

UNIVERSITY OF PENNSYLVANIA - PERELMAN SCHOOL OF MEDICINE
Curriculum Vitae

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Jill E. Langer, MD

Address: Hospital of the University of Pennsylvania
Department of Radiology/Division Abdominal Imaging
3400 Spruce Street, 1 Silverstein

Philadelphia, PA 19104 USA

If you are not a U.S. citizen or holder of a permanent visa, please indicate the type of visa you have:
none (U.S. citizen)

Education:

1982	BA	University of Pennsylvania (Biology)
1986	M.D.	University of Pennsylvania

Postgraduate Training and Fellowship Appointments:

1986-1987	Internship in Internal Medicine, Graduate Hospital, Philadelphia, PA
1987-1991	Residency in Diagnostic Radiology, University of Pennsylvania Medical Center, Philadelphia, PA
1990-1991	Fellowship in Computed Tomography, Ultrasound and Magnetic Resonance Imaging, University of Pennsylvania Medical Center, Philadelphia, PA

Faculty Appointments:

1991-2000	Assistant Professor of Radiology at the Hospital of the University of Pennsylvania, University of Pennsylvania School of Medicine
2000-2014	Associate Professor of Radiology at the Hospital of the University of Pennsylvania, University of Pennsylvania School of Medicine
2014-present	Professor of Radiology at the Hospital of the University of Pennsylvania, University of Pennsylvania School of Medicine

Hospital and/or Administrative Appointments:

1991-present	Attending Radiologist, Hospital of the University of Pennsylvania
1991-present	Active Radiologist, Penn Presbyterian Medical Center
2006-2019	Attending Radiologist, The Center for Fetal Diagnosis and Treatment at The Children's Hospital of Philadelphia
2014-present	Section Chief, Ultrasound Section, Hospital University of PA
2014-2020	Program Director Abdominal Imaging Fellowship, UPHS

Specialty Certification:

1991	American Board of Radiology
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Licensure:

1987	Pennsylvania
2016-Present	New Jersey

Awards, Honors and Membership in Honorary Societies:

1978-1982	Benjamin Franklin Scholar University of Pennsylvania
1986	Alpha Omega Alpha Medical Honor Society University of Pennsylvania School of Medicine
1994	Cum Laude Award, RSNA Scientific Meeting, Chicago, IL
1995	Silver Medal Award, American Roentgen Ray Society, Washington, DC
2005-2018	Recognized by Best Doctors in America
2006	American Institute of Ultrasound in Medicine, Elected Fellow
2009	Society of Radiologists in Ultrasound, Elected Fellow
2009	Society of Uroradiology, Elected Fellow
2010	Philadelphia Magazine's Top Doc Award
2011	Recipient of the Wallace T. Miller Teaching Award for Teaching Excellence, Radiology Residency, University of Pennsylvania School of Medicine
2014	Mulugeta PG, Jones LP, Langer JE. Ultrasound Surveillance of the Thyroid Cancer Patient: Review of Technique and Common Pitfalls. Presented at the Radiologic Society of North America Meeting, Chicago, IL, November 2014. Certificate of Merit.
2018	Philadelphia Magazine's Top Doc Award
2019	Elected to Fellowship, The Philadelphia College of Physicians and Surgeons, Philadelphia, PA
2019	National Exceptional Women in Medicine Award, Castle Connolly
2019	Philadelphia Magazine's Top Doc Award
2020	National Exceptional Women in Medicine Award, Castle Connolly
2020	Philadelphia Magazine's Top Doc Award
2021	Elected fellow, American College of Radiology
2021	Philadelphia Magazine's Top Doc Award
2021	National Exceptional Women in Medicine Award, Castle Connolly
2022	Top Docs in Philadelphia Magazine
2022	National Exceptional Women in Medicine Award, Castle Connolly
2023	Top Docs in Philadelphia Magazine
2023	National Exceptional Women in Medicine Award, Castle

Connolly

Memberships in Professional and Scientific Societies and Other Professional Activities:National:

- 2005-Present Society of Radiologists in Ultrasound
(Program Committee, 2005-2008; Case of the Day Chair, 2007-2008; Elected Fellow, 2008; Education Committee, 2008- Present;)
- 2008-2018 Society of Uroradiology
(Elected Fellow, 2008- Present; Resident Curriculum Committee, 2008-2010;)
- 2010-Present American Board of Radiology (Core Exam Committee member, Reproductive Endocrinology Section, 2010-present)
- 2010-present American College of Radiology Continuous Professional Improvement (CPI)
(Contributor to the ACR CPI Ultrasonography Module, 2011, 2013 and 2019)
- 2011-2018 American Institute of Ultrasound in Medicine Web (Education Committee Member)
- 2012-Present American Institute of Ultrasound in Medicine, AIUM Practice Guidelines for Thyroid and Parathyroid Sonography (AIUM Liaison)
- 2013-Present American College of Radiology (Thyroid Incidental Findings, 2013)
- 2013-Present Thyroid Cancer Care Collaborative, Nodule/Lymph Node panel (Panel member)
- 2014-current American College of Radiology TI-RADS Committee
- 2018-Present American Institute of Ultrasound in Medicine
(Secretary, Emergency Ultrasound Section, 2002-2003; Vice Chair, Emergency Ultrasound Section, 2003-2006; Fellowship Committee, 2003 - Present; Elected Fellow, 2006; Elected to the Board of Governors, 2009; Vice Chair, Endowment for Education and Research Committee, 2011-present; AIUM Liaison, AIUM Practice Guidelines for Thyroid and Parathyroid Sonography, 2011 - Present; Co-Course Director, AIUM/AACE Postgraduate Course: Thyroid and Parathyroid Ultrasound Imaging and Update on Thyroid Disorders July, 2010; August, 2011; August, 2012)

Local:

- 1997-2000 Greater Delaware Valley Ultrasound Society
(Secretary, 1997-98; Vice-President, 1998-99)
- 1998-2007 FCG Institute for Continuing Medical Education (Advisory Board member, 1998-2007; Chair of the Board, 2004-2006)
- 2004-present Pennsylvania Radiologic Society Diagnostic Ultrasound Committee (Chair of Ultrasound Committee, 2011-present)

2005-Present Philadelphia Roentgen Ray Society
(Educational Program Committee, 2005-Present)

Editorial Positions:

1995-1996	Manuscript reviews-Inflammatory Bowel Diseases
1995-2004	Manuscript reviews Abdominal Imaging
1996	Guest Editor Seminars in Roentgenology
1997-2004	Manuscript reviews 1997Journal of Clinical Ultrasound
2001-2008	Manuscript reviews Head and Neck
2001-Present	Manuscript reviewsAmerican Journal of Roentgenology
2006-Present	Manuscript Reviews RadioGraphics
2008-Present	Manuscript reviews Thyroid
2009-2014	Manuscript reviews- Journal of Ultrasound in Medicine
2010-Present	Manuscript reviews- Ultrasound Quarterly
2010-2014	Manuscript reviews- American Journal of Neuroradiology
2011-2015	Advisory Editorial Board - Journal of Ultrasound in Medicine
2011	Guest Editor Ultrasound Clinics of North America
2016-2017	American Journal of Kidney Diseases

Academic and Institutional Committees:

1993-2014	Residency Education Committee, Department of Radiology
1993-1995	Resident Selection Committee, Department of Radiology
2000-2014	Teaching Evaluation Subcommittee, Committee on Appointments and Promotions, School of Medicine, University of Pennsylvania
2002-2003	Radiation Oncology Academic Review Committee, University of Pennsylvania School of Medicine
2002-Present	Committee on Appointments and Promotions, Department of Radiology
2004-2014	Co-Chair, Teaching Evaluation Subcommittee, Committee on Appointments and Promotions, School of Medicine, University of Pennsylvania
2007	Ultrasound Use for the Diagnosis of Deep Venous Thrombosis Task Force, School of Medicine, University of Pennsylvania
2009-2014	Strategic Planning Committee, Department of Radiology
2009-Present	CME Activities Committee, Department of Radiology
2010-Present	NIH- Transforming Academic Culture Task Force, School of Medicine, University of Pennsylvania
2014	Member, Search Committee for Faculty Appointment

	Division of Endocrinology, Diabetes and Metabolism Perelman School of Medicine at the University of Pennsylvania
2014-2019	American Board of Radiology Ultrasound Core Exam Committee
2015	Member, Search Committee for Cytopathology faculty member
2016-2018	Scholarly Oversight Committee for Stephanie Samuels, MD Pediatric Endocrinology Fellow
2017	Dean's Review of OB/GYN Department
2019-present	Departmental Committee on Appointments and Promotions, Chair
2019-present	American Thyroid Association Nodule Guidelines Task Force Member, Chair for Sonographic Appearance Sub-Committee
2020-present	UPHS Point of Care Ultrasound Committee, member
2020-Present	Department of Medicine, Division of Endocrinology Faculty recruitment committee
2020-Present	Abdominal Imaging Fellowship, Program Evaluation Committee
2020-Present	Abdominal Imaging Fellowship, Clinical Competency Committee
2020-Present	Abdominal Imaging Fellowship, Interview Committee
2020-Present	Mentorship Committee for Dr. Roseann Wu, Department of Pathology
2020-Present	Women in Radiology Committee at PSOM, Faculty Advisor
2020-present	Ultrasound NPOT Committee
2021-present	RSNA RadioGraphics Exhibit Review Committee (Ultrasound Section)
2021-present	Radiology Extenders Committee (UPHS)
2021-present	Clinical Affairs Committee, American Thyroid Association
2022-Present	Selection Committee for Breast Imaging Division Chief
2022-Present	Selection Committee for Abdominal Imaging Faculty
2023-Present	Selection Committee for Breast Imaging Division Chief

Major Academic and Clinical Teaching Responsibilities:

1995-2019	Instructor, Introduction to Radiology Course (RA 300), University of Pennsylvania School of Medicine
1998-Present	Ultrasound Director of the Thyroid Nodule Clinic
1998-2013	Instructor, Curriculum 2000 Course, University of Pennsylvania School of Medicine
2002-2014	Educational Director, Division of Ultrasound
2003	Lecture - "Thyroid Ultrasound for Diagnosis and Biopsy" Current Concepts In the Management of Thyroid and Parathyroid Neoplasm Abramson Cancer Center of the University of Pennsylvania, Philadelphia, PA
2003	Lecture Series - "Screening for Ovarian Cancer", "Abdominal Ultrasound Emergencies", "A Practical Approach to Thyroid Nodules" University of Pennsylvania Medical Center, Department of Radiology Diagnostic Imaging Seminar Martha's Vineyard, Massachusetts
2005	Lecture Series - "Thyroid Disease: Sonographic-pathologic

- Correlation", "Thyroid Nodule Bx: Technique and Recommendations" Radiology Diagnostic Imaging Seminar University of Pennsylvania Medical Center, St. John, US Virgin Islands
- 2005 Lecutre - Thyroid Nodule Biopsy Technique and Recommendations" Department of Radiology Grand Rounds University of Pennsylvania Medical Center
- 2005 Lecture - "Ultrasonography of the Head and Neck" Faculty Discussant Otorhinolaryngology Grand Rounds University of Pennsylvania Medical Center
- 2006 Lecture Series - "Adnexal Lesions: Making a More Specific Diagnosis", "FNA of Thyroid Nodules: Recommendations for Biopsy", "State-of-the-art Imaging In Radiology: Around the Body In Five Days" University of Pennsylvania Medical Center Philadelphia, PA
- 2006 Lecture - "Sonography of the Uterus" Department of Obstetrics and Gynecology University of Pennsylvania Medical Center
- 2007 Lecture - "Sonography of the Adnexa" Guest lecturer Department of Obstetrics and Gynecology University of Pennsylvania Medical Center
- 2007 Lecture Series - "Adnexal Masses: Making a More specific Diagnosis", "Acute Scrotal Pain", "Fine Needle Thyroid Aspirations: Indications and Technique" University of Pennsylvania Medical Center, Department of Radiology Diagnostic Imaging Seminar Martha's Vineyard, Massachusetts
- 2007 Lecture Series - "Ultrasound In Acute Pelvic Pain", "Thyroid Disease: Sonographic-pathologic Correlation", "Thyroid Nodule Bx: Technique and Recommendations" Radiology Diagnostic Imaging Seminar University of Pennsylvania Medical Center St. John, US Virgin Islands
- 2008 Lecture Series - "Adnexal Lesions: What findings are specific", "CT of GI Emergencies", "The Acute Scrotum", "Thyroid Nodules: Which should we biopsy?", "Keying In: A Case-Based Imaging Course" University of Pennsylvania Medical Center Key Biscayne, Florida
- 2008 Lecture - " Ultrasound of the Post Thyroidectomy Patient" Current Concepts in the Management of Thyroid Cancer, Hands-On Workshop Abramson Cancer Center University of Pennsylvania Medical Center
- 2008 Lecture - "The Role of Ultrasound in the Evaluation of Thyroid Nodules" Current Concepts in the Management of Thyroid Cancer Abramson Cancer Center University of Pennsylvania Medical Center
- 2009 Lecture Series- "CT of GI Emergencies", "Unusual Ectopic Pregnancies"

- "Thyroid Nodules: Which Should We Biopsy?", "Sonography of the Postoperative Neck", University of Pennsylvania Medical Center, Department of Radiology Diagnostic Imaging Seminar Martha's Vineyard, MA
- 2009 Lecture Series - "Sonography of the Scrotum: Pearls and Pitfalls", "Unusual Ectopic Pregnancies", "Which Thyroid Nodules Should Undergo FNA?", "Sonography of the Postoperative Neck", University of Pennsylvania Medical Center, Department of Radiology Diagnostic Imaging Seminar Panama
- 2010 Lecture Series - "Characterization of Adnexal Masses", "Complications of Twin Pregnancies", "Thyroid Nodules: Which Should We Biopsy?", "Sonography of OB Emergencies", University of Pennsylvania Medical Center, Department of Radiology Diagnostic Imaging Seminar, Paradise Island, Bahamas
- 2011-Present Program Director - Abdominal Imaging Fellowship, Program development and oversight of 8 to 9 Body Imaging Fellows pursuing a one year ACGME approved fellowship
- 2011 Co-Course Director & Lecturer - "Nodular Thyroid Disease", "Diffuse Thyroid Disease", Parathyroid Imaging", "Thyroid Micro Nodules and Thyroid Cancer: Panel Discussion", Course Co-Director, Hands-On Course in Thyroid and Parathyroid Ultrasound Imaging: A multidisciplinary Approach, Abramson Cancer Center, Philadelphia, PA
- 2011 Lecture Series - "Thyroid Cancer: New insights", "Thyroid Nodules: Which Should Undergo FNA?", "Sonography of Maternal OB Emergencies", University of Pennsylvania Medical Center, Department of Radiology Diagnostic Imaging Seminar, Chatham, MA
- 2011 Program Director - Hands-On Course in Thyroid and Parathyroid Ultrasound Imaging: A multidisciplinary Approach
Abramson Cancer Center
Philadelphia, PA
- 2011 Lecture Series - "Scrotal Sonography: Pearls and Pitfalls", "A Practical Approach to Cystic Adnexal Masses", "Thyroid Ultrasound", "Detection and Characterization of Neck Nodes Sonography", "Non-Fetal OB Emergencies", Breast and Body Imaging University of Pennsylvania Medical Center, Department of Radiology Diagnostic Imaging Seminar, Hershey, PA
- 2012 Lecture Series - "Sonographic Characterization of Thyroid Nodules", "New Technology in Sonography", "Characterization of Adnexal Masses", "Scrotal Sonography", "Extrathyroidal Neck Lesions", University of Pennsylvania Medical Center, Department of Radiology Diagnostic Imaging Seminar, San Juan, Puerto Rico
- 2013 Penn CME
Lecturer and Co-course Director; Lecture Series - "Uterine

- 2013 Sonography-Maximizing your 16 shades of Gray", "Thyroid Nodules: Which should undergo FNA?", "Characterization of Adnexal Masses", University of Pennsylvania Medical Center, Women's Imaging Diagnostic Imaging Seminar Nassau, Bahamas Penn CME
- "Sonography of Adnexal masses; making a specific diagnosis"
 "Scrotal Sonography: pearls and pitfalls"
 "Which Thyroid Nodules should undergo FNA?"
 Essentials in Body and MSK imaging
 University of Pennsylvania Department of Radiology
 Turnberry Isle Miami, FL
- 2013 Penn CME
- "Uterine Sonography-Maximizing your 16 shades of gray"
 "Thyroid Nodules: Which Should Undergo FNA?"
 "Thyroid Molecular Testing"
 "Scrotal Sonography: Pearls and Pitfalls"
 University of Pennsylvania Medical Center, Department of Radiology Diagnostic Imaging Seminar
 Chatham, MA
- 2014 Penn CME
- "Acute pelvic pain: lessons learned from the ED"
 "Non-fetal Obstetrical emergencies"
 "Which thyroid nodules should undergo FNA"
 Radiology in the Redrocks
 University of Pennsylvania Department of Radiology
 Sedona, AZ
- 2014 Penn CME
- "Detecting Malignancy on Pelvic Sonography"
 "The Role of US in Detecting Thyroid Cancer"
 "The Use of Molecular Testing in Thyroid Biopsy"
 Oncologic Imaging
 University of Pennsylvania Department of Radiology
 Fort Lauderdale, FL
- 2015 Program Director and Speaker
- "Thyroid Nodules-What are the new criteria for FNA"
 "Diffuse Thyroid Disease"
 "RUQ sonography: More than just gallstones"
 "Adnexal Lesions: Making a specific diagnosis"
 "Scrotal Sonography; Pearls and Pitfalls"
 University of Pennsylvania Medical Center, Department of Radiology Diagnostic Imaging Seminar
 Martha's Vineyard, MA
- 2015 American College of Radiology Annual Meeting, Course Director for "Thyroid Cancer: Epidemiology, Outcome and Treatment", Washington DC, 2015
- 2016 "Molecular Testing of Thyroid Nodules: What the Radiologist Needs

to Know"

- 2016 University of Pennsylvania Medical Center, Department of Radiology Diagnostic Imaging Seminar
West Palm Beach, Florida
"Uterine Sonography"
University of Pennsylvania Medical Center, Department of Radiology Diagnostic Imaging Seminar
Chatham, MA
- 2016 "Pelvis Sonography: Subtle findings that make the diagnosis"
University of Pennsylvania Medical Center, Department of Radiology Diagnostic Imaging Seminar
West Palm Beach, Florida
- 2016 "Diffuse Thyroid Disease"
University of Pennsylvania Medical Center, Department of Radiology Diagnostic Imaging Seminar
West Palm Beach, Florida
- 2016 "New Guidelines for Thyroid Nodule FNA"
University of Pennsylvania Medical Center, Department of Radiology Diagnostic Imaging Seminar
West Palm Beach, Florida
- 2016 "The Diagnostic Dilemma of the Cystic Adnexal Mass"
University of Pennsylvania Medical Center, Department of Radiology Diagnostic Imaging Seminar
Chatham, MA
- 2016 "Update on Recommendations for Thyroid FNA?"
University of Pennsylvania Medical Center, Department of Radiology Diagnostic Imaging Seminar
Chatham, MA
- 2016 "Challenging US cases"
University of Pennsylvania Medical Center, Department of Radiology Diagnostic Imaging Seminar
Chatham, MA
- 2016 "Diffuse Thyroid Disease"
University of Pennsylvania Medical Center, Department of Radiology Diagnostic Imaging Seminar
Chatham, MA
- 2016 "Ovarian Cancer Screening; Current Opinion"
University of Pennsylvania Medical Center, Department of Radiology Diagnostic Imaging Seminar
West Palm Beach, Florida
- 2017 Hands-On Advanced Sonography, World Congress on Thyroid Cancer
- 2017 "Diffuse Thyroid Disease," Diagnostic Imaging; Back to the Vineyard, University of Pennsylvania Department CME Course, Martha's Vineyard, MA

- 2017 "Subtle Findings on Pelvic Sonography," Diagnostic Imaging; Back to the Vineyard, University of Pennsylvania Department CME Course, Martha's Vineyard, MA
- 2017 "Molecular Testing of Thyroid FNA," Diagnostic Imaging; Back to the Vineyard, University of Pennsylvania Department CME Course, Martha's Vineyard, MA
- 2017 "Challenging Ultrasound Cases," Diagnostic Imaging; Back to the Vineyard, University of Pennsylvania Department CME Course, Martha's Vineyard, MA
- 2017 "Update of Thyroid FNA Indications," Diagnostic Imaging; Back to the Vineyard, University of Pennsylvania Department CME Course, Martha's Vineyard, MA
- 2018-present Mentoring Committee for Dr. Roseann Wu, Department of Pathology
- 2019 "Ultrasound Evaluation of Renal Transplants (us)"Radiology after hours acute diagnoses on evenings and weekends, Nassau, Bahamas
- 2019 "Ultrasound in OB/GYN Emergencies (us)"Radiology after hours acute diagnoses on evenings and weekends, Nassau, Bahamas
Department of Radiology Diagnostic Imaging Seminar
- 2019 Update of Thyroid FNA Indications (US) Diagnostic Imaging on Cape Cod-Chatham, Massachusetts
Department of Radiology Diagnostic Imaging Seminar
- 2019 "Acute Scrotal Pain: Pearls and Pitfalls (US)"Radiology after hours acute diagnoses on evenings and weekends, Nassau, Bahamas
- 2019 Thyroid FNA: What the Radiologist Needs to Know (US)
Diagnostic Imaging on Cape Cod-Chatham, Massachusetts
Department of Radiology Diagnostic Imaging Seminar
- 2019 Ultrasound Challenging Cases (US) Diagnostic Imaging on Cape Cod-Chatham, Massachusetts
Department of Radiology Diagnostic Imaging Seminar
- 2019 "Ultrasound of Ectopic Pregnancy: Here, there and everywhere (us)"Radiology after hours acute diagnoses on evenings and weekends, Nassau, Bahamas
- 2019 Challenges of Neck Sonography (US) Diagnostic Imaging on Cape Cod-Chatham, Massachusetts
Department of Radiology Diagnostic Imaging Seminar
- 2019 Pelvic Sonography: Diagnosing the Subtle Abnormalities (US)
Diagnostic Imaging on Cape Cod-Chatham, Massachusetts
- 2019 TI-RADS and Thyroid Cancer Detection (US) Hamilton, Bermuda
Department of Radiology Diagnostic Imaging Seminar
- 2019 Ovarian Cancer Screening (US) Hamilton, Bermuda
Department of Radiology Diagnostic Imaging Seminar
- 2019 Prostate Cancer Update(MR,US) Hamilton, Bermuda
Department of Radiology Diagnostic Imaging Seminar
- 2022 Program Director

- University of Pennsylvania Medical Center, Department of Radiology Diagnostic Imaging Seminar
Martha's Vineyard, MA
- 2022 "Update of Thyroid FNA indications"
University of Pennsylvania Medical Center, Department of Radiology Diagnostic Imaging Seminar
Martha's Vineyard, MA
- 2022 "Diffuse Thyroid Disease"
University of Pennsylvania Medical Center, Department of Radiology Diagnostic Imaging Seminar
Martha's Vineyard, MA
- 2022 "O-RADS or Oh My"
University of Pennsylvania Medical Center, Department of Radiology Diagnostic Imaging Seminar
Martha's Vineyard, MA
- 2022 "Thyroid FNA-What the Radiologist Needs to Know"
University of Pennsylvania Medical Center, Department of Radiology Diagnostic Imaging Seminar
Martha's Vineyard, MA

Lectures by Invitation:

- Mar, 2003 "The Role of Ultrasound In the Diagnosis and Management of Thyroid Cancer."
Greater Delaware Ultrasound Society
Thomas Jefferson University Hospital
Philadelphia, PA
- May, 2003 "Diagnostic Imaging for the Adolescent Patient"
North American Society for Pediatric and Adolescent Medicine
Issues and Answers In Pediatric and Adolescent Gynecology
Seventh Annual Clinical Meeting
Philadelphia, PA
- Jun, 2003 "The Role of Ultrasound In the Detection of Thyroid Cancer"
Meet-the-Professor Session
Congress of the World Federation for Ultrasound In Medicine and Biology/American Institute of Ultrasound In Medicine
Montreal, Canada
- Jun, 2003 "Emergency Analysis of Abdominal Complaints"
Symposium: Topics In Emergency Ultrasound
Emergency Ultrasound Categorical Course
Congress of the World Federation for Ultrasound In Medicine and Biology/American Institute of Ultrasound In Medicine
Montreal, Canada
- Oct, 2003 Thyroid Sonography Workshop
The Endocrine Society
Miami Beach, Florida
- Mar, 2004 "Imaging of Scrotal Pain" Abdominal Radiology Course The Society

- of Gastrointestinal Radiologists and The Society of Uroradiology
Annual Meeting Scottsdale, Arizona
- Jun, 2004 "Acute Pelvic Pain In the Non-Pregnant Female"
Symposium: Topics In Emergency Ultrasound
Emergency Ultrasound Categorical Course
American Institute of Ultrasound In Medicine Annual Meeting
Phoenix, Arizona
- Sep, 2004 "Ultrasound Evaluation of Thyroid Nodules"
Greater Delaware Ultrasound Society
Thomas Jefferson University Hospital
Philadelphia, PA
- Dec, 2004 "Problem Solving in the Female Pelvis"
RSNA Refresher Course
RSNA Scientific Assembly and Annual Meeting
Chicago, IL
- Jun, 2005 "Acute Scrotal Pain"
Symposium: Topics In Emergency Ultrasound
Emergency Ultrasound Categorical Course
American Institute of Ultrasound In Medicine Annual Meeting
Orlando, Florida
- Oct, 2005 Thyroid Sonography Workshop
The Endocrine Society
Toronto, Canada
- Nov, 2005 "The adnexal mass; making a more specific diagnosis"
RSNA Refresher Course
RSNA Scientific Assembly and Annual Meeting
Chicago, IL
- Dec, 2005 "Thyroid Nodules: Indications for US-guided FNA"
RSNA Refresher Course
RSNA Scientific Assembly and Annual Meeting
Chicago, IL
- Mar, 2006 "Gynecologic Emergencies" Preconvention Course American
Institute of Ultrasound In Medicine Annual Meeting Washington,
DC
- Mar, 2006 "The Sonographic Assessment of Thyroid Cancer"
Meet-the-Professor Session American Institute of Ultrasound In
Medicine Annual Meeting Washington, DC
- Apr, 2006 "Sonographic Assessment of Thyroid Nodules"
Blue Ribbon Lecture
Philadelphia Roentgen Ray Society Meeting
Philadelphia, PA
- May, 2006 "Emergency Obstetrical Ultrasound"
"Adnexal Masses"
"The Fetal Thorax"
The Leading Edge In Diagnostic Ultrasound
Jefferson Medical College

- Atlantic City, NJ
- Oct, 2006 "Should all thyroid nodules larger than 1 cm under FNA?" The American Thyroid Association Annual Meeting Phoenix, Arizona
- Oct, 2006 "Approach to Adnexal Masses"
"Superpanel: Controversial Findings and Management Issues In Gynecologic Ultrasound"
The Society of Radiologists In Ultrasound Annual Meeting San Francisco, California
- Nov, 2006 "Thyroid Nodules: Indications for US-guided FNA" RSNA Refresher Course RSNA Scientific Assembly and Annual Meeting Chicago, IL
- Nov, 2006 "Acute Pelvic Pain" RSNA Refresher Course RSNA Scientific Assembly and Annual Meeting Chicago, IL
- Mar, 2007 "Pelvic Pain: A Multimodality Approach" Categorical Course "Sonography of the Scrotum", "Sonography of the Thyroid" Medical Student Curriculum American Institute of Ultrasound In Medicine Annual Meeting New York, NY
- Apr, 2007 "Emergency Sonography of the Scrotum" Abdominal Radiology Course The Society of Gastrointestinal Radiologists and The Society of Uroradiology Annual Meeting Bonita Springs, Florida
- May, 2007 "First Trimester Complications", "Fetal Therapy: Sonographic diagnosis and prognosis" The Leading Edge In Diagnostic Ultrasound Jefferson Medical College Atlantic City, NJ
- Oct, 2007 "Sonography of the Postoperative Neck" The American Thyroid Association Annual Meeting New York, NY
- Oct, 2007 "Abnormal Uterine Bleeding", "Unknown Case of the Day Presentation"
The Society of Radiologists In Ultrasound Annual Meeting Chicago, IL
- Nov, 2007 "Acute Pelvic Pain" RSNA Refresher Course RSNA Scientific Assembly and Annual Meeting Chicago, IL
- Nov, 2007 "Thyroid Nodules: Indications for US-guided FNA" RSNA Refresher Course RSNA Scientific Assembly and Annual Meeting Chicago, IL
- Nov, 2007 "Adnexal masses" RSNA Refresher Course RSNA Scientific Assembly and Annual Meeting Chicago, IL
- Feb, 2008 "Thyroid Nodules in Children" Division Conference Children's Hospital of Philadelphia Philadelphia, PA
- Feb, 2008 "Unusual Ectopic Pregnancies" Abdominal Radiology Course, The Society of Gastrointestinal Radiologists and The Society of Uroradiology Annual Meeting Rancho Mirage, CA
- Mar, 2008 "The Epidemic of Thyroid Nodules: When is Biopsy Indicated?" Washington DC Radiologic Society Guest Speaker Washington DC
- Apr, 2008 "FNA of Thyroid Nodules" Grand Rounds Lecture New York University Medical Center New York, NY
- May, 2008 "Obstetrical Emergencies" South Jersey Healthcare Ultrasound

- OB/GYN Update Vineland, NJ
- Oct, 2008 "Thyroid Sonography in Clinical Practice" The American Thyroid Association Annual Meeting Chicago, IL
- Oct, 2008 "Thyroid and Parathyroid Sonography" The Society of Radiologists In Ultrasound Annual Meeting Philadelphia, PA
- Dec, 2008 "Thyroid Nodules: Imaging and Evaluation" RSNA Refresher Course RSNA Scientific Assembly and Annual Meeting Chicago, IL
- Mar, 2009 "Imaging the Pregnant Patient" Approved Self Assessment Module "Adnexal Masses: Making a More Specific Diagnosis" Meet the Professor Workshop, "Diagnosis of Ectopic Pregnancy", Plenary Session
Abdominal Radiology Course, The Society of Gastrointestinal Radiologists and The Society of Uroradiology Annual Meeting Maui, Hawaii
- Mar, 2009 "Which Thyroid Nodules Should Undergo FNA?", "Sonography of the Postoperative Neck" Milton S. Hershey Medical Center Penn Sate University Hershey, PA
- Apr, 2009 "Sonography of the Cervix and Placenta" American Institute of Ultrasound In Medicine Annual Meeting, New York, NY
- May, 2009 "Ultrasound of Adnexal Masses" American Roentgen Ray Society Annual Meeting Boston, MA
- May, 2009 "Which Thyroid Nodules Should Undergo FNA?" New York-Presbyterian Hospital
Columbia University Medical Center New York, NY
- Dec, 2009 "Thyroid Nodules: Imaging and Evaluation" RSNA Refresher Course, RSNA Scientific Assembly and Annual Meeting, Chicago, IL
- Dec, 2009 "The Sonography of Complicated Twin Pregnancies", Brigham and Women's Hospital, Boston, MA
- Dec, 2009 "The Sonography of Complicated Twin Pregnancies", Massachusetts General Hospital, Boston, MA
- Jan, 2010 Grand Rounds - "The Sonography of Complicated Twin Pregnancies", Grand Rounds, Department of Radiology University of Pennsylvania Medical Center
- Feb, 2010 "Imaging the Pregnant Patient" Approved Self Assessment Module Abdominal Radiology Course, The Society of Gastrointestinal Radiologists and The Society of Uroradiology Annual Meeting
- Jul, 2010 "Nodular Thyroid Disease", "Diffuse Thyroid Disease", "Approach to the Multinodular Goiter", Panel Discussion-Thyroid Microcarcinomas Co-course Director AIUM Thyroid and Parathyroid Ultrasound Imaging and Update on Thyroid Disorders Las Vegas, NV
- Oct, 2010 "Thyroid and Parathyroid Sonography", Society of Radiologists in Ultrasound Annual Meeting And Postgraduate Course, Las Vegas, NV
- Nov, 2010 "Thyroid and Parathyroid Sonography", RSNA Refresher Course

- Dec, 2010 RSNA Scientific Assembly and Annual Meeting, Chicago, IL
"Acute Scrotal Pain", RSNA Refresher Course, RSNA Scientific Assembly and Annual Meeting, Chicago, IL
- Jan, 2011 "The Role of Sonography in Detecting Thyroid Cancer", "The Sonography of Complicated Twin Pregnancies" New York-Presbyterian Hospital, Columbia University Medical Center, New York, NY
- Mar, 2011 "Obstetrical Emergencies", "Diagnostic dilemmas in Adnexal Imaging"
Abdominal Radiology Course, The Society of Gastrointestinal Radiologists and The Society of Uroradiology Annual Meeting, Carlsbad, CA
- Apr, 2011 "Unusual Ectopic Pregnancies", "The Imaging Findings of Non-Fetal Emergencies", "Thyroid Nodules: Which should undergo FNA?"
"Characterization of Adnexal masses: is a specific diagnosis possible by Sonography?", Sociedad Radiologica de Puerto Rico/ and the American College of Radiology Annual Meeting, San Juan, Puerto Rico
- Apr, 2011 "SRU Criteria for Thyroid FNA", American Institute of Ultrasound In Medicine Annual Meeting, New York, NY
- Aug, 2011 "Diffuse Thyroid Disease", "Cervical Lymph Nodes", "Approach to the Multinodular Goiter", "Case Management Discussions; Thyroid Nodule and Thyroid Cancer", American Association of Clinical Endocrinologists and American Institute of Ultrasound in Medicine Post Graduate Course, Chicago, IL
- Oct, 2011 "Management Issues in Thyroid and Parathyroid Sonography", Society of Radiologists in Ultrasound Annual Meeting And Postgraduate Course, Chicago, IL
- Nov, 2011 Thyroid Sonography, RSNA Refresher Course RSNA Scientific Assembly and Annual Meeting, Chicago, IL
- Mar, 2012 "Sonographic Characterization of Neck Nodes", "Imaging of Extraovarian Adenxal Lesions", American Institute of Ultrasound In Medicine Annual Phoenix, AZ
- Jun, 2012 Lecture - Third Focus on Thyroid Cancer; "Thyroid Nodules: Ultrasound images, what do they tell us", "Ultrasound: How to use it to examine the neck after surgery", Abramson Cancer Center, Philadelphia, PA June 8, 2012
- Aug, 2012 "Nodular Thyroid Disease", "Diffuse Thyroid Disease", "Cervical Lymph Nodes", "Approach to the Multinodular Goiter", "Panel Discussions: Management of Minimal Thyroid Cancer", "Neck Sonography and Fine Needle Aspiration-Practical Issues", American Association of Clinical Endocrinologists and American Institute of Ultrasound in Medicine Post Graduate Course, Las Vegas, NV
- Mar, 2013 "Cystic Adnexal Masses; Diagnosis and Management"

- Radiologic Society of New jersey
Body Imaging Symposium
Livingston, NJ
- Apr, 2013 "Gene Expression Testing Obtained by Ultrasound-guided Fine-Needle Aspiration: Indications and Implications for Diagnosis"
New York Presbyterian Hospital Columbia University Medical Center New York, NY
- Jul, 2013 "Diffuse Thyroid Disease" the Second World Congress on Thyroid Cancer international meeting, Toronto, Canada
- Sep, 2013 "Diffuse Thyroid Abnormalities"
American Association of Clinical Endocrinologists and American Institute of Ultrasound in Medicine Post Graduate Course
Las Vegas, NV
- Sep, 2013 "New AIUM Guidelines for Thyroid Ultrasound"
American Association of Clinical Endocrinologists and American Institute of Ultrasound in Medicine Post Graduate Course
Las Vegas, NV
- Sep, 2013 "Ultrasound and Nuclear Medicine Correlation"
American Association of Clinical Endocrinologists and American Institute of Ultrasound in Medicine Post Graduate Course
Las Vegas, NV
- Oct, 2013 "Nodal disease: Clinical perspective"
Society of Radiologists in Ultrasound Annual Meeting And Postgraduate Course
Chicago, IL
- Dec, 2013 "Essentials in Ultrasound: Thyroid Sonography"
RSNA Refresher Course
RSNA Scientific Assembly and Annual Meeting
Chicago, IL
- Dec, 2013 "How to Diagnose Thyroid Cancer "
RSNA Refresher Course
RSNA Scientific Assembly and Annual Meeting
Chicago, IL
- Mar, 2014 "Which Thyroid Nodules Should Undergo FNA"
- Radiologic Society of New Jersey
Body Imaging Symposium
Livingston, NJ
- Mar, 2014 "Diffuse Thyroid Disease"
- Radiologic Society of New Jersey
Body Imaging Symposium
Livingston, NJ
- Mar, 2014 "Scrotal Sonography"
Radiologic Society of New Jersey

- Body Imaging Symposium
Livingston, NJ
Mar, 2014 "The Sonographic Evaluation of Abnormal Uterine Bleeding"
- Radiologic Society of New Jersey
Body Imaging Symposium
Livingston, NJ
May, 2014 " Sonography of Complicated Twin Pregnancies"
- LA Radiological Society Annual Spring Diagnostic Ultrasound
Conference
Pasadena, CA
May, 2014 "Sonography of fetal CNS Abnormalities"
- LA Radiological Society Annual Spring Diagnostic Ultrasound
Conference
Pasadena, CA
May, 2014 "Uterine Sonography"
- LA Radiological Society Annual Spring Diagnostic Ultrasound
Conference
Pasadena, CA
May, 2014 "Unusual Ectopic Pregnancies"
- LA Radiological Society Annual Spring Diagnostic Ultrasound
Conference
Pasadena, CA
Jun, 2014 "Ultrasound Imaging of Thyroid Nodules"
- Advanced Thyroid Ultrasound Workshop
16th International Congress of Endocrinology/ Endocrine Society
Assembly Annual Meeting
Chicago, IL
Jun, 2014 "Optimization of Ultrasound Imaging"
- Advanced Thyroid Ultrasound Workshop
16th International Congress of Endocrinology/ Endocrine Society
Assembly Annual Meeting
Chicago, IL
Oct, 2014 "Ultrasound Imaging of Thyroid Nodules"
- American Society of Clinical Pathologists Annual Meeting
Tampa, FL
Oct, 2014 "The Role of genetic Testing in the Evaluation of Thyroid Nodules"
- Society of Radiologists in Ultrasound Annual Meeting
And Postgraduate Course
Denver, CO
Oct, 2014 "Optimization of Ultrasound Imaging"
- American Society of Clinical Pathologists Annual Meeting
Tampa, FL
Dec, 2014 "Essentials in Ultrasound: Thyroid Sonography"

RSNA Refresher Course

- Dec, 2014 How to Diagnose Thyroid Cancer
RSNA Scientific Assembly and Annual Meeting
Chicago, IL
"How to Diagnose Thyroid Cancer"
- Feb, 2015 RSNA Refresher Course
How to Diagnose Thyroid Cancer
RSNA Scientific Assembly and Annual Meeting
Chicago, IL
"Emergency Radiology"
Philadelphia Roentgen Ray Society Blue Ribbon Speaker,
Philadelphia PA
- Mar, 2015 "Ultrasound Imaging of Thyroid Nodules"
Advanced Thyroid Ultrasound Workshop
Endocrine Society Assembly Annual Meeting
San Diego
- May, 2015 "Thyroid Nodules: Sonographic Analysis of Malignant and Benign
Features"
American College of Radiology Annual Meeting
Washington, DC
- May, 2015 "Case-based Presentation: Microcarcinomas and Cervical Nodes."
American College of Radiology Annual Meeting
Washington, DC
- Oct, 2015 "Diffuse throid Disease"
Grand Rounds Speaker, Division of Endocrinology
Perelman School of medicine
- Dec, 2015 "Essentials in Ultrasound: Thyroid Sonography"
- Dec, 2015 RSNA Refresher Course
RSNA Scientific Assembly and Annual Meeting
Chicago, IL
"Molecular Testing of Thyroid Nodules "
- Jan, 2016 RSNA Refresher Course
RSNA Scientific Assembly and Annual Meeting
Chicago, IL
"New guidelines for thyroid FNA "
Ground Rounds Speaker
Christiana Hospital Department of Radiology
Newark, DE
- Feb, 2016 "Diffuse Thyroid Disorders"
Management of Advanced Thyroid Cancer and Update in
Thyroid/Parathyroid Imaging
Abramson Cancer Center
Perelman School of Medicine at the University of Pennsylvania
- Feb, 2016 "Challenges in Thyroid Sonography"

- Management of Advanced Thyroid Cancer and Update in
Thyroid/Parathyroid Imaging
Abramson Cancer Center
Perelman School of Medicine at the University of Pennsylvania
- Feb, 2016 "Ectopic Pregnancy"
OB/GYN Resident Rounds Guest Speaker
University of Pennsylvania
- Sep, 2016 "Update on Recommendations for Thyroid FNA"
- Sep, 2016 Society for Diagnostic Medical Sonographers National Meeting
Orlando, Florida
"Diffuse Thyroid Disease"
Society for Diagnostic Medical Sonographers National Meeting
Orlando, Florida
- Oct, 2016 "The Role of genetic Testing in the Evaluation of Thyroid Nodules"
Society of Radiologists in Ultrasound Annual Meeting
And Postgraduate Course
Baltimore, MD
- Nov, 2016 "Molecular Testing of Thyroid Cancer"
RSNA Scientific Assembly and Annual Meeting
Chicago, IL
- Feb, 2017 "Challenges in Neck Sonography"
Philadelphia Endocrine Society
Thomas Jefferson University
Philadelphia PA
- Apr, 2017 "Update on Thyroid FNA"
"Diffuse Thyroid Disease"
Jon Meilstrup Annual Memorial Ultrasound Lecture
Milton S Hershey School of Medicine
- May, 2017 Sonography of Cervical Lymph Nodes ACR Annual Meeting,
Washington DC
- Jul, 2017 "Update on TI-RADS" National Medical Association Annual
Meeting, Philadelphia PA
- Jul, 2017 "Thyroid Sonography" Robert Sofferman, MD Memorial Advanced
Thyroid Ultrasound Course, 3rd World Congress on Thyroid Cancer,
Boston, MA
- Oct, 2017 "Head and Neck Ultrasound," Society of Radiologists in Ultrasound
Annual Meeting and Postgraduate Course, Chicago, IL
- Nov, 2017 "Molecular Testing of Thyroid Cancer"
RSNA Scientific Assembly and Annual Meeting
Chicago, IL
- Dec, 2017 "Thyroid Nodules"
RSNA Scientific Assembly and Annual Meeting
Chicago, IL
- Feb, 2018 "Parathyroid Ultrasound," International Thyroid/Parathyroid US
Course, Hillel Yaffe Medical Center, Hadera, Israel

- Feb, 2018 "Basic US Physics," International Thyroid/Parathyroid US Course, Hillel Yaffe Medical Center, Hadera, Israel
- Feb, 2018 "Thyroid Nodules," International Thyroid/Parathyroid US Course, Hillel Yaffe Medical Center, Hadera, Israel
- Apr, 2018 "Problem Solving in Gynecologic Ultrasound," American Roentgen Ray Society Annual Meeting, Washington, DC
- Apr, 2018 "Which thyroid nodules should undergo FNA?" Grand Rounds, Visiting Professor, University of Vermont Medical Center
- Sep, 2018 "Challenges in Thyroid Sonography," Grand Rounds, Division of Endocrinology, Dept. of Medicine, Univ. of PA school of Medicine
- Oct, 2018 "Challenges in using TI-RADS", Society of Radiologists in Ultrasound Post Graduate course and National Meeting, San Diego, CA
- Nov, 2018 "Adnexal Torsion" Grand Rounds Speaker, Dept of OB/GYN, University of PA School of Medicine
- Nov, 2018 "Molecular Testing of Thyroid Nodules" RSNA Scientific Assembly and Annual Meeting Chicago, IL
- Mar, 2019 "Ultrasound Principles: Optimizing Image Acquisition" Hands-On Ultrasound Thyroid Workshop, Endocrine Society, New Orleans, LA
- Mar, 2019 "Pre-Operative Imaging Panel" American Thyroid Association Spring Satellite Symposium, New Orleans, LA
- Mar, 2019 "ATA vs ACR Ti-RADS" American Thyroid Association Spring Satellite Symposium, New Orleans, LA
- May, 2019 "Update on TI-RADS" Visiting Professor Department of Radiology Columbia University School of Medicine New York, NY
- May, 2019 "Update on TI-RADS" Grand Rounds Endocrinology Division Columbia University School of Medicine New York, NY
- May, 2019 "Incorporating TI-RADs Advances into Practice" American Roentgen Ray Society Annual Meeting Honolulu, HI
- Sep, 2019 "Pitfalls in Parathyroid Ultrasound," The Second International Thyroid/Parathyroid US Course, Hillel Yaffe Medical Center, Hadera, Israel
- Sep, 2019 "Sonographic classification systems; navigating how to interpret your images" The Second International Thyroid/Parathyroid US Course, Hillel Yaffe Medical Center, Hadera, Israel
- Oct, 2019 Non-Ovarian GYN Malignancy: What role does the radiologist

	play? (US) Hamilton, Bermuda
Oct, 2019	"Which incidentally-detected nodules should undergo FNA?" New York Roentgen Society Annual Meeting, New York, NY
Dec, 2019	"Molecular Testing of Thyroid Nodules" RSNA Scientific Assembly and Annual Meeting Chicago, IL
Oct, 2020	"Challenges in Thyroid Nodule Characterization" Society of Radiologists in Ultrasound National Meeting
Oct, 2020	"ACR Thyroid Imaging, Reporting and Data System (TI-RADS): The Radiologist's Approach to Assessing Cancer Risk Based on Sonographic Appearance" Abramson Cancer Center Webinar
Jan, 2021	"Thyroid Nodule Characterization" Penn Radiology CME Course; Hot Topics in Breast and Body Imaging
Jan, 2021	"Diffuse Thyroid Disease" Penn Radiology CME Course; Hot Topics in Breast and Body Imaging
Jan, 2021	"Applying TI-RADS" Penn Radiology CME Course; Hot Topics in Breast and Body Imaging
Jan, 2021	"Management of Adnexal Mass Lesions" Penn Radiology CME Course; Hot Topics in Breast and Body Imaging
Feb, 2021	"Challenges in thyroid nodule characterization" The American Thyroid Association National Meeting- The Year in Thyroidology
Apr, 2021	ACR TI-RADS: Tips and Challenges in Thyroid Nodule Characterization, ARRS Virtual meeting
Apr, 2021	Uterus: Inside to Outside, ARRS Virtual Meeting
Oct, 2021	"Acute Pelvic Pain" Hot Topics in Ultrasound and Point-of-Care Ultrasound from Radiology and the Emergency Room Mid-Atlantic Permanente Medical Group Annual Radiology Conference (Virtual Meeting)
Oct, 2021	"The Radiologist's approach to assessing cancer risk in thyroid nodules" The Abramson Cancer Center at the Perelman School of Medicine at the University of Pennsylvania
Nov, 2021	"Ectopic Pregnancy" RSNA Scientific Assembly and Annual Meeting, Chicago, IL
Mar, 2022	"TI-RADS and challenges in thyroid nodule characterization" DC Metropolitan Radiology Society Meeting (Virtual Meeting)
Jul, 2022	"Update of Thyroid FNA indications" "Diffuse Thyroid Disease" "Thyroid FNA: What the radiologist needs to know" "O-RADS or Oh my" 42nd Annual Diagnostic Imaging, Martha's Vineyard, MA
Oct, 2022	"Diffuse Thyroid Disease" Society of Radiologists in Ultrasound Annual Meeting, Phoenix, AZ
Nov, 2022	"First Trimester OB Emergencies" RSNA, Chicago, IL
Dec, 2022	"Subtleties in Uterine Sonography" "Sonography of Adnexal Masses" National Diagnostic Imaging Symposium, Orlando FL
Mar, 2023	Updates in Thyroid Nodules Management for the Primary Care

	Provider
	Webinar for Penn Medicine Health System Endocrine Service Line
Mar, 2023	"Scrotal Sonography: Pearls and Pitfalls" Penn Radiology Spring Imaging Update: Pearls, Pitfalls, & Protocols Orlando, FL
Mar, 2023	"RUQ pain: More than just gallstones" Penn Radiology Spring Imaging Update: Pearls, Pitfalls, & Protocols Orlando, FL
Mar, 2023	Ectopic Pregnancy: Usual and Unusual Suspects Penn Radiology Spring Imaging Update: Pearls, Pitfalls, & Protocols Orlando, FL
Mar, 2023	"Chronic Pelvic Pain" Penn Radiology Spring Imaging Update: Pearls, Pitfalls, & Protocols Orlando, FL
Mar, 2023	"Parathyroid Imaging: What the Surgeon Needs to Know" Penn Radiology Spring Imaging Update: Pearls, Pitfalls, & Protocols Orlando, FL
Mar, 2023	"Challenges in Thyroid Nodule Characterization" Penn Radiology Spring Imaging Update: Pearls, Pitfalls, & Protocols Orlando, FL
Jul, 2023	"Sonography of the uterus: maximizing your 16 shades of grey " 43rd Annual Diagnostic Imaging: The Maine Attraction Rockport, Maine
Jul, 2023	"O-RADS: OK or Oh my- not another RADS" 43rd Annual Diagnostic Imaging: The Maine Attraction Penn Radiology Department Rockport, Maine
Jul, 2023	"Ectopic Pregnancy: usual and unusual suspects" 43rd Annual Diagnostic Imaging: The Maine Attraction Penn Radiology Department Rockport, Maine
Jul, 2023	"Diffuse Thyroid Disease" 43rd Annual Diagnostic Imaging: The Maine Attraction Penn Radiology Department Rockport, Maine
Jul, 2023	"Thyroid Nodule Characterization" 43rd Annual Diagnostic Imaging: The Maine Attraction Penn Radiology Department Rockport, Maine
Sep, 2023	"Value and Limitations of Sonographic Assessment of Thyroid Nodules." American Thyroid Association Annual Meeting. Washington DC
Nov, 2023	"O-RADS: Standardizing Reporting of Adnexal Lesions on

Sonography"
University of Maine Radiology Grand Rounds

Organizing Roles in Scientific Meetings:

2003	Liaison, American Medical Association Women's Physician Congress
	Society of Radiologists in Ultrasound:
2004	Categorical Course Program Chair, Emergency Section
	American Institute of Ultrasound in Medicine:
2004	Consensus Panel for Recommendation for Thyroid FNA
	Society of Radiologists in Ultrasound
2005	Committee, Annual Meeting Program
	Society of Radiologists in Ultrasound:
2005	Chair, Scientific Session
	American Institute of Ultrasound in Medicine:
2006	Co-chair, Women's Imaging Section Program
	Society of Radiologists in Ultrasound:
2006	Case of the Day Chair,
	Society of Radiologists in Ultrasound:
2007	Committee, "Standard of Practice Guidelines for Thyroid FNA"
	National Institutes of Health/National Cancer Institute
2010	Co-Course Director, AIUM/AACE Postgraduate Course: Thyroid and Parathyroid Ultrasound Imaging and Update on Thyroid Disorders
	American Institute of Ultrasound in Medicine
2011	Co-Course Director, AIUM/AACE Postgraduate Course: Thyroid and Parathyroid Ultrasound Imaging and Update on Thyroid Disorders
	American Institute of Ultrasound in Medicine
2012	Co-Course Director, AIUM/AACE Postgraduate Course: Thyroid and Parathyroid Ultrasound Imaging and Update on Thyroid Disorders
	American Institute of Ultrasound in Medicine
Sep, 2013	Co-Course Director, American Association of Clinical Endocrinologists and American Institute of Ultrasound in Medicine Post Graduate Course
	Las Vegas, NV
Oct, 2014	Program Committee and Plenary Session Moderator, Society of Radiologists in Ultrasound Annual Meeting
	Denver, CO
2014	ACR Thyroid Incidental Committee, Nuclear Medicine Committee Chair
	Meeting via Web ex throughout the year
May, 2015	Program Chair for Special Focus Topic
	Thyroid Nodules: Managing the Epidemic
	American College of Radiology Annual Meeting

	Washington, DC
Oct, 2015	Program Committee and Plenary Session Moderator, Society of Radiologists in Ultrasound Annual Meeting Chicago, IL
Nov, 2015	How To Do It: Thyroid Sonography Categorical Course RSNA Scientific Assembly and Annual Meeting Chicago, IL
2015	ACR TI-RADS Committee Web Ex meetings
Jul, 2016	Course Director, University of Pennsylvania Medical Center, Department of Radiology Diagnostic Imaging Seminar Chatham, MA
Nov, 2016	Course Director, Penn CME Palm Beach, FL
Nov, 2016	How to Do It: Thyroid Sonography Categorical Course RSNA Scientific Assembly and Annual Meeting Chicago, IL
Jul, 2017	Course Director, Diagnostic Imaging; Back to the Vineyard, University of Pennsylvania Department CME Course, Martha's Vineyard, MA Martha's Vineyard, MA
Nov, 2017	Course Director: How to Do It: Thyroid Sonography Categorical Course RSNA Scientific Assembly and Annual Meeting Chicago, IL
Jul, 2018	Course Director, Diagnostic Imaging, University of Pennsylvania Department CME Course, Chatham, MA
Nov, 2018	Course Director, Diagnostic Imaging, University of Pennsylvania Department CME Course San Juan, Puerto Rico
Nov, 2018	Course Director: How to Do It: Thyroid Sonography Categorical Course RSNA Scientific Assembly and Annual Meeting Chicago, IL
2018	AIUM-ACR-SPR-SRU Practice Parameter for the Performance and Interpretation of a Diagnostic Ultrasound Examination of the Extracranial Head and Neck Committee Web-Based
Mar, 2019	American Thyroid Association Spring Symposium Planning Committee
Nov, 2019	Endocrine Society National Meeting, New Orleans, LA Course Director: How to Do It: Thyroid Sonography Categorical Course

	RSNA Scientific Assembly and Annual Meeting Chicago, Il
2019	American Thyroid Association Nodule Guidelines Task Force Member, Chair for Sonographic Appearance Sub-Committee Virtual Meetings
2020	American Thyroid Association Nodule Guidelines Task Force Member, Chair for Sonographic Appearance Sub-Committee Virtual
Jan, 2021	Course Co-Director of Penn Radiology CME Course; Hot Topics in Breast and Body Imaging Virtual
2021	American Thyroid Association Nodule Guidelines Task Force Member, Chair for Sonographic Appearance Sub-Committee Virtual
Oct, 2022	Program Planning Committee, Head and Neck Section Subcommittee Co-chair Society of Radiologists in Ultrasound Annual Meeting, Phoenix, Arizona
Nov, 2022	RadioGraphics Ultrasound Review Panel RSNA meeting and virtual
2022	American Thyroid Association Nodule Guidelines Task Force Member, Chair for Sonographic Appearance Sub-Committee Virtual
Oct, 2023	Moderator for Sonography of Thyroid Abstract Session, Society of Radiologists in Ultrasound Annual Meeting Washington, DC
Nov, 2023	RadioGraphics Ultrasound Review Panel RSNA meeting and virtual
2023	American Thyroid Association Nodule Guidelines Task Force Member, Chair for Sonographic Appearance Sub-Committee Virtual
2023	ACR TI-RADS Committee Virtual

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Research Publications, peer reviewed (print or other media):

1. Levine MS, Langer JE, Laufer I, Kligerman MM. : Radiation therapy of esophageal carcinoma: Correlation of clinical and radiographic findings. Gastrointestinal Radiology 12: 99-105, 1987.
2. Langer JE, Velchik MG.: Rapid resolution of massive pulmonary embolism due to

- streptokinase therapy: Documented by ventilation/perfusion imaging. Clinical Nuclear Medicine 13: 874-877, 1988 Notes: Case report.
3. Fogarty KT, Arger PH, Shibutani Y, Nodine CF, Tomaszewski JE, Coleman BG, Jacobs JE, Langer JE, Wein AJ. : Follow-up of benign hypoechoic peripheral zone lesions of the prostate gland: ultrasound characterization and cancer prevalence. Radiology 191: 68-74, 1994.
 4. Jacobs JE, Coleman BG, Arger PH, Langer JE. : Focal fatty sparing of the pancreas. Radiology 190: 432-439, 1994.
 5. Kasales CJ, Langer JE. : Imaging findings of cervical lymphoma following treatment. Abdominal Imaging 19: 274-279, 1994 Notes: Case report.
 6. Gincherman Y, Langer JE, Miller L.: Concomitant sclerosing mesenteritic and inflammatory pseudotumor simulating gastric lymphoma or linutis plastica: report of a unique case and review of the literature. Journal of Surgical Oncology 59: 136-138. 1995 Notes: Case report.
 7. Kasales CJ, Arger PH, Nodine CF, Coleman BG, Langer JE, Jacobs JE. : Intra-uterine low density in women over fifty: an assessment of significance and recommendations for follow-up. Clinical Imaging 20: 194-198, 1996.
 8. Langer JE, Rovner ES, Coleman BG, Yin D, Arger PH, Jacobs JE, Nisenbaum HL, Rowling SE, Tomaszewski JE, Malkowicz SB, Wein AJ. : Prostatic rebiopsy patients previously diagnosed with prostate intraepithelial neoplasia (PIN). Urol 155: 228-231, 1996.
 9. Haskal ZJ, Carroll JW, Jacobs JE, Arger PH, Yin D, Coleman BG, Langer JE, Rowling SE, Nisenbaum HL.: Sonography of transjugular intrahepatic portosystemic shunts: detection of elevated portosystemic gradients and loss of shunt function. JVIR 8: 549-556, 1997.
 10. Rowling SE, Coleman BG, Langer JE, Arger PH, Nisenbaum HL, Horii SC.: Evaluation of first trimester US parameters of failed pregnancy. Radiology 203: 211-217. 1997.
 11. Angeid-Backman E, Coleman BG, Arger PH, Jacobs JE, Langer JE, Horii SC. : Comparison of resistive index versus pulsatility index in assessing the benign etiology of adnexal masses. Clinical Imaging (4):(22): 284-291, 1998.
 12. Langer JE, Ramchandani P, Siegelman ES, Banner MP. : Epidermoid cysts of the testicle: sonographic and MR imaging features. AJR 173: 1295-1299, 1999.
 13. Lev-Toaff AS, Langer JE, Rubin DL, Zelch JV, Chong WK, Barone AE, Goldberg

- BB. : The safety and efficacy of a new oral ultrasound contrast agent: a phase II trial. AJR 173: 431-436, 1999.
14. Rowling SE, Langer JE, Coleman BG, Nisenbaum HL, Horii SC, Arger PH.: Sonography during early pregnancy: dependence of threshold and discriminatory values on transvaginal transducer frequency. AJR 172: 983-988, 1999.
15. Baloch ZW, Tam D, Langer JE, Mandel S, LiVolsi VA, Gupta PK.: Ultrasound guided fine-needle aspiration biopsy of the thyroid: role of on-site assessment and multiple cytologic preparations. Diagn Cytopathol 23: 425-429, 2000.
16. Maki DD, Kumar N, Nguyen BT, Langer JE, Miller WT, Jr., Gefter WB. : Distribution of thrombi in acute lower extremity deep venous thrombosis: implications for US, CTV, and MRV. AJR 175: 1299-1301. 2000.
17. Langer JE, Kahn A, Nisenbaum HL, Coleman BG, Mandel S. : The sonographic appearance of focal thyroiditis. AJR 176: 751-754, 2001.
18. Baloch Z, Li Volsi V, Jain P, Jain R, Aljada I, Mandel SJ, Langer JE, Gupta P. : Role of repeat fine-needle aspiration biopsy (FNAB) in the management of thyroid nodules. Diagnostic Cytopathology 29: 203-206, 2003.
19. Kim MK, Mandel SJ, Baloch Z, Livolsi VA, Langer JE, Didonato L, Fish S, Weber RC. : Morbidity following central compartment reoperation for recurrent or persistent thyroid cancer. Arch Otolaryngol Head Neck Surg. 130: 1214-1216. 2004.
20. Langer JE, Luster E, Horii SC, Mandel SJ, Baloch ZW, Coleman BG. : Chronic Granulomatous lesions after thyroidectomy: Imaging findings. AJR 185: : 1350-1354, 2005.
21. Baloch ZW, Barroeta JE, Walsh J, Gupta PK, Livolsi VA, Langer JE, Mandel SJ. : Utility of thyroglobulin measurements In fine needle aspiration biopsies specimens of lymph nodes In the diagnosis of recurrent thyroids carcinoma. Cytojournal 5:: 1-14. 2008.
22. Anderson L, Middleton WD, Teefey, SA, Reading CC, Langer JE, Dresser T, Szabunio MM, Hildebolt CF, Mandel SJ, Cronan JJ.: Hashimoto thyroiditis: Part 1, sonographic analysis of the nodular form of Hashimoto thyroiditis. AJR 195:208-215, 2010.
23. Anderson L, Middleton WD, Teefey, SA, Reading CC, Langer JE, Dresser T, Szabunio MM, Mandel SJ, Hildebolt CF, Cronan JJ.: Hashimoto thyroiditis: Part 2, sonographic analysis of benign and malignant nodules in patients with diffuse Hashimoto thyroiditis. AJR 195:216-222, 2010.

24. Langer JE, Agarwal R, Zhuang H, Huang SS, Mandel SJ: Correlation of findings from iodine 123 scan and ultrasonography in the recommendation for thyroid fine-needle aspiration biopsy. Endocr Pract 17(5):699-706, 2011.
25. Langer JE, Agarwal R, Zhuang H, Huang SS, Mandel SJ.: Recommendations for Thyroid Nodule Fine Needle Aspiration Should Not be Based on I-123 Scan Without Sonographic Confirmation. Endocr Pract 17:699-706, 2011.
26. Sultan Laith R, Xiong Hui, Zafar Hanna M, Schultz Susan M, Langer Jill E, Sehgal Chandra M: Vascularity Assessment of Thyroid Nodules by Quantitative Color Doppler Ultrasound. Ultrasound in medicine & biology 41(5): 1287-93, May 2015.
27. Middleton William D, Teefey Sharlene A, Reading Carl C, Langer Jill E, Beland Michael D, Szabunio Margaret M, Desser Terry S: Multiinstitutional Analysis of Thyroid Nodule Risk Stratification Using the American College of Radiology Thyroid Imaging Reporting and Data System. AJR. American journal of roentgenology 208(6): 1-11, Apr 2017.
28. Oliver Edward R, Coleman Beverly G, DeBari Suzanne E, Victoria Teresa, Looney Devon M, Horii Steven C, Moldenhauer Julie S, Langer Jill E, Howell Lori J, Pawel Bruce R, Adzick N Scott: Fetal Lymphatic Malformations: More Variable Than We Think? Journal of ultrasound in medicine : official journal of the American Institute of Ultrasound in Medicine 36(5): 1051-1058, May 2017.
29. Wnorowski Amelia M, Cook Tessa S, Lalevic Darco, Langer Jill E, Zafar Hanna M: Outcome of liver lesions indeterminate for malignancy on ultrasound: the role of patient age, risk status, and lesion echogenicity. Abdominal Radiology (New York) Mar 2018.
30. Hoang Jenny K, Middleton William D, Farjat Alfredo E, Langer Jill E, Reading Carl C, Teefey Sharlene A, Abinanti Nicole, Boschini Fernando J, Bronner Abraham J, Dahiya Nirvikar, Hertzberg Barbara S, Newman Justin R, Scanga Daniel, Vogler Robert C, Tessler Franklin N: Reduction in Thyroid Nodule Biopsies and Improved Accuracy with American College of Radiology Thyroid Imaging Reporting and Data System. Radiology 287(1): 185-193, Apr 2018.
31. Samuels Stephanie L, Surrey Lea F, Hawkes Colin P, Amberge Madeline, Mostoufi-Moab Sogol, Langer Jill E, Adzick N Scott, Kazahaya Ken, Bhatti Tricia, Baloch Zubair, LiVolsi Virginia A, Bauer Andrew J: Characteristics of Follicular Variant Papillary Thyroid Carcinoma in a Pediatric Cohort. The Journal of clinical endocrinology and metabolism 103(4): 1639-1648, Apr 2018. PMID: PMC6436765
32. Gannon Anthony W, Langer Jill E, Bellah Richard, Ratcliffe Sarah, Pizza Jennifer, Mostoufi-Moab Sogol, Cappola Anne R, Bauer Andrew J: Diagnostic Accuracy

- of Ultrasound With Color Flow Doppler in Children With Thyroid Nodules. The Journal of clinical endocrinology and metabolism 103(5): 1958-1965, May 2018.
33. Middleton William D, Teefey Sharlene A, Reading Carl C, Langer Jill E, Beland Michael D, Szabunio Margaret M, Desser Terry S: Comparison of Performance Characteristics of American College of Radiology TI-RADS, Korean Society of Thyroid Radiology TIRADS, and American Thyroid Association Guidelines. AJR. American Journal of roentgenology 210(5): 1148-1154, May 2018.
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35. Habibollahi Peiman, Shamchi Sara Pourhassan, D'Almeida Julia, Weber Charles N, Langer Jill E, Nadolski Gregory J, Chauhan Anil: Predictive Value of Abnormal Findings on Covered Transjugular Intrahepatic Portosystemic Shunt Baseline Doppler Sonography. Ultrasound Quarterly Mar 2020.
36. Middleton WD, Teefey SA, Tessler FN, Hoang JK, Reading CC, Langer JE et al.: Analysis of malignant thyroid nodules that do not meet ACR TI-RADS criteria for fine-needle aspiration. American Journal of Roentgenology (AJR) 216: 1-8, February 2021.
37. Teefey SA, Middleton WD, Reading CA, Langer JE, Beland MD, Szabunio MM, Desser TS.: Effect of decreasing the ACR TI-RADS point assessment for punctate echogenic foci when they occur in mixed solid and cystic thyroid nodules. American Journal of Roentgenology (AJR) 216, February 2021.
38. Jasim S, Teefey SA, Baranski TJ, Coble DW, Jill E Langer JE et al.: Inclusion of Thyroid Nodule Location in ACR TI-RADS Scoring: Impact on System Performance. AJR Am J Roentgenol 217(3): 718, Sept 2021.
39. Kobaly K, Kim CS, Langer JE, Mandel S: Macrocalcifications Do Not Alter Malignancy Risk Within the American Thyroid Association Sonographic Pattern System When Present in Non-High Suspicion Thyroid Nodules. Thyroid 31(10): 1542-1548, Oct 2021.
40. Hoang JK, Middleton WD, Langer JE, Schmidt K, Gillis LB, Nair SS, Watts JA, Snyder RW 3rd, Khot R, Rawal U, Tessler FN.: Comparison of Thyroid Risk Categorization Systems and Fine-Needle Aspiration Recommendations in a Multi-Institutional Thyroid Ultrasound Registry. J Am Coll Radiol 18(12): 1605-1613, Dec 2021.
41. Alexis M, Ginzberg SP, Soegaard Ballester JM, Mandel SJ, Langer JE, Kelz RR, Wachtel H.: Assessing the Frequency of Deferrable Thyroid Nodule Biopsies to

De-escalate Low-Value Care. Endocr Pract.2023 Dec 29:S1530-891X(23)00795-4. doi: 10.1016/j.eprac.2023.12.015. Online ahead of print Dec 2023.

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1. Langer JE.: Ultrasound of the Scrotum. Seminars in Roentgenology 28: 5-18, 1993.
2. Horii SC, Feingold E, Coleman BG, Arger PH, Langer JE, Jacobs JE, Nisenbaum HL, Rowling SE, Seshadri S. : The use of miniPACS technology in ultrasound: the potential for productivity improvement. Proc SPIE Medical Imaging 2435: 257-262, 1995.
3. Langer JE, Jacobs JE. : High-resolution CT of the female pelvis: spectrum of normal appearances. Seminars in Roentgenology 31:: 267-278, 1996.
4. Langer JE. : The current role of transrectal ultrasonography in the evaluation of prostate carcinoma. Seminars in Roentgenology 34:: 284-294, 1999.
5. Langer JE. : CT and Ultrasound of Acute Renal Abnormalities. Seminars in Roentgenology 36:: 99-107, 2001.
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