arteriography. In: Kozak G (ed). Management of Diabetic Foot Problems. Philadelphia: WB Saunders, 1983, pp 122-131
2. Bailey H, Jensen H, Costello P. Radiology of the Diabetic Foot. In: Kozak G, (ed). Management of Diabetic Foot Problems. Philadelphia: WB Saunders, 1984, pp 79-90.
3. Costello P. Lymphoma of the Mediastinum and Lung. In: Taveras and Ferrucci (eds). Radiology: Diagnosis-Imaging-Intervention. Philadelphia, PA, J.B. Lippincott, 1994; 77:1-13.
4. Rubin GD, Costello P. Three Dimensional Spiral CT Angiography. In: Taveras and Ferrucci (eds). Radiology: Diagnosis-Imaging-Intervention. Philadelphia, PA, J.B. Lippincott, 1994; 152:1-15.
5. Costello P, Logerfo F. Spiral Computed Tomographic Angiography of the Abdominal Aorta. In: Yao JST, Pearce WH (ed). Aneurysms: New Findings and Treatment. Norwalk, CT, Appleton and Lang 1994, pp. 105-113
6. Costello P. Thoracic Imaging with Spiral CT. In: Fishman EK, Jeffrey JB (eds). Spiral CT Principles: Techniques and Clinical Application. Raven Press 1994, pp. 100-130
7. Zeman RK, Brink JA, Costello P, et al (eds). Spiral CT of the Thorax. Chapter 3. Helical/Spiral CT: A Practical Approach New York, McGraw-Hill, Inc. 1994, pp. 105-152.
8. Costello P. Spiral CT of the Thoracic Aorta and Its Branches. In: Remy-Jardin M (ed). Spiral CT of the Chest. Springer. 1996. pp 283-303

9. Costello P. Helical (Spiral) CT Scanning of the Thorax. In: Freundlich IM, Bragg D (eds). Section III, Chapter 41. A Radiological Approach to Diseases of the Chest. 2nd edition. Williams & Wilkins, pp 763-787.
10. Costello P, Naidich D. Protocols for Helical CT of the Chest. Chapter 3. In: Silverman P (ed) Helical (Spiral) Computed Tomography: A Practical Approach to Clinical Protocols. Lippincott-Raven 1998. pp. 65-101.
11. Costello P, Khoo E.W. Interactive 3D Volume Rendering – Vascular Applications. In: Krestin GP, Glazer GM (eds). Chapter 26. Advances in CT IV. Springer 1998, pp. 212-224.
12. Schoepf UJ, Martensen JM, Costello P. Multidetector-Row CT Angiography of the Pulmonary Circulation. Chapter 17. In: Schoepf UJ (ed). Multidetector-Row CT of the Thorax. Springer-Verlag Berlin Heidelberg 2004, pp.239-257.
13. Kavanagh JJ, Lake DR, Costello P. PE Imaging with MDCT. In Saini S (ed). MDCT: A Practical Approach. Chapter III.3. Springer-Verlag Milan 2006.
14. Kavanagh JJ, Lake DR, Costello P. Pulmonary Embolism Imaging with MDCT. In Kalra MK, Saini S, Rubin GD (eds.). MDCT: From Protocols to Practice. Chapter 18. Springer 2008, pp236-249.

EDUCATIONAL MATERIAL – TEACHING EXHIBITS (Posters)

- | | |
|------|---|
| 1991 | “Spiral CT of the Thorax with Small Volumes of Contrast Material: A Comparative Study”. 77th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov.-Dec. |
| 1991 | “Comparative Study of Spiral CT and Conventional CT of the Pancreas”. 77th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov-Dec |
| 1992 | "Evaluation of the Tracheobronchial Tree with Spiral CT." 78th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov.-Dec. |
| 1993 | “Spiral CT of the Tracheobronchial Tree”. American Roentgen Ray Society, San Francisco, CA - April. |
| 1993 | "Use of Spiral CT in the Assessment of Cardiac Structures for Planning 3D Volumetric Radiation Treatment of the Breast". 79th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov.-Dec. |
| 1993 | "Spiral CT Angiography of the Abdominal Aorta and its Branches". 79th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov.-Dec. |

- 1993 "Three-dimensional Visualization of Facial Volumetric-Spiral CT". 79th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov.-Dec.
- 1993 "Optimization of Contrast Material Use for Thoracic-Spiral CT". 79th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov.-Dec.
- 1994 "Spiral CT Angiography of the Abdominal Aorta and its Main Branches". 94th Annual Meeting, ARRS, American Roentgen Ray Society, New Orleans, LA -April
- 1994 "Three Dimensional Visualization with Spiral CT in the Thorax: A Demonstration of Technology". 94th Annual Meeting, American Roentgen Ray Society, New Orleans, LA - April
- 1994 "Contrast Optimization for Thoracic Spiral CT". Annual Meeting of the Association of University Radiologists, Boston, MA - May
- 1994 "Three Dimensional Visualization of Facial Trauma with Volumetric CT". Annual Meeting of the Association of University Radiologists, Boston, MA - May
- 1994 "Spiral CT of Peridiaphragmatic Abnormalities". 80th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov-Dec
- 1994 "Spiral CT Applications in Neuroradiology". 80th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov-Dec
- 1995 "Chemoembolized Hepatoma: Correlation of CT Findings with Clinical Course". Annual Meeting, American Roentgen Ray Society, Washington, D.C. - April 30 - May 5
- 1995 "Everything Adrenal". Annual Meeting, American Roentgen Ray Society, Washington, D.C. - April 30 - May 5
- 1996 "Spiral CT with Multiplanar and 3-D Reformations Accurately Predicts Tracheobronchial Pathology". Annual Meeting, The Society of Thoracic Surgeons, Orlando, FL - January 29-31.
- 1997 "Interactive Three Dimensional Volume Rendering of Spiral CT Data: Current Applications". The Royal Australasian College of Radiologists 48th Annual General and Scientific Meeting, Adelaide, South Australia 12-15 September 1997.
- 1997 "Chest Radiographic Findings Following Lung Volume Reduction Surgery". The Royal Australasian College of Radiologists 48th Annual General and Scientific Meeting, Adelaide, South Australia, 12-15 September 1997.
- 1999 "CT Features of Pulmonary Alveolar Proteinosis: Patterns and Distributions of Disease. Holbert JM, Costello P. 85th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov-Dec 1999

- 2000 "Multi-Detector Spiral CT: Thoracic Applications". Costello P, Jacobson FL, Judy PF. 86th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov-Dec 2000.
- 2000 "Combined PET-CT imaging for the assessment of metastatic melanoma: Preliminary experience at the University of Pittsburgh". Lacomis JM, Costello P, Townsend DW, Ferris JV, Kirkwood JM, Meltzer CC. 86th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov-Dec 2000.
- 2001 "Small Opacities on Low Dose CT for Lung Cancer Screening". Jacobson FL, Costello P, Hunsaker AR, Judy PF. (1034CH-e). 87th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - November 2001.
- 2004 "Saline Chasing Technique with Dual-Syringe Injector Systems for Multi-Detector Row CT Angiography: Rationale, Indications, and Protocols". Aganovic L, Dudek S, Waldstein P, Williams B, Costello P, Schoepf UJ. 90th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL – November-December 2004.
- 2005 "Dual flow contrast injection for coronary CTA improves visualization of the right heart". Jensen CT, Ravenel JG, Nguyen SA, Costello P, Schoepf UJ. Dual flow contrast injection for coronary CTA improves visualization of the right heart. 33rd Annual Meeting and Scientific Sessions of the American Society for Cardiac Imaging (NASCI) (P09). Amelia Island, FL. October 8-11, 2005.
- 2005 "Rapid Assessment of cardiac function at 64-slice CT: Optimized parameters and clinical validity". Savino G, Doll J, Nguyen SA, Herzog C, Zwerner PL, Costello P, Schoepf UJ. 33rd Annual Meeting and Scientific Sessions of the American Society for Cardiac Imaging (NASCI) (P10). Amelia Island, FL. October 8-11, 2005.
- 2005 "CT of the heart: Improved stenosis detection and robustness of use with 64-slice CT". Burch SR, Streck J, Savino G, Ravenel JG, Nguyen SA, Gant PA, Herzog C, Costello P, Schoepf UJ. 33rd Annual Meeting and Scientific Sessions of the American Society for Cardiac Imaging (NASCI) (P14). Amelia Island, FL. October 8-11, 2005.
- 2005 "Accuracy of 64 Slice CT for Evaluation of Coronary Artery Suitability for Coronary Bypass Surgery". Zwerner P, Herzog C, Doll J, Nielsen C, Schoepf UJ. 33rd Annual Meeting and Scientific Sessions of the American Society for Cardiac Imaging (NASCI) (P14). Amelia Island, FL. October 8-11, 2005.
- 2005 "64-Slice CT Angiography Compared to Invasive Angiography for Detection of and Exclusion of Significant Coronary Artery Stenosis". Doll J, Herzog C, Zwerner P, Nielsen C, Costello P. American Heart Association Scientific Session. Dallas, TX. November 13-15, 2005.
- 2006 Thilo C, Costello P, Schoepf UJ. Coronary artery anomalies at 64-slice coronary CT angiography. LL-CA4639. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov.-Dec. 2006.
- 2007 Lee H, Suranyi P, Enrico B, Brothers R, Costello P, Schoepf UJ. Dual-Source Coronary CT Angiography: How We Do It. LL-CA2554 Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov 25-30. 2007.

- 2008 Gassner EM, Gebreziabher M, Lee YS, Abro JA, Costello P, Schoepf UJ. Dynamic visualization of the pulmonary valve at cardiac CT. LL-CA4709. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov 30-Dec 5. 2008.
- 2009 Gassner E, Lee Y-S, Abro J, Jaschke W, Costello P, Schoepf UJ. Dynamic visualization of the pulmonary valve at cardiac CT. (C151) . European Congress of Radiology. Vienna, Austria. March 6-10, 2009.
- 2009 Bisset GS, Beauchamp NJ, Berquist TH, Buckwalter KA, Costello P, John SD, Kruskal JB, Morgan DE, Tarver RD, Taylor GA, Yuh WT. Image Interpretation Session Exhibit. LL-EE0015. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL. Nov 29-Dec 4. 2009.
- 2009 Rowlett WT, Schoepf UJ, Abro JA, Costello P, Huda W. Cancer risk from radiation at cardiac CT: Facts and fiction. LL-CA2668. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov 29-Dec 4. 2009.
- 2010 Barraza JM, Schoepf UJ, Thilo C, Ravenel J, Costello P, Kang DK. Reproducibility of CT signs of right ventricular dysfunction in acute pulmonary embolism. LL-CHS-TU1A Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov 28-Dec 3. 2010. (poster)
- 2010 Nance J, Ramos-Duran L, Barraza JM, Costello, Kratz J, Schoepf UJ. Indications, Complications, and Imaging Findings of Left Ventricular Apico-Aortic Conduits. LL-CAE2058. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov 28-Dec 3. 2010. (educational exhibit)
- 2010 Weininger M, Schoepf UJ, Ramos-Duran L, Costello P, Zou K. Contrast-induced Nephropathy: Does It Matter for Computed Tomography? A Systematic Review. LL-GUS-TU1A. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov 28-Dec 3. 2010. (poster)

SCIENTIFIC ABSTRACTS:

- A1 "Angiographic Demonstration and Treatment of Gastrointestinal Bleeding", Canadian Association of Radiologists' Meeting, Toronto, Canada - May 1975

- A2 "Gastric Motility Disorders", Gramm HF, Costello P., Canadian Association of Radiologists Meeting, Quebec City -June 1976
- A3 "Subselective Angiography in the Diagnosis of Insulinomas", Canadian Association of Radiologists Meeting, Quebec City - June 1976
- A4 "Early Clinical Experience with a Radioisotope Computerized Emission Tomographic Brain Imager System", Hill TC, Costello P, Gramm HF, McNeil B. Radiological Society of North America, Chicago, IL - November 1977
- A5 "Problems in the Diagnosis of Adrenal Tumors", Costello P, Clouse ME. Canadian Association of Radiologists, Toronto, Canada - April 1978
- A6 "Preliminary Observation on the Clinical Value of Emission Computed Tomography ", Hill TC, Costello P, McNeil BJ, Society of Nuclear Medicine 25th Annual Meeting - June 1978
- A7 "Transbrachial Hepatic Arterial Catheterizations for Chemotherapy Infusion", Costello P, Clouse ME. Canadian Association of Radiologists, Montreal, Canada - May 1980
- A8 "CT of Nodal Enlargement in Hodgkin's Disease, NHL and Pancreatic Carcinoma", presented, Radiological Society of North America, Chicago, Il - November 1982
- A9 "Peripheral Hepatic Artery Embolization for Primary and Secondary Hepatic Neoplasms", presented, Radiological Society of North America, Chicago, Il - November 1982
- A10 "Cardiopulmonary Function Following Post-operative Mediastinitis", Grigas D, Bor D, Kosinski E, Costello P, Rose R. American Thoracic Society 1982
- A11 "Percutaneous Transhepatic Intervention of Transduodenal Removal of Bile Duct Stones". Clouse ME. Costello P, Stokes KR. Radiological Society of North America, Washington DC - November 1984
- A12 "CT-Guided Stereotaxic Biopsy", Canadian Association of Radiologists Meeting, Toronto, Canada - June 1985
- A13 "Biopsy System for CT-guided Biopsies: Comparison with Hand-guided Methods", Onik G, Cosman E, Wells T, Goldberg H, Moss AA, Costello P, Radiological Society of North America Meeting, Chicago, IL - November 1985
- A14 "Biopsy System for CT-guided Biopsies", Radiological Society of North America, Chicago, IL - December 1987
- A15 "Clinical Lessons from Gallbladder Lithotripsy Utilizing the Lithostar Plus ", American Roentgen Ray Society Meeting, Washington, DC - May 1990

- A16 "Biliary Lithotripsy 1990", Clouse ME, Roffe M, Costello P. Annual Meeting, Society of Cardiovascular and Interventional Radiology, Miami, FL - March 1990
- A17 "Spiral Volumetric CT in the Search for a Pulmonary Nodule", Annual Meeting, Radiological Society of North America, Chicago, IL - November 1990
- A18 "Spiral Volumetric CT of the Mediastinum". Association of University Radiologists, Orlando, FL - March 1990
- A19 "Spiral CT of the Thorax with Small Volumes of Contrast Material: A Comparative Study". 77th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov.-Dec. 1991
- A20 "Spiral CT Assessment of Coronary Artery Bypass Grafts". 77th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov-Dec. 1991
- A21 "Spiral CT of the Pancreas: Comparative Study". 77th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov-Dec 1991
- A22 "Spiral CT in the Evaluation of the Neck". 77th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov-Dec 1991
- A23 "Coronary Artery Bypass Graft Assessment by Spiral CT", Society for Thoracic Radiology, Laguna Niguel, CA - January 1992
- A24 "Assessment of the Thoracic Aorta by Spiral Computed Tomography", American Roentgen Ray Society Meeting, Orlando, FL - May 1992
- A25 "Assessment of Coronary Bypass Graft Patency with Volumetric Computed Tomography", American Roentgen Ray Society Meeting, Orlando, FL - May 1992
- A26 "Spiral CT with 3-Dimensional Image Reconstruction is Equivalent to Selective Angiography in Determining Coronary Bypass Graft Patency". 65th Scientific Sessions. American Heart Association, New Orleans, LA, Nov 1992
- A27 "Clinical Assessment of an Interventional CT Table." 78th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov.-Dec. 1992
- A28 "Spiral CT of the Thorax with Increased Table Speed: Comparative Study". Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov.-Dec. 1992
- A29 "Can Spiral CT Allow Effective Imaging of the Liver with Smaller Contrast Media Volumes?" 78th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL -Nov.-Dec. 1992
- A30 "Cine Spiral CT Evaluation of Coronary Artery Bypass Graft Flow."78th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov.-Dec. 1992

- A31 "Spiral CT of the Thorax". Society of Thoracic Radiology, Hilton Head, South Carolina - March 1993
- A32 "Spiral CT of the Abdominal Aorta and its Branches", American Roentgen Ray Society, San Francisco, CA - April, 1993
- A33 "Spiral CTA of the Abdominal Aorta and its Branches". Cardiovascular and Interventional Radiological Society of Europe (CIRSE) Annual Meeting and Postgraduate Course, Budapest, Hungary, June 1993.
- A34 "Spiral CTA of the Abdominal Aorta and its Branches". 8th European Congress of Radiology, Vienna, Austria, September, 1993. ECR Scientific Programme and Abstracts 1993; 102(P)
- A35 "Optimization of Contrast Medium Use in Thoracic CT". 79th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL -Nov.-Dec. 1993
- A36 "Spiral CT Angiography of the Abdominal Aorta and its Main Branches". 79th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov.-Dec. 1993
- A37 "Spiral (Helical) CT: Principles, Techniques, and Clinical Applications". Plenary Session, Refresher Courses, Scientific Sessions and Exhibits- Spiral CT and Spiral CT Angiography with the Somatom Plus Family of CT Systems. Panel Member, 79th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov.-Dec. 1993
- A38 "Comparison of Liver Enhancement During Dynamic CT with Iohexol in Various Doses: To Determine an Efficacious Concentration and Dose for Optimal Enhancement". 94th Annual Meeting, American Roentgen Ray Society, New Orleans, LA, April 1994
- A39 "Spiral (Helical) CT: Principles and Clinical Applications". Refresher Course - 80th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov-Dec 1994
- A40 "Spiral CT in Thoracic Imaging", Moderator and "Overview: Principals and Clinical Applications", Speaker – Thoracic Imaging -The Society of Thoracic Radiology, Amelia Island, FL - March 1995
- A41 "Spiral (Helical) CT: Principles and Clinical Applications". Refresher Course - 81th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov-Dec 1995
- A42 "Chemoembolized Hepatomas: Correlation of CT Studies with Clinical Course". Gates J, Stuart K, Clouse ME, Costello P. 81th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov-Dec 1995
- A43 "Evaluation of Hepatic Contrast Enhancement during Helical CT by using Six Different Volumes and Concentrations of Contrast Agent: Randomized Multicenter Trial of 676 Patients". Freeny PC, Gardner JC, Chezmar JL, Costello P, Fishman EK, Silverman

PM, et al. 81th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov-Dec 1995

- A44 "CT Features of Pulmonary Alveolar Proteinosis: Patterns and Distributions of Disease". Holbert JM, Costello P. 85th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov-Dec 1999
- A45 Lacomis JM, Vilchez R, Kusne S, Costello P. Pulmonary cryptococcosis: Radiographic findings in a tertiary care center. 100th Annual Meeting, American Roentgen Ray Society. AJR 174 (3) (suppl): 69. May 7-12, 2000.
- A46 Hunsaker AR, Ingenito EP, Costello P, Reilly JJ. Lung volume reduction surgery for emphysema: Correlation of radiologic indices of disease with physiological mechanisms of improvement in lung function. 86th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov-Dec 2000.
- A47 Jacobson FL, Zou KH, Judy PF, Costello P. Validity of objective and subjective measurements of small pulmonary nodules from CT images. 86th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL - Nov-Dec 2000.
- A48 Schoepf UJ, Das M, Schneider AC, Anderson M, Wood SA, Costello P. Computer aided detection (CAD) of segmental and subsegmental pulmonary emboli on 1 mm multidetector-row CT (MDCT) studies. 88th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL -December 2002.
- A49 Peldschus K, Cheema J, Costello P, Herzog P, Martensen J, Schoepf UJ. Computer-aided diagnosis as a second reader: spectrum of findings in chest CT studies interpreted as normal. 89th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov.-Dec. 2003.
- A50 Das M, Cheema J, Costello P, Schneider A, Schoepf U, Wood S. Computer-aided diagnosis of peripheral pulmonary emboli. 89th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov.-Dec. 2003.
- A51 Kipfmueller, Quiroz R, Kucher NC, Costello P, Goldhaber SZ, Schoepf UJ. Reversal of right ventricular enlargement on multidetector-row chest CT following thrombolysis or surgical embolectomy in patients with acute pulmonary embolism. Abstract Poster Session (APS.42.2a). American Heart Association, New Orleans, LA November 7, 2004.
- A52 Schoepf UJ, Kucher N, Kipfmueller F, Quiroz R, Costello P, Goldhaber SZ. Right ventricular enlargement on chest CT as a predictor of mortality in a acute pulmonary embolism. Abstract Oral Session (AOP.42.2a). American Heart Association, New Orleans, LA November 9, 2004.
- A53 Gebhard H, Lauffer L, Costello P. Prospective evaluation of an algorithm for the automated detection of lung nodules at routine chest CT in a clinical environment. 90th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov.-Dec. 2004.

- A54 Quiroz R, Zou K, Kipfmueller F, Costello P, Goldhaber SZ, Schoepf UJ. Negative spiral CT safely rules out acute PE: A systematic analysis of patient outcome studies. 90th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov.-Dec. 2004.
- A55 Kipfmueller F, Quiroz R, Kucher N, Costello P, Goldhaber SZ, Schoepf UJ. Recovery from right ventricular pressure overload after thrombolysis or embolectomy for acute, severe pulmonary embolism (PE): Assessment at spiral CT. 90th Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov.-Dec. 2004.
- A56 Schoepf UJ, Streck J, Phillips D, Brothers R, Selby JB, Costello P. CT of the heart: Improved image quality and robustness of use with 64-slice CT. Society of Computed Body Tomography and Magnetic Resonance, 28th Annual Course, South Beach, FL. March 21-25.
- A57 Lake DR, Costello P, Ravenel JG, Schoepf UJ. Nodule enhanced viewing: Impact on routine interpretation of multi detector row chest CT in a clinical environment. American Roentgen Ray Society 105th Annual Meeting, New Orleans, LA. May 15-20, 2005.
- A58 Burch SR, Schoepf UJ, Nguyen SA, Zwerner PL, Costello P, Herzog C. In vitro evaluation of metallic coronary artery stents with 64-slice CT using an ECG-gated cardiac phantom: Relationship between in-stent visualization, stent type and heart rate. 33rd Annual Meeting and Scientific Sessions of the American Society for Cardiac Imaging (NASCI) (Abstract No. 27). Amelia Island, FL. October 8-11, 2005.
- A59 Jensen CT, Auler MA, Nguyen SA, Savino G, Costello P, Schoepf UJ. Influence of patient variables on coronary artery enhancement at 64-slice CT of the heart. 33rd Annual Meeting and Scientific Sessions of the American Society for Cardiac Imaging (NASCI). Amelia Island, FL. October 8-11, 2005.
- A60 Gant PA, Zwerner PL, Burch SR, Goodroe RN, Nguyen SA, Chairamida SA, Savino G, Schoepf UJ. Global and regional left ventricular function: Assessment by 64-slice CT coronary angiography. 33rd Annual Meeting and Scientific Sessions of the American Society for Cardiac Imaging (NASCI) (Abstract No. 54). Amelia Island, FL. October 8-11, 2005.
- A61 Zwerner PL, Herzog C, Doll J, Nguyen SA, Nielsen CD, Costello P, Schoepf UJ. Accuracy of 64-slice CT coronary angiography for noninvasive stenosis detection. 33rd Annual Meeting and Scientific Sessions of the American Society for Cardiac Imaging (NASCI) (Abstract No. 56). Amelia Island, FL. October 8-11, 2005.
- A62 Zou KH, Lake DR, Costello P, Schoepf UJ. Conventional CT is equivalent to electron-beam CT for coronary calcium scoring: A meta-analysis of comparative studies with paired modalities. (SSA08-08). Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov.-Dec. 2005.

- A63 Herzog C, Mulvihill DM, Savino G, Schmidt B, Costello P, Schoepf UJ. Pediatric cardiovascular 64-slice CT: Radiation dose reduction by automated anatomical tube current modulation. (SSC15-02). Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov.-Dec. 2005.
- A64 Herzog C, Doll J, Zwerner P, Nielsen C, Costello P, Schoepf UJ. 64-slice CT-coronary angiography reliably detects and excludes significant coronary artery stenosis on per-patient but not on per-segment basis. (SSG08-03). Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov.-Dec. 2005.
- A65 Kert JM, Herzog C, Mulvihill D, Nguyen S, Savino G, Schmidt B, Costello P, Schoepf UJ. Pediatric 64-slice Ct of congenital cardiovascular abnormalities of the chest: Radiation dose reduction by automated anatomical tube current modulation. Society of Thoracic Radiology Annual Meeting. March 13.
- A66. SavinoG, Kerl JM, Nguyen S, Goodroe R, Gantt P, Zwerner PL, Costello P, Schoepf UJ. Global and regional left ventricular cardiac function at 64-slice MDCT: Comparison with gated SPECT. Society of Thoracic Radiology Annual Meeting. March 13.
- A67 Lake DR, Seekins JM, Cluver AR, Fernandez MJ, Ravenel JG, Schoepf UJ, Salganicoff M, Liang J, Nguyen S, Dundar M, Wolf M, Costello P. Computer-aided detection of peripheral pulmonary embolus on multi-detector row CT: Initial experience and impact on resident diagnosis. (SS14; Abstract 128). American Roentgen Ray Society Annual Meeting, Vancouver, BC. April 20-May 5, 2006.
- A68 Jensen CT, Ravenel JG, Nguyen SA, Costello P, Schoepf UJ. Dual flow contrast injection for coronary CTA improves visualization of the right heart. (SS19; Abstract 180). American Roentgen Ray Society Annual Meeting, Vancouver, BC. April 20-May 5, 2006.
- A69 Florian Mayer, U. Joseph Schoepf, Shaun Nguyen, Philip Costello, James Ravenel. Extra-Cardiac Findings at Cardiac CT: Experience in 1000 Patients. Annual Meeting of the North American Society for Cardiac Imaging (NASCI) 2006, Las Vegas, NV
- A70 Florian Mayer, Christian Thilo, Shaun Nguyen, Peter Zwerner, Philip Costello, U. Joseph Schoepf. Coronary Artery Calcium: Correlation of Calcification Patterns with Non-Calcified Plaque and Stenosis. Annual Meeting of the North American Society for Cardiac Imaging (NASCI) 2006, Las Vegas, NV
- A71 Christian Thilo, Florian Mayer, Peter Zwerner, Philip Costello, U. Joseph Schoepf. Can Non-Calcified Coronary Plaques be Detected on Non-Contrast Calcium Scoring Studies? Annual Meeting of the North American Society for Cardiac Imaging (NASCI) 2006, Las Vegas, NV
- A72 Christian Thilo, Matthias Kerl, James Ravenel, Shaun Nguyen, Corey Jensen, Philip Costello, U. Joseph Schoepf. Triphasic Contrast Injection Improves Diagnosis of the

Right Heart at Coronary CT Angiography. Annual Meeting of the North American Society for Cardiac Imaging (NASCI) 2006, Las Vegas, NV

- A73 Mayer F, Thilo C, Nguyen SA, Zwerner P, Costello P, Schoepf UJ, et al. Coronary artery calcium: Correlation of calcification patterns with non-calcified plaque and stenosis. SSQ08-06. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL – Nov.-Dec. 2006.
- A74 Thilo C, Mayer F, Zwerner P, Costello P, Schoepf UJ. Can non-Calcified coronary plaques be detected on non-contrast calcium scoring studies? SSK09-09. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov.-Dec. 2006.
- A75 Herzog C, MD, Zwerner P, Savino G, Costello P, Vogl TJ, Schoepf UJ. Use of advanced visualization tools in 64-slice CT coronary angiography and impact on diagnostic accuracy: A comparison to quantitative coronary angiography. SST06-09. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov.-Dec. 2006.
- A76 Herzog C, Zwerner P, Savino G, Costello P, Vogl TJ, Schoepf UJ. Usefulness of clinical data in the interpretation of coronary artery disease in coronary angiography and 4-slice CT coronary angiography. SSE09-02. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov.-Dec. 2006.
- A77 Thilo C, Chiaramida S, Nguyen SA, Savino G, Costello P, Schoepf UJ. Sixty-four slice CT coronary angiography with CT cardiac function analysis and cardiac catheterization compared with myocardial perfusion imaging for diagnosis of functionally relevant coronary artery stenosis. SSC07-06. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov.-Dec. 2006.
- A78 Herzog C, Zangos S, Savino G, Vogl TJ, Schoepf UJ, Costello P, et al. Sixty-four-slice CT angiography reliably detects significant coronary artery stenosis on a per patient but not on a per-vessel or per-segment basis. SSJ08-01. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov.-Dec. 2006.
- A79 Fernandez MJ, Thilo C, Nguyen SA, Costello P, Schoepf UJ. Coronary CTA with Dual-Source Versus 64-Slice CT: Impact on Diagnostic Quality, Radiation Dose and Use of Beta-Blockers. Society of Computed Body Tomography and Magnetic Resonance. Society of Computed Body Tomography/Magnetic Resonance. 30th Annual Course. Orlando, Florida. March 5-9, 2007.
- A80 Suranyi P, Lee H, Nguyen S, Brothers R, Costello P, Schoepf UJ. Radiation Savings At Cardiac Dual-Source CT By Confining Pulsing Width to The Best Phase Determined Pre-Contrast. North American Society of Cardiac Imaging, Washington, DC. October 2007.
- A81 Enrico B, Suranyi P, Nguyen S, Thilo C, Bonomo L, Costello P, Schoepf UJ. Spatial Distribution and Composition of Coronary Artery Plaques Using 64-Slice Cardiac CT. North American Society of Cardiac Imaging, Washington, DC. October 2007.

- A82 Suranyi P, Kerl M, Lee H, Kalafut J, Kemper C, Costello P, Schoepf UJ. Individually-Tailored Contrast Medai Injection Protocol at Dual-Source Coronary CT Angiography Using a Computerised Cardiac-Output-Based Algorithm. North American Society of Cardiac Imaging, Washington, DC. October 2007.
- A83 Fernandez MJ, Thilo C, Nguyen SA, Brothers R, Costello P. Coronary CTA with Dual-Source CT versus 64-slice CT: Impact on Radiation Dose, Diagnostic Quality, and Use of Beta Blockers. SSK 15-04. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov 25-30. 2007.
- A84 Thilo C, Schoepf UJ, Gordon L, Chiaramida S, Serguson J, Costello P et al. A mobile SPECT scanner combined with 64-slice CT for integrated assessment of coronary anatomy and perfusion: a feasibility study. SSQ06-02. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov 25-30. 2007.
- A85 Kerl JM, Herzog C, Mulvihill DM, Costello P, Vogl TJ Schoepf UJ et al. Pediatric cardiovascular 64-slice CT angiography: Radiation dose reduction by automated anatomical tube current modulation. SSQ13-01. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov 25-30. 2007.
- A86 Williams BJ, Suranyi P, Kratz J, Selby JB, Jr, Costello P, Schoepf UJ. Predictive value of findings at ECG-gated CT angiography for patient outcome and major adverse cardiac events after coronary artery bypass graft surgery. SSA03-09. . Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov 30-Dec 5. 2008.
- A87. Blackmon KN, Streck J, Thilo C, Costello P, Schoepf UJ. Automated assessment of non-calcified coronary artery plaque burden at coronary CT angiography. SSA20-06. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov 30-Dec 5. 2008.
- A88. Ruzsics B, Parker AT, Abro JA, Thilo C, Costello P, Schoepf UJ. Biomarkers of atherosclerotic disease activity and myocardial remodeling: Correlation with findings at cardiac CT. SSC04-01. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov 30-Dec 5. 2008.
- A89. Huda W, Schoepf UJ, Abro JA, Ravenel JG, Costello P, Frey GD. Realistic risks of radiation induced cancer in a clinical patient population undergoing cardiac CT. SSJ05-01. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov 30-Dec 5. 2008.
- A90. Abro JA, Parker AT, Gebregziabher M, Thilo C, Costello P, Schoepf UJ. Prognostic value of stenosis severity and atherosclerotic plaque burden at coronary CT angiography for major adverse cardiac events (MACE): A population-based outcome study. SSK02-04. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov 30-Dec 5. 2008.
- A91. Bastarrika G, Schwarz F, Lee YS, Zwerner P, Costello P, Schoepf UJ. Epicardial and intrathoracic fat but not subcutaneous fat are associated with the extent of coronary artery disease. SSK07-02. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov 30-Dec 5. 2008.

- A92. Bauer RW, Thilo C, Vogl TJ, Costello P, Schoepf UJ. Non-calcified atherosclerotic plaque burden at coronary CTA: A better predictor of ischemia at stress myocardial perfusion imaging than calcium score and stenosis severity? SSK03-03. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov 30-Dec 5. 2008.
- A93. Enrico B, Suranyi P, Thilo C, Bonomo L, Costello P, Schoepf UJ. Vessel wall hemodynamics and coronary artery plaque formation: Morphological analysis with coronary CT angiography. SSK03-04. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov 30-Dec 5. 2008.
- A94. Ruzsics B, Lee H, Zwerner P, Gebregziabher M, Costello P, Schoepf UJ. Dual-energy CT of the heart for diagnosing coronary artery stenosis and myocardial ischemia: Initial experience. SST03-09. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov 30-Dec 5. 2008.
- A95. Ruzsics B, Gebreziabher M, Lee H, Brothers R, Costello P, Schoepf, UJ. Automatic cardiac phase selection for image reconstruction at coronary CT angiography. SST16-05. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov 30-Dec 5. 2008.
- A96. Suranyi P, Lee H, Brothers R, Huda W, Costello P, Schoepf UJ. Use of calcium scoring scan to guide ECG-pulsing at coronary CT angiography: Potential for radiation dose reduction. SST16-07. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL – Nov 30-Dec 5. 2008.
- A97. Ruzsics B, Parker A, Abro J, Costello P, Schoepf UJ. Biomarkers of atherosclerotic disease activity and myocardial remodeling: Correlation with findings at cardiac CT . (B-692) European Congress of Radiology. Vienna, Austria. March 6-10, 2009.
- A98. Schwarz F, Bastarrika G, Ruzsics B, Sterzik A , Brothers R, Costello P, Schoepf UJ . Coronary artery calcium quantification based on virtual non-contrast enhanced dual energy CT coronary angiography (B-123) European Congress of Radiology. Vienna, Austria. March 6-10, 2009.
- A99. Blackmon KN, Florin C, Lee H, Bogoni L, Kogos P, Koonce J, Coursey R, Costello P, U.J. Schoepf UJ; Computer-aided detection of pulmonary embolism at pulmonary CT angiography: Can it improve sensitivity of inexperienced readers? (B236). European Congress of Radiology. Vienna, Austria. March 6-10, 2009.
- A100. B. Ruzsics, Lee Y, Zwerner P, Chiaramida S, Costello P, Schoepf UJ. Adenosine stress dual energy CT of the heart for diagnosing myocardial ischemia and viability compared with cardiac MRI and SPECT: Initial experience . (B-345). European Congress of Radiology. Vienna, Austria. March 6-10, 2009.
- A101. Ruzsics B, Schwarz F, Lee Y, Bastarrika G, Chiaramida S, Zwerner P, Costello P, Schoepf UJ. Dual energy CT of the heart for the assessment of coronary artery stenosis

and the myocardial blood supply: Comparison with SPECT . (B-570) . European Congress of Radiology. Vienna, Austria. March 6-10, 2009.

- A 102. Bastarrika G, Lee Y, Gebregziabher M, Abro J, Ruzsics B, Costello P, Schoepf UJ; Correlation between atherosclerotic plaque composition and coronary artery stenosis in chronic chest pain patients (B-698). European Congress of Radiology. Vienna, Austria. March 6-10, 2009.
- A 103. Arnoldi EM, Ramos-Duran LR, Abro JA, Zwerner P, Costello P, Schoepf UJ. Low radiation dose, prospectively ECG-triggered coronary CT angiography: Can it be done in patients with cardiac arrhythmia – initial experience. SSC01-05. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov 29-Dec 4. 2009.
- A 104. Schwarz F, Ruzsics B, Bastarrika G, Sterzik A, Costello P, Schoepf UJ. Coronary artery calcium quantification based on virtual non-contrast enhanced dual energy CT coronary angiography. SSJO5-02. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov 29-Dec 4. 2009.
- A 105. Ruzsics B, Arnoldi EM, Gebregziabher M, Rosenblum MA, Costello P, Schoepf UJ. Delayed enhancement dual-energy CT versus cardiac MRI viability imaging for quantifying myocardial infarct size. SST03-02. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov 29-Dec 4. 2009.
- A 106. Barraza JM, Schoepf UJ, Thilo C, Abro J, Costello P, Kang DK. Computed tomographic signs of right ventricular dysfunction: prognostic role in acute pulmonary embolism. SSJ07-05. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL – Nov 28-Dec 3. 2010.
- A 107. Weininger M, Schoepf UJ, Kang DK, Rowe G, Costello P, Bastarrika G. Dynamic quantitative myocardial stress CT perfusion imaging: initial clinical experience. SSK03-01. Scientific Assembly and Annual Meeting, RSNA, Chicago, IL –Nov 28-Dec 3. 2010.