

CURRICULUM VITAE

Levon N. Nazarian, MD, FAIUM, FACR

June 11, 2020

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Personal data:

Date of Birth: August 15, 1961
Place of Birth: Englewood, New Jersey
Marital Status: Married, three children

Education:

1986 M.D. Cornell University Medical College
1982 A.B. Harvard College, Magna cum Laude in Biology

Postdoctoral Training:

1991-1992 Fellowship in Body Imaging (US-CT-MRI), Thomas Jefferson University Hospital
1987-1991 Residency in Diagnostic Radiology, The New York Hospital-Cornell Medical Center
1986-1987 Internship in Internal Medicine, McGaw Medical Center - Northwestern University

Levon N. Nazarian, M.D.

Employment

2019-2004-	William E. Conrady, MD Professor of Radiology Vice Chairman for Education, Department of Radiology, Thomas Jefferson University Hospital
2002-1997-2002	Professor of Radiology, Thomas Jefferson University Hospital Associate Professor of Radiology, Thomas Jefferson University Hospital
1995-1997	Assistant Professor of Radiology, Thomas Jefferson University Hospital
1992-1995	Clinical Assistant Professor of Radiology, Thomas Jefferson University Hospital

Clinical Responsibilities

- 1) Ultrasound: musculoskeletal (Director), general, vascular, interventional
- 2) Body computed tomography

Licensure:

Pennsylvania State License MD 047204 L
New Jersey State License 25MA06697800

Board Certification:

1991	American Board of Radiology
1987	National Board of Medical Examiners

Awards and Honors:

2020	Distinguished Reviewer, <i>AJR</i>
2019	Investiture as the first William E. Conrady MD Professor of Radiology, Sidney Kimmel Medical College of Thomas Jefferson University
2019	Presidential Recognition Award of the American Institution of Ultrasound in Medicine
2018-2019	Mary Stuart Fisher MD Outstanding Educator Award, Philadelphia Roentgen Ray Society
2018	<i>AJR</i> Gold Distinguished Reviewer Achievement Award from the American Roentgen Ray Society

Levon N. Nazarian, M.D.

- 2017 Joseph H. Holmes Clinical Pioneer Award, American Institute of Ultrasound in Medicine
- 2017-2020 Named one of Philadelphia's Top Doctors in Diagnostic Radiology by *Philadelphia Magazine*
- 2015 Commemorative Medal of the Republic of Armenia Ministry of Education and Science
- 2014 William J. Fry Memorial Lecture Award of the American Institute of Ultrasound in Medicine
- 2013 Robert H. Condon, MD Teaching Award given by the physical medicine and rehabilitation residents at Thomas Jefferson University Hospital
- 2013 Jefferson Medical College Outstanding Clinician Award – Hospital Based Medicine Category
- 2011 Named one of Philadelphia's Top Doctors in Diagnostic Radiology by *Philadelphia Magazine*
- 2010 Golden Medal of the Yerevan State Medical University, Republic of Armenia
- 2010 Distinguished Service Award of the American Board of Radiology
- 2010 Naming of the “Levon and Claudia Nazarian Radiology Center” at the Yerevan State Medical University in Yerevan, Armenia
- 2009-2014 Distinguished Reviewer, *American Journal of Roentgenology*
- 2009 *Cum Laude Award* for RSNA Education Exhibit: Chen K, Shabshin N, Nazarian L. “Identifying Nerve Entrapment Syndromes: An Ultrasound and MRI Correlation”.
- 2009 American Roentgen Ray Society “Best Speaker Award” for 2009 Annual Meeting in Boston, MA
- 2009 Humanitarian and Medical Outreach Award of the Armenian American Health Professionals Organization
- 2008 Presidential Recognition Award of the American Institution of Ultrasound in Medicine
- 2007-2020 Named to *Best Doctors in America*

Levon N. Nazarian, M.D.

- 2006 Dean's Citation for Significant Contributions to the Advancement of Education at Jefferson Medical College
- 2006 Donation to the RSNA Research and Education Foundation made by the 2006 Jefferson Radiology Residency graduating class in honor of their best teachers in residency, Levon N. Nazarian, MD, Lisa Tartaglino, MD, and Oksana Baltarowich, MD
- 2005 Fellow of the American Institute of Ultrasound in Medicine
- 2005 Fellow of the American College of Radiology
- 2004 Fellow of the Society of Radiologists in Ultrasound
- 2004 Honorary Doctor of Medicine, Yerevan State Medical University, Republic of Armenia
- 2003 *Radiology* Editor's Recognition Award for Reviewing with Special Distinction
- 2003 Dean's Award at the 2003 Drexel University Research Day for the poster: Ro RJ, Lewin PA, Forsberg F, Liu JB, James KM, Potoczek M, Nazarian LN. "Comparing contrast-enhanced ultrasound to angiogenic markers from melanoma in a murine model. Presented April 22, 2003, Philadelphia, PA.
- 2003 Sponsored by Eastman Kodak to participate in the *Kodak-AUR Introduction to Management Program* at the Association of University Radiologists 51st Annual Meeting, April 9-10, Miami, FL
- 2002 *Radiology* Editor's Recognition Award for Reviewing with Special Distinction
- 2002 Faculty mentor for RSNA Resident Research Trainee Prize awarded to James Traiforos, MD, for the work titled, "Ultrasound-Guided Debridement and Corticosteroid Injection for Musculoskeletal Injuries Refractory to Conservative Management"
- 2002 Named one of Philadelphia's "Top Docs" in Diagnostic Radiology by *Philadelphia Magazine*
- 2002 "Best New Research Abstract" for Nazarian LN, et al, "Dynamic Sonography of the Ulnar Collateral Ligament in Asymptomatic Professional Baseball Pitchers" at the American Medical Society for Sports Medicine 11th Annual Meeting, Lake Buena Vista, FL

Levon N. Nazarian, M.D.

- 2001 *Radiology* Editor's Recognition Award for Reviewing with Distinction
- 2001 RSNA Seed Grant, RSNA Research and Education Foundation
- 2001 Association of University Radiologists Memorial Award for Park JH, et al, "Comparison of pre-contrast and post-contrast spiral CT for assessing interval change in colorectal liver metastases"
- 2000 *Radiology* Editor's Recognition Award for Reviewing with Special Distinction
- 1999 Melvin M. Figley Fellowship in Radiology Journalism, American Roentgen Ray Society
- 1998 Giovanni DiChiro Award for Outstanding Scientific Research Published in the *Journal of Computer Assisted Tomography* (for *J Comput Assist Tomogr* 1998; 22: 518-523)
- 1995 First Place Scientific Exhibit for Liu JB, et al "Laparoscopic Ultrasound: Clinical Applications". American Institute of Ultrasound in Medicine 39th Annual Meeting, San Francisco, CA,
- 1994 The A. Edward O'Hara M.D. Award for Excellence in Teaching given by the radiology residents at Thomas Jefferson University Hospital
- 1992 The Homer Mitchell Branch, Jr., M.D. Fellowship Award
- 1986 Alpha Omega Alpha Honor Society, Cornell University Medical College Chapter

Membership in Professional Societies:

National Societies:

Association of Program Directors in Radiology
The Radiological Society of North America
American College of Radiology
Association of University Radiologists
American Roentgen Ray Society
American Institute of Ultrasound in Medicine
Society of Radiologists in Ultrasound

Local Societies:

Pennsylvania Radiological Society

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Philadelphia Roentgen Ray Society

Service to National Organizations

2019-	President-Elect, American Institute of Ultrasound in Medicine
2019-	Co-Chair, Annual Convention Committee, American Institute of Ultrasound in Medicine
2018-2019	Chair of the Finance Committee, American Institute of Ultrasound in Medicine
2016	Member, Scientific Review Panel, NBA & GE Healthcare Orthopedics and Sports Medicine Collaboration
2011	Co-Moderator, Society of Radiologists in Ultrasound Consensus Conference on Imaging Workup of Shoulder Pain
2011-2014	Chair, Corporate Affairs Committee, Society of Radiologists in Ultrasound
2009-2011	Vice-Chair, Corporate Affairs Committee, Society of Radiologists in Ultrasound
2008-2014	Member, Program Committee, Society of Radiologists in Ultrasound
2008	Moderator, Musculoskeletal Ultrasound Section of the AIUM Ultrasound Practice Forum, National Harbor, MD, Nov. 10
2008-2009	Member, CME Committee, American Institute of Ultrasound in Medicine
2007	Member, <i>American Journal of Roentgenology</i> Editor Search Committee, American Roentgen Ray Society
2007-2009	Member, Nominating Committee, American Institute of Ultrasound in Medicine
2007-2010	Member, Board of Governors, American Institute of Ultrasound in Medicine
2006-2011	Written Clinical Examination Chair for Ultrasound, American Board of Radiology

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- 2005 Course Director, American Institute of Ultrasound in Medicine
Regional Course: "Musculoskeletal Ultrasound: A Practical,
Hands-On Approach". New York, NY, August 19-21
- 2005-2009 Co-Director, Introduction to Research Program, American
Roentgen Ray Society
- 2004 Member, National Institutes of Health Special Study Section
ZRG1 SBIB-H (13): *Small Business Novel Technologies for In
Vivo Imaging and Image-guided Cancer Interventions*
- 2004-2007 Member, Research Committee, Society of Radiologists in
Ultrasound
- 2004-2006 Hands-on Categorical Course Chair, American Institute of
Ultrasound in Medicine
- 2003 Member, National Cancer Institute Special Emphasis Panel ZCA1
SRRB-9 (J2), *Novel Technology for In Vivo Imaging (SBIR/STIR)*.
- 2003-2009 Member, Regional Course Committee and Annual Convention
Committee, American Institute of Ultrasound in Medicine
- 2003-2005 Member, Membership Committee, American Institute of
Ultrasound in Medicine
- 2003-2015 Member, RSNA Public Information Advisors Network
- 2002-2009 Member, Publication Committee and Editorial Policy
Subcommittee, American Roentgen Ray Society
- 2002 Member, *American Journal of Roentgenology* Editor Search
Committee, American Roentgen Ray Society
- 2002-2005 Chairman and Founding Member, Musculoskeletal Ultrasound
Section, American Institute of Ultrasound in Medicine
- 2002 Member, Educational Evaluation Committee, American Roentgen
Ray Society
- 2002-2005 Chairman, Committee on Research & Technology Assessment,
Commission on Ultrasound, American College of Radiology
- 2002-2006 Member, Ultrasound Item Writing Committee, American Board of
Radiology
- 2002-2011 Examiner in Ultrasound, American Board of Radiology oral
examination, Louisville, KY

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- 2002- Medical Adviser, RSNA-ACR Public Web Site
- 2001 Co-author, "Position Statement on Non-operative Spinal/Paraspinal Ultrasound in Adults", Commission on Ultrasound, American College of Radiology
- 2000-2004 American College of Radiology Liaison to the American Registry of Radiologic Technologists Vascular Sonography Exam Committee under the Commission on Human Resources

Service to International Organizations

- 2007- Central Board Member, Armenian General Benevolent Union
2003-2013 Secretary/Treasurer, Global Ultrasound Equipment Donation Foundation

Service to Journals

- 2020- Manuscript Reviewer, *Radiology: Artificial Intelligence*
- 2020- Assistant Editor, *American Journal of Roentgenology*
- 2019- Manuscript Reviewer, *PM&R*
- 2018- Manuscript Reviewer, *Journal of Dance Medicine and Science*
- 2018- Manuscript Reviewer, *Journal of Foot and Ankle Surgery*
- 2017- Manuscript Reviewer, *Pain Management*
- 2014- Manuscript Reviewer, *Journal of Clinical Rheumatology*
- 2014- Manuscript Reviewer, *European Radiology*
- 2014- Manuscript Reviewer, *Journal of Therapeutic Ultrasound*
- 2014- Manuscript Reviewer, *British Journal of Sports Medicine*
- 2013- Manuscript Reviewer, *Clinical and Experimental Rheumatology*
- 2012- Manuscript Reviewer, *Arthritis and Rheumatism*
- 2012- Manuscript Reviewer, *Journal of Clinical Ultrasound*
- 2011-2018 Editor-in-Chief, *Journal of Ultrasound in Medicine*
- 2010- Manuscript Reviewer, *International Journal of Shoulder Surgery*
- 2010- Manuscript Reviewer, *Ultrasound: Journal of the British Medical Ultrasound Society*
- 2009- Consultant to the Editor, *Radiology*
- 2009- Manuscript Reviewer, *Clinical Orthopaedics and Related Research*
- 2008-2018 Advisory Editorial Board, *Ultrasound in Medicine and Biology*
- 2008- Manuscript Reviewer, *Journal of Orthopedic Research*
- 2007- Manuscript Reviewer, *Academic Radiology*
- 2007- Manuscript Reviewer, *Ultrasound Quarterly*
- 2006-2010 Associate Editor, *Journal of Ultrasound in Medicine*
- 2006- Manuscript Reviewer, *Archives of Dermatology*
- 2006-2008 Assistant Editor, *American Journal of Roentgenology*
- 2006- Manuscript Reviewer, *Ultrasound in Medicine and Biology*
- 2006- Manuscript Reviewer, *Journal of Rheumatology*

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2006-	Manuscript Reviewer, <i>Radiology Case Reports</i>
2004-2008	Editorial Board, <i>Ultrasound: Journal of the British Medical Ultrasound Society</i>
2003-2009	Associate Editor, <i>Radiology</i>
2002-2005	Advisory Editorial Board, <i>Journal of Ultrasound in Medicine</i>
2000-2011	Manuscript Reviewer, <i>Journal of Ultrasound in Medicine</i>
1998	Guest Editor, Volume 2, Number 3, <i>Seminars in Musculoskeletal Radiology</i> , "Ultrasound"
1997-2001	Editorial Board, <i>Seminars in Musculoskeletal Radiology</i>
1997-	Manuscript Reviewer, <i>Radiology</i>
1996-	Manuscript Reviewer, <i>American Journal of Roentgenology</i>

University and Departmental Committee Appointments

2012-2017	Co-Chair, Graduate Medical Education Committee, Sidney Kimmel Medical College of Thomas Jefferson University
2011-	Member, Committee on Continuing Medical Education, Sidney Kimmel Medical College of Thomas Jefferson University
2007-2016	Member, Performance Improvement Committee, Dept. of Radiology
2005-2017	Member, Graduate Medical Education Committee, Jefferson Medical College of Thomas Jefferson University
2004-2010	Member, Advisory Committee, Dept. of Radiology
2002-	Chairman, Education Committee, Dept. of Radiology
1995-2009	Chairman, Radiology Residency Selection Committee
1995-2016	Member, Contrast Committee, Dept. of Radiology

Teaching Activities

2014-	Director, Jefferson Ultrasound and Radiology Education Institute
2010-	Teaching of musculoskeletal ultrasound to residents in the Department of Physical Medicine and Rehabilitation, Thomas Jefferson University Hospital
2009	Member, Doctoral Dissertation Committee, University of Delaware. Candidate: Stephen J. Thomas, MEd, ATC. Project Title: "Anatomical and Neuromuscular Adaptations in Division I Collegiate Baseball Players".
2005-2013	Radiology Residency Program Director, Thomas Jefferson University Hospital
2000	Co-Founder and Co-Director, <i>Ultrasound Training Centre of Armenia</i> , Yerevan, Armenia (affiliated with the Jefferson Ultrasound Research and Education Institute)

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- 1999- Program Director, Musculoskeletal Ultrasound Course, Jefferson Ultrasound Research and Education Institute
- 1995-2005 Lecturer, Radiology Elective 401, Jefferson Medical College
- 1992- Teaching of residents and cross-sectional imaging fellows in the Department of Radiology, Thomas Jefferson University Hospital

Grants Awarded

- 7/2019-6/2021 Co-investigator, RSNA Research Resident/Fellow Grant, "Diagnosing Chronic Exertional Compartment Syndrome: Measurement of Intra-compartmental Pressures Using Noninvasive Subharmonic Aided Pressure Estimation (SHAPE) Versus Shear Wave Elastography (SWE)." Principal Investigator, Corbin L. Pomeranz, MD. Total grant: \$30,000
- 6/2014-5/2015 Co-investigator, National Skeletal Muscle Research Center Grant, "Skeletal Muscle Size and Function in Older Heart Failure Patients Undergoing Left Ventricular Assist Device Implantation". Principal Investigator, Gordon Reeves, MD. Total grant: \$25,000
- 1/2009-6/2010 Co-investigator, American Institute of Ultrasound in Medicine Research Grant, "How Much Could Substitution of Ultrasound (US) for Computed Tomography (CT) Save in Imaging Evaluation of Appendicitis?" Principal Investigator, Laurence Parker, PhD. Total grant: \$50,000
- 7/2003-6/2005 Co-investigator, National Institutes of Health, National Cancer Institute Biomedical Imaging Program. "Contrast-Enhanced Ultrasound Detection of Angiogenesis". Principal Investigator, Flemming Forsberg, PhD. Total grant: \$392,500
- 7/2001-7/2003 Principal Investigator, RSNA Research and Education Foundation. "Contrast Enhanced Ultrasound Monitoring of Angiogenesis in Human Melanoma Xenografts." Total grant: \$23,274
- 10/2002-8/2003 Co-investigator, Bristol-Myers Squibb. "A Phase III Open Label Multicenter Trial to Compare the Diagnostic Accuracy of Definity-Enhanced Ultrasound Imaging versus Contrast-Enhanced Computed Tomography (CT) for Characterizing Liver Lesions. " Principal Investigator, Ethan J. Halpern, M.D. Total grant: \$54,000
- 6/2002-5/2003 Co-investigator, Bracco Diagnostics. "A Phase II/III Multicenter, Randomized Study for the Characterization of Focal Liver Lesions Using SonoVue-Enhanced Ultrasonography." Principal Investigator, Anna S. Lev-Toaff, M.D. Total grant: \$77,800

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- 2/2000-1/2001 Co-investigator, DuPont Pharmaceutical Co. "A Phase IIIb, Open-Label, Non-Randomized, Multicenter Trial to Assess the Ability of DMP115 Contrast-Enhanced Ultrasound Imaging to Correctly Detect and Characterize Liver or Kidney Pathology." Principal Investigator, Ethan J. Halpern, M.D. Total grant: \$14,500
- 11/1999-11/2000 Co-investigator, Nycomed Amersham Imaging. "Contrast-enhanced Ultrasound Imaging of the Liver Using Sonazoid™ (NC100100 Powder for Injection) Administered Intravenously: A Phase II Multicentre, Open Label Feasibility Study in Subjects with Known Focal Solid Liver Disease, Using Pulse/phase Inversion Technique in the Contrast-enhanced Phases." Principal Investigator, Laurence Needleman, M.D. Total grant: \$38,065
- 9/1999-6/2001 Co-investigator, DuPont Pharmaceutical Co. "A Phase II Open-Label Non-Randomized Multicenter Trial to Determine the Ability of DMP 115 to Improve the Detection of Cancer in Subjects Referred for Transrectal Ultrasound of the Prostate. Principal Investigator, Ethan J. Halpern, M.D. Total grant: \$211,000
- 11/1998-6/2001 Co-investigator, Bracco Diagnostics, Inc. "Ultrasound Studies Using SonoRx". Principal Investigator, Anna S. Lev-Toaff, M.D. Total grant: \$123,150.
- 7/1999-6/2000 Co-investigator, Mallinckrodt Medical, Inc. "An Open-Label, Randomized, Phase 2, Dose-Finding Study to Evaluate the Efficacy and Safety of OPTISON (Human Albumin Microspheres) Enhanced Ultrasound Examinations in Patients with Known Focal Liver Lesions. Principal Investigator: Christopher Merritt, M.D. Total grant: \$58,680.
- 12/1998-11/1999 Co-investigator, Berlex. "Evaluation of Therapeutic Ultrasound on Indirect MR Arthrography. Principal Investigator, Mark E. Schweitzer, M.D. Total grant: \$13,000.
- 9/1998-12/2000 Principal Investigator, Longport, Inc. "New High Resolution Ultrasound System for Evaluating the Skin and Superficial Soft Tissue." Total grant: \$12,500.
- 4/1998-4/1999 Co-investigator, Alliance Pharmaceuticals, Inc. "A Single-Center, Open-Label, Randomized Study to Assess the Feasibility of AF0150-Enhanced Ultrasound to Aid in the Visualization of Prostatic Lesions in Males with Elevated Prostate Specific Antigen (PSA) and/or Abnormal Digital Rectal Exam (DRE) who are Scheduled for Transrectal Ultrasound." Principal Investigator: Ethan Halpern, M.D. Total grant: \$23,260.

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- 1997 Co-investigator, Sonus Pharmaceuticals, Inc.: "A Phase III, Multi-Center Controlled Study of Echogen® as an Ultrasound Contrast Agent in Conjunction with Transrectal Ultrasonography of the Prostate." Principal Investigator: Ethan J. Halpern, M.D. Total grant: \$46,450.
- 1996 Co-investigator, Bracco Diagnostics, Inc.: "A Phase 3 Multicenter, Double Blind, Parallel, Stratified, Randomized Clinical Investigation to Assess the Safety and Efficacy of Iomeprol 400 mg/ml Compared to Isovue® 370 mg/ml in Patients Undergoing Body Computed Tomography." Principal Investigator: Robert M. Steiner, M.D. Total grant: \$8000.
- 1995 Program Director, Armenian General Benevolent Union: "Fellowship Program in Ultrasound for Armenian Physicians." Total grant: \$33,468.
- 1993 -1994 Principal Investigator, Squibb Diagnostics: "A Prospective Comparative Trial to Evaluate the Renal Effects of Ionic and Nonionic Contrast Media in Patients Scheduled for Contrast Enhanced Computed Tomography." Total grant: \$8,130.

Scientific Presentations and Invited Lectures

- Jan. 10-11, 2020 AIUM MSK Hands-on Training Course for Beginners, Laurel, MD
- "Elbow US"
 - "Ankle and Foot US"
- Jan. 8, 2020 Methodist Hospital Medical Grand Rounds, Philadelphia, PA
- "Minimally Invasive Treatments for Musculoskeletal Conditions Using Leading-Edge Techniques Developed at Jefferson."
- Oct. 3-6, 2019 2019 SRU Annual Meeting and Postgraduate Course, Denver, CO
- "Ultrasound-Guided Carpal Tunnel Surgery"
 - "Hand and Wrist Ultrasound Workshop"
- Sep. 26-27, 2019 Visiting Professor, University of Calgary Department of Radiology, Calgary, AB, Canada
- "Overview of Musculoskeletal Ultrasound"
 - "Ultrasound-Guided Musculoskeletal Interventions"
 - "Shoulder Ultrasound"
- Sep. 6, 2019 New England Roentgen Ray Society, Boston, MA

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- “Ultrasound of the Hand and Wrist”
- Jun. 26, 2019 HB Sports and Entertainment STTAR Summit, Philadelphia 76ers Training Complex, Camden, NJ
- “Interactive Ultrasound Workshop”
- May 30-Jun. 2, 2019 Course Co-Chair, Hands-on Diagnostic and Interventional MSK Ultrasound, Andrews Institute, Pensacola, FL
- “Ultrasound of Hand and Wrist Pathology”
 - “Shoulder Therapeutics”
 - “Ultrasound of Knee Pathology”
 - “Ultrasound of Inguinal Hernias and Athletic Pubalgia”
 - “Ask the Expert”
- May 14-16, 2019 Conference Director, The Leading Edge in Diagnostic Ultrasound, Atlantic City, NJ
- “Introduction to Musculoskeletal Ultrasound”
 - “Ultrasound of Shoulder Pathology”
 - “Ultrasound of the Hip and Knee”
 - “Ultrasound of Peripheral Nerves”
 - “Ultrasound of Soft Tissue Masses”
 - “Ultrasound in Joint Replacement”
 - “Ultrasound of Hernias”
- Apr. 18, 2019 Hospital of the University of Pennsylvania, Radiology Resident Lecture Series
- “How to be an Academic Radiologist”
- Apr. 7-10, 2019 American Institute of Ultrasound in Medicine 2019 Annual Convention, Orlando, FL
- “Interventions of the Hand: Carpal Tunnel Release and Trigger Finger Release”
 - “Musculoskeletal Ultrasound Scanning: Pearls and Pitfalls”
- Feb. 28, 2019 46th Annual Course in Electrodiagnostic Medicine, Sidney Kimmel Medical College of Thomas Jefferson University, Philadelphia, PA
- “Ultrasound of the Peripheral Nervous System”
- Jan. 11-12, 2019 AIUM MSK Hands-on Training Course for Beginners, Laurel, MD
- “Wrist and Hand US”
- Oct. 27, 2018 7th Congress of Traumatologists and Orthopedists of Armenia, Yerevan, Armenia
- “Overview of Musculoskeletal Ultrasound”
 - “Ultrasound-Guided Musculoskeletal Interventions”

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- Sep. 21-22, 2018 Sports Ultrasound Conference, University of Pittsburgh Medical Center, Pittsburgh, PA
- "Anterior and Medial Knee Pathology"
 - "Mid/ Hind Foot Pathology"
 - "Pathologies of Medial Hip and Thigh"
- Sep. 7, 2018 SonoMSK Ultrasound Congress, Oslo, Norway
- "US of Peripheral Nerves"
 - "Ultrasound-Guided Procedures"
- May 21, 2018 Point-of-Care Ultrasound May 2018 Guest Educator, Department of Emergency Medicine, Sidney Kimmel Medical College of Thomas Jefferson University, Philadelphia, PA
- May 8-10, 2018 Conference Director, The Leading Edge in Diagnostic Ultrasound, Atlantic City, NJ
- "Introduction to Musculoskeletal Ultrasound"
 - "Ultrasound of Shoulder Pathology"
 - "Ultrasound of the Hip and Knee"
 - "Ultrasound of Peripheral Nerves"
 - "Ultrasound of Soft Tissue Masses"
 - "Ultrasound in Joint Replacement"
 - "Ultrasound of Hernias"
- May 17-20, 2018 Course Co-Chair, Hands-on Diagnostic and Interventional MSK Ultrasound, Andrews Institute, Pensacola, FL
- "Overview of Diagnostic Musculoskeletal Ultrasound"
 - "Ultrasound of Hand and Wrist Pathology"
 - "Ultrasound of Knee Pathology"
 - "Ultrasound of Inguinal Hernias and Athletic Pubalgia"
 - "Ask the Expert"
- Apr. 24-25, 2018 American Medical Society of Sports Medicine, 2018 Annual Meeting, Orlando, FL
- "Dynamic Ultrasound of the Brachial Plexus"
 - "Ultrasound Imaging Pearls for the Foot and Ankle"
 - Faculty, One-on-One Customized Sports Ultrasound Learning Workshop
- Apr. 18-21, 2018 World Congress on Regional Anesthesia and Pain Medicine, New York, NY
- "Advances in Ultrasound-Guided Musculoskeletal Procedures"
 - "Ultrasound-Guided Shoulder Injections"
- Apr. 17, 2018 Hospital of the University of Pennsylvania, Radiology Resident Lecture Series
- "How to be an Academic Radiologist"

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- Mar. 28, 2018 American Institute of Ultrasound in Medicine 2018 Annual Convention, New York, NY
•"Interventions in the Hand: Carpal Tunnel Release and Trigger Finger Release"
- Nov. 9, 2017 Grand Rounds, Department of Physical Medicine and Rehabilitation, Sidney Kimmel Medical College of Thomas Jefferson University, Philadelphia, PA
•"Ultrasound-Guided Musculoskeletal Interventions"
- Oct. 14, 2017 Orthopaedic Foot Club Annual Meeting, Philadelphia, PA
•"Ultrasound-Guided Fenestration and Corticosteroid Injection for the Treatment of Anterolateral Ankle Impingement"
•"Ultrasound Evaluation of Peroneal Tendon Pathology"
- Jul. 23, 2017 Instructional Course Speaker, American Orthopaedic Society of Sports Medicine Annual Meeting 2017, Toronto, ON, Canada
•"Sports Medicine Ultrasound: Tips on How to Use, When to Use, and Its Uses"
- Jun. 8-11, 2017 Course Co-Chair, Hands-on Diagnostic and Interventional MSK Ultrasound, Andrews Institute, Pensacola, FL
•"Overview of Diagnostic Musculoskeletal Ultrasound"
•"Elbow Therapeutics"
•"Ultrasound of Inguinal Hernias and Athletic Pubalgia"
- May 9-11, 2017 Conference Director, The Leading Edge in Diagnostic Ultrasound, Atlantic City, NJ
•"Introduction to Musculoskeletal Ultrasound"
•"Ultrasound of Shoulder Pathology"
•"Ultrasound of the Hip and Knee"
•"Ultrasound of Peripheral Nerves"
•"Ultrasound of the Soft Tissue Masses"
•"Ultrasound in Joint Replacement"
•"Ultrasound of Hernias"
- Apr. 18, 2017 Grand Rounds, Department of Physical Medicine and Rehabilitation, Hospital of the University of Pennsylvania, Philadelphia, PA
•"Ultrasound-Guided Musculoskeletal Interventions"
- Apr. 12, 2017 Visiting Professor, DMC Sports Medicine, Detroit MI
•"Overview of Musculoskeletal Ultrasound"
•"Ultrasound-Guided Musculoskeletal Interventions"
- Mar. 31, 2017 Nineteenth Annual Robert H. Freiberger, MD Lecture, Hospital for Special Surgery, New York, NY

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- "Advances in Ultrasound-Guided Percutaneous Musculoskeletal Interventions"
- Mar. 27-28, 2017 American Institute of Ultrasound in Medicine 2016 Annual Convention, Orlando, FL
- Luminary Lecture: "Economics of Musculoskeletal Ultrasound"
 - "Hernias, Joint Effusions, Bursitis, and Cysts"
- Feb. 17, 2017 44th Annual Course in Electrodiagnostic Medicine, Sidney Kimmel Medical College of Thomas Jefferson University, Philadelphia, PA
- "Ultrasound in Neuropathies: Showing How It Explains the Causes of Symptoms and Signs"
- Nov. 17, 2016 American Society of Regional Anesthesia and Pain Medicine, 15th Annual Pain Medicine Meeting, San Diego, CA
- "Basics of MSK Diagnostic Ultrasound Scanning"
 - " Ultrasound of the Wrist and Hand: Live Demonstration"
- Oct. 22, 2016 Society of Radiologists in Ultrasound 26th Annual Meeting and Postgraduate Course, Baltimore, MD
- "Interventional MSK Ultrasound"
 - "Ultrasound of Arthritis"
- June 25-26, 2016 American Society of Regional Anesthesia and Pain Medicine (ASRA) MSK Ultrasound Cadaver Course, Chicago, IL
- "Basics of MSK US Scanning"
- June 11-13, 2016 International Symposium of Ultrasound in Regional Anesthesia (ISURA), Toronto, ON, Canada
- "Examination Protocol for Painful Elbow Disorders; US-Guided Elbow Interventions"
 - "Examination Protocol for Anterior and Posterior Hip Pain; US-Guided Hip Interventions"
- May 19-22, 2016 Course Co-Chair, Hands-on Diagnostic and Interventional MSK Ultrasound, Andrews Institute, Pensacola, FL
- "Overview of Diagnostic Musculoskeletal Ultrasound"
 - "Ultrasound of Inguinal Hernias and Athletic Pubalgia"
- May 10-12, 2016 Conference Director, The Leading Edge in Diagnostic Ultrasound, Atlantic City, NJ
- "Introduction to Musculoskeletal Ultrasound"
 - "Ultrasound of the Hip and Knee"
 - "Ultrasound of Peripheral Nerves"
 - "Ultrasound in Joint Replacement"
 - "Ultrasound of Hernias"

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- Apr. 14, 2016 Visiting Professor, Department of Radiology and Biomedical Imaging, Yale School of Medicine, New Haven, CT
•Grand Rounds: "Ultrasound-Guided Musculoskeletal Interventions"
•"Overview of Musculoskeletal Ultrasound"
- Mar. 20-21, 2016 American Institute of Ultrasound in Medicine 2016 Annual Convention, New York, NY
•"How to be an Effective Manuscript Reviewer for the *Journal of Ultrasound in Medicine*"
•"Hernias, Joint Effusions, Bursitis, and Cysts"
•"Ultrasound Techniques and Interventions in Microcrystalline Arthritides"
- Feb. 11, 2016 43rd Annual Course in Electrodiagnostic Medicine, Sidney Kimmel Medical College of Thomas Jefferson University, Philadelphia, PA
•"Ultrasound in Neuropathies: Showing How It Explains the Causes of Symptoms and Signs"
- Jan. 29, 2016 Visiting Professor, Department of Radiology, Columbia University Medical Center, New York, NY
•Grand Rounds: "Ultrasound-Guided Musculoskeletal Interventions"
•"Introduction to Musculoskeletal Ultrasound"
- Oct. 23-24, 2015 Society of Radiologists in Ultrasound 25th Annual Meeting and Postgraduate Course, Chicago, IL
•Keynote Address: "Musculoskeletal Ultrasound: the Arthroscope of the Future?"
•"Ultrasound of the Knee and Hip"
- May 21, 2015 American College of Radiology, 2015 Annual Meeting, Washington, DC
•"Economics of Musculoskeletal Ultrasound"
- Apr. 28-30, 2015 Conference Director, The Leading Edge in Diagnostic Ultrasound, Atlantic City, NJ
•"Introduction to Musculoskeletal Ultrasound"
•"Ultrasound of Shoulder Pathology"
•"Ultrasound in Joint Replacement"
•"Ultrasound of Soft Tissue Masses"
•"Interventional Musculoskeletal Ultrasound"
•"Ultrasound of Hernias"
- Apr. 22, 2015 44th Annual Symposium of the Ultrasonic Industry Association, Washington, DC
•"Interventional Musculoskeletal Ultrasound"

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- Mar. 24, 2015 American Institute of Ultrasound in Medicine 2015 Annual Convention, Orlando, FL
•"Brachial Plexus Sonography in Adults: Dynamic Evaluation of Thoracic Outlet Compression Syndromes"
- Feb. 16, 2015 Visiting Professor, Department of Physical Medicine and Rehabilitation, Rutgers-New Jersey Medical School, Newark, NJ
•"Cutting Edge Ultrasound-Guided Interventional Procedures"
- Feb. 13, 2015 42nd Annual Course in Electrodiagnostic Medicine, Sidney Kimmel Medical College of Thomas Jefferson University, Philadelphia, PA
•"Ultrasound in Neuropathies: Showing How It Explains the Causes of Symptoms and Signs"
- Nov. 14-15, 2014 American Society of Regional Anesthesia and Pain Medicine, 13th Annual Pain Medicine Meeting, San Francisco, CA
•"Assessment of the Musculoskeletal System with Ultrasound – Foundations and Principles"
•"Diagnostic Ultrasound of the Wrist: Live Scanning"
- Sep. 30, 2014 Shanghai Institute of Ultrasound in Medicine Advanced Musculoskeletal Ultrasound Symposium, Sixth People's Hospital, Shanghai, China
•"Diagnostic and Interventional Musculoskeletal Ultrasound: State of the Art"
- Sep. 27, 2014 Visiting Professor, Second Affiliated Hospital, Zhejiang University College of Medicine, Hangzhou, China
•"Diagnostic and Interventional Musculoskeletal Ultrasound: State of the Art"
- Sep. 25, 2014 Visiting Professor, Xijing Hospital, Xian, China
•"Diagnostic and Interventional Musculoskeletal Ultrasound: State of the Art"
- Sep. 23, 2014 Visiting Professor, Huaxi Hospital, Chengdu, China
•"Diagnostic and Interventional Musculoskeletal Ultrasound: State of the Art"
- Sep. 20, 2014 The 7th International Musculoskeletal and Advanced Ultrasound Symposium, Peking University Third Hospital, Beijing, China
•"Interventional Musculoskeletal Ultrasound"
•"Ultrasound of the Shoulder"
- Sep. 13-14, 2014 Course Chair, Upper Extremity Musculoskeletal Ultrasound, US Olympic Complex Training Center, Colorado Springs, CO

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- "Overview of Musculoskeletal Ultrasound With Emphasis on the Upper Extremity"
 - "Upper Extremity Peripheral Nerve Ultrasound"
- July 10-12, 2014 Diagnostic and Interventional Ultrasound, Mayo Clinic, Rochester, MN
- "Ultrasound Evaluation of Inguinal Hernias"
 - "Ultrasound-Guided Alcohol Ablation for Morton's Neuroma"
 - "Needles Gone Wild: Adventures in Sonographically Guided Interventions"
- June 26, 2014 Musculoskeletal Ultrasound for Rheumatologists- Intermediate Course, Jacksonville, FL
- "Practical Demonstration: The Shoulder- Standard Scans and Dynamic Testing"
 - "Sonopathology of the Shoulder"
- May 26-27, 2014 Euroson 2014, Tel Aviv, Israel
- "Overview of Musculoskeletal Ultrasound"
 - "Ultrasound of the Hip and Knee"
 - "Ultrasound of Hernias"
 - "Ultrasound of the Ankle"
 - "US-Guided Musculoskeletal Interventions"
- May 13-15, 2014 Conference Director, The Leading Edge in Diagnostic Ultrasound, Atlantic City, NJ
- "Introduction/ Overview of Musculoskeletal Ultrasound"
 - "Ultrasound of the Hand and Wrist"
 - "Ultrasound of Peripheral Nerves"
 - "Ultrasound in Joint Replacement"
 - "Interventional Musculoskeletal Ultrasound"
 - "Ultrasound of Hernias"
- Mar 30-Apr. 2, 2014 American Institute of Ultrasound in Medicine 2014 Annual Convention, Las Vegas, NV
- William J. Fry Memorial Lecture: "Patient-Focused Imaging: Lessons Learned From Musculoskeletal Ultrasound"
 - "Brachial Plexus Sonography in Adults: Dynamic Evaluation of Thoracic Outlet Compression Symptoms"
 - "Ultrasound Evaluation of Muscle and Tendon Injuries"
- Feb. 13, 2014 41st Annual Course in Electrodiagnostic Medicine, Jefferson Medical College, Philadelphia, PA
- "Ultrasound in Neuropathies: Showing How It Explains the Symptoms and Signs"
- Oct. 21-22, 2013 Visiting Professor, Phoenix Children's Hospital, Phoenix, AZ
- "Overview of Musculoskeletal Ultrasound"

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- "Musculoskeletal Ultrasound in Rheumatology"
 - "Ultrasound of the Hip and Knee"
- Oct. 18, 2013 Society of Radiologists in Ultrasound 23rd Annual Meeting and Postgraduate Course, Chicago, IL
- "Update on the SRU Consensus Conference on Imaging of the Painful Shoulder"
- July 19-21, 2013 American College of Radiology Intersociety Summer Conference, Big Sky, MT
- "Readership Trends in the *Journal of Ultrasound in Medicine*"
- June 27-29, 2013 Diagnostic and Interventional Musculoskeletal, Mayo Clinic, Rochester, MN
- "Sonographically Guided Common Extensor Percutaneous Tenotomy (Live Cadaveric Demonstration)"
 - "Anterior Hip Disorders"
 - "US-Guided Interventions for Carpal Tunnel Syndrome: Carpal Tunnel Injection, Hydrodissection & Percutaneous Release (Live Cadaveric Demonstration)"
 - "US Guided Interventions for Lateral Ankle Pain"
 - "Needles Gone Wild: Adventures in Sonographically Guided Interventions"
- May 21-22, 2013 The Leading Edge in Diagnostic Ultrasound, Atlantic City, NJ
- Director, Musculoskeletal Ultrasound Course
 - "Overview of Musculoskeletal Ultrasound"
 - "Ultrasound of the Shoulder: Pathology"
 - "Ultrasound of the Hand and Wrist"
 - "Ultrasound of Soft Tissue Masses"
 - "Interventional MSK Ultrasound"
- April 19, 2013 American Chiropractic Board of Sports Medicine 2013 Sports Sciences Symposium, Colorado Springs, CO
- "The Role of Diagnostic Ultrasound in the Identification, Evaluation, and Treatment of Sports-related Injuries"
- Apr. 16, 2013 American Roentgen Ray Society 2013 Annual Meeting, Washington, DC
- "Musculoskeletal Ultrasound Applications in the Upper Extremity"
- Apr. 6-10, 2013 American Institute of Ultrasound in Medicine 2013 Annual Convention, New York, NY
- "Dry Needling of Tendons"
 - "How to Be an Effective Manuscript Reviewer for the *Journal of Ultrasound in Medicine*"
 - "Sonography of Abdominal Wall Hernias"

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- Feb. 28, 2013 40th Annual Course in Electrodiagnostic Medicine, Jefferson Medical College, Philadelphia, PA
•"Ultrasound in Neuropathies: Showing How It Explains the Symptoms and Signs"
- Jan. 17-20, 2013 Andrews Institute Advanced Musculoskeletal Ultrasound Course, Pensacola, FL
• "Sonography of the Post-Operative Rotator Cuff"
• "Sonography of Tendinopathy of the Ankle"
• "Sonography of Morton's Neuroma"
• "Interventional Sonography of the Foot and Ankle"
• "Dynamic Sonographic Imaging of the Elbow"
• "Sonographic Anatomy of the Shoulder"
• "Sonography of Soft Tissue Pathology"
• "Ultrasound-Guided Musculoskeletal Treatments"
- Dec. 6-7, 2012 Visiting Professor, Department of Radiology, University of Texas Southwestern Medical Center, Dallas, TX
• "Diagnostic and Interventional Musculoskeletal Ultrasound"

• "Ultrasound of Liver and Kidney Transplants"
- Nov. 25, 2012 Expert Panelist, Image Interpretation Session, Radiological Society of North America 2012 Annual Meeting, Chicago, IL
- Nov. 12, 2012 Ultrasound First Forum, Sponsored by the American Institute of Ultrasound in Medicine, New York, NY
• "Ultrasound First in Sports Medicine"
- Nov. 9, 2012 New England Roentgen Ray Society, Boston, MA
"US-Guided Musculoskeletal Interventions"
- Oct. 25, 2012 Society of Radiologists in Ultrasound 22nd Annual Meeting and Postgraduate Course, Baltimore, MD
• "Sonography of Lateral Hip Pain and the Myth of Greater Trochanteric Bursitis"
- Oct. 5, 2012 New York Roentgen Society 2012 "100th Anniversary" Annual Meeting, New York, NY
• "Practical Applications of Musculoskeletal Ultrasound"
- Sep. 24, 2012 Grand Rounds, Department of Physical Medicine and Rehabilitation, Johns Hopkins University School of Medicine, Baltimore, MD
• "Overview of Musculoskeletal Ultrasound"

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- Jul. 19-21, 2012 Diagnostic and Interventional Musculoskeletal, Mayo Clinic, Rochester, MN
- "Introduction to MSK US: Normal, Abnormal and Common Artifacts"
 - "Problem Solving in the Postoperative Hip"
- May 8-9, 2012 The Leading Edge in Diagnostic Ultrasound, Atlantic City, NJ
- Director, Musculoskeletal Ultrasound Course
 - "Overview of Musculoskeletal Ultrasound"
 - "Ultrasound of the Shoulder: Pathology"
 - "Ultrasound of the Hand and Wrist"
 - "Ultrasound of Soft Tissue Masses"
 - "Interventional MSK Ultrasound"
- Mar. 29-Apr. 1, 2012 American Institute of Ultrasound in Medicine, 2012 Annual Convention, Phoenix, AZ
- Moderator, "Cutting-Edge Musculoskeletal Ultrasound"
 - "Elastography: Applications in Musculoskeletal Ultrasound"
 - "Ultrasound-Guided Treatment of Trigger Finger and Carpal Tunnel Syndrome"
 - Moderator, "Point-Counterpoint: What is the Role of Ultrasound in the Diagnosis of Acute Appendicitis?"
 - "Cost and Radiation Savings of Partial Substitution of Ultrasound for Computed Tomography in Appendicitis Evaluation: a National Projection"
- Mar. 1, 2012 39th Annual Course in Electrodiagnostic Medicine, Jefferson Medical College, Philadelphia, PA
- "US in Neuropathies"
- Oct. 21, 2011 Society of Radiologists in Ultrasound 21st Annual Meeting and Postgraduate Course, Chicago, IL
- "Live Scanning Demonstration: Sonography of the Adult Hip and Knee"
- Oct. 13, 2011 Philadelphia Roentgen Ray Society Meeting
- "Ultrasound Evaluation of the Shoulder"
- Sep. 21, 2011 Visiting Professor, Department of Radiology, Pennsylvania Hospital, Philadelphia, PA
- "Introduction to Musculoskeletal Ultrasound"
 - Resident Case Conference
 - Grand Rounds: "Ultrasound-Guided Musculoskeletal Interventions"
- Aug. 26-28, 2011 13th World Congress on Ultrasound, World Federation of Ultrasound in Medicine and Biology, Vienna, Austria
- "Shoulder Anatomy"

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- "Ultrasound of Shoulder Pathology"
 - "Ultrasound-Guided Treatment of Sports Overuse Syndromes"
 - Moderator, Scientific Session, "Ultrasound of Nerve Entrapment Syndromes"
- Jul. 24, 2011 The 35th Annual Vanderbilt Diagnostic Sonography Symposium, Franklin, TN
- "Overview of Musculoskeletal Sonography"
 - "Sonography of Soft Tissue Masses"
 - "US of Renal & Liver Transplants"
- Jul. 22, 2011 Visiting Professor, Department of Radiology, Vanderbilt University, Nashville, TN
- Grand Rounds: "Sonography of Soft Tissue Masses"
 - Resident Case Conference
- Jul. 7-9, 2011 Diagnostic and Interventional Musculoskeletal Ultrasound in the Upper Limb: State of the Art, Mayo Clinic, Rochester, MN
- "Introduction to MSK US: Normal, Abnormal and Common Artifacts"
 - "Clinical Problem Solving: Sonographic Approach to the Thrower's Elbow"
 - "Percutaneous Tenotomy in the Treatment of Tennis Elbow"
- May 10-11, 2011 The Leading Edge in Diagnostic Ultrasound, Atlantic City, NJ
- Director, Musculoskeletal Ultrasound Course
 - "Introduction to Musculoskeletal Ultrasound"
 - "Ultrasound of the Shoulder: Pathology"
 - "Ultrasound of the Elbow"
 - "Knee Ultrasound"
 - "Ultrasound of the Adult Hip"
 - "Ultrasound of Soft Tissue Masses"
 - "Ultrasound-Guided Musculoskeletal Interventions"
- Mar. 14-17, 2011 American Institute of Ultrasound in Medicine, 56th Annual Convention, New York, NY
- "Shoulder Ultrasound"
 - "Ultrasound of Acute Extremity Trauma"
 - "Ultrasound of Superficial Palpable Lumps"
 - "Cost and Radiation Savings of Partial Substitution of Ultrasound for Computed Tomography in Appendicitis Evaluation: a National Projection (abstract)"
- Mar. 19-23, 2011 Sixth Annual Fundamentals of Musculoskeletal Ultrasound Course sponsored by the University of Michigan Department of Radiology
- "Elbow Anatomy and Scanning Technique"
 - "Common Elbow Pathology"

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- "Elbow Ligaments"
 - "Rheumatology: Upper Extremity"
- Mar. 7, 2011 Eleventh Annual Hand Surgery Symposium, Philadelphia PA
- "The Role of Ultrasound in the Diagnosis and Treatment of Elbow Conditions"
- Mar. 3, 2011 38th Annual Course in Electrodiagnostic Medicine, Jefferson Medical College, Philadelphia, PA
- "US of Peripheral Nerves"
- Jan. 31, 2011 Visiting Professor, Department of Radiology, St. Luke's-Roosevelt Hospital Center, New York, NY
- Grand Rounds: "Introduction to Musculoskeletal Ultrasound"
 - Resident Case Conference
- Jan. 26, 2011 Visiting Professor, Department of Radiology, Columbia University Medical Center, New York, NY
- Grand Rounds: "Ultrasound-Guided Musculoskeletal Interventions"
 - "Introduction to Musculoskeletal Ultrasound"
 - Resident Case Conference
- Nov. 17, 2010 Visiting Professor, Mount Sinai School of Medicine Department of Radiology, New York, NY
- Grand Rounds: "General Concepts of Musculoskeletal Ultrasound"
 - Resident Case Conference
- Nov. 15, 2010 South Jersey Healthcare Musculoskeletal Imaging Symposium, Vineland, NJ
- "Interventional Musculoskeletal Ultrasound"
- Oct. 24, 2010 Society of Radiologists in Ultrasound 20th Annual Meeting and Postgraduate Course, Chicago, IL
- "Ultrasound-Guided Musculoskeletal Interventions"
- Oct. 8, 2010 90th Anniversary Congress of Yerevan State Medical University, Yerevan, Armenia
- "Diagnostic Musculoskeletal Ultrasound"
 - "Interventional Musculoskeletal Ultrasound"
 - "New Advances in Ultrasound Imaging"
- Sep. 24, 2010 Annual Oration in Honor of John A. Evans, MD, The New York-Presbyterian Hospital, Weill Cornell Medical College Department of Radiology, New York, NY
- "Ultrasound-Guided Musculoskeletal Interventions"

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- July 15-17, 2010 Diagnostic and Interventional Musculoskeletal Ultrasound: A Hands-on Approach, Mayo Clinic, Rochester, MN
- "General Applications of Musculoskeletal Ultrasound"
 - "Common Wrist and Hand Disorders"
 - "Common Ankle and Foot Disorders"
 - "Ultrasound-Guided Ankle and Foot Procedures"
 - "Musculoskeletal Ultrasound Following Total Joint Replacement"
 - "Ultrasound-guided Elbow Procedures"
- May 11-12, 2010 The Leading Edge in Diagnostic Ultrasound, Atlantic City, NJ
- Director, Musculoskeletal Ultrasound Course
 - "Ultrasound of the Shoulder: Pathology"
 - "Ultrasound of the Elbow"
 - "Ultrasound of the Knee"
 - "Musculoskeletal Ultrasound and MRI Compared"
 - "Ultrasound of the Adult Hip"
 - "Ultrasound of Soft Tissue Masses"
 - "Interventional Musculoskeletal Ultrasound"
- Mar. 24-27, 2010 American Institute of Ultrasound in Medicine, 55th Annual Convention, San Diego, CA
- "Shoulder Ultrasound"
 - "Ultrasound of the Pitching Elbow"
 - "Ultrasound of Superficial Palpable Lumps"
- Mar. 19, 2010 Visiting Professor, Beth Israel Deaconess Medical Center
Department of Radiology, Boston, MA
- Grand Rounds: "Introduction to Musculoskeletal Ultrasound"
 - Resident Case Conference
- Mar. 18, 2010 Ultrasound 2010 Post Graduate Course, Brigham and Women's Hospital Department of Radiology and Harvard Medical School Department of Continuing Education, Boston, MA
- "Ultrasound of Soft Tissue Masses"
 - "Ultrasound of the Shoulder and Elbows"
 - "Ultrasound of Liver and Kidney Transplants"
- Mar. 6, 2010 Professional Baseball Athletic Trainers Society Florida Spring Training Seminar, Tampa, FL
- "Diagnostic Ultrasound"
- Mar. 3, 2010 37th Annual Course in Electrodiagnostic Medicine, Jefferson Medical College, Philadelphia, PA
- "Peripheral Nerve US"
- Jan. 23, 2010 Jefferson Musculoskeletal Imaging Symposium, Philadelphia, PA
- "Musculoskeletal Ultrasound Applications in the Upper Extremity"
 - "Musculoskeletal Ultrasound Applications in the Lower Extremity"

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- Oct. 31, 2009 Society of Radiologists in Ultrasound 19th Annual Meeting and Postgraduate Course, Chicago, IL
•"Sonography of Superficial Soft Tissue Masses"
- Oct. 19, 2009 American College of Rheumatology and Association of Rheumatology Health Professionals Annual Scientific Meeting, Philadelphia, PA
•Clinicopathologic Conference: "A 24-Year-Old Male Smoker with a Blue Hand"
- Oct. 1-4, 2009 19th Annual Conference of the Musculoskeletal Ultrasound Society, Barcelona, Spain
•"Subacromial Impingement"
•"Differential Diagnosis of Popliteal Fossa Pathology"
- July 16-18, 2009 Andrews Institute Sports Musculoskeletal Ultrasound Course, Pensacola, FL
•"Knee Ultrasound Exam"
•"Elbow Pathology"
•"Soft Tissue Pathology"
•"Ultrasound Certification Requirements"
- July 9-11, 2009 AIUM Postgraduate Course: Hands-on Musculoskeletal Ultrasound: Diagnostic and Interventional Techniques, Mayo Clinic, Rochester, MN
•"General Applications of Musculoskeletal Ultrasound"
•"Common Wrist and Hand Disorders"
•"Common Ankle and Foot Disorders"
•"Ultrasound-Guided Ankle and Foot Procedures"
•"Ultrasound-guided Elbow Procedures"
- July 3, 2009 Tenth Armenian Medical World Congress, New York, NY
•"Ultrasound-guided Musculoskeletal Interventions"
- June 14, 2009 Jefferson Musculoskeletal Imaging Symposium, Philadelphia, PA
•"Ultrasound Evaluation of the Ankle"
- June 5, 2009 Pennsylvania Academy of PM&R Meeting, Philadelphia, PA
•"Ultrasound-guided Musculoskeletal Interventions"
- May 19-20, 2009 The Leading Edge in Diagnostic Ultrasound, Atlantic City, NJ
• Director, Musculoskeletal Ultrasound Course
• "Introduction to Musculoskeletal Ultrasound"
• "Ultrasound of the Shoulder: Pathology"
• "Ultrasound of Soft Tissue Masses"
• "Ultrasound of the Foot and Ankle"
• "Interventional Musculoskeletal Ultrasound"

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- "Color Doppler in Musculoskeletal Ultrasound"
 - "Musculoskeletal Ultrasound: the Requisites"
- Apr. 26-May 1, 2009 American Roentgen Ray Society, 109th Annual Meeting, Boston, MA
- "Ultrasound Turf Issues"
 - "Overview of Musculoskeletal Sonography"
- Apr. 9, 2009 Grand Rounds, Division of Rheumatology, Department of Medicine, Thomas Jefferson University Hospital, Philadelphia, PA
- "Introduction to Musculoskeletal Ultrasound"
- Apr. 2-5, 2009 American Institute of Ultrasound in Medicine, 54th Annual Convention, New York, NY
- Moderator, "Interventional Musculoskeletal Ultrasound"
 - Hands-on Faculty, "Peripheral Nerve Ultrasound"
- Mar. 28, 2009 Grand Rounds, Department of Physical Medicine and Rehabilitation, Hospital of the University of Pennsylvania, Philadelphia, PA
- "Introduction to Musculoskeletal Ultrasound"
- Mar. 6, 2009 36th Annual Course in Electrodiagnostic Medicine, Jefferson Medical College, Philadelphia, PA
- "Ultrasound Diagnosis of Neuromuscular Disease"
- Feb. 18, 2009 Visiting Professor, Indiana University Department of Radiology, Indianapolis, IN
- "Introduction to Musculoskeletal Ultrasound"
 - "Ultrasound Case Presentation"
 - "Ultrasound-guided Musculoskeletal Interventions"
- Feb. 6-7, 2009 Andrews Institute Sports Musculoskeletal Ultrasound Course, Pensacola, FL
- "Shoulder Therapeutics"
 - "Knee Ultrasound Exam"
 - "Professional Sports Injuries – MSK Ultrasound Experience"
 - "Elbow Therapeutics"
 - "Soft Tissue Pathology"
- Dec. 8, 2008 Visiting Professor, New York Roentgen Society Monthly Meeting
- "Musculoskeletal Ultrasound Imaging"
- Dec. 1, 2008 Radiological Society of North America, 94th Scientific Assembly and Annual Meeting, Chicago, IL
- "Turf Issues in Musculoskeletal Ultrasound" (Special Focus Session)

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- Oct. 23-24, 2008 Advances in Sonography, 18th Annual Meeting & Postgraduate Educational Course of the Society of Radiologists in Ultrasound
- "Ultrasound-guided Minimally Invasive Musculoskeletal Surgery"
 - "Teaching Ultrasound: Are We Sleeping With the Enemy?" (Panel Discussion)
- Aug. 10, 2008 Update in Musculoskeletal Ultrasound, CT Radiology Complex, Bayamon, PR
- "General Concepts of Musculoskeletal Ultrasound"
 - "Ultrasound of the Shoulder"
 - "Ultrasound of the Elbow"
 - "Ultrasound of the Hand and Wrist"
 - "Ultrasound of the Hip and Knee"
 - "Ultrasound of the Foot and Ankle"
- July 10-12, 2008 AIUM Postgraduate Course: Hands-on Musculoskeletal Ultrasound: Diagnostic and Interventional Techniques, Mayo Clinic, Rochester, MN
- "General Applications of Musculoskeletal Ultrasound"
 - "Ultrasound-guided Elbow Procedures"
 - "Common Foot and Ankle Disorders"
 - "Ultrasound-Guided Foot and Ankle Procedures"
- May 26-27, 2008 The Use of Ultrasound in Diagnosis and Treatment of Disorders in the Tendon, Hospital for Rehabilitation, Stavern, Norway
- "Treatment of Tendinopathies with Dry Needling"
 - "Ultrasound-Guided Minimally Invasive Musculoskeletal Surgery"
 - "Future of Musculoskeletal Ultrasound"
- May 20-22, 2008 The Leading Edge in Diagnostic Ultrasound, Atlantic City, NJ
- Director, Musculoskeletal Ultrasound Course
 - "Introduction to Musculoskeletal Ultrasound"
 - "Ultrasound of the Shoulder: Pathology"
 - "Ultrasound of the Elbow"
 - "Ultrasound of the Foot and Ankle"
 - "Interventional Musculoskeletal Ultrasound"
 - "Musculoskeletal US vs. MRI: Which to Choose?"
 - "Musculoskeletal Ultrasound: the Requisites"
- Apr. 16, 2008 Visiting Professor, Georgetown University Hospital Department of Radiology
- "Ultrasound Boards Review"
- Apr. 9, 2008 Ultrasonic Industry Association 37th Annual Symposium, Alexandria, VA
- "Impact of Musculoskeletal Ultrasound Imaging in Guiding Minimally Invasive Treatments"

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- Mar. 13-15, 2008 American Institute of Ultrasound in Medicine, 53rd Annual Convention, San Diego, CA
- "Just Images: Knee Ultrasound"
 - "Shoulder Ultrasound: Rotator Cuff Pathology"
- Mar. 5, 2008 Grand Rounds, Neurology Associates, PA, Christiana Care Health System, Newark, DE
- " Musculoskeletal Ultrasound in Peripheral Neuropathies"
- Feb. 6, 2008 Grand Rounds, Department of Emergency Medicine, Christiana Care Health System, Newark, DE
- "General Musculoskeletal Ultrasound"
- Dec. 5, 2007 Grand Rounds, Temple University Department of Physical Medicine and Rehabilitation, Moss Rehabilitation Institute, Elkins Park, PA
- "Ultrasound of the Shoulder"
- July 13-14, 2007 Co-Director, AIUM Postgraduate Course: Hands-on Musculoskeletal Ultrasound: Diagnostic and Interventional Techniques, Mayo Clinic, Rochester, MN
- "General Applications of Musculoskeletal Ultrasound"
 - "Ultrasound-guided Elbow Procedures"
 - "Common Foot and Ankle Disorders"
 - "Ultrasound-Guided Foot and Ankle Procedures"
- June 23, 2007 Jefferson Musculoskeletal Imaging Symposium, Philadelphia, PA
- "Ultrasound of the Shoulder"
 - Hands-On Ultrasound Practicum: Evaluation of the Shoulder and Knee
- June 7, 2007 Annual Partners HealthCare System PM&R Physician's Day Program, Harvard Medical School
- "Diagnosis and Treatment of Patients with Musculoskeletal Disorders Using Ultrasound"
- May 19, 2007 American Roentgen Ray Society, 107th Annual Meeting, Orlando, FL
- "Subscapularis Tendon Tears: a Common Sonographic Finding in Symptomatic Post-Arthroplasty Shoulders" (abstract)
- May 1-2, 2007 The Leading Edge in Diagnostic Ultrasound, Atlantic City, NJ
- Director, Musculoskeletal Ultrasound Course
 - "Introduction to Musculoskeletal Ultrasound"
 - "Interventional Musculoskeletal Ultrasound"
 - "Ultrasound of the Foot and Ankle"
 - "Ultrasound of Soft Tissue Masses"

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- "Color Doppler in Musculoskeletal US"
 - "Musculoskeletal Ultrasound: the Requisites"
- Mar. 28, 2007 Grand Rounds, Department of Physical Medicine and Rehabilitation, Thomas Jefferson University Hospital, Philadelphia, PA
- "Ultrasound Guided Musculoskeletal Interventions"
- Mar. 15-18, 2007 American Institute of Ultrasound in Medicine, 52nd Annual Convention, New York, NY
- "Organizing a Musculoskeletal US Practice: the Prerequisites"
 - "Prerequisites for the Diagnostic and Therapeutic Standardized Musculoskeletal US Examination"
 - Meet the Professor: "Interventional Musculoskeletal US Update"
- Feb. 24, 2007 Ninth Annual Hand Surgery Symposium, Philadelphia PA
- "Imaging of Tennis Elbow: Ultrasound / MRI"
- Dec. 17, 2006 Musculoskeletal Ultrasound Seminar, CT Radiology Complex, Bayamon, PR
- "General Concepts of Musculoskeletal Ultrasound"
 - "Ultrasound of the Shoulder"
 - "Ultrasound of the Elbow"
 - "Ultrasound of the Hand and Wrist"
 - "Ultrasound of the Hip and Knee"
 - "Ultrasound of the Foot and Ankle"
- Nov. 15, 2006 Radiology Grand Rounds, Albert Einstein Medical Center, Philadelphia, PA
- "General Concepts of Musculoskeletal Ultrasound"
- Oct. 20, 2006 Advances in Sonography, 16th Annual Meeting and Postgraduate Educational Course of the Society of Radiologists in Ultrasound, San Francisco, CA
- "Ultrasound of the Ankle and Foot"
- Oct. 14-15, 2006 Beijing International Musculoskeletal and Interventional Ultrasound Symposium, Beijing, People's Republic of China
- "Review of Musculoskeletal US"
 - "Shoulder US: Common Pathology"
 - "Foot and Ankle US: Anatomy and Pathology"
 - "Knee and Hip US: Anatomy and Pathology"
 - "Interventional Musculoskeletal US"
- Oct 13, 2006 Visiting Professor, Peking University Third Hospital, Beijing, People's Republic of China
- "General Concepts of Musculoskeletal Ultrasound"

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- May 24-25, 2006 The Leading Edge in Diagnostic Ultrasound, Atlantic City, NJ
- Director, Musculoskeletal Ultrasound Course
 - "Introduction to Musculoskeletal Ultrasound"
 - "Ultrasound of the Elbow"
 - "Ultrasound of the Foot and Ankle"
 - "Ultrasound of Soft Tissue Masses"
 - "Musculoskeletal US vs. MRI: Which to Choose?"
 - "Musculoskeletal Disease Seen During Vascular Testing"
- May 2, 2006 American Roentgen Ray Society, 106th Annual Meeting,
Vancouver, BC, Canada
- "Ultrasound of Common Foot and Ankle Abnormalities"
- Mar. 29, 2006 Grand Rounds, Temple University Department of Physical
Medicine and Rehabilitation, Moss Rehabilitation Institute, Elkins
Park, PA
- "Musculoskeletal Ultrasound in Physiatry"
 - "Ultrasound Guided Musculoskeletal Interventions"
- Mar. 25-26, 2006 American Institute of Ultrasound in Medicine, 51st Annual
Convention, Washington, DC
- "Ultrasound Guided Sports Medicine Therapy" (categorical
course)
 - Meet the Professor Session: "Ultrasound Applications in Sports
Medicine"
 - Moderator, Categorical Course on Interventional
Musculoskeletal Ultrasound
- Jan 12, 2006 Grand Rounds, Division of Rheumatology, Department of
Medicine, Thomas Jefferson University Hospital, Philadelphia, PA
- "Shoulder Ultrasound"
- Nov 29, 2005 Radiological Society of North America, 91st Scientific Assembly
and Annual Meeting, Chicago, IL
- "US-Guided Percutaneous Needle Tenotomy for Treatment of
Common Extensor Tendinosis in the Elbow" (abstract)
- Nov 6-7, 2005 Musculoskeletal Ultrasound Society 15th Annual Conference,
Orlando, FL
- "Ultrasound Guided Sports Medicine Therapy"
 - "New Technologies in Musculoskeletal Ultrasound"
- Oct. 29, 2005 American Academy of Physical Medicine and Rehabilitation 66th
Annual Assembly, Philadelphia, PA
- "Musculoskeletal Ultrasound in Physiatry: a Broad Sweep"
 - "Foot and Ankle Ultrasound: Techniques, Pitfalls, and Common
Conditions"

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- Oct. 15, 2005 Jefferson Lower Extremity Imaging Symposium
•"Ultrasound Applications in the Lower Extremity"
- Sep. 24-25, 2005 34th Diagnostic Ultrasound in Obstetrics and Gynecology and Abdomen, Johns Hopkins University School of Medicine, Baltimore MD
•"Ultrasound of the Shoulder"
•"Ultrasound of the Knee, Ankle, and Foot"
•"Ultrasound-Guided Musculoskeletal Interventions"
- Sep. 16-18, 2005 Musculoskeletal Ultrasound for the Rheumatologist: the Antonio J. Reginato Course, UMDNJ-Cooper University Hospital, Camden, NJ
•"Introduction to Musculoskeletal Ultrasound"
•"Ultrasound of the Elbow"
•"Interventional Procedures in Musculoskeletal Ultrasound"
- Aug. 19-21, 2005 Director, AIUM Regional Course: Musculoskeletal Ultrasound: A Practical, Hands-On Approach. New York, NY
•"General Concepts of Musculoskeletal Ultrasound"
•"Elbow Ultrasound"
- Aug. 5-6, 2005 Musculoskeletal Sonography in Sports Medicine: Update and Workshop. Department of Radiology, University of Innsbruck, Innsbruck, Austria
•"Ultrasound of the Shoulder"
•"New Aspects of US-guided Therapy in Sports Medicine"
- June 20-21, 2005 American Institute of Ultrasound in Medicine, 50th Annual Convention, Orlando, FL
•"Ultrasound of the Elbow"
• Meet the Professor Session:"Interventional Procedures in Musculoskeletal Ultrasound"
• Moderator, Musculoskeletal US Categorical Course and Hands on Scanning Sessions
- June 4, 2005 Pennsylvania Academy of Physical Medicine and Rehabilitation 2005 Annual Meeting, Hershey, PA
• "Musculoskeletal Ultrasound Workshop"
- May 18, 2005 American Roentgen Ray Society, 105th Annual Meeting, New Orleans, LA
• Moderator, Musculoskeletal Ultrasound Scientific Session
• Instructional Lecture: "Musculoskeletal Ultrasound: Boom or Bust for Radiologists?"
- May 11-12, 2005 The Leading Edge in Diagnostic Ultrasound, Atlantic City, NJ
• Director, Musculoskeletal Ultrasound Course

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- "Introduction to Musculoskeletal Ultrasound"
 - "Ultrasound of the Foot and Ankle"
 - "Ultrasound of Soft Tissue Masses"
 - "Color Doppler in Musculoskeletal Ultrasound"
 - "Musculoskeletal Disease Seen During Vascular Testing"
- May 3, 2005 Grand Rounds, Department of Podiatry, Presbyterian Hospital, Philadelphia, PA
- "Ultrasound of the Foot and Ankle"
- Mar. 12, 2005 Tendinopathy Seminar presented by Excel Physical Therapy, West Conshohocken, PA
- "Imaging of Tendon Problems...No Better Choice than Ultrasound"
- Feb. 12, 2005 Jefferson Upper Extremity Imaging Symposium, Philadelphia, PA
- "Shoulder and Elbow Sonography"
- Dec. 15, 2004 Guest Speaker, Northern Valley Rehab Society, Cresskill, NJ
- "Musculoskeletal Ultrasound: Wave of the Future"
- Dec. 1, 2004 Radiological Society of North America, 90th Scientific Assembly and Annual Meeting, Chicago, IL
- "Musculoskeletal Ultrasound: Do We Want to Keep it or Do We Want to Give it Away? Viewpoint of the Ultrasound Zealot" (plenary session)
- Oct. 31, 2004 Fourteenth Annual Meeting and Postgraduate Course, Society of Radiologists in Ultrasound, Washington, DC
- "Interventional Procedures in Musculoskeletal Ultrasound"
- Oct. 22-24, 2004 Seventh Annual North American Musculoskeletal Imaging Symposium: A Multidisciplinary Approach to the Upper Extremity, Toronto, Ontario, Canada
- "Anatomy and Ultrasound of the Normal Shoulder"
 - "Elbow Examination: Live Demonstration"
 - "Interventional MSK Ultrasound: A New Treatment Technique"
- Sep. 29, 2004 Grand Rounds, Department of Physical Medicine and Rehabilitation, Thomas Jefferson University Hospital, Philadelphia, PA
- "Musculoskeletal Ultrasound: Wave of the Future"
- Sep. 17, 2004 Grand Rounds, Division of Rheumatology, Department of Medicine, Thomas Jefferson University Hospital, Philadelphia, PA
- "Ultrasound of Articular and Periarticular Abnormalities"
- June 26, 2004 Jefferson Lower Extremity Imaging Symposium, Philadelphia, PA

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- "Foot and Ankle Sonography"
- June 20-22, 2004 American Institute of Ultrasound in Medicine, 49th Annual Convention, Phoenix, AZ
- Meet the Professor Session: "How to Establish a Musculoskeletal Ultrasound Practice"
 - "Musculoskeletal Ultrasound in Sports Medicine: the Sonologist's Perspective" (categorical course)
 - Instructor, Musculoskeletal US Hands on Scanning Session
 - Panelist, General Imaging Film Panel
- May 11, 2004 The Leading Edge in Diagnostic Ultrasound, Atlantic City, NJ
- "Angiogenesis Evaluated with Ultrasound Imaging"
- Apr. 18, 2004 Ultrasonics Industry Association 2004 Medical Workshop, New York, NY
- "Clinical Musculoskeletal Ultrasound Imaging: State-of-the-Art and Future Challenges"
- Mar. 20, 2004 Visiting Professor, Illinois Bone and Joint Institute, Morton Grove, IL
- "Shoulder Sonography"
 - "Sonography of the Foot and Ankle"
- Feb. 21, 2004 Jefferson Upper Extremity Imaging Symposium, Philadelphia, PA
- "Shoulder Sonography"
- Dec. 3, 2003 Radiological Society of North America, 89th Scientific Assembly and Annual Meeting, Chicago, IL
- "Comparing contrast-enhanced ultrasound to angiogenic markers from melanoma in a murine model" (abstract)
- Oct. 21, 2003 Greater Delaware Valley Ultrasound Society, Philadelphia, PA
- "Shoulder Ultrasound Seminar"
- Oct. 18, 2003 Thirteenth Annual Meeting and Postgraduate Course, Society of Radiologists in Ultrasound, Chicago, IL
- Moderator, "Musculoskeletal Ultrasound: An Update on Diagnosis and Intervention"
 - "Ultrasound of Foot and Ankle: Diagnosis and Intervention"
 - Instructor, hands-on scanning session
- Oct. 11, 2003 Musculoskeletal Ultrasound Society 13th Annual Meeting, Washington, DC
- "Sports Interventional Procedures"
 - "US Anatomy and Pathology of the Foot and Ankle"
 - Instructor, Hands-on Scanning Sessions

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- Sep. 20, 2003 Jefferson Hospital Philadelphia Distance Run Health Expo, Philadelphia, PA
•"Ultrasound in the Diagnosis and Treatment of Injuries in Runners"
- Sep. 17, 2003 Grand Rounds, Division of Rheumatology, Department of Medicine, Thomas Jefferson University Hospital, Philadelphia, PA
•"Updates on the use of Musculoskeletal Ultrasound"
- June 2-4, 2003 10th Congress of the World Federation for Ultrasound in Medicine and Biology hosted by the American Institute of Ultrasound in Medicine, Montreal, Quebec, Canada
• Moderator, Scientific Session, "Musculoskeletal Ultrasound: Joints and Tendons"
• "Detection of Tendon Tears by Ultrasound-Guided Fluid Injection" (abstract)
• Meet the Professor Session: "Musculoskeletal Ultrasound"
• "Ankle Ultrasound"
- May 14-15, 2003 The Leading Edge in Diagnostic Ultrasound, Philadelphia, PA
• Director and Moderator, Musculoskeletal Ultrasound Course
• "General Concepts of Musculoskeletal Ultrasound"
• "Ultrasound of the Foot and Ankle"
• "Musculoskeletal Soft Tissue Masses"
•"Ultrasound in Sports Medicine: the Radiologist's Perspective"
- Apr. 30, 2003 Visiting Professor, Northwestern University-Feinberg School of Medicine, Department of Radiology, Chicago, IL
• Grand Rounds: "Sports Ultrasound"
•"General Concepts of Musculoskeletal Ultrasound"
• Resident Case Presentations
- Mar. 13, 2003 Visiting Professor, Department of Radiology, Joan and Sanford I. Weill Medical College of Cornell University, New York, NY
• Grand Rounds: "Sports Ultrasound"
• Resident Case Presentations
- Feb. 26, 2003 Visiting Professor, Department of Radiology, University of Maryland Medical Center, Baltimore, MD
• Grand Rounds: "Applications of Musculoskeletal Ultrasound in Sports Medicine"
• Resident Case Presentations
- Feb. 20, 2003 Phoenix Ultrasound Society, Phoenix, AZ
•"General Concepts of Musculoskeletal Ultrasound"
• "Musculoskeletal Ultrasound in Sports Medicine"

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- Feb. 5, 2003 Visiting Professor, Department of Radiology, Columbia University College of Physicians and Surgeons, New York, NY
- Grand Rounds: "Musculoskeletal Ultrasound in Sports Medicine"
 - "General Concepts of Musculoskeletal Ultrasound"
 - Resident Case Presentations
- Dec. 3-5, 2002 Radiological Society of North America, 88th Scientific Assembly and Annual Meeting, Chicago, IL
- "Quantitative acoustic evaluation of skin conditions in patients with scleroderma" (abstract)
 - "Trends In Nationwide Utilization Of Musculoskeletal Ultrasound: a Five-Year Analysis of the Medicare Population" (abstract)
- Oct. 26, 2002 Twelfth Annual Meeting and Postgraduate Course, Society of Radiologists in Ultrasound, San Francisco, CA
- Moderator: Session on Ultrasound of the Shoulder
 - "Diagnostic and Therapeutic Interventions in Musculoskeletal Ultrasound with Emphasis on the Shoulder"
 - Instructor, hands-on scanning session
- Oct. 19-20, 2002 Fifth Annual North American Symposium on Musculoskeletal Ultrasound, Toronto, Ontario, Canada
- "Common Pathology of the Ankle and Foot"
 - "Interventional Musculoskeletal Ultrasound"
 - Instructor, hands-on scanning sessions
- Sep. 12, 2002 Grand Rounds, Division of Rheumatology, Department of Medicine, Thomas Jefferson University Hospital, Philadelphia, PA
- "General Concepts of Musculoskeletal Ultrasound"
- June 21, 2002 Grand Rounds, Pennsylvania Hospital Department of Radiology, Philadelphia, PA
- "Application of Musculoskeletal Ultrasound to Sports Medicine"
- May 28, 2002 Visiting Professor, Bryn Mawr Hospital Department of Radiology, Bryn Mawr, PA
- Resident Case Presentations
- May 20, 2002 Ultrasonic Industry Association Medical Workshop, Atlantic City, NJ
- "Applications of Power Doppler in Musculoskeletal Sonography"
- May 14, 2002 Greater Delaware Valley Ultrasound Society, Philadelphia, PA
- "Sports Ultrasound"
- May 2, 2002 American Roentgen Ray Society 102nd annual meeting, Atlanta, GA
- "Interventional Musculoskeletal Ultrasound"

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- Apr. 16, 2002 The Eastern Radiological Society Annual Meeting, Sea Island, GA
- "Ultrasound of the Foot and Ankle"
 - "Ultrasound of the Shoulder"
- Mar. 8-10, 2002 American Institute of Ultrasound in Medicine, 46th Annual Convention, Nashville, Tennessee
- Pre-convention course:
- "Upper Extremity Venous Ultrasound"
 - "Peripheral Arterial Ultrasound of the Lower Extremity"
- Categorical Course:
- "Ankle Sonography"
 - Instructor, Musculoskeletal Hands on Scanning Session
- Jan. 9, 2002 Grand Rounds, Department of Rehabilitation Medicine, Magee Rehabilitation Hospital, Philadelphia, PA
- "Musculoskeletal Ultrasound"
- Nov. 28, 2001 Radiological Society of North America, 87th Scientific Assembly and Annual Meeting, Chicago, IL
- "Dynamic Sonography of the Ulnar Collateral Ligament of the Elbow in Asymptomatic Major League Professional Baseball Pitchers" (abstract)
- Nov. 6, 2001 Delaware Radiological Society, Dover, DE
- "General Concepts of Musculoskeletal Ultrasound"
- Oct. 27, 2001 Advances in Sonography, 11th Annual Meeting and Postgraduate Educational Course of the Society of Radiologists in Ultrasound, New Orleans, LA
- "Ultrasound of the Ankle and Foot"
 - Instructor, Musculoskeletal Hands on Scanning Session
- Oct. 15, 2001 Philadelphia Dermatological Society, Philadelphia, PA
- "Applications of Ultrasound in Detection of Superficial Melanoma Metastases"
- Oct. 11, 2001 Musculoskeletal Ultrasound Society 11th Annual Meeting, Washington, DC
- "US Anatomy of the Foot and Ankle"
 - Instructor, Hands-on Scanning Session
- May 20, 2001 Sixth Annual Jefferson Lower Extremity Advanced Imaging Symposium, Philadelphia, PA
- "Ultrasound of the Foot/Ankle"

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- May 17, 2001 Visiting Professor, Bryn Mawr Hospital Department of Radiology, Bryn Mawr, PA
- Resident Case Presentation
- May 9-10, 2001 The Leading Edge in Diagnostic Ultrasound, Atlantic City, NJ
- Director and Moderator, Musculoskeletal Ultrasound Course
 - "General Concepts of Musculoskeletal Ultrasound"
 - "Ultrasound of the Foot and Ankle"
 - "Musculoskeletal Soft Tissue Masses"
 - "Therapeutic Ultrasound in Musculoskeletal Ultrasound"
- Mar. 12, 2001 American Institute of Ultrasound in Medicine, 45th Annual Convention, Orlando, FL
- "Adaptive Contrast Optimization in Musculoskeletal Sonography: Preliminary Experience" (abstract)
 - "Shoulder Sonography" (categorical course)
 - Instructor, Musculoskeletal Sonography Hands-on Sessions
- Nov. 27, 2000 Radiological Society of North America, 86th Scientific Assembly and Annual Meeting, Chicago, IL
- "CT for Acute Abdominal Pain: Should Focused Studies Be Performed?" (abstract)
- Oct. 31- Nov 1, 2000 Visiting Professor, Department of Radiology, Emory University Hospital, Atlanta, GA.
- Radiology Grand Rounds: "General Concepts of Musculoskeletal Ultrasound"
 - Resident Case Presentations
- Oct. 21-22, 2000 Third Annual North American Symposium on Musculoskeletal Ultrasound, Toronto, Ontario, Canada
- "Anatomy and Ultrasound of the Normal Ankle/Foot"
 - "Common Pathology of the Ankle/Foot"
 - Instructor, Hands-on Scanning Session
- Oct. 4, 2000 Visiting Professor, State Medical University of Armenia, Yerevan, Armenia
- "Recent Advances in Ultrasound Imaging"
- Sep. 7, 2000 Dreiländertreffen 2000 (24th Official Meeting of the Austrian, German, and Swiss Ultrasound Societies), Vienna, Austria
- "Applications of Photopic Imaging in the Musculoskeletal System"
- Sep. 5, 2000 Tyrolean Ultrasound Society, University of Innsbruck, Austria
- "Musculoskeletal Ultrasound: General Applications"
- May 23, 2000 The Leading Edge in Diagnostic Ultrasound, Atlantic City, NJ

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- Director and Moderator, Musculoskeletal Ultrasound Course
 - "Overview of Musculoskeletal Ultrasound"
 - "Ultrasound of the Foot and Ankle"
 - "Ultrasound of Soft Tissue Masses; Interventions in Musculoskeletal Ultrasound"
- Apr. 29, 2000 Fourth Annual Jefferson Shoulder, Elbow & Wrist Advanced Imaging Symposium, Philadelphia, PA
- "Shoulder Sonography"
- Apr. 13, 2000 Visiting Professor, Bryn Mawr Hospital Department of Radiology, Bryn Mawr, PA
- Resident Case Presentations
- Apr. 5, 2000 American Institute of Ultrasound in Medicine, 44th Annual Convention, San Francisco, CA.
- "Kidney Transplants" (categorical course)
- Feb 1, 2000 Grand Rounds, New York Methodist Hospital, Brooklyn, NY
- "Essential Features of Musculoskeletal Ultrasound"
- Jan. 6, 2000 Blue Ribbon Lecture, Philadelphia Roentgen Ray Society, Philadelphia, PA
- "CT of Focal Liver Masses"
- Oct. 15, 1999 Philadelphia Dermatological Society, Philadelphia, PA
- "Ultrasound: Selected Applications in Skin Disease"
- Oct. 10, 1999 Fifth Annual Jefferson Foot, Ankle & Knee Advanced Imaging Symposium, Philadelphia, PA
- "Ultrasound of Ankle Disorders"
- June 15&18, 1999 Visiting Professor, Department of Radiology, Wake Forest Medical Center, Winston-Salem, NC
- "Essential Features of Musculoskeletal Ultrasound"
 - Resident Case Presentations
- May 11-12, 1999 The Leading Edge in Diagnostic Ultrasound, Atlantic City, NJ
- "Essential Features of Musculoskeletal Ultrasound"
 - "Venous US: Diagnoses other than DVT"
- Mar. 15-17, 1999 American Institute of Ultrasound in Medicine, 43rd Annual Convention, San Antonio, TX
- "Safety and Efficacy of Ultrasound-guided Core Biopsy in Diffuse Liver Disease" (abstract)
 - "Ultrasound-Guided Percutaneous Biopsy of Focal Renal Masses: Indications and Results" (abstract)

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- Jan. 29, 1999 Visiting Professor, Bryn Mawr Hospital Department of Radiology, Bryn Mawr, Pa
• Resident Case Presentations
- Dec. 15, 1998 Greater Delaware Valley Ultrasound Society, Philadelphia, PA
• "Ultrasound of the Foot and Ankle"
- May 19, 1998 The Leading Edge in Diagnostic Ultrasound, Atlantic City, NJ
• Director and Moderator, Musculoskeletal Ultrasound Course
• "Soft Tissue Masses"
- May 2, 1998 Fourth Annual Jefferson Foot and Ankle Advanced Imaging Symposium, Philadelphia, PA
• "Sonography of the Foot"
- Apr. 4, 1998 Third Annual Jefferson Shoulder, Elbow & Wrist Advanced Imaging Symposium, Philadelphia, PA
• "Shoulder Sonography"
- Dec 3, 1997 Radiological Society of North America, 83rd Scientific Assembly and Annual Meeting, Chicago, IL
• "Paraspinal ultrasonography is not accurate in evaluating patients with cervical and/or lumbar back pain" (abstract)
- May 16, 1997 The Leading Edge in Diagnostic Ultrasound, Atlantic City, NJ
• "Musculoskeletal Ultrasound"
• "Musculoskeletal Imaging Techniques"
- Apr. 13, 1997 Third Annual Jefferson Foot and Ankle Advanced Imaging Symposium, Philadelphia, PA
• "Sonography of the Foot"
- Mar. 25, 1997 American Institute of Ultrasound in Medicine, 41st Annual Convention, San Diego, CA
• "Paraspinal ultrasonography: lack of utility in evaluating patients with cervical and/or lumbar back pain" (abstract)
• "Can color Doppler flow differentiate recurrent melanoma from benign superficial masses?" (abstract)
- Mar. 2, 1997 Second Annual Jefferson Shoulder, Elbow & Wrist Advanced Imaging Symposium, Philadelphia, PA
• "Shoulder Sonography"
- Dec. 6, 1996 Radiological Society of North America, 82nd Scientific Assembly and Annual Meeting, Chicago, IL
• "CT to rule out retroperitoneal hemorrhage: Does it have an impact on clinical decision-making?" (abstract)

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- Dec. 5, 1996 Radiological Society of North America, 82nd Scientific Assembly and Annual Meeting, Chicago, IL
• "Power Doppler Demonstration of Soft-Tissue Hyperemia in Reflex Sympathetic Dystrophy of the Lower Extremity" (abstract)
- Oct. 7-11, 1996 Musculoskeletal Ultrasound Society Sixth Annual Meeting, Montreal, Quebec, Canada
• Instructor, Hands-on Scanning Sessions
- May 29, 1996 Division of Oncology Research, University of Pennsylvania Medical Center, Philadelphia, PA
• "Power Doppler in the Assessment of Tumor Blood Flow"
- May 10, 1996 The Leading Edge in Diagnostic Ultrasound, Atlantic City, NJ
• "Musculoskeletal Ultrasound"
- Apr. 20, 1996 Second Annual Jefferson Foot and Ankle Advanced Imaging Symposium, Philadelphia, PA
• "Sonography of the Foot"
- Mar. 20, 1996 American Institute of Ultrasound in Medicine, 40th Annual Convention, New York, NY
• "Impact of Superficial Ultrasound on Clinical Management of Patients with Malignant Melanoma" (abstract)
• "Ultrasound Guided Biopsies of Superficial Soft Tissue Masses Suspicious for Recurrent Malignancy" (abstract)
- Mar. 3, 1996 First Annual Jefferson Shoulder & Elbow Advanced Imaging Symposium, Philadelphia, PA
• "Shoulder Sonography"
- Nov. 28, 1995 Radiological Society of North America, 81st Scientific Assembly and Annual Meeting, Chicago, IL
• "Superficial US Alters the Clinical Management of Recurrent Melanoma" (abstract)
- May 12, 1995 The Leading Edge in Diagnostic Ultrasound, Atlantic City, NJ
• "Superficial Imaging"
• "Musculoskeletal Ultrasound" (breakout session)
- Apr. 19, 1995 First Annual Jefferson Foot and Ankle Advanced Imaging Symposium, Philadelphia, PA
• "Sonography of the Foot"
- Mar. 28, 1995 American Institute of Ultrasound in Medicine, 39th Annual Convention, San Francisco, CA
• "Sonography of Ankle Tendons: Normal Sizes and Relationships" (abstract)

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- Feb. 23, 1995 Visiting Professor, The New York Hospital - Cornell Medical Center, New York, NY
- "Interesting Cases"
 - Radiology Grand Rounds: "Laparoscopic and Endoluminal Ultrasound"
- Dec. 1, 1994 Radiological Society of North America, 80th Scientific Assembly and Annual Meeting, Chicago, IL
- "Normal Sonographic Appearance of Synovial Fluid in the Ankle" (abstract)
- Sep. 1-2, 1994 Visiting Professor, Loyola University Medical Center, Maywood, IL
- "First Trimester Ultrasound"
 - "Second and Third Trimester Fetal Anomalies"
- May 20, 1994 Visiting Professor, The New York Hospital - Cornell Medical Center, New York, NY
- "Ultrasound Case Review"
- May 6, 1994 The Leading Edge in Diagnostic Ultrasound, Atlantic City, NJ
- "Interval Growth Analysis: How Important and How Accurate?"
- April 26, 1994 American Roentgen Ray Society, 94th Annual Meeting, New Orleans, LA
- "The Role of Delayed CT in CT Arterial Portography" (abstract)
- May 19, 1993 Association of University Radiologists 41st Annual Meeting, Cincinnati, OH
- "A Longitudinal Study of Fetal Growth" (abstract)
- May 14, 1993 The Leading Edge in Diagnostic Ultrasound, Atlantic City, NJ
- "Case Presentation and Self-Examination"
- May 5, 1993 Visiting Professor, The New York Hospital - Cornell Medical Center, New York, NY
- "Ultrasound Case Review"

Publications:

Peer-reviewed journal articles

1. **Nazarian LN**, Govoni AF, Carter DJ. An 18-year old man with a 4-month history of progressive neck and right shoulder pain. Clin Imag 1990; 14: 67-71.

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2. **Nazarian LN**, Wechsler RJ, Grady CK, Needleman L, Halpern EJ, Copit SE, Shapiro MJ, Rosato FE: CT done 4-6hr after CT arterial portography: value in detecting hepatic tumors and differentiating from other hepatic perfusion defects. *AJR Am J Roentgenol* 1994;163:851-855.
3. **Nazarian LN**, Spencer JA, Mitchell DG. Multiple actinomycotic liver abscesses: MR appearances with etiology suggested by abdominal radiography: case report. *Clin Imag* 1994; 18: 119-122.
4. Alexander AA, Eschelmann D, **Nazarian LN**, Bonn J. Transrectal sonographically guided drainage of deep pelvic abscesses. *AJR Am J Roentgenol* 1994; 162: 1227-1230.
5. Halpern EJ, **Nazarian LN**, Needleman L, Hauck WW, Kurtz AB. Sonographic evaluation of fetal growth rate: significance of the interval between examinations. *AJR Am J Roentgenol* 1994; 163:1491-1494.
6. **Nazarian LN**, Rawool NM, Martin CE, Schweitzer ME. Synovial fluid in the hindfoot and ankle: detection of amount and distribution with US. *Radiology* 1995; 197: 275-278.
7. **Nazarian LN**, Halpern EJ, Kurtz AB, Hauck WW, Needleman L. Normal interval fetal growth rates based on obstetrical ultrasound measurements. *J Ultrasound Med* 1995; 14: 829-836.
8. Liu JB, Feld RI, Goldberg BB, Barbot DJ, **Nazarian LN**, Merton DA, Rawool NM, Cohn HE, Winkel CA, Gillum DR, Vernick JJ. Laparoscopic and thoracoscopic gray-scale and color Doppler ultrasound: preliminary animal and clinical studies. *Radiology* 1995; 194: 851-857.
9. Wechsler RJ, **Nazarian LN**, Grady CK, Halpern EJ. The association of paracardial adenopathy with hepatic metastasis found on CT arterial portography. *Abdom Imaging* 1995; 20: 201-205.
10. Mastrangelo MJ, Maguire HC, McCue P, Lee SS, Alexander A, **Nazarian LN**, Eisenlohr LC, Nathan F, Berd D, Lattime EC. A pilot study demonstrating the feasibility of using intratumoral injections of Vaccinia as a vector for gene transfer. *Vaccine Res* 1995; 4: 55-69.

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11. **Nazarian LN**, Alexander AA, Rawool NM, Kurtz AB, Maguire HC, Mastrangelo MJ. Malignant melanoma: impact of superficial US on management. *Radiology* 1996; 199: 273-277.
12. **Nazarian LN**, Wechsler RJ, Grady CK. The frequency, appearance, and significance of splenic perfusion defects on CT arterial portography. *Abdom Imaging* 1996; 21: 53-57.
13. Wechsler RJ, Spettell CM, Kurtz AB, Lev-Toaff AS, Halpern EJ, **Nazarian LN**, Feld RI, Needleman L, Alexander AA. Effects of training and experience in interpretation of emergency body CT scans. *Radiology* 1996; 199: 717-720.
14. Leder DS, **Nazarian LN**, Burke M. CT of disseminated plasmacytoma in an AIDS patient. *J Comput Assist Tomogr* 1996; 20: 468-470.
15. Feld RI, Liu JB, **Nazarian L**, Lev-Toaff AS, Needleman L, Rawool NM, Merton DA, Segal SR, Rosato FE, Barbot DJ, Goldberg BB. Laparoscopic liver sonography: preliminary experience in liver metastases compared with CT portography *J Ultrasound Med* 1996; 15: 289-295.
16. Lubowitz J, Bartolozzi A, Rubinstein D, Ciccotti M, Schweitzer M, **Nazarian L**, Lombardi J, Dellose S, Landsdorf A, Miller L. How much does inferior capsular shift reduce shoulder volume? *Clin Orthop Relat Res* 1996; 328: 86-90.
17. Karcnik TJ, **Nazarian LN**, Rao VM, Gibbons GE. Foreign body granuloma simulating solid neoplasm on MR. *Clin Imag* 1997; 21: 269-272.
18. Alexander AA, **Nazarian LN**, Feld RI. Superficial soft-tissue masses suggestive of recurrent malignancy: sonographic localization and biopsy. *AJR Am J Roentgenol* 1997; 169:1449-1451.
19. Graif M, Schweitzer ME, **Nazarian L**, Matteucci T, Goldberg BB. Color Doppler hemodynamic evaluation of flow to normal hip. *J Ultrasound Med* 1998; 17: 275-280.
20. Wechsler RJ, Frank ED, Halpern EH, **Nazarian LN**, Jalali S, Ratner ER. Percutaneous lumbar sympathetic catheter placement for short- and long-term pain relief: CT technique and results. *J Comput Assist Tomogr* 1998; 22: 518-523.

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21. **Nazarian LN**, Alexander AA, Kurtz AB, Capuzzi DM, Rawool NM, Gilbert KR, Mastrangelo MJ. Superficial melanoma metastases: appearances on grey scale and color Doppler ultrasonography. *AJR Am J Roentgenol* 1998; 170: 459-463.
22. **Nazarian LN**, Zegel HG, Gilbert KR, Edell SL, Bakst BM, Goldberg BB. Paraspinal ultrasonography: lack of utility in evaluating patients with cervical and/or lumbar back pain. *J Ultrasound Med* 1998; 17: 117-122. See also Nazarian LN, Goldberg BB. Letter to the Editor (Reply). *J Ultrasound Med* 1998; 17: 479-480.
23. **Nazarian LN**, Schweitzer ME, Mandel S, Rawool NM, Parker L, Fisher AM, Feld RI, Needleman L. Power Doppler demonstration of increased soft tissue blood flow in reflex sympathetic dystrophy of the lower extremity. *AJR Am J Roentgenol* 1998; 171:245-1250.
24. Alexander AA, **Nazarian LN**, Capuzzi DM, Rawool NM, Kurtz AB, Mastrangelo MJ. Color Doppler flow in superficial melanoma metastases: histologic correlation. *J Ultrasound Med* 1998; 17: 123-126.
25. Feld R, **Nazarian LN**, Needleman L, Lev-Toaff AS, Segal SR, Rao VM, Bibbo M, Lowry LD. Clinical impact of sonographically guided biopsy of salivary gland masses and surrounding lymph nodes. *Ear Nose Throat J* 1999; 78:905-912.
26. Johnson PT, Wechsler RJ, Fisher AM, Salazar AM, **Nazarian LN**, Steiner RM. Spiral CT of acute pulmonary thromboembolism: evaluation of pleuroparenchymal abnormalities. *J Comput Assist Tomogr* 1999; 23:369-373.
27. **Nazarian LN**, Lev-Toaff AS, Spettell CM, Wechsler RJ. CT assessment of abdominal hemorrhage in coagulopathic patients: impact on clinical management. *Abdom Imaging* 1999 24:246-249.
28. O'Kane P, **Nazarian LN**, Wechsler RJ. Clinical Image. Focally decreased liver enhancement on spiral CT caused by obstruction of the infrarenal inferior vena cava. *J Comput Assist Tomogr* 1998; 22:894-895
29. Halpern EJ, Rutter CM, Gardiner GA, **Nazarian LN**, Wechsler RJ, Levin DB, Kueny-Beck M, Moritz MJ, Carabasi RA, Kahn MB, Smullens SN, Feldman HI. Comparison of Doppler US and CT

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- angiography for evaluation of renal artery stenosis. *Acad Radiol* 1998; 5:524-532.
30. Halpern EJ, **Nazarian LN**, Wechsler RJ, Mitchell DG, Outwater EK, Levin DC, Gardiner GA, Feldman HI. US, CT and MR evaluation of accessory renal arteries and proximal renal arterial branches. *Acad Radiol* 1999; 6:299-304.
 31. Johnson PT, Halpern EJ, Kusyk BS, Heath DG, Wechsler RJ, **Nazarian LN**, Gardiner GA, Levin DC, Fishman EK. Renal artery stenosis: CT angiography – comparison of real-time volume-rendering and maximum intensity projection algorithms. *Radiology* 1999; 211: 337-343.
 32. **Nazarian LN**, Park JH, Halpern EJ, Parker L, Johnson PT, Lev-Toaff AS, Wechsler RJ. Size of colorectal liver metastases on abdominal CT: comparison of pre-contrast and post-contrast studies. *Radiology* 1999; 213:825-830.
 33. Feld R, McGinnis DE, Needleman L, Segal SR, Strup SE, **Nazarian LN**. A novel application for the end-fire sonographic probe: guidance during cryoablation of renal masses. *AJR Am J Roentgenol* 1999; 173:652-654.
 34. **Nazarian LN**, Feld RI, Herrine SK, Webner D, Lev-Toaff AS, Johnson PT, Storey LA, Needleman L. Safety and efficacy of sonographically-guided random core biopsy for diffuse liver disease. *J Ultrasound Med* 2000; 19:537-541.
 35. Lim PS, **Nazarian LN**, Wechsler RJ, Lev-Toaff AS. Clinical image: Hepatic capsular retraction secondary to involuting cavernous hemangioma. *J Comput Assist Tomogr* 2001; 25:234-235.
 36. Feld RI, Rosenberg AL, **Nazarian LN**, Needleman L, Lev-Toaff AS, Segal SR, Johnson PT, Parker L, O'Reilly T. Intraoperative sonographic localization of breast masses: success with specimen and surgical bed sonography to confirm excision. *J Ultrasound Med* 2001; 20:959-966.
 37. Park JH, **Nazarian LN**, Halpern EJ, Feld RI, Lev-Toaff AS, Parker L, Wechsler RJ. Comparison of pre-contrast and post-contrast spiral CT for assessing interval change in colorectal liver metastases. *Acad Radiol* 2001; 8:698-704.
 38. Johnson PT, **Nazarian LN**, Feld RI, Needleman L, Lev-Toaff AS, Segal SR, Halpern EJ. Sonographically guided renal mass

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- biopsy: indications and efficacy. *J Ultrasound Med* 2001; 20: 749-753.
39. Halpern EJ, Frauscher F, Forsberg F, Strup SE, **Nazarian LN**, O'Kane P, Gomella LG. High-frequency Doppler US of the prostate: effect of patient position. *Radiology* 2002; 222: 634-639.
40. Weishaupt D, Schweitzer ME, Rawool NM, **Nazarian LN**, Morrison WB, Natale PM, Winder AA. Indirect MR arthrography of the knee: effects of low-intensity ultrasound on the diffusion rate of intravenously administered Gd-DTPA in healthy volunteers. *Invest Radiol* 2001;36:493-9.
41. Gold L, **Nazarian LN**, Johar AS, Rao VM. Characterization of maxillofacial soft tissue vascular anomalies by ultrasound and color Doppler imaging: an adjuvant to CT and MR. *J Oral Maxillofac Surg* 2003; 61:19-31
42. Forsberg F, Dicker AP, Thakur ML, Rawool NM, Liu JB, Shi WT, **Nazarian LN**. Comparing contrast enhanced ultrasound to immunohistochemical markers of angiogenesis in a human melanoma xenograft model: preliminary results. *Ultrasound Med Biol* 2002; 28: 445-451.
43. Lim PS, **Nazarian LN**, Wechsler RJ, Kurtz AB, Parker L. The endometrium on routine contrast-enhanced CT in asymptomatic post-menopausal women: avoiding errors in interpretation. *Clin Imag* 2002; 26:325-329.
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