

# **Jon A. Jacobson, MD, FACR**

Musculoskeletal Radiologist

Lenox Hill Radiology

61 E. 77<sup>th</sup> Street

New York, New York, 10075

Phone: 734-395-3676

E-mail: [jon.jacobson.rad@gmail.com](mailto:jon.jacobson.rad@gmail.com)

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# CURRICULUM VITAE

## EDUCATION

8/1983 – 4/1987	Wayne State University, Detroit, Michigan Bachelor of Science in Biological Science Honors College, 1987
7/1987 – 6/1991	Wayne State University School of Medicine, Detroit, Michigan Doctor of Medicine, 1991

## POSTGRADUATE TRAINING

7/1991 – 6/1995	Residency Diagnostic Radiology Henry Ford Hospital, Detroit, Michigan
7/1995 – 6/1996	Fellowship Musculoskeletal Radiology University of California, San Diego, San Diego, California

## CERTIFICATION AND LICENSURE

7/1993	Diplomate of the National Board of Medical Examiners
6/1995	Diplomate of the American Board of Radiology
6/1995	State of Michigan Board of Medicine Physician and Controlled Substance License #4301057569
6/1995	State of California Board of Medicine Physician License #G80763
6/1995	DEA, Registration #BJ3834226
7/2001	NIH Human Participants Protection Education for Research Teams Course
Current	Basic Life Support
10/2012	Registered in Musculoskeletal by the American Registry of Diagnostic Medical Sonographers
5/2019	Fellow of the American College of Radiologists
4/2021	State of Ohio Medical License #35.142301
12/2021	State of Kentucky Medical License #56072 (exp. 2-28-23)
8/2022	State of New York License #318919 (exp. 7-31-24)

## **ACADEMIC, ADMINISTRATIVE, AND CLINICAL APPOINTMENTS**

### ***Academic Appointments***

7/1995 – 7/1996	Clinical Instructor of Radiology University of California, San Diego San Diego, California
8/1996 – 3/1998	Assistant Professor of Radiology Case Western Reserve University Cleveland, Ohio
4/1998 – 9/2001	Clinical Assistant Professor of Radiology University of Michigan Ann Arbor, Michigan
9/2001 – 6/2004	Clinical Associate Professor of Radiology University of Michigan Ann Arbor, Michigan
7/2004 – 8/2007	Associate Professor of Radiology University of Michigan Ann Arbor, Michigan
9/2007 – 7/2021	Professor of Radiology University of Michigan Ann Arbor, Michigan
8/2021 – 10/2022	Professor of Radiology University of Cincinnati Cincinnati, Ohio

### ***Administrative Appointments***

7/2003 – 7/2021	Director, Division of Musculoskeletal Imaging Department of Radiology University of Michigan Hospitals
4/2008 – 12/2015	Ambulatory Care Unit Medical Director Dominos Farms and South Main University of Michigan
4/2008 – 12/2019	Ambulatory Care Unit Medical Director Taubman Radiology

	University of Michigan
4/2008 – 6/2020	Assistant Medical Director Northville Health Center University of Michigan
8/2021– current	Section Chief, Musculoskeletal Imaging Department of Radiology University of Cincinnati

### ***Staff Appointments***

7/1995 – 7/1996	University of California, San Diego San Diego, California
8/1996 - 3/1998	Henry Ford Hospital Detroit, Michigan
4/1998 – 8/2021	University of Michigan Hospitals and VA Medical Center Ann Arbor, Michigan
9/2017 – 10/2021	Metro Health (University of Michigan Health System) Grand Rapids, Michigan
8/2021 – 10/2022	University of Cincinnati Cincinnati, Ohio
11/2022 – present	Lenox Hill Radiology / RADNET New York, New York

## **GRANTS**

1. Department of Orthopedic Surgery  
Sonography and MR Imaging Evaluation of Carpal Tunnel Syndrome  
Primary Investigator: Dean Louis, MD  
Study Duration: 2000-2002  
Total Amount: \$12,000
2. Procter and Gamble Pharmaceuticals
  - A. A Randomized, Double-Blind, Parallel, Multicenter, Placebo-Controlled, Two Year Study to Determine the Efficacy and Safety of Orally Administered 5 and 15 mg/day, and 50 mg/week Risedronate in Patients with Medial Compartment Knee Osteoarthritis in North America

- B. Qualification of Radiologic Technologists in North America for the Test-Retest Reliability of Measurements of the Tibiofemoral Joint Space Width in Subjects with Osteoarthritis of the Knee  
Primary Investigator: Curtis W. Hayes, MD  
Study Duration: 1999-2002  
Total Amount: \$347,344  
Salary Support: 4% per year for 3 years
3. National Heart Lung and Blood Institute (5 PO1 HL/8575 25)  
Splanchnic Fatty Acids as a Determinant of Blood Pressure  
Primary Investigator: Roger Grekin, MD  
Study Duration: 7/00 – 6/04  
Total Amount: \$160,539  
Salary Support: 2% per year for 4 years
4. University of Michigan Kinesiology Department  
Assessment of Shoulder Instability with Sonography  
Primary Investigator: Paul Borsa, PhD  
Study Duration: 1/02 – 12/02  
Salary Support: 2.5% for 1 year
5. National Institute for Disability Research and Rehabilitation  
Ergonomic Solutions for Employment: Carpal Canal Pressures and Clinical Outcomes  
Primary Investigator: Robert Werner, MD  
Study Duration: 1/02 – 12/03  
Salary Support: 2% for 2 years
6. University of Michigan Kinesiology Department  
Shoulder Instability in Collegiate Swimmers  
Primary Investigator: Paul Borsa, PhD  
Study Duration: 4/02 – 3/03  
Salary Support: 2.5% for 1 year
7. National Institute for Disability Research and Rehabilitation  
Intracarpal Canal Pressures and Obesity in Carpal Tunnel Syndrome  
Primary Investigator: Robert Werner, MD  
Study Duration: 1/03 – 12/03  
Salary Support: 1% for 1 year
8. University of Michigan General Clinical Research Center (M01-RR00042)  
Predictors of Histologic Severity in Non-alcoholic Fatty Liver Disease  
Primary Investigator: Hari Conjeevarum, MD  
Study Duration: 3/03 – 2/04  
Total Amount: \$17,000  
Salary Support: 2.5% for 1 year

9. NPS Pharmaceuticals/Bioimaging (N001841)  
An 18-Month Double-Blind, Placebo-Controlled, Phase III, Trial with a 12-Month Interim Analysis of the Effect of Recombinant Human Parathyroid Hormone (ALX1-11) on Fracture Incidence in Women with Postmenopausal Osteoporosis  
Primary Investigator: **Jon A. Jacobson, MD**  
Study Duration: 2000-2004  
Total Amount: \$164,190  
Salary Support: 25% per year for 4 years (primary investigator)
10. NPS Allelix Corporation (N003706)  
A Phase III Trial of ALX-11 (rhPTH[1-84]) in Women with Low Bone Mass on Stable Estrogen Replacement Therapy  
Primary Investigator: **Jon A. Jacobson**  
Study Duration: 1/03 – 12/05  
Total Amount \$64,350  
Salary Support: 4% for 3 years
11. NPS Allelix Corporation (N003705)  
An 18-month Open Label Extension Study (OLES) of the Safety and Efficacy of Recombinant Human Parathyroid Hormone rhPTH (1-84), ALX1-11, in Women with Postmenopausal Osteoporosis Who Participated in Protocol ALX1-11-93001  
Primary Investigator: **Jon A. Jacobson**  
Study Duration: 1/03 – 12/05  
Total Amount \$76,050  
Salary Support: 6% for 3 years
12. National Heart Lung and Blood Institute (5 PO1 HL/8575 25)  
Plasma Cortisone in the Metabolic Syndrome  
Primary Investigator: Roger Grekin, MD  
Study Duration: 7/05 – 6/06  
Salary Support: 2% per year for 1 year
13. Assessment of Tibial Plateau Fracture  
Primary Investigator: Madhav Karunakar, MD  
Study Duration: 7/05 – 6/06  
Salary Support: 1% over 1 year
14. R01 AR051384 NIH  
Change in Bone, Arthritis, Function: Hormones and Obesity  
Primary Investigator: MaryFran Sowers, PhD  
Study Duration: 12/05 – 2/10  
Salary Support: 5%, 8%, 8%, 5%, and 5% for total of 5 years
15. Imaging Rotator Cuff Muscle for Computer Modeling  
Primary Investigator: Richard Hughes, PhD  
Study Duration: 7/06 – 6 /07

Salary Support: 3%

16. National Football League Grant  
The Effect of Geographic Bone Bruises on Biologic Markers and MRI Findings of Osteoarthritis after ACL Injury  
Primary Investigator: Riann Palmieri, ATC PhD  
Study Duration: 7/06 – 6/07  
Consultant
17. R21 - HD054529  
Acute Rotator Cuff Tendon Changes Associated with Wheelchair Propulsion  
Primary Investigator: Michael L. Boninger, MD  
Study Duration: 1/2007 – 12/2009  
Total Costs: \$396,927  
Consultant
18. Prospective Comparison of Ultrasound-Guided Percutaneous Platelet-Rich Plasma Injection Versus Tenotomy for Treatment of Gluteus Minimus and Medius Tendinosis  
American Institute of Ultrasound in Medicine  
Study Duration: 8/2010 – 7/2012  
Total Costs: \$10,000  
Primary Investigator
19. NCI 9012  
A randomized gene fusion stratified Phase 2 trial of abiraterone with or without ABT-888 for patients with metastatic castration-resistant prostate cancer.  
Principal Investigator: Maja Hussain, MD  
Study Duration: 4/12 – 7/2021  
Role: Co-investigator
20. UMCC 2011.69  
A phase II trial of cabozantinib (XL184) in patients with castrate-resistant prostate cancer metastatic to bone  
Principal Investigator: David Smith, MD  
Study Duration: 4/12 – 7/2021  
Role: Co-investigator
21. Impact of Platelet Rich Plasma Over Alternative Therapies in Patients with Lateral Epicondylitis  
Radiological Society of North America  
Principal Investigator: Mary Chiavaras, MD PhD  
Study Duration: 7/2012 – 6/2013  
Total Costs: \$56,660  
Role: Co-investigator
22. N019613-00

Evaluation of Recombinant Growth Hormone Therapy to Prevent Muscle Atrophy in Patients with Anterior Cruciate Ligament Tears

Mark Cuban Foundation

Principal Investigator: Christopher Mendias, MD PhD

Study Duration: 6/1/15 - 5/31/17

Total Costs: \$796,994.00

Role: Co-investigator

23. ESCH1904

Establishing a Shoulder Ultrasound Program in Rural Uganda to Diagnose and Guide Treatment for Shoulder Disease

RSNA Derek Harwood-Nash International Education Scholar Grant

Principal Investigator: Jon A. Jacobson, MD

Study Duration: 7/1/19 – 6/30/22

Total Costs: \$93,200.00

Role: Principal Investigator (15% salary support)

24. NIH 1K08AR07393301A1

Personal Surgical Planning to Avoid Hip Dislocation after Total Hip Arthroplasty: Concept of Functional Safe Zone

Principal Investigator: Aidin Eslam Pour, MD

Study Duration: 5/1/19 – 4/30/20

Total Costs: \$165,499.00

Role: Consultant

25. NIH 1 - R21 - AR - 074794 - 01

SVF Cells for Non-operative Treatment of Small Rotator Cuff Tears

Principal Investigator: Tariq Awan, DO

Study Duration: 8/1/19 – 7/1/21

Total Costs: \$624,000.00

Role: Co-Investigator (2% salary support)

## OTHER CLINICAL TRIALS

1. Sanofi Phase 3, Randomized, Multi-Center, Multi-National, Double-Blind Study to Evaluate the Efficacy, Safety, and Pharmacokinetics of Once Daily versus Twice Daily Dosing of Genz-112638 in Patients with Gaucher Disease Type 1 who have Demonstrated Clinical Stability on a Twice Daily Dose of Genz-112638. 2010-2015
2. Novartis CACZ885H2356/57: A randomized, controlled study of ACZ885 (canakinumab) on the treatment and prevention of gout flares in patients with frequent flares for whom NSAIDs and/ or colchicine are contraindicated, not tolerated or ineffective. 2010-2011.



3. Novartis CACZ885H2356E1/57E1: A randomized, controlled extension study of CACZ885H2356/7 on the treatment and prevention of gout flares in patients with frequent flares for whom NSAIDS and/or colchicine are contraindicated, not tolerated or ineffective. 2010-2011.
4. Novartis CACZ885H2356E2/57E2: A randomized, controlled extension study of CACZ885H2356/7 on the treatment and prevention of gout flares in patients with frequent flares for whom NSAIDS and/or colchicine are contraindicated, not tolerated or ineffective. 2010-2011.
5. Janssen Research and Development, LLC. Protocol: CNTO136ARA3005 : A Multicenter, Randomized, Double-blind, Parallel Group Study of CNTO 136 (sirukumab) Administered Subcutaneously as Monotherapy Compared With Adalimumab Monotherapy, in Subjects with Active Rheumatoid Arthritis. 2015
6. Sanofi Protocol EFC13781: Open Label Interventional Multicenter Phase 3b Study to Evaluate Skeletal Response to Eliglustat in Adult Patients Who Successfully Completed the Phase 2 or Phase 3 Studies. 2017-current.

## **HONORS AND AWARDS**

### Undergraduate

- Honors College graduating Cum Laude and Merit Scholar Recipient

### Medical School

- Graduated with High Distinction (ranked 1<sup>st</sup> in graduating class)
- Alpha Omega Alpha Medical Honor Society - 1988
- Medical Alumni Senior Scholarship Award
- William Stapleton Freshman Academic Achievement Award
- Student Research Trainee Award; Lange and McGraw-Hill Book Award
- Gordon B. Myers Memorial Award; Prentis and Weed Scholarships

### Post-graduate

- Chief Resident (Diagnostic Radiology Residency, Henry Ford Hospital); 1994
- Giovanni DiChiro Award for Outstanding Scientific Research (Journal of Computer Assisted Tomography); 1997.

- Certificate of Merit (Radiological Society of North America): Fessell DP, Prasad A, Craig JG, **Jacobson JA**, Habra G, van Holsbeeck MT. Ultrasound guided joint aspiration: Expanding the role of radiology (scientific exhibit); December 1997.
- Certificate of Merit (Radiological Society of North America): Quinn T, Craig JG, **Jacobson JA**, Varma MN, Amin MB, van Holsbeeck MT. MR imaging of peripheral nerve sheath tumors (scientific exhibit); December 1997.
- Certificate of Merit (Radiological Society of North America): Lin J, Weadock WJ, **Jacobson JA**, Fessell DP, Hayes CW. Interactive tutorial of musculoskeletal sonography on the World Wide Web (scientific computer exhibit); December 1999.
- Editor's Recognition Award with Distinction (*Radiology*); 1999.
- Honorable Mention (American Institute of Ultrasound in Medicine) Lin J, Weadock WJ, **Jacobson JA**, Fessell DP, Hayes CW. Sonography of the shoulder: Technique and clinical applications (scientific exhibit); April 2000.
- Silver Medal (American Roentgen Ray Society): Lin J, Weadock WJ, **Jacobson JA**, Fessell DP, Hayes CW. Interactive tutorial of musculoskeletal sonography on the World Wide Web (scientific computer exhibit); May 2000.
- Mentor of the Year (University of Michigan Radiology Residents); June 2000.
- Radiology Resident Research Award (University of Michigan Radiology Department): Horton LK, **Jacobson JA**, Lin J, Hayes CW. MR imaging of anterior cruciate ligament reconstruction; June 2000.
- Advanced Grant Writing Program (Radiological Society of North America); 2000-2001.
- Resident Research Trainee Award (Radiological Society of North America): Chien AJ, **Jacobson JA**, Martel W, Kabeto M. Radial styloid periosteal bone apposition as an indicator of de Quervain tenosynovitis; September 2000.
- Editor's Recognition Award with Distinction (*Radiology*); 2000.
- Certificate of Merit (Radiological Society of North America): Lin J, Weadock WJ, **Jacobson JA**, Fessell DP, Hayes CW. Sonography of the shoulder: technique and clinical applications (scientific exhibit); November 2000.
- Certificate of Merit (Radiological Society of North America): Patel S, Fessell DP, **Jacobson JA**, van Holsbeeck MT, Hayes CW. Pearls, pitfalls, and anatomic variants in ankle and foot sonography (scientific exhibit); November 2000.
- Academic Faculty Development Program (Marconi-Association of University Radiologists); May 2001.
- Elected as Member of International Skeletal Society; September 2001.

- Editor's Recognition Award with Special Distinction (*Radiology*); 2001.
- Certificate of Merit (Radiological Society of North America): Patel SV, **Jacobson JA**, Jamadar DA, Fessell DP, Marcantonio DR, Hayes CW. Hydroxyapatite deposition disease: revisited (scientific exhibit); November 2001.
- Certificate of Merit (Radiological Society of North America): Murry KH, **Jacobson JA**, Fessell DP, Kuhns LR, Farley FA. Sonography of ankle and foot fractures. (scientific exhibit); November 2001.
- Director, New Issues Forum on Musculoskeletal Sonography. American Roentgen Ray Society 102<sup>nd</sup> Annual Meeting, Atlanta, Georgia; May 2002.
- Voted one of metro Detroit's "Best Doctors." Hour Detroit Magazine; October 2002.
- Editor's Recognition Award with Special Distinction (*Radiology*); 2002.
- Associate Editor, Musculoskeletal Imaging Section, *Radiology*; 2003.
- Certificate of Merit (American Roentgen Ray Society): Chien AJ, **Jacobson JA**, Femino JE, Jamadar DA, Lohman CM, Hayes CW. Imaging features of lateral ankle ligament reconstruction (scientific exhibit); May 2003.
- Excellence in Teaching Award (University of Michigan Radiology Residents); June 2003.
- Certificate of Merit (Radiological Society of North America): **Jacobson JA**, Chien AJ, Femino JE, Jamadar DA, Hayes CW. Imaging features of lateral ankle ligament reconstruction (scientific exhibit); December 2003.
- Selected to be included in "Best Doctors in America" 2003-2004.
- Honorable Mention (Blue Cross Blue Shield of Michigan Foundation's 2004 Excellence in Research Award for Students): Roth CJ, **Jacobson JA**, Jamadar DA, Caoili EM, Morag Y, Housner JA. Quadriceps fat pad signal intensity and enlargement at MRI: prevalence and associated findings; May 2004.
- Token of Appreciation from Medical Students Award (Medical Student Teaching, University of Michigan); May 2004.
- Radiology Management Program (Association of University Radiologists – Kodak); May 2005.
- Excellence in Musculoskeletal Teaching Award (University of Michigan Radiology Residents); June 2005.
- Appointed to Editorial Advisory Panel, American Journal of Roentgenology; October 2005.

- Young Investigator Bronze Award (World Federation of Ultrasound in Medicine and Biology): Weaver JS, Girish G, **Jacobson JA**, Jamadar D, Dong Q, Brigido MK, Morag Y. Role of ultrasound in the evaluation of arthritis: a pictorial review (scientific exhibit); May 2006.
- Divisional Excellence in Teaching Award (University of Michigan Radiology Residents); June 2006.
- Excellence in Teaching Award (University of Michigan Radiology Residents); June 2006.
- Recognized for Clinical Excellence at University of Michigan; September 2006.
- Appointed Consultant to the Editor, Radiology; November 2006.
- Elected as Fellow Member to American Institute of Ultrasound in Medicine; November 2006.
- Participant in RSNA Research & Education Foundation's 25 Questions Project; November 2006.
- Certificate of Merit (Radiological Society of North America): Morag Y, Jamadar D, **Jacobson JA**, Kalume-Brigido M, Girish G, Miller B. Imaging of the rotator cable (scientific exhibit); November 2006.
- Trainee Exhibit Presentation 3<sup>rd</sup> Place Award (The Association of University Radiologists): Beyer GR, Girish G, **Jacobson JA**, Morag Y, Dong Q, Franz M, Jamadar DA. Using ultrasound to resolve clinical pitfalls in the diagnosis of hernias (scientific exhibit); April 2007.
- Magna Cum Laude (Radiological Society of North America): Davis KW, **Jacobson JA**, Blankenbaker DG, Schreiber KOL, Graf BK. Understanding the “dark side” of the knee: Imaging of the posterolateral corner (educational exhibit); November 2007.
- Cum Laude (Radiological Society of North America): **Jacobson JA**, Fessell DP, Kalume Brigido M, Morag Y, Kim SM, Jamadar D. Interventional musculoskeletal ultrasound: Techniques and applications (educational exhibit); November 2007.
- Certificate of Merit (Radiological Society of North America): Morag Y, Miller B, Jamadar D, Kalume Brigido M, Girish G, **Jacobson J**. Morphology of Subscapularis Tears: Appreciating Anatomy and Function through Pathology (educational exhibit); November 2007.
- Voted one of the “Best Doctors in Metro Detroit 2008” Vital Magazine, January 2008.
- Appointed Assistant Editor, Musculoskeletal Section, American Journal of Roentgenology, March, 2008.

- Certificate of Merit (American Roentgen Ray Society): Walsh M, **Jacobson JA**, Kim SM, Lucas D, Brandon C, Fessell D. Ultrasound of fat necrosis with MRI and histologic correlation (scientific exhibit); April 2008.
- Divisional Excellence in Teaching Award (University of Michigan Radiology Residents); June 2007.
- Research Mentor of the Year Award (University of Michigan Radiology Residents); June 2007.
- Certificate of Merit (Radiological Society of North America): Morag Y, **Jacobson JA**, et al.: Nondiscogenic causes of sciatic nerve symptoms: a pictorial review (scientific exhibit); December 2008.
- Distinguished Service Award (American Board of Radiology); April 2010.
- Senior Mentor of the Year Award (University of Michigan Radiology Residents); June 2010.
- O'Donoghue Sports Medicine Research Award (American Orthopaedic Society for Sports Medicine); July 2010.
- President's Medal (International Skeletal Society); San Diego, California; September 2011.
- Elected as Fellow of the Society of Radiologists in Ultrasound, Chicago, Illinois; October, 2011.
- Certificate of Merit (American Roentgen Ray Society): Melville D, **Jacobson JA**, Morag Y, Girish G, Brandon C, Jamadar D. Ultrasound of Gamekeeper's Thumb (Educational Exhibit); May 2011.
- Certificate of Merit (American Roentgen Ray Society): Rubin J, **Jacobson JA**, Jamadar D, Brandon C, Kim S. Ultrasound-guided Percutaneous Tenotomy: A Tutorial (Educational Exhibit); May 2011.
- Early Distinguished Career Achievement Award (University of Michigan Medical Center Alumni Association); April 2012.
- Cum Laude Award (American Roentgen Ray Society): Melville D, **Jacobson JA**, Fessell D, Haase S, Brandon C, Kalume Brigido M. Ultrasound of Displaced Ulnar Collateral Ligament Tears of the Thumb: the Stener Lesion Revisited (Electronic Scientific Exhibit); May 2012.
- Excellence in Teaching Award (University of Michigan Radiology Residents); June 2012.
- Awarded Best Scientific Radiology Resident Research Project (University of Michigan); June 2012 (served as mentor and primary investigator).

- Selected to National Best Doctors List; June 2012.
- Honored Educator Award (Radiological Society of North America); August, 2012.
- Best Exhibit (International Skeletal Society): Chiavaras MM, **Jacobson JA**, Smith L, Grainger A. The Distal Biceps Tendon: Anatomy, Pathology, and Advances in Ultrasound Evaluation with MRI Correlation (Educational Exhibit). September 2012.
- Magna Cum Laude Award (Radiological Society of North America): Chiavaras MM, **Jacobson JA**, Cresswell M. Lateral Epicondylitis: Anatomy, Pathology, and Review of Ultrasound-guided Percutaneous Treatments (Educational Exhibit). November 2012.
- Cum Laude Award (Radiological Society of North America): Hammer M, Pai D, Dipietro M, **Jacobson JA**, Caird MS, Craig CL. Ultrasound Evaluation of Pediatric Trigger Thumb (Educational Exhibit). November 2012.
- Certificate of Merit (Radiological Society of North America): Chong ST, Kielar AZ, Wright A, Hallstrom B, **Jacobson JA**. Emergent Evaluation of Acute Hip Pain: Role of MRI in Detection and Characterization of Hip Fractures and Impact on Orthopedic Management (Educational Exhibit). November 2012.
- Silver Medal Award (American Roentgen Ray Society): Chiavaras M, **Jacobson J**, Smith L, Grainger A. The Distal Biceps Brachii: Anatomy, Pathology, and Advances in Ultrasound Evaluation with MRI Correlation (Educational Exhibit). April 2013.
- Best Exhibit (International Skeletal Society): Chiavaras MM, Billone L, **Jacobson JA**. Common Pathologies of the Wrist and Hand: Ultrasound Evaluation with MRI Correlation (Educational Exhibit). October 2013.
- Certificate of Merit (Radiological Society of North America): Dong Q, Girish G, Morag Y, Brandon C, **Jacobson JA**. Magnetic Resonance Imaging and Ultrasound of the Elbow: Normal Anatomy, Variants, and Common Pathology (Educational Exhibit). December 2013.
- Cum Laude (Radiological Society of North America): Yablon C, **Jacobson JA**, Fessell D, Kim SM, Morag Y. Ultrasound-guided procedures of the Foot and Ankle (Educational Exhibit). December 2013.
- RSNA Clinical Trials Methodology Workshop Participant. January 2015.
- Dean's 2015 Outstanding Clinician Award, University of Michigan, October 2015.
- Certificate of Merit (Radiological Society of North America): Dong Q, Fessell D, Kim S, Brandon C, Yablon C, Girish G, **Jacobson JA**. Normal and injured ankle ligaments on ultrasonography with MRI correlation. November 2015.
- Certificate of Distinction, Skeletal Radiology (Manuscript Review), May 2016.

- 2016 Radiology Resident Teaching Award (University of Michigan), June 2016.
- Certificate of Merit (Radiological Society of North America): Taxakis E, Dong Q, Yablon C, Morag Y, **Jacobson JA**. Imaging evaluation of peripheral nerve sheath tumors and tumor-like conditions. November 2016.
- 2017 Honored Educator Award (Radiological Society of North America); July 2017.
- 2018 Stanley Baum Outstanding Poster/Exhibit Award (Association of University Radiologist): Gu E, **Jacobson JA**, Meyer N, Kalia V. Essential Diagnoses Using Musculoskeletal Ultrasound Sonography Made Easy. May 2018.
- Selected as member of Michigan Center for Human Athletic Medicine and Performance (MCHAMP), January 2018.
- Elected as Fellow of the American College of Radiology, Washington D.C.; May 2019.
- Excellence in Teaching Award (University of Michigan Radiology Residents); June 2019.
- Best Oral Presentation (3<sup>rd</sup> Place) for Prevalence of Pseudoerosions and Morphology of Joint Capsule and Recesses of the Hand and Wrist- Ultrasound Findings in 100 Asymptomatic Volunteers. Falkowski A and **Jacobson JA**. European Society of Skeletal Radiology, Lisbon, Portugal; June 2019.
- Magna Cum Laude award for best in subspecialty for presentation “Detailed Characterization of Quadriceps Tendon Tear Patterns and Locations of Rupture: A Retrospective Study” by Falkowski A, Kalia V, **Jacobson JA**. American Roentgen Ray Society Annual Meeting, Honolulu, Hawaii; May 2019.
- Corrine Ferrell Award (International Skeletal Society) for best scientific paper. Morag Y, Yablon C, Brigido MK, **Jacobson JA**, Lucas D. Imaging Appearance of Well-differentiated Liposarcomas with Myxoid Stroma. Skeletal Radiology 2018; 47:1371-1382.
- Certificate of Merit (Radiological Society of North America) for exhibit. Sathiodoss P, Jibri Z, Rakhra K, Sheikh A, **Jacobson JA**, Foster R. Imaging Review of Snapping Tendons. Radiological Society of North America, Chicago, Illinois; December 2019.
- Excellence in Teaching Award (University of Michigan Radiology Residents); June 2020.
- Excellence in Teaching Award (University of Michigan Radiology Residents); June 2021.
- Patrick Liu Award for Best Podium Research Presentation: Establishing a Shoulder Ultrasound Program in Rural Uganda (Society of Skeletal Radiology), Coronado Island, California; March 2022.
- Bronze Medal for Educational Exhibits (6 selected from 653). Morgan D, **Jacobson JA**, England E, Petrides A, Youngquist J, Braley S. Ultrasound Evaluation of Elbow Pathology

and Ultrasound-guided Tendon Treatments. American Roentgen Ray Society, New Orleans, Mississippi; May 2022.

## **MEMBERSHIPS IN PROFESSIONAL SOCIETIES**

1988--	Alpha Omega Alpha Medical Honor Society
2005--	American College of Radiology (Fellow)
1998--	American Institute of Ultrasound in Medicine (Fellow)
1991--	American Roentgen Ray Society
1999--	Association of University Radiologists
2001--	International Skeletal Society
1997--	International Society for Clinical Densitometry
1992--	Radiological Society of North America
2000--	Society of Radiologists in Ultrasound (Fellow)
2009--	Society of Academic Bone Radiologists
1999--	Society of Skeletal Radiology

## **EDITORIAL EXPERIENCE**

### **Editorial Board**

1995 - 2017	Skeletal Radiology (Editorial Board)
1996--	Journal of Ultrasound in Medicine (Subsection Editor)
1997-- 2019	American Journal of Roentgenology (Assistant Editor, MSK)
1998--	Radiology (Consultant to Editor)
2013--	Ultrasonography

### **Manuscript Reviewer**

1995 - 1996	Journal of Computer Assisted Tomography
1995 - 1996	Journal of Rheumatology
2003 - 2006	Arthritis Care and Research
2003--	Journal of Clinical Ultrasound
2004 - 2006	Arthritis and Rheumatism
2004--	Radiographics
2006--	Hemophilia
2006--	Journal of Rehabilitation Medicine
2006--	Journal of the National Comprehensive Cancer Network
2007--	Archives of Physical Medicine and Rehabilitation
2007--	Clinical Orthopaedics and Related Research
2007--	Ultrasound in Medicine and Biology
2017--	Academic Radiology



# TEACHING

## ***Musculoskeletal General Education***

### Medical Student Teaching:

Daily medical student instruction at the workstation.

### Radiology Resident Teaching:

Daily resident instruction at the workstation and hands-on training in musculoskeletal interventional procedures.

### Musculoskeletal Fellow Teaching:

Daily fellow instruction at the workstation and hands-on training in musculoskeletal sonography and interventional procedures.

### Daily Working Conference:

Interesting or difficult cases presented to musculoskeletal radiology faculty for discussion/teaching.

## ***Radiology Resident Education***

Noon Teaching Conference

Weekly Bone Teaching Conference

Senior Resident Boards Review

1<sup>st</sup> Year Radiology Resident Lecture

Radiology Resident Journal Club

## ***Other Resident Education***

Orthopaedic Resident Lectures

Rheumatology Resident Lectures

Physical Medicine and Rehabilitation Lectures

Emergency Medicine Lectures

## ***Medical Student Education***

1st Year Anatomy – Correlative Sonography Demonstration

2nd Year Musculoskeletal Core - Radiology Lectures

3<sup>rd</sup> Year Medical Student Lecture: Musculoskeletal

4<sup>th</sup> Year Radiology Elective - Musculoskeletal Radiology Lecture

4<sup>th</sup> Year Applied Anatomy of the Musculoskeletal System

### ***Undergraduate Student Education***

Athletic Trainer Program, Department of Kinesiology

### ***Graduate Student Education***

#### Faculty Thesis Committee

Jason Seibek – PhD student of Kinesiology

Thesis: Shoulder instability in collegiate athletes

#### Doctoral Committee

Carrie A. Karvonen-Gutierrez – PhD in Department of Epidemiology

Thesis: Knee Osteoarthritis: Intersections of Obesity, Inflammation, and Metabolic Dysfunction

### **INTERDEPARTMENTAL CONFERENCES**

Sarcoma Tumor Board

Rheumatology Conference:

Orthopedic Surgery Case Conference

Orthopedic Radiology Arthroscopy Conference

Primary Care Sports Medicine Conference

Myeloma Clinic Conference:

Sports Medicine Orthopedic Conference

Trauma Burn Conference

Bone Metastasis Clinic Conference:

Nuclear Medicine Controversies in Medicine Conference

Nuclear Medicine Bone Radiology Conference

## SCIENTIFIC ABSTRACT PRESENTATIONS

1. **Jacobson JA**, Karvelis KC, Lyons SV. Technetium-99m sestamibi lung/heart ratio in coronary artery disease. American College of Nuclear Physicians 19th Annual Meeting and Scientific Session, Orlando, Florida; February 1993.
2. **Jacobson JA**, van Holsbeeck MT, Bouffard JA, Shirazi KK. Ultrasonography of musculoskeletal fluid collections. Society of Skeletal Radiology 18th Annual Scientific Session, Tucson, Arizona; March 1995.
3. **Jacobson JA**, Powell A, Bouffard JA, Craig JG, van Holsbeeck MT. Ultrasound detection of soft tissue foreign bodies. American Roentgen Ray Society 96th Annual Meeting, San Diego, California; May 1996.
4. **Jacobson JA**, Starok M, Pathria M, Garfin SR. Ultrasound evaluation of pseudarthrosis after posterolateral spinal fusion: work in progress. Radiological Society of North America 82nd Scientific Assembly and Annual Meeting, Chicago, Illinois; December 1996.
5. **Jacobson JA**, Goldstein GT, Ceulemans RY, Hayes CW. Sonographic findings of the postoperative rotator cuff. American Institute of Ultrasound in Medicine 44<sup>th</sup> Annual Convention, San Francisco, California; April 2000.
6. **Jacobson JA**, Jeffers A, Jebson PJ, Hayes CW. Sonographic diagnosis of snapping triceps syndrome. American Institute of Ultrasound in Medicine 45<sup>th</sup> Annual Convention, Orlando, Florida; March 2001.
7. **Jacobson JA**, Oh E, Propeck T, Jebson PJ, Jamadar DA, Hayes CW. Sonographic evaluation of the scapholunate ligament. Radiological Society of North America 87<sup>th</sup> Scientific Assembly and Annual Meeting, Chicago, Illinois; November 2001.
8. **Jacobson JA**, Sekiya JK, Wojtys EM, Hayes CW. Sonography of the posterolateral structures of the knee: Correlation with cadaveric dissection. Radiological Society of North America 87<sup>th</sup> Scientific Assembly and Annual Meeting, Chicago, Illinois; November 2001.
9. **Jacobson JA**, Propeck T, Jamadar DA, Jebson P, Hayes CW. Sonography of the ulnar collateral ligament: findings in five cadaver elbows with MR arthrography and anatomic correlation. Radiological Society of North America 88<sup>th</sup> Scientific Assembly and Annual Meeting, Chicago, Illinois; December 2002.
10. Girish G, Finlay K, Friedman L, **Jacobson JA**. Ultrasound of postoperative supraspinatus tendon repair with MRI correlation: initial experience. American Roentgen Ray Society's 105<sup>th</sup> Annual Meeting, New Orleans, Louisiana; May 2005.
11. **Jacobson JA**, Jamadar DA, Girish G, Ebrahim F. Dynamic evaluation using musculoskeletal ultrasound. 29<sup>th</sup> Annual Meeting of the Society of Skeletal Radiology, Tucson, Arizona; March 2006.
12. Narayanasamy G, Fowlkes J, Schmitt R, Kripfgans O, **Jacobson JA**, de Maeseneer M, Carson P. Physiologic biometrics of the finger by ultrasound imaging. American Roentgen Ray Society's 107<sup>th</sup> Annual Meeting, Orlando, Florida, May 2007.

13. Neal C, **Jacobson J**, Brandon C, Kalume Brigido M, Morag Y, Girish G. Ultrasound characteristics of Morel-Lavallée Lesions. American Roentgen Ray Society's 107<sup>th</sup> Annual Meeting, Orlando, Florida, May 2007.
14. Park L, **Jacobson J**, Brandon C, Jamadar D, Jiang Y, Sabb B. Sonographic appearance of gout with radiographic and MRI correlation. American Roentgen Ray Society's 107<sup>th</sup> Annual Meeting, Orlando, Florida, May 2007.
15. **Jacobson JA**, Woodrow A, Caoili E, Jamadar D, Morag Y, Kalume-Brigido M, Girish G, Dong Q, Fessell D. Assessment of shoulder ultrasound examination learning curve. Society of Skeletal Radiology 31<sup>st</sup> Annual Meeting, La Quinta, California; March 2008.
16. **Jacobson JA**. Musculoskeletal Ultrasound Evaluation: Focused Versus Comprehensive Technique. Society of Skeletal Radiology 32<sup>nd</sup> Annual Meeting, Charleston, South Carolina; March 2009.
17. **Jacobson JA**, Housner JA, Misko J. Percutaneous tenotomy for the treatment of chronic tendinopathy. Society of Skeletal Radiology 33<sup>rd</sup> Annual Meeting, Las Vegas, Nevada; March 2010.
18. **Jacobson JA**, Yablon C. Ultrasound-guided fenestration of tendons about the hip and pelvis: clinical outcomes. Society of Skeletal Radiology Annual Meeting, Scottsdale, Arizona; March 2015.
19. **Jacobson JA**, Shah Y, Brandser C, Brown RK. Prostate cancer metastases to bone: distribution and imaging characteristics. Society of Academic Bone Radiologists, Gloucester, Massachusetts; July 2017.
20. **Jacobson JA**. Developing a Shoulder Ultrasound Program in Rural Uganda- Initial Experiences. Society of Academic Bone Radiologists Annual Meeting, Virtual; July 2021.

## INVITED LECTURES AND WORKSHOPS

1. University of California, San Diego Citywide Orthopedic Grand Rounds, San Diego, California; May 1996
  - *Musculoskeletal Ultrasound*
2. Radiological Society of North America 82nd Scientific Assembly and Annual Meeting, Chicago, Illinois; December 1996
  - *Musculoskeletal Ultrasound Hands-on Workshop (Refresher Course)*
3. Orthopedic-Radiology Conference, University of California, San Diego, San Diego, California; March 1997
  - *Orthopedic Case Presentations*

4. American Institute of Ultrasound in Medicine 41<sup>st</sup> Annual Convention, San Diego, California; March 1997
  - *Rotator Cuff Sonography*
5. Advanced Technology Laboratories Ultrasound Seminar, Marquette General Hospital, Marquette, Michigan; June 1997
  - *Musculoskeletal Ultrasound with MRI Correlation*
  - *Shoulder Sonography: Technique, Anatomy, and Pathology*
  - *Musculoskeletal Ultrasound Workshop*
6. Radiological Society of North America 83rd Scientific Assembly and Annual Meeting, Chicago, Illinois; December 1997
  - *Musculoskeletal Ultrasound Hands-on Workshop (Refresher Course)*
7. Michigan Ultrasound Society, West Bloomfield, Michigan; January 1998
  - *Ultrasound of Soft Tissue Foreign Bodies*
8. Oakland Community College, Southfield, Michigan; March 1998
  - *Shoulder Sonography*
9. American Institute of Ultrasound in Medicine 42nd Annual Convention, Boston, Massachusetts; March 1998
  - *Shoulder Sonography: Technique, Anatomy, and Pathology*
10. 7<sup>th</sup> Annual Vancouver Imaging Update Course (University of British Columbia), Vancouver, British Columbia, Canada; September 1998
  - *Shoulder Sonography*
  - *Elbow and Wrist Sonography*
  - *Hip, Thigh, and Knee Sonography*
11. Radiological Society of North America 84th Scientific Assembly and Annual Meeting, Chicago, Illinois; November 1998
  - *Foot and Ankle Sonography - Hands-on Workshop (Refresher Course)*
12. 1<sup>st</sup> Annual “Radiology on Captiva Island: A Practical Update” (University of Michigan), Captiva Island, Florida; February 1999
  - *MR Arthrography*
  - *Pitfalls in Musculoskeletal MR Imaging*
  - *Musculoskeletal Sonography with MRI Correlation*
  - *Dual Energy X-ray Absorptiometry and Imaging of Metabolic Bone Disease*
13. American Institute of Ultrasound in Medicine 43<sup>rd</sup> Annual Convention, San Antonio, Texas; March 1999

- *Sonography of the Foot and Ankle*
14. 21<sup>st</sup> Annual Postgraduate Course in Diagnostic Ultrasound (University of Michigan), Ann Arbor, Michigan; September 1999
    - *Shoulder Sonography: Normal Anatomy and Scanning Techniques*
    - *Shoulder Sonography: Advanced Imaging and Pathology*
    - *Foot and Ankle Sonography*
  15. The Western Pennsylvania Hospital, Pittsburgh, Pennsylvania; October 1999
    - *MR Arthrography*
    - *Pitfalls in Musculoskeletal MR Imaging*
    - *Musculoskeletal Radiology Case Conference I*
    - *Musculoskeletal Radiology Case Conference II*
  16. McMaster University Medical Center, Hamilton, Ontario, Canada; November 1999
    - *Shoulder Sonography*
    - *Practical Musculoskeletal Sonography with MRI Correlation*
    - *Musculoskeletal Radiology Review*
  17. Radiological Society of North America 85th Scientific Assembly and Annual Meeting, Chicago, Illinois; November 1999
    - *Musculoskeletal Ultrasound Hands-on Workshop (Refresher Course)*
  18. University of Michigan Orthopedic Surgery Grand Rounds, Ann Arbor, Michigan; December 1999
    - *Ankle Sonography*
  19. Michigan Radiological Society 3<sup>rd</sup> Annual Resident Section Conference, Novi, Michigan; March 2000
    - *Practical Musculoskeletal Sonography with MRI Correlation*
  20. American Institute of Ultrasound in Medicine 44<sup>th</sup> Annual Convention, San Francisco, California; April 2000
    - *Ankle and Foot Sonography*
  21. University of California at San Diego, San Diego, California; April 2000
    - *Sonography of the Shoulder and Ankle*
  22. The Western Pennsylvania Hospital, Pittsburgh, Pennsylvania; April 2000
    - *Musculoskeletal Radiology Review*

23. 22nd Annual Postgraduate Course in Diagnostic Ultrasound (University of Michigan), Ann Arbor, Michigan; September 2000
  - *Practical Musculoskeletal Sonography with MR Imaging Correlation*
  - *Shoulder Sonography: Real-time Workshop*
  - *Elbow and Wrist Sonography: Real-time Workshop*
  - *Foot and Ankle Sonography: Didactic Lecture and Real-time Workshop*
24. University of Michigan Clinical Chair Council, Ann Arbor, Michigan, September 2000
  - *The Impact of Musculoskeletal Sonography as an Alternative to MRI*
25. Medical College of Ohio, Toledo, Ohio; October 2000
  - *Musculoskeletal Radiology Review*
26. Northwest Ohio Radiological Society, Toledo, Ohio; October 2000
  - *MR Arthrography*
27. Radiological Society of North America 86th Scientific Assembly and Annual Meeting, Chicago, Illinois; November 2000
  - *Musculoskeletal Ultrasound Hands-on Workshop (Refresher Course)*
28. Michigan State University, East Lansing, Michigan; February 2001
  - *MR Arthrography*
  - *Imaging of Hip Arthroplasty*
  - *Musculoskeletal Radiology Board Review*
29. 8th Annual "Radiology in the Desert: Practical Aspects of Radiology and Imaging (University of Michigan), Scottsdale, Arizona; February 2001
  - *MR Arthrography*
  - *Pitfalls in Musculoskeletal MR Imaging*
  - *Musculoskeletal Sonography with MRI Correlation*
  - *Imaging of the Postoperative Hip*
30. American Institute of Ultrasound in Medicine 45<sup>th</sup> Annual Convention, Orlando, Florida; March 2001
  - *Update on Musculoskeletal Sonography: Inflammation and Trauma*
  - *Sonography of the Ankle and Foot*
31. Greater Delaware Valley Ultrasound Society, Philadelphia, Pennsylvania; March 2001
  - *Practical Musculoskeletal Sonography with MRI Correlation*
32. American Roentgen Ray Society 101<sup>st</sup> Annual Meeting, Seattle, Washington; May 2001

- *Sonography of the Ankle (Instructional Course)*
33. Canadian Association of Radiologists 64<sup>th</sup> Annual Meeting, Vancouver, British Columbia, Canada; September 2001
    - *Sonography of the Ankle*
    - *Sonography of the Ankle Live Scanning Demonstration*
  34. Musculoskeletal Ultrasound Society 11<sup>th</sup> Annual Conference, Washington, D.C.; October 2001
    - *Knee Ultrasound Taught with Correlative Knee MRI*
    - *Foot and Ankle Pathology – Respective Roles for US and MRI*
    - *Musculoskeletal Hands-on Workshop – Shoulder*
    - *Musculoskeletal Hands-on Workshop – Elbow and Wrist*
    - *Musculoskeletal Hands-on Workshop – Knee*
    - *Musculoskeletal Hands-on Workshop – Ankle and Foot*
  35. Radiological Society of North America 86<sup>th</sup> Scientific Assembly and Annual Meeting, Chicago, Illinois; November 2001
    - *Musculoskeletal Ultrasound Hands-on Workshop (Refresher Course)*
  36. Northwest Ohio Radiological Society, Toledo, Ohio; January 2002
    - *Pitfalls in Musculoskeletal MR Imaging*
  37. 4<sup>th</sup> Annual “Radiology at the Seashore: A Practical Update” (University of Michigan), Captiva Island, Florida; January 2002
    - *MR Arthrography*
    - *Pitfalls in Musculoskeletal MR Imaging*
    - *Imaging of Hip Arthroplasty*
    - *Work-up of Bone Tumors: From Imaging to Biopsy*
  38. 26<sup>th</sup> Annual “Big Sky Radiology Conference” (University of Wisconsin), Big Sky, Montana, February 2002
    - *Pitfalls in Musculoskeletal MR Imaging*
    - *MR Arthrography*
    - *Imaging of Hip Arthroplasty*
    - *Practical Musculoskeletal Sonography with MRI Correlation*
  39. American Institute of Ultrasound in Medicine 46<sup>th</sup> Annual Convention, Nashville, Tennessee; March 2002
    - *Musculoskeletal Sonography: Inflammation and Trauma*
  40. Diagnostic Ultrasound Symposium, Perrysburg, Ohio; March 2002
    - *Shoulder Sonography: Technique, Pathology, and Pitfalls*



41. Skeletal Radiology 2002 (Allegheny General Hospital, Pittsburgh), Scottsdale, Arizona, April 2002
  - *Sonography of the Shoulder*
  - *Sonography of the Ankle*
  - *Sonography of the Elbow and Wrist*
  - *Sonography of the Hip, Thigh, and Knee*
  - *Musculoskeletal Sonography Hands-on Workshop*
42. Phoenix Ultrasound Society, Scottsdale, Arizona, April 2002
  - *Musculoskeletal Sonography Hands-on Workshop*
43. American Roentgen Ray Society 102<sup>nd</sup> Annual Meeting, Atlanta, Georgia; May 2002
  - *Sonography of the Ankle (New Issues Forum)*
44. Surgical and Rehabilitative Approaches to the Knee and Shoulder Symposium (University of Michigan), Ypsilanti, Michigan, May 2002
  - *Shoulder Sonography*
45. Marquette General Hospital, Marquette, Michigan, May 2002
  - *Shoulder Sonography with MRI Correlation*
  - *Shoulder Sonography Hands-on Workshop*
46. Musculoskeletal Ultrasound Society 12<sup>th</sup> Annual Conference, Brussels, Belgium; September 2002
  - *Rotator Cuff Ultrasound*
  - *Musculoskeletal Hands-on Workshop – Shoulder*
  - *Musculoskeletal Hands-on Workshop – Hip and Knee*
  - *Musculoskeletal Hands-on Workshop – Core Biopsy Technique*
47. Oregon Radiologic Society, Portland, Oregon; October 2002
  - *Practical Musculoskeletal Sonography with MR Imaging Correlation*
48. Oregon Health Sciences University, Portland, Oregon, October 2002
  - *MR Arthrography*
  - *Radiology Board Review*
49. Electromyography Grand Rounds, University of Michigan, Ann Arbor, Michigan; November 2002
  - *Peripheral Nerve Sonography*
50. Radiological Society of North America 88th Scientific Assembly and Annual Meeting, Chicago, Illinois; December 2002
  - *This Soft Tissue Looks Abnormal: What Does That Mean? (Categorical Course)*

- *Musculoskeletal Ultrasound Hands-on Workshop ( Refresher Course)*
51. 10th Annual “Radiology in the Desert: Practical Aspects of Radiology and Imaging” (University of Michigan), Scottsdale, Arizona; March 2003
    - *MR Arthrography*
    - *Pitfalls in Musculoskeletal MR Imaging*
    - *Imaging of the Hip Arthroplasty*
    - *Work-up of Bone Tumors: From Imaging to Biopsy*
  52. University of Arizona, Tucson, Arizona; April 2003
    - *Sonography of the Ankle with MRI Correlation*
    - *Radiology Board Review*
    - *Practical Musculoskeletal Sonography with MRI Correlation*
    - *Pitfalls in Musculoskeletal MR Imaging*
  53. University of Michigan Radiology Grand Rounds, Ann Arbor, Michigan; April 2003
    - *Practical Musculoskeletal Sonography with MRI Correlation*
  54. University of California, San Diego, San Diego, California; May 2003
    - *Practical Musculoskeletal Sonography with MRI Correlation*
  55. American Roentgen Ray Society 103<sup>rd</sup> Annual Meeting, San Diego, California; May 2003
    - *Hypophosphatemic Osteomalacia (Keynote Lecture)*
    - *Practical Musculoskeletal Sonography with MRI Correlation*
  56. American Institute of Ultrasound in Medicine 47<sup>th</sup> Annual Convention, Montreal, Quebec, Canada; June 2003
    - *Musculoskeletal Sonography: Inflammation and Trauma*
  57. Musculoskeletal Imaging: MRI and Intervention (Harvard Medical School), Boston, Massachusetts; June 2003
    - *Work-up of Bone Tumors: Imaging to Biopsy*
    - *Shoulder Sonography with MR Correlation*
    - *Ankle Sonography with MR Correlation*
    - *Wrist and Hand Sonography*
  58. 16th Annual Ultrasound and Imaging Seminar (Universidad del Este), San Juan, Puerto Rico; July 2003
    - *Shoulder Sonography*
    - *Elbow and Wrist Sonography*
    - *Ankle Sonography*

59. 30<sup>th</sup> Annual Radiology Refresher Course (International Skeletal Society), San Francisco, California; September 2003
  - *Elbow Sonography*
60. Musculoskeletal Ultrasound Society 13<sup>th</sup> Annual Conference, Washington D.C.; October 2003
  - *Sonography of the Shoulder: Outside the Rotator Cuff*
  - *Musculoskeletal Hands-on Workshop – Shoulder*
  - *Musculoskeletal Hands-on Workshop – Elbow and Wrist*
  - *Musculoskeletal Hands-on Workshop – Hip and Knee*
  - *Musculoskeletal Hands-on Workshop – Cyst Aspiration Technique*
  - *Musculoskeletal Hands-on Workshop – Foot and Ankle*
61. International Hemophilia Prophylaxis Study Group 1<sup>st</sup> Annual Symposium, Montreal, Quebec, Canada; November 2003
  - *Musculoskeletal Manifestations of Hemophilia: Sonographic Evaluation*
62. Radiological Society of North America 89th Scientific Assembly and Annual Meeting, Chicago, Illinois; December 2003
  - *This Soft Tissue Looks Abnormal: What Does That Mean? (Categorical Course)*
  - *Musculoskeletal Ultrasound Hands-on Workshop (Refresher Course)*
63. 28<sup>th</sup> Annual “Midwinter Family Practice Update” (University of Michigan), Harbor Springs, Michigan; February 2004
  - *Musculoskeletal Sonography: Practical Applications*
  - *Musculoskeletal Radiology Case Presentations: Images, Diagnosis, and Pearls*
64. 6<sup>th</sup> Annual “Radiology at the Seashore: A Practical Update” (University of Michigan), Captiva Island, Florida; February 2004
  - *Evaluation of Hip Arthroplasty*
  - *Musculoskeletal Sonography: Foreign Bodies and Dynamic Imaging*
  - *Imaging of Spinal Trauma*
  - *Pitfalls in Musculoskeletal MR Imaging*
65. University of Toronto, Toronto, Canada; March 2004
  - *Pitfalls in Musculoskeletal MR Imaging (Toronto General Hospital)*
  - *Radiology Board Review (Toronto General Hospital)*
  - *Musculoskeletal Sonography with MRI Correlation (Mt. Sinai Hospital)*
  - *Radiology of Subtle Fractures and Fractures with Important Implications (Sunnybrook Hospital)*
66. McMaster University, Hamilton, Canada; March 2004
  - *Musculoskeletal Sonography with MRI Correlation*

- *Radiology of Subtle Fractures and Fractures with Important Implications*
  - *Radiology Board Review*
  - *Pitfalls in Musculoskeletal MR Imaging*
67. State of Michigan Arthritis Grand Rounds, Ann Arbor, Michigan; April 2004
- *Imaging Approach to Arthritis (Video Conference- 12 State Community Hospitals)*
68. American Roentgen Ray Society 104th Annual Meeting, Miami Beach, Florida; May 2004
- *Musculoskeletal Sonography: Soft Tissue Foreign Bodies and Dynamic Imaging (Instructional Course)*
69. Advanced Orthopaedic Imaging in Wine Country, Sonoma, California; May 2004
- *MRI and Sonography of the Wrist and Hand*
  - *Imaging of the Midfoot and Forefoot*
  - *Bone Tumors and Tumor-Like Lesions: Practical Workup from Imaging to Biopsy*
  - *Practical Musculoskeletal Sonography with MRI Correlation*
  - *Pitfalls in Musculoskeletal Imaging*
70. American Institute of Ultrasound in Medicine 48<sup>th</sup> Annual Convention, Phoenix, Arizona; June 2004
- *Shoulder Sonography Hands-on Workshop*
  - *Ankle Sonography Technique*
  - *Ankle Sonography Hands-on Workshop*
  - *Ultrasound of Sports Medicine Injuries*
71. Family Medicine Grand Rounds (University of Michigan), Ann Arbor, Michigan; July 2004
- *Practical Musculoskeletal Sonography with MRI Correlation*
72. Radiology at Mackinac (University of Michigan), Mackinac Island, Michigan; August 2004
- *MR Arthrography*
  - *Pitfalls in Musculoskeletal MR Imaging*
  - *Radiology of Spine Trauma*
73. 14<sup>th</sup> Annual Conference on Musculoskeletal Ultrasound, Bologna, Italy; October 2004
- *Forefoot Anatomy and Pathology*
  - *Musculoskeletal Hands-on Workshop – Shoulder*
  - *Musculoskeletal Hands-on Workshop – Upper Extremity*
  - *Musculoskeletal Hands-on Workshop – Biopsy Technique*
  - *Musculoskeletal Hands-on Workshop – Lower Extremity*

74. 3<sup>rd</sup> Year Medical Student Lecture, (University of Michigan), Ann Arbor, Michigan; October 2004
  - *Introduction to Musculoskeletal Radiology*
75. 51<sup>st</sup> Annual Scientific Meeting American Association of Electrodiagnostic Medicine, Savannah, Georgia; November 2004
  - *Ultrasound Appearance of Peripheral Nerves*
  - *Peripheral Nerve Sonography: Elbow*
  - *Peripheral Nerve Ultrasound: Miscellaneous*
  - *Sonography of Soft Tissues*
  - *Hands-on Ultrasound Workshop – Peripheral Nerves*
76. Radiological Society of North America 90th Scientific Assembly and Annual Meeting, Chicago, Illinois; December 2004
  - *Musculoskeletal Ultrasound Hands-on Workshop (Refresher Course)*
  - *Balanced Viewpoint of Musculoskeletal Ultrasound (Plenary Session)*
  - *Musculoskeletal Ultrasound with MRI Correlation (Refresher Course)*
77. National Diagnostic Imaging Symposium World Class Radiology (Loma Linda University), Orlando, Florida; December 2004
  - *MRI of the Ankle*
  - *Musculoskeletal Ultrasound with MRI Correlation*
78. Musculoskeletal Ultrasound 2005 'The Master Class,' Gold Coast, Queensland, Australia; March 2005
  - *Ultrasound of the Rotator Cuff*
  - *Ultrasound of the Shoulder- Beyond the Rotator Cuff*
  - *Elbow Sonography with MRI Correlation*
  - *Wrist and Hand Sonography with MRI Correlation*
  - *Musculoskeletal Ultrasound Demonstration Workshop*
  - *Ankle and Foot Sonography*
  - *Hip and Thigh Sonography with MRI Correlation*
79. University of Michigan, Department of Kinesiology, Ann Arbor, Michigan, March 2005.
  - *Ankle and Foot MRI*
80. American Institute of Ultrasound in Medicine 50<sup>th</sup> Annual Convention, Orlando, Florida; June 2005
  - *Hands-on Musculoskeletal Ultrasound Scanning: Shoulder*
  - *Hands-on Musculoskeletal Ultrasound Scanning: Elbow and Wrist*
  - *Musculoskeletal Ultrasound in the Upper Extremity (Categorical Course)*
81. 5<sup>th</sup> Biennial Rheumatology and Musculoskeletal Disease Update (University of Michigan), Mackinac Island, Michigan; July 2005

- *Radiographic Evaluation of Arthritis*
  - *Imaging of Musculoskeletal Disease- Use of Ultrasound, CT, and MRI*
  - *Rheumatology Case Presentations*
82. Radiology in the Mountains (University of Michigan), Beaver Creek, Colorado; August 2005
- *Radiology of Subtle Fractures and Fractures with Hidden Implications*
  - *Pitfalls in Musculoskeletal MR Imaging*
  - *Radiology of Spine Trauma*
  - *Imaging Approach to Arthritis*
83. Musculoskeletal Ultrasound: A Practical, Hands-on Approach (American Institute of Ultrasound), New York, New York; August 2005
- *Shoulder Ultrasound: Pathology*
  - *Upper Extremity Ultrasound / Magnetic Resonance Imaging Correlation*
  - *Foot and Ankle Ultrasound*
  - *Live Demonstration: Knee, Foot, and Ankle Ultrasound*
84. 52<sup>nd</sup> Annual Scientific Meeting American Association of Neuroelectrodiagnostic Medicine, Monterey, California; September 2005
- *Peripheral Nerve and Muscle Ultrasound*
  - *General Ultrasound Principles*
  - *Rotator Cuff Ultrasound*
  - *Hands-on Ultrasound Workshop*
85. 3<sup>rd</sup> Year Medical Student Lecture, (University of Michigan), Ann Arbor, Michigan; September 2005
- *Introduction to Musculoskeletal Radiology*
86. Musculoskeletal Ultrasound Society 15<sup>th</sup> Annual Conference, Orlando, Florida; November 2005
- *Ankle and Foot Pathology: Respective Roles for Ultrasound and MRI*
  - *Musculoskeletal Hands-on Workshop – Upper Extremity*
  - *Musculoskeletal Hands-on Workshop – Lower Extremity*
  - *Musculoskeletal Hands-on Workshop – Biopsy Technique*
87. Lower Extremity Musculoskeletal Imaging Update 2005, Toronto, Canada; November 2005
- *Common Pathology of the Knee*
  - *Live Ultrasound Demonstration of the Ankle and Foot*
  - *Hands-on Lower Extremity Ultrasound Workshops*
  - *MRI and Ultrasound of the Calf, Achilles, and Plantar Fascia*
  - *Imaging of Soft Tissue Foreign Bodies*

88. Radiological Society of North America 91st Scientific Assembly and Annual Meeting, Chicago, Illinois; November 2005
  - *Musculoskeletal Ultrasound Hands-on Workshop (Refresher Course)*
89. National Diagnostic Imaging Symposium World Class Radiology (Loma Linda University), Orlando, Florida; December 2005
  - *MRI of the Wrist and Hand with US Correlation*
  - *Imaging Evaluation of Hip Arthroplasty*
90. Department of Rheumatology (University of Michigan), Ann Arbor, Michigan; December 2005
  - *Radiographic Evaluation of Arthritis*
  - *CT, US, and MRI Applications in Rheumatology*
91. 8<sup>th</sup> Annual Radiology at the Seashore: A Practical Update (University of Michigan), Naples, Florida; February 2006
  - *MRI of the Wrist and Hand with Ultrasound Correlation*
  - *MRI of the Ankle and Foot*
  - *Radiology of Subtle Fractures and Fractures with Important Implications*
  - *Imaging Approach to Arthritis*
  - *Practical Musculoskeletal Ultrasound with MRI Correlation*
92. 1st Annual Musculoskeletal Ultrasound (University of Michigan), Naples, Florida; February 2006
  - *Rotator Cuff Ultrasound*
  - *Shoulder Ultrasound- Hands-on Workshop*
  - *Elbow Ultrasound Technique*
  - *Wrist Ultrasound Technique*
  - *Elbow and Wrist Ultrasound- Hands-on Workshop*
  - *Hip and Thigh Ultrasound Technique*
  - *Knee Ultrasound Technique*
  - *Hip, Thigh, and Knee Ultrasound- Hands-on Workshop*
  - *Ankle and Foot Ultrasound Technique*
  - *Ankle and Foot Ultrasound- Hands-on Workshop*
93. 13<sup>th</sup> Annual Radiology in the Desert (University of Michigan), Phoenix, Arizona; March 2006
  - *Radiology of Subtle Fractures and Fractures with Important Implications*
  - *Musculoskeletal Sonography: Dynamic Imaging and Foreign Bodies*
  - *Imaging Approach to Arthritis*
  - *Pitfalls in Musculoskeletal MR Imaging*
94. American Institute of Ultrasound in Medicine 51<sup>st</sup> Annual Convention, Washington, D.C., March 2006

- *Sports Injuries of the Hip (Categorical Course)*
  - *Hands-on Musculoskeletal Ultrasound Scanning Workshop: Interventional*
95. Department of Physical Medicine and Rehabilitation Grand Rounds (University of Michigan), Ann Arbor, Michigan; March 2006
- *Practical Musculoskeletal Ultrasound with MRI Correlation*
96. Musculoskeletal Ultrasound 2006, Gold Coast, Queensland, Australia; April 2006
- *Shoulder and Elbow Ultrasound*
  - *Shoulder and Elbow Ultrasound Live Demonstration*
  - *Wrist and Hand Ultrasound*
  - *Ultrasound of Peripheral Nerves*
  - *Wrist and Hand Ultrasound Live Demonstration*
  - *Knee Ultrasound*
  - *Ultrasound of Soft Tissues*
  - *Ankle and Foot Ultrasound*
  - *Dynamic Imaging*
  - *Ankle and Foot Ultrasound Live Demonstration*
  - *Hip and Thigh Ultrasound*
  - *Hip and Thigh Ultrasound Live Demonstration*
97. American Roentgen Ray Society 106th Annual Meeting, Vancouver, British Columbia, Canada; May 2006
- *Ultrasound of Soft Tissue Infection and Inflammation (Instructional Course)*
98. Michigan State University, Flint, Michigan; May 2006
- *Musculoskeletal Radiology Board Review*
99. University of Western Ontario, London, Ontario, Canada; June 2006
- *Musculoskeletal Radiology Board Review*
  - *MRI and Wrist and Hand with US Correlation*
100. London Imaging Discovery Seminar, London, Ontario, Canada; June 2006
- *Ultrasound and MRI of the Knee and Ankle*
101. University of Iowa, Iowa City, Iowa; August 2006
- *Musculoskeletal Ultrasound with MRI Correlation*
  - *Ankle and Foot Ultrasound.*
  - *Rotator Cuff Ultrasound*
  - *Ankle Ultrasound Live Demonstration*
  - *Board Review Case Conference*



102. International Skeletal Society 33<sup>rd</sup> Annual Refresher Course, Vancouver, British Columbia, Canada; September 2006
  - *Ultrasound of Synovitis*
  - *Ultrasound of the Hand and Wrist- Ultrasound Workshop*
  - *Ultrasound of Muscle Injury*
103. Michigan State University, East Lansing, Michigan; October 2006
  - *MRI of the Shoulder Including MR Arthrography*
  - *Radiographic Evaluation of Arthritis*
  - *Musculoskeletal Board Review*
104. MRI: Clinical State-of-the-Art (New York University), New York City, New York; October 2006
  - *Pitfalls in Musculoskeletal MRI*
  - *MRI of the Shoulder Including MR Arthrography*
105. Advances in Musculoskeletal Ultrasound Leading Edge Update 2006 (Michener Institute), Toronto, Ontario, Canada; November 2006
  - *Advances in Dynamic Musculoskeletal Imaging*
  - *Ultrasound of the Hand and Wrist*
  - *Advances in Interventional Musculoskeletal Imaging*
  - *Hand and Wrist Ultrasound Live Demonstration*
106. Fundamentals of Musculoskeletal Ultrasound (University of Michigan), Ann Arbor, Michigan; November 2006
  - *Shoulder Ultrasound Technique*
  - *Ankle Ultrasound Technique*
107. Radiological Society of North America 92nd Scientific Assembly and Annual Meeting, Chicago, Illinois; November 2006
  - *Musculoskeletal Ultrasound Hands-on Workshop: Peripheral Nerves (Refresher Course)*
  - *Musculoskeletal Ultrasound Hands-on Workshop: Dynamic Imaging (Refresher Course)*
  - *Sports Injuries of the Hand and Wrist: Ultrasound Evaluation (Refresher Course)*
108. Musculoskeletal Ultrasound (Cooper University), Palm Springs, California; January 2007
  - *Ultrasound of the Shoulder*
  - *Shoulder Ultrasound Demonstration*
  - *Shoulder Ultrasound Hands-on Workshop*
  - *Ultrasound of the Elbow*
  - *Elbow Ultrasound Demonstration*
  - *Elbow and Wrist Ultrasound Hands-on Workshop*

- *Ultrasound of Sports Medicine Injuries*
  - *Hip and Ankle Ultrasound Hands-on Workshop*
  - *Knee Ultrasound Hands-on Workshop*
109. Western Pennsylvania Hospital, Pittsburgh, Pennsylvania; January 2007
- *MRI and Ankle and Foot*
  - *Radiographic Evaluation of Arthritis*
  - *Resident Board Review*
110. 9<sup>th</sup> Annual Radiology at the Seashore: A Practical Update (University of Michigan), Captiva Island, Florida; February 2007
- *US and MRI of the Calf, Achilles Tendon, and Plantar Fascia*
  - *Pitfalls in Musculoskeletal MRI*
  - *MR Arthrography of the Shoulder*
  - *Imaging and Classification of Pelvic Fractures*
111. 2nd Annual Fundamentals of Musculoskeletal Ultrasound (University of Michigan), Captiva Island, Florida; February 2007
- *Musculoskeletal Ultrasound: Basic Principles*
  - *Shoulder Ultrasound Technique*
  - *Shoulder Ultrasound- Beyond the Rotator Cuff*
  - *Shoulder Ultrasound- Hands-on Workshop*
  - *Elbow and Wrist Ultrasound Technique*
  - *Elbow and Wrist Ultrasound- Hands-on Workshop*
  - *Hip, Thigh, and Knee Ultrasound Technique*
  - *Hip, Thigh, and Knee Ultrasound- Hands-on Workshop*
  - *Ankle and Foot Ultrasound Technique*
  - *Dynamic Musculoskeletal Ultrasound*
  - *Ankle and Foot Ultrasound- Hands-on Workshop*
  - *Peripheral Nerve Ultrasound*
  - *Interventional Ultrasound- Hands-on Workshop*
112. RSNA Highlights Course, Phoenix, Arizona; February 2007
- *Mechanisms of Knee Injury and Associated MR Imaging Findings*
113. American Institute of Ultrasound in Medicine Annual Meeting, New York City, New York; March 2007
- *Ultrasound of the Hand and Wrist*
  - *Ultrasound of the Peripheral Nerve Workshop: Elbow*
114. Society of Skeletal Radiology Annual Meeting, Orlando, Florida; March 2007
- *Tumor Update: Ultrasound*
115. North Carolina Ultrasound Society, Cary, North Carolina; March 2007

- *Practical Applications of Musculoskeletal Ultrasound*
  - *Ultrasound of Synovitis and Inflammation*
  - *Musculoskeletal Dynamic Imaging*
116. Medical University of Toledo, Toledo, Ohio; April 2007
- *Radiology Board Review*
117. Northwestern Ohio Radiological Society, Toledo, Ohio; April 2007
- *MRI of the Wrist and Hand with Ultrasound Correlation*
118. University of Michigan Physical Medicine and Rehabilitation Grand Rounds, Ann Arbor, Michigan; May 2007
- *Interventional Musculoskeletal Ultrasound*
119. American Roentgen Ray Society 107th Annual Meeting (Instructional Course), Orlando, Florida; May 2007
- *Interventional Musculoskeletal Ultrasound*
120. Boston University Medical Campus Grand Rounds, Boston, Massachusetts; May 2007.
- *Musculoskeletal Ultrasound with MRI Correlation*
  - *Musculoskeletal Radiology Review*
121. Grand Rapids Medical Education / Michigan State University, Grand Rapids, Michigan; May 2007
- *MRI and Wrist and Hand*
  - *Musculoskeletal Radiology Review*
122. Michigan State University, Flint, Michigan; May 2007
- *Musculoskeletal Radiology Review*
123. Orthofix Inc. Research Seminar, McKinney, Texas; July 2007
- *Imaging and Evaluation of Spine Fractures*
124. Hands-on Musculoskeletal Ultrasound: Diagnostic and Interventional Techniques (American Institute of Ultrasound in Medicine), Rochester, Minnesota; July 2007
- *Common Shoulder Pathology*
  - *Wrist and Hand Ultrasound Demonstration*
  - *Common Hip Pathology*
  - *Ankle Ultrasound Demonstration*
  - *Cadaveric Interventional Technique Workshop*
  - *Extremity Ultrasound Workshop*

125. University of Michigan 2<sup>nd</sup> Year Medical Student Class, Ann Arbor, Michigan; August 2007
- *Introduction to Musculoskeletal Imaging*
126. Musculoskeletal Ultrasound Society 17<sup>th</sup> Annual Meeting, Paris, France; August 2007
- *Common Elbow Pathology*
  - *Anterior Hip pain*
  - *Upper Extremity Peripheral Nerve Ultrasound Workshop*
  - *Foot and Ankle Ultrasound Workshop*
127. Orthopaedic Surgery Teaching Conference (University of Michigan), Ann Arbor, Michigan; September 2007
- *Work-up of Bone Lesions: Imaging to Biopsy*
128. Musculoskeletal Ultrasound for Rheumatologists (Cooper University), Cherry Hill, New Jersey; September 2007
- *Ultrasound Anatomy of the Foot and Ankle*
  - *Ultrasound Pathology of the Foot and Ankle*
  - *Hands-on Workshop: Elbow*
  - *Hands-on Workshop: Wrist and Hand*
  - *Hands-on Workshop: Knee*
  - *Hands-on Workshop: Hip*
  - *Hands-on Workshop: Foot and Ankle*
  - *Hands-on Workshop: Interventional*
129. 2<sup>nd</sup> Annual Fundamentals of Musculoskeletal Ultrasound for Technologists (University of Michigan), Ann Arbor, Michigan; October 2007
- *Introduction to Musculoskeletal Ultrasound*
130. Rheumatology Fellow Lecture Series (University of Michigan), Ann Arbor, Michigan; October 2007
- *Radiographic Evaluation of Arthritis*
  - *Advanced Imaging of Arthritis*
131. Physical Medicine and Rehabilitation Grand Rounds (University of Michigan), Ann Arbor, Michigan; October 2007
- *Peripheral Nerve Ultrasound*
132. Genessee Imaging Musculoskeletal Ultrasound Symposium, Lansing, Michigan, November 2007
- *Musculoskeletal Ultrasound with MRI Correlation*
133. Radiological Society of North America 93<sup>rd</sup> Scientific Assembly and Annual Meeting, Chicago, Illinois; November 2007

- *Musculoskeletal Ultrasound Hands-on Workshop: Peripheral Nerves (Refresher Course)*
  - *Musculoskeletal Ultrasound Hands-on Workshop: Dynamic Imaging (Refresher Course)*
  - *Sports Injuries of the Hand and Wrist: Ultrasound Evaluation (Refresher Course)*
134. National Diagnostic Imaging Symposium World Class Radiology (Loma Linda University), Orlando, Florida; December 2007
- *Hip Arthroplasty*
  - *Musculoskeletal Ultrasound with MRI Correlation*
135. Emergency Medicine Grand Rounds (University of Michigan), Ann Arbor, Michigan; January 2008
- *Subtle and Important Fractures*
136. Michigan Radiological Society, Novi, Michigan; January 2008
- *Introduction to Bone Fellowships*
137. Indiana University, Indianapolis, Indiana; February 2008
- *Pitfalls in Musculoskeletal MRI*
  - *Radiology Board Review*
  - *Musculoskeletal Ultrasound with MRI Correlation*
138. Internal Derangement of Joints, Coronado, California; February 2008
- *Ankle Instability and Miscellaneous Ultrasound Applications*
139. University of California, San Diego, La Jolla, California; February 2008
- *Musculoskeletal Ultrasound Demonstration*
140. Scripps Clinic and Green Hospital, La Jolla, California; February 2008
- *Pitfalls in Musculoskeletal MRI*
141. Orthopaedic Review Seminar (Loma Linda), Loma Linda, California; March 2008
- *Musculoskeletal Ultrasound: Dynamic Imaging*
  - *Musculoskeletal Ultrasound: Peripheral Nerves*
142. Society of Skeletal Radiology 31<sup>st</sup> Annual Meeting, La Quinta, California; March 200
- *Elbow and Wrist Ultrasound*
143. American Institute of Ultrasound in Medicine Annual Convention, San Diego, California; March 2008
- *Interventional Techniques (Preconvention Course)*
  - *Peripheral Nerve Ultrasound (Preconvention Course)*

- *Wrist Pathology*
  - *Hip and Thigh Ultrasound*
  - *Shoulder Ultrasound Hands-on Workshop*
144. 3<sup>rd</sup> Annual Fundamentals of Musculoskeletal Ultrasound (University of Michigan); La Jolla, California; March 2008
- *Introduction to Musculoskeletal Ultrasound*
  - *Shoulder Ultrasound Technique Live Demonstration*
  - *Rotator Cuff Pathology*
  - *Shoulder Ultrasound Workshop*
  - *Elbow, Wrist, and Hand Ultrasound Workshop*
  - *Knee Ultrasound Technique Live Demonstration*
  - *Hip, Thigh, and Knee Ultrasound Workshop*
  - *Ankle and Foot Ultrasound Workshop*
  - *Dynamic Imaging*
145. American Roentgen Ray Society 108th Annual Meeting, Washington, D.C.; April 2008
- *Ultrasound of the Elbow (Instructional Course)*
146. Vanderbilt University, Nashville, Tennessee; April 2008
- *Musculoskeletal Ultrasound with MRI Correlation*
  - *Musculoskeletal Radiology Review*
147. Michigan State University, Grand Rapids, Michigan; May 2008
- *Musculoskeletal Board Review*
  - *Pitfalls in Musculoskeletal MRI*
148. 7<sup>th</sup> Annual North American Symposium on Musculoskeletal Ultrasound (Michener Institute), Hamilton, Ontario, Canada; May 2008
- *Shoulder Ultrasound*
  - *Wrist and Hand Ultrasound*
  - *Interventional Techniques*
  - *Knee Ultrasound*
149. Michigan State University, Flint, Michigan; May 2008
- *Musculoskeletal Radiology Review*
150. Mountain Imaging, Asheville, North Carolina; May 2008
- *Shoulder Ultrasound*
  - *Elbow and Wrist Ultrasound*
151. Clinical Imaging in the Diagnosis and Treatment of Multiple Myeloma (Multiple Myeloma Research Foundation), New Orleans, Louisiana; June 2008
- *MRI of Myeloma*

152. Hands-on Musculoskeletal Ultrasound Diagnostic and Interventional Techniques (American Institute of Ultrasound in Medicine), Rochester, Minnesota; July 2008
- *Common Shoulder Pathology*
  - *Wrist and Hand Ultrasound Demonstration*
  - *Common Hip Pathology*
  - *Ankle and Foot Ultrasound Demonstration*
  - *Upper and Lower Limb Ultrasound-Guided Procedure Workshop*
  - *Upper and Lower Limb Diagnostic Ultrasound Workshop*
153. SonoSite Institute for Training and Education (Musculoskeletal Ultrasound), San Diego, California; August 2008
- *Shoulder Anatomy, Injections, and Pathology*
  - *Wrist and Hand Anatomy, Injections, and Pathology*
  - *Shoulder Ultrasound Live Demonstration*
  - *Shoulder Ultrasound Workshop*
  - *Wrist and Hand Ultrasound Live Demonstration*
  - *Wrist and Hand Ultrasound Workshop*
  - *Knee Anatomy, Injections, and Pathology*
  - *Knee Ultrasound Live Demonstration*
  - *Knee Ultrasound Workshop*
  - *Ankle and Foot Anatomy, Injections, and Pathology*
  - *Ankle and Foot Ultrasound Live Demonstration*
  - *Ankle and Foot Ultrasound Workshop*
154. University of Ottawa, Ottawa, Ontario, Canada; September 2008
- *Musculoskeletal Ultrasound with MRI Correlation*
  - *Resident Musculoskeletal Board Review*
  - *Pitfalls in Musculoskeletal MR Imaging*
  - *Radiology of Subtle and Important Fractures*
155. University of Michigan Orthopaedic Alumni Society's 47<sup>th</sup> Annual Badgley Day Lectureship
- *Dynamic Musculoskeletal Ultrasound*
156. Asian Oceanian Congress of Radiology, Seoul, Korea; October 2008
- *Dynamic Musculoskeletal Ultrasound*
  - *Peripheral Nerve Ultrasound*
157. Musculoskeletal Ultrasound for Rheumatologists, Philadelphia, Pennsylvania; November 2008
- *Principles of Musculoskeletal Ultrasound*
  - *Ultrasound Pattern Recognition Workshop*
  - *Shoulder Pathology*
  - *Shoulder Ultrasound Hands-on Workshop*

- *Elbow Ultrasound Hands-on Workshop*
  - *Wrist and Hand Ultrasound Hands-on Workshop*
  - *Knee Ultrasound Hands-on Workshop*
  - *Hip Ultrasound Hands-on Workshop*
  - *Ankle and Foot Ultrasound Hands-on Workshop*
  - *Ultrasound Guidance Hands-on Workshop*
158. Radiological Society of North America, Chicago, Illinois; December 2008
- *US versus MRI (Special Focus Session)*
  - *Lower Extremity Dynamic Imaging Ultrasound Workshop*
  - *Lower Extremity Peripheral Nerve Ultrasound Workshop*
159. University of Pittsburgh, Department of Physical Medicine and Rehabilitation Grand Rounds, Pittsburgh, Pennsylvania; December 2008
- *Musculoskeletal Ultrasound with MRI Correlation*
160. Roosevelt- St. Luke Hospital, New York City, New York; January 2009
- *Musculoskeletal Radiology Board Review*
  - *Pitfalls in Musculoskeletal MR Imaging*
161. Gulf Coast Ultrasound Institute, St. Petersburg Beach, Florida; February 2009
- *Shoulder and Elbow Pathology*
  - *Interventional Musculoskeletal Ultrasound*
  - *Knee Pathology*
  - *Ankle and Foot Pathology*
  - *Dynamic Musculoskeletal Ultrasound*
162. St. Mary's Hospital (Grand Rounds), Livonia, Michigan; February 2009
- *Pitfalls in Musculoskeletal MR Imaging*
163. 11<sup>th</sup> Annual Radiology at the Seashore: A Practical Update (University of Michigan), Captiva Island, Florida; February 2009
- *Pitfalls in Musculoskeletal MR Imaging*
  - *Imaging of Hip Arthroplasty*
  - *Radiology of Spine Trauma*
  - *Mechanisms of Knee Injury and Associated MRI Findings*
164. Musculoskeletal Sonoanatomy. Workshops on Complex Tendons, Post Operative Shoulder and Interventional Procedures, University of Barcelona, Barcelona, Spain; February 2009
- *Flexor and Extensor Tendons of the Forearm*
  - *Upper Extremity Cadaver Workshop*
  - *Post-operative Shoulder and Interventional Cadaver Workshop*



165. 4<sup>th</sup> Annual Fundamentals of Musculoskeletal Ultrasound (University of Michigan), Amelia Island, Florida; March 2009
- *Introduction to Musculoskeletal Ultrasound*
  - *Shoulder Ultrasound Technique Live Demonstration*
  - *Other Shoulder Pathology*
  - *Shoulder Ultrasound Workshop*
  - *Elbow, Wrist, and Hand Ultrasound Workshop*
  - *Hip, Thigh, and Knee Ultrasound Workshop*
  - *Ankle and Foot Ultrasound Workshop*
  - *Interventional Musculoskeletal Ultrasound*
166. American Institute of Ultrasound in Medicine Annual Convention, New York City, New York; April 2009
- *Upper Extremity Entrapment Syndromes (Categorical Course)*
  - *Peripheral Nerve Ultrasound Hands-on Workshop*
167. Michigan State University, Flint Area Medical Education, Flint, Michigan; April 2009
- *Musculoskeletal Radiology Board Review*
168. American Roentgen Ray Society 109th Annual Meeting, Boston, Massachusetts; April 2009
- *Peripheral Nerve Ultrasound (Instructional Course)*
  - *Dynamic Imaging (Instructional Course)*
  - *Upper Extremity Ultrasound (Categorical Course)*
169. Musculoskeletal Ultrasound for Rheumatologists, Philadelphia, Pennsylvania; May 2009
- *Pattern Recognition: Hands-on Workshop*
  - *Shoulder Pathology*
  - *Shoulder Ultrasound: Hands-on Workshop*
  - *Elbow Ultrasound: Hands-on Workshop*
  - *Wrist and Hand Ultrasound: Hands-on Workshop*
  - *Knee Anatomy*
  - *Knee Pathology*
  - *Knee Ultrasound: Hands-on Workshop*
  - *Foot and Ankle Ultrasound: Hands-on Workshop*
  - *Hip and Ultrasound Guidance: Hands-on Workshop*
170. Basics of Platelet Rich Plasma and Ultrasound-Guided Injection Techniques: Lower Extremity (Blue Tail Regenerative Therapeutics), Salt Lake City, Utah; May 2009
- *Introduction to Musculoskeletal Ultrasound*
  - *Ultrasound of the Knee*
  - *Ultrasound of the Ankle*
  - *Ultrasound of the Foot*

171. 13<sup>th</sup> Annual Musculoskeletal Radiology Update, Fajardo, Puerto Rico; May, 2009
- *Ultrasound of the Rotator Cuff*
  - *MRI of the Wrist and Hand with MRI Correlation*
  - *Ultrasound of the Foot and Ankle*
  - *Ultrasound of the Elbow*
172. 2009 Sonic Imaging Conference, Gold Coast, Australia; June, 2009
- *Ultrasound of Peripheral Nerves*
  - *Ultrasound of the Shoulder*
  - *Ultrasound of the Elbow*
  - *Ultrasound of the Ankle and Foot*
173. 16<sup>th</sup> Annual Congress of the European Society of Musculoskeletal Radiology, Genoa, Italy; June, 2009
- *Musculoskeletal Radiology in the USA: An Outlook to the Future*
  - *Ultrasound of the Hip: Hands-on Workshop*
174. Hands-on Musculoskeletal Ultrasound Diagnostic and Interventional Techniques (American Institute of Ultrasound in Medicine), Rochester, Minnesota; July 2009
- *Common Shoulder Pathology*
  - *Wrist and Hand Ultrasound Demonstration*
  - *Common Hip Pathology*
  - *Ankle and Foot Ultrasound Demonstration*
  - *Upper and Lower Limb Ultrasound-Guided Procedure Workshop*
  - *Upper and Lower Limb Diagnostic Ultrasound Workshop*
175. Andrews Institute Sports Musculoskeletal Ultrasound Course, Gulf Breeze, Florida; July 2009
- *Wrist and Hand Pathology*
  - *Ankle and Foot Pathology*
  - *Hands-on Workshop*
176. The International Skeletal Society 36<sup>th</sup> Annual Imaging Update Courses, Washington D.C., September 2009
- *US vs MR of Rotator Cuff Tears*
177. Jon W. Meilstrup Lecture in Ultrasound (Visiting Professor, Penn State University), Hershey, Pennsylvania; September 2009
- *Musculoskeletal Ultrasound with MRI Correlation*
  - *Musculoskeletal Case Conference and Board Review*
178. Basics of Platelet Rich Plasma and Ultrasound-Guided Injection Techniques: Upper Extremity (Blue Tail Regenerative Therapeutics), Salt Lake City, Utah; May 2009
- *Introduction to Musculoskeletal Ultrasound*

- *Ultrasound of the Shoulder*
  - *Ultrasound of the Elbow*
  - *Ultrasound of the Wrist and Hand*
179. 19<sup>th</sup> Annual Musculoskeletal Ultrasound Society Annual Meeting, Barcelona, Spain; October 2009
- *Ultrasound of Elbow Ligament Lesions*
  - *Ultrasound of the Shoulder Live Demonstration*
  - *Peripheral Nerve Lesions of the Ankle and Foot*
  - *Elbow Ultrasound Workshop*
  - *Ankle and Foot Ultrasound Workshop*
  - *Interventional Ultrasound Workshop*
180. 2009 Annual Convention: Back to Basics Essential Medical Imaging (American Osteopathic College of Radiology), Las Vegas, Nevada; October 2009
- *Radiology of Subtle and Important Fractures*
  - *Pitfalls in Musculoskeletal MR Imaging*
181. Musculoskeletal Ultrasound for Rheumatologists: The Antonio J. Reginato Course, Philadelphia, Pennsylvania, November 2009
- *The Shoulder: Standard Scans, Sonographic Anatomy, and Pathology*
  - *The Knee: Standard Scans, Sonographic Anatomy, and Pathology*
  - *Ultrasound versus MRI*
182. Cleveland Clinic Musculoskeletal Ultrasound Course, Cleveland, Ohio, November 2009
- *Ultrasound of the Shoulder*
  - *Ultrasound of the Wrist and Hand*
  - *Ultrasound of the Hip*
  - *Interventional Musculoskeletal Ultrasound*
183. Radiological Society of North America 2009 Annual Meeting, Chicago, Illinois, December 2009
- *Ultrasound of the Elbow (Refresher Course)*
  - *Upper Extremity Dynamic Ultrasound (Workshop)*
184. Calgary Diagnostic Imaging, Calgary, Alberta, Canada; December 2009
- *Ultrasound of the Shoulder*
185. Orthopaedic Surgery Grand Rounds, University of Toledo, Toledo, Ohio; December 2009
- *MRI of the Ankle*
  - *MRI of the Wrist and Hand with Ultrasound Correlation*
186. Boston Children's Hospital, Harvard University, Boston, Massachusetts; January 2010

- *Practical Musculoskeletal Ultrasound*
  - *Musculoskeletal Ultrasound Interventional Techniques*
187. Gulfcoast Ultrasound Institute, St. Pete's Beach, Florida; February 2010
- *Shoulder Pathology*
  - *Interventional Techniques*
  - *Upper Extremity Workshop*
  - *Knee Pathology*
  - *Ankle and Foot Pathology*
  - *Ultrasound of the Hip*
  - *Lower Extremity Workshop*
188. University of California, San Diego; February 2010
- *Interventional Musculoskeletal Ultrasound*
189. Radiology in the Desert (University of Michigan), Scottsdale, Arizona; March 2010
- *Musculoskeletal Infection*
  - *MRI of the Wrist with Ultrasound Correlation*
  - *Radiology of Subtle and Important Fractures*
  - *Pitfalls in Musculoskeletal MRI*
190. Mayo Clinic, Scottsdale, Arizona; March 2010
- *Shoulder Ultrasound*
191. Society of Skeletal Radiology Annual Meeting, Las Vegas, Nevada; March 2010
- *Extremity Ultrasound Workshop*
192. American Institute of Ultrasound in Medicine, San Diego, California; March 2010
- *Ultrasound of the Hand and Wrist*
  - *Ultrasound of Hand and Wrist: Live Demonstration*
  - *Distal Biceps Brachii Pathology*
193. Update in Radiology 2010 (St. John Hospital), Grosse Pointe Woods, Michigan; March 2010
- *Mechanism of Knee Injury and Associated MRI Findings*
  - *Ultrasound of the Wrist with MRI Correlation*
194. Spectrum Health Butterworth Hospital, Grand Rapids, Michigan; April 2010
- *Mechanism of Knee Injury and Associated MRI Findings*
  - *Musculoskeletal Radiology Case Review*
195. 5<sup>th</sup> Annual Fundamentals of Musculoskeletal Ultrasound (University of Michigan), San Diego, California; April 2010
- *Introduction to Musculoskeletal Ultrasound*

- *Shoulder Anatomy and Scanning Technique*
  - *Shoulder Ultrasound Technique Live Demonstration*
  - *Rotator Cuff Pathology*
  - *Shoulder Ultrasound Workshop*
  - *Elbow, Wrist, and Hand Ultrasound Workshop*
  - *Hip, Thigh, and Knee Ultrasound Workshop*
  - *Ankle and Foot Ultrasound Workshop*
  - *Live Scanning Demonstration Review*
196. Musculoskeletal Ultrasound for Rheumatologists: The Antonio J Reginato Course (Cooper University), Philadelphia, Pennsylvania; April 2010
- *Hands-on Scanning Workshop: Hand/Wrist*
  - *Hands-on Scanning Workshop: Elbow*
  - *The Shoulder: Standard Scans, Sonographic Anatomy, and Pathology*
  - *Hands-on Scanning Workshop: Shoulder*
  - *Hands-on Scanning Workshop: Ankle/Foot*
  - *Knee Ultrasound*
  - *Hands-on Scanning Workshop: Knee*
  - *Hands-on Scanning Workshop: Hip*
  - *Hands-on Scanning Workshop: Interventional*
197. Flint Area Medical Education (Michigan State University), Flint, Michigan; April 2010
- *Musculoskeletal Case Conference*
198. American Roentgen Ray Society Annual Meeting, San Diego, California; May 2010
- *Elbow Ultrasound (Instructional Course)*
199. Society of Musculoskeletal Sonographers, West Bloomfield, Michigan; May 2010
- *Knee Ultrasound*
200. University of Michigan Radiology Grand Rounds, Ann Arbor, Michigan; June 2010
- *Mentoring in Research: A Guide For Trainees and Faculty*
201. Gulfcoast Ultrasound Institute, St. Pete Beach, Florida; June 2010
- *Shoulder and Knee Pathology*
  - *Dynamic Imaging*
  - *Entrapment Neuropathies*
  - *Hip and Knee Pathology*
  - *Lower Extremity Hands-on Workshop*
202. University of British Columbia, Vancouver, British Columbia, Canada; June 2010
- *Musculoskeletal Case Conference*

203. Hands-on Musculoskeletal Ultrasound Diagnostic and Interventional Techniques (American Institute of Ultrasound in Medicine), Rochester, Minnesota; July 2010
- *Common Shoulder Pathology*
  - *Wrist and Hand Ultrasound Demonstration*
  - *Common Hip Pathology*
  - *Ankle and Foot Ultrasound Demonstration*
  - *Upper and Lower Limb Ultrasound-Guided Procedure Workshop*
  - *Upper and Lower Limb Diagnostic Ultrasound Workshop*
204. Gulfcoast Ultrasound Institute, St. Pete's Beach, Florida; August 2010
- *Shoulder Pathology*
  - *Interventional Techniques*
  - *Ankle and Foot Pathology*
  - *Ultrasound of the Hip*
  - *Lower Extremity Workshop*
  - *Cadaveric Interventional Workshop*
205. Clinical Imaging Seminar (University of Michigan Medical School), Ann Arbor, Michigan; August 2010
- *Introduction to Musculoskeletal Ultrasound*
206. Rhode Island Hospital Visiting Professor, Providence, Rhode Island; September 2010
- *Interventional Musculoskeletal Ultrasound*
  - *Musculoskeletal Case Review*
  - *Introduction to Musculoskeletal Ultrasound with MRI Correlation*
207. Connecticut Rheumatology Association, New Haven, Connecticut; September 2010
- *Introduction to Musculoskeletal Ultrasound*
208. International Skeletal Society, Athens, Greece; September 2010
- *Ultrasound of the Common Peroneal Nerve*
  - *Is Ultrasound Better than MRI of the Peroneal Tendon?*
209. Basics of Platelet Rich Plasma and Ultrasound-Guided Injection Techniques: Upper Extremity (Blue Tail Regenerative Therapeutics), Salt Lake City, Utah; October 2010
- *Introduction to Musculoskeletal Ultrasound*
  - *Ultrasound of the Knee*
  - *Ultrasound of the Ankle*
  - *Ultrasound of the Foot*
210. Gulfcoast Ultrasound Institute, St. Pete Beach, Florida; October 2010
- *Common Shoulder Pathology*
  - *Common Elbow Pathology*
  - *Ultrasound-guided Interventions*

211. Hodges Reunion (University of Michigan), Ann Arbor, Michigan; October 2010
- *Musculoskeletal Ultrasound*
212. Society of Radiologists in Ultrasound Annual Meeting, Las Vegas, Nevada; October 2010
- *Musculoskeletal Imaging: When Is Ultrasound Enough*
213. Primary Care Update in Sports Medicine 2010 (St. John Hospital), Grosse Pointe Farms, Michigan; October 2010
- *Musculoskeletal Ultrasound with MRI Correlation*
214. 17<sup>th</sup> Annual Musculoskeletal Ultrasound Course for Rheumatologists, Philadelphia, Pennsylvania; November 2010
- *Shoulder Ultrasound: Standard Scans, Anatomy, and Pathology*
  - *Hand and Wrist Hands-on Ultrasound Workshop*
  - *Elbow Hands-on Ultrasound Workshop*
  - *Shoulder Hands-on Ultrasound Workshop*
  - *Foot and Ankle Hands-on Ultrasound Workshop*
  - *Hip Hands-on Ultrasound Workshop*
  - *Knee Hands-on Ultrasound Workshop*
  - *Needle Guidance Hands-on Ultrasound Workshop*
215. Radiological Society of North America 2010 Annual Meeting, Chicago, Illinois, December 2010
- *Ultrasound of the Elbow (Refresher Course)*
  - *Upper Extremity Dynamic Ultrasound (Workshop)*
  - *Biceps Tendon Ultrasound*
216. Introduction to Ultrasound: Guided Injections and Primary Care Applications
- *Shoulder Hands-on Ultrasound Workshop*
  - *Hip Hands-on Ultrasound Workshop*
217. Radiology Postgraduate Imaging Warm Up in the Caribbean (University of California, San Francisco), St. John, U.S. Virgin Islands; December 2010
- *Imaging and Classification of Pelvic Fractures*
  - *Radiographic Evaluation of Arthritis*
  - *MRI of the Hand and Wrist with Ultrasound Correlation*
  - *Musculoskeletal Ultrasound with MRI Correlation*
  - *Pitfalls in Musculoskeletal MRI*
218. University of Michigan Orthopaedic Surgery Resident Teaching Conference, Ann Arbor, Michigan; December 2010
- *Imaging of Musculoskeletal Infection*

219. University of Michigan Physical Medicine and Rehabilitation Teaching Conference, Ann Arbor, Michigan; January 2011
- *Imaging of Musculoskeletal Infection*
220. Georgetown University, Washington D.C.; January 2011
- *Musculoskeletal Case Conference*
221. George Washington University, Washington D.C.; January 2011
- *Musculoskeletal Case Conference*
222. District of Columbia Metropolitan Radiological Society, Washington D.C., January 2011
- *Resident Quiz*
  - *Introduction to Musculoskeletal Ultrasound*
223. American Academy of Physical Medicine and Rehabilitation, Lower Extremity Ultrasound Course, Las Vegas, Nevada; February 2011
- *Hip Pathology*
  - *Hands-on Hip Workshop*
  - *Knee Pathology*
  - *Hands-on Knee Workshop*
  - *Foot and Ankle Pathology*
  - *Hands-on Ankle Workshop*
  - *Hands-on Procedure Workshop*
  - *Hands-on Hip Cadaver Procedure Workshop*
  - *Hands-on Ankle and Foot Cadaver Procedure Workshop*
  - *Hands-on Knee Cadaver Procedure Workshop*
224. Radiology at the Seashore (University of Michigan), Captiva Island, Florida; February 2011
- *Radiology of Subtle and Important Fractures*
  - *Musculoskeletal Ultrasound Demonstration*
  - *Pitfalls in Musculoskeletal MRI*
  - *Mechanisms of Knee Injury and Associated MRI Findings*
  - *Musculoskeletal Ultrasound Workshop*
225. Gulfcoast Ultrasound Institute, St. Pete's Beach, Florida; February 2011
- *Wrist and Hand Anatomy and Scan Techniques*
  - *Common Wrist and Hand Pathology*
  - *Interventional Techniques*
226. Society of Skeletal Radiology, Scottsdale, Arizona; March 2011
- *Knee Ultrasound Workshop*



227. 6<sup>th</sup> Annual Fundamentals of Musculoskeletal Ultrasound (University of Michigan), Hollywood, Florida; March 2011
- *Image Optimization and Interpretation*
  - *Other Shoulder Pathology*
  - *Pitfalls in Shoulder Ultrasound*
  - *Post-operative Rotator Cuff*
  - *Glenoid Labrum*
  - *Miscellaneous Shoulder Pathology*
  - *Biceps and Triceps Brachii*
  - *Gamekeeper Thumb and Stener Lesion*
  - *Greater Trochanter*
  - *Hernias*
  - *Foreign Bodies*
  - *Peripheral Nerves*
  - *Interventional Ultrasound Workshop*
228. Musculoskeletal Imaging (iiCME), Naples, Florida; March 2011
- *Musculoskeletal Ultrasound*
  - *Dynamic Imaging*
  - *Musculoskeletal Infection*
  - *MRI of Rotator Cuff*
  - *Pitfalls in Musculoskeletal MRI*
  - *Subtle and Important Fractures*
  - *Radiographic Evaluation of Arthritis*
  - *Evaluation of Hip Arthroplasty*
229. American Osteopathic Association Prolotherapy Integrative Pain Management, Naples, Florida; April 2011
- *Introduction to Musculoskeletal Ultrasound*
  - *Wrist and Hand Ultrasound*
  - *Hands-on Musculoskeletal Ultrasound Workshop*
230. University of Toledo, Orthopaedic Surgery Grand Rounds, Toledo, Ohio; April 2011
- *Imaging of Musculoskeletal Infection*
  - *MRI of the Rotator Cuff*
231. American Institute of Ultrasound in Medicine Annual Meeting, New York City, New York; April 2011
- *Wrist and Hand Ultrasound: Live Demonstration*
  - *Shoulder Ultrasound: Hands-on Workshop*
232. Flint Area Medical Education (Michigan State University), Flint, Michigan; April 2011
- *Musculoskeletal Case Conference*

233. American Roentgen Ray Society Annual Meeting, Chicago, Illinois; May 2011
- *Injuries of the Throwing Athlete (Categorical Course)*
234. 18<sup>th</sup> Musculoskeletal Ultrasound Course for Rheumatologists: The Antonio J. Reginato Course (Cooper University Hospital), Philadelphia, Pennsylvania; June 2011
- *Wrist and Hand Ultrasound Workshop*
  - *Elbow Ultrasound Worksho*
  - *Shoulder Ultrasound Workshop*
  - *Needle Guidance Workshop*
  - *Foot and Ankle Ultrasound Workshop*
  - *Hip Ultrasound Workshop*
  - *The Knee: Standard Scans, Sonographic Anatomy, and Pathology*
  - *Knee Ultrasound Workshop*
235. Spaulding Rehabilitation Hospital, Boston, Massachusetts; June 2011
- *Interventional Musculoskeletal Ultrasound*
  - *Shoulder, Ankle, and Knee Ultrasound Workshop*
236. Sports Medicine 2011: Imaging and Managing Athletic Injuries (Massachusetts General Hospital), Boston, Massachusetts; June 2011
- *Musculoskeletal Ultrasound Applications for Low Back Pain*
  - *Musculoskeletal Ultrasound Applications for Hip and Groin*
237. Gulfcoast Ultrasound Institute, St. Pete's Beach, Florida; June 2011
- *Dynamic Imaging*
  - *Upper Extremity Pathology*
  - *Peripheral Nerve Entrapment*
  - *Hip Anatomy and Scan Techniques*
  - *Hip Pathology*
  - *Lower Extremity Ultrasound Workshop*
238. Hands-on Musculoskeletal Ultrasound Diagnostic and Interventional Techniques (American Institute of Ultrasound in Medicine), Rochester, Minnesota; July 2011
- *Common Shoulder Pathology*
  - *Post-operative Rotator Cuff*
  - *Elbow Ultrasound Demonstration*
  - *Common Wrist and Hand Pathology*
  - *Upper Limb Ultrasound-Guided Procedure Workshop.*
  - *Upper Limb Diagnostic Ultrasound Workshop*
239. Society of Academic Bone Radiologists Annual Meeting, Chicago, Illinois; July 2011
- *Ultrasound-guided Tenotomy*
240. Gulfcoast Ultrasound Institute, St. Pete's Beach, Florida; August 2011

- *Ultrasound of Common Hip Pathology*
  - *Ultrasound of Common Ankle and Foot Pathology*
  - *Ultrasound of Common Wrist and Hand Pathology*
  - *Ultrasound-guided Needle Guidance*
  - *Upper Extremity Ultrasound Workshop*
241. Florida Association of Pain Management, West Palm Beach, Florida; August 2011
- *Musculoskeletal Ultrasound*
  - *Upper Extremity Ultrasound Workshop*
  - *Lower Extremity Ultrasound Workshop*
242. World Federation of Ultrasound in Medicine and Biology, Vienna, Austria; August 2011
- *Wrist and Hand Ultrasound Demonstration*
  - *Anatomy of the Hip*
  - *Ultrasound of Hip Pathology*
  - *Upper Extremity Ultrasound*
243. Musculoskeletal Ultrasound Society Annual Meeting, Rio de Janeiro, Brazil; September 2011
- *Grading Rotator Cuff Tears*
  - *Ultrasound-guided Tenotomy*
  - *Ultrasound in Greater Trochanteric Pain Syndrome*
  - *Ultrasound of Extensor Knee Pathology*
  - *Ultrasound Extremity Workshops*
244. Platelet-rich Plasma Symposium, Toronto, Canada; September 2011
- *Musculoskeletal Ultrasound*
245. International Skeletal Society Annual Meeting, San Diego, California; September 2011
- *Ultrasound of Shoulder: Anatomy and Scanning Techniques*
  - *Musculoskeletal Ultrasound: New Techniques*
246. Gulfcoast Ultrasound Institute, St. Pete Beach, Florida; October 2011
- *Ultrasound-guided Interventional Techniques*
  - *Ultrasound of the Elbow: Demonstration*
  - *Ultrasound of the Extremity Workshops*
247. Seminars in Medicine, University of Michigan; October 2011
- *Introduction to Musculoskeletal Radiology*
248. Michigan Radiological Society, Novi, Michigan; October 2011
- *Musculoskeletal Ultrasound*

249. Beth Israel Deaconess Hospital (Visiting Professor), Boston, Massachusetts; October 2011
- *Interventional Musculoskeletal Ultrasound (Grand Rounds)*
  - *Musculoskeletal Radiology Case Conference*
  - *Musculoskeletal Ultrasound Demonstration*
250. University of Michigan Department of Orthopaedic Surgery, Ann Arbor, Michigan; November 2011
- *MRI of the Wrist with Ultrasound Correlation*
251. Radiological Society of North America, Chicago, Illinois; November 2011
- *Tendinosis: Steroid Injection, Fenestration, or Platelet-rich Plasma Injection (Special Interest Session)*
  - *Gamekeeper's Thumb (Multisession Course)*
  - *Ultrasound versus MRI: What Controversy? (Controversy Session)*
  - *Dynamic Ultrasound Workshop (Refresher Course)*
252. University of Wisconsin (Visiting Professor), Madison, Wisconsin; December 2011
- *Musculoskeletal Radiology Review*
  - *Musculoskeletal Ultrasound with MRI Correlation (Grand Rounds)*
253. Department of Orthopaedic Surgery, University of Toledo, Toledo, Ohio; January 2012
- *MRI of Knee Trauma*
  - *MRI of the Ankle and Foot*
254. Marshfield Clinic, Marshfield, Wisconsin; January 2012
- *Ultrasound of the Shoulder*
  - *Ultrasound of the Elbow*
  - *Ultrasound of the Wrist and Hand*
  - *Ultrasound of the Hip and Thigh*
  - *Ultrasound of the Knee*
  - *Ultrasound of the Ankle and Foot*
255. Physical Medicine and Rehabilitation, University of Michigan, Ann Arbor, Michigan; January 2012
- *Radiology of Subtle and Important Fractures: Upper Extremity*
256. American College of Rheumatology Winter Symposium, Snowmass, Colorado; January 2012
- *Radiographic Evaluation of Arthritis*
  - *Ultrasound and MRI in Rheumatology*
257. Long Island Jewish Hospital and North Shore University (Visiting Professor), Great Neck, New York; February 2012

- *Pitfalls in Musculoskeletal MRI*
  - *Musculoskeletal Case Conference*
  - *Musculoskeletal Ultrasound with MRI Correlation (Grand Rounds)*
258. American Academy of Physical Medicine and Rehabilitation Lower Extremity Ultrasound Course, Las Vegas, Nevada; February 2012
- *Common Hip Pathology*
  - *Common Knee Pathology*
  - *Knee Ultrasound Workshop*
  - *Common Ankle and Foot Pathology*
  - *Ankle and Foot Ultrasound Workshop*
  - *Interventional Workshop*
259. Musculoskeletal Ultrasound SonoAnatomy Course (EULAR), Barcelona, Spain; February 2012
- *The Lateral Hip*
  - *Hernias*
  - *Lower Extremity Cadaver Injection Workshop*
  - *Hernia Ultrasound Workshop*
260. 21<sup>st</sup> Annual Diagnostic Ultrasound Symposium (Promedica), Toledo, Ohio; March 2012.
- *Musculoskeletal Ultrasound with MRI Correlation*
261. 7<sup>th</sup> Annual Fundamentals of Musculoskeletal Ultrasound, San Diego, California; March 2012
- *Image Optimization and Interpretation*
  - *Shoulder Ultrasound Live Demonstration*
  - *Post-operative Shoulder*
  - *Biceps and Triceps Brachii*
  - *Ultrasound of Upper Extremity Peripheral Nerves*
  - *Greater Trochanter*
  - *Ultrasound of Lower Extremity Peripheral Nerves*
  - *Ankle Ligaments*
  - *Ultrasound of Lumbar Spine*
  - *Ultrasound-guided Tenotomy*
262. Society of Skeletal Radiology, Miami Beach, Florida; March 2012
- *Interventional Musculoskeletal Ultrasound: Basic Techniques*
  - *Interventional Musculoskeletal Ultrasound Workshop*
263. 19<sup>th</sup> Musculoskeletal Ultrasound Course for Rheumatologists: The Antonio J. Reginato Course (Cooper University Hospital), Philadelphia, Pennsylvania; March 2012
- *Wrist and Hand Ultrasound Workshop*
  - *Elbow Ultrasound Workshop*

- *Shoulder Ultrasound Workshop*
  - *Needle Guidance Workshop*
  - *Foot and Ankle Ultrasound Workshop*
  - *Hip Ultrasound Workshop*
  - *The Knee: Standard Scans, Sonographic Anatomy, and Pathology*
  - *Knee Ultrasound Workshop*
264. American Institute of Ultrasound in Medicine, Phoenix, Arizona; March 2012
- *Wrist and Hand Ultrasound*
  - *Lower Extremity Ultrasound Workshop*
265. University of Pennsylvania (Visiting Professor), Philadelphia, Pennsylvania; April 2012
- *Interventional Musculoskeletal Ultrasound*
  - *Musculoskeletal Imaging Case Conference*
  - *Peripheral Nerve Ultrasound (Grand Rounds)*
266. Michigan State University, Flint, Michigan; April 2012
- *Musculoskeletal Imaging Case Conference*
267. Pan American League of Associations of Rheumatology Conference, Punta Cana, Dominican Republic; April 2012
- *Ultrasound Evaluation of the Non-rheumatologic Hip*
  - *Ultrasound Evaluation of the Trochanteric Region*
268. Michigan Sonographer Society, Detroit, Michigan; April 2012
- *Introduction to Musculoskeletal Ultrasound*
  - *Shoulder Sonography*
269. American Roentgen Ray Society Annual Meeting, Vancouver, British Columbia, Canada; May 2012
- *Ultrasound of the Ankle and Foot: Miscellaneous*
270. National Musculoskeletal Imaging Conference, Leon, Mexico; May 2012
- *Ultrasound and MRI of the Rotator Cuff*
  - *Dynamic Musculoskeletal Ultrasound*
  - *Ultrasound of the Elbow with MRI Correlation*
  - *Latest Trends in Musculoskeletal Ultrasound*
  - *Ultrasound of the Hip*
  - *Ultrasound of Peripheral Nerves*
  - *Ultrasound of the Shoulder Demonstration*
271. McMaster University (Visiting Professor), Hamilton, Ontario, Canada; June 2012

- *Introduction to Musculoskeletal Ultrasound*
  - *Pitfalls in Musculoskeletal MRI*
  - *Ultrasound of the Ankle and Foot*
  - *Ultrasound of the Ankle and Foot Demonstration*
272. Gulfcoast Ultrasound Institute, St. Pete's Beach, Florida; June 2012
- *Upper Extremity Pathology*
  - *Dynamic Musculoskeletal Ultrasound*
  - *Peripheral Nerve Entrapment*
  - *Common Hip Pathology*
  - *Ultrasound Evaluation of Groin Pain*
  - *Hands-on Ultrasound Workshop*
273. European Society of Skeletal Radiology Annual Meeting, Innsbruck, Austria; June 2012
- *Ultrasound of Wrist and Hand Tendon Live Demonstration*
  - *Hand and Wrist Hands-on Ultrasound Workshop*
  - *Ultrasound of Gamekeeper's Thumb*
274. Hands-on Musculoskeletal Ultrasound Diagnostic and Interventional Techniques (American Institute of Ultrasound in Medicine), Rochester, Minnesota; July 2012
- *Interventional Musculoskeletal Ultrasound*
  - *Ultrasound of the Lateral Hip*
  - *Ultrasound of the Plantar Fascia*
  - *Ultrasound of the Calf*
  - *Hamstring Ultrasound Demonstration*
  - *Ankle and Foot Ultrasound Demonstration*
  - *Lower Limb Ultrasound-Guided Procedure Workshop*
  - *Lower Limb Diagnostic Ultrasound Workshop*
275. Society of Academic Bone Radiology, Jackson, Wyoming; July 2012
- *Post-operative Rotator Cuff*
276. Gulfcoast Ultrasound Institute, St. Pete's Beach, Florida; August 2012
- *Ultrasound of Knee Pathology*
  - *Ultrasound Evaluation of Shoulder Pathology*
  - *Ankle and Foot Anatomy and Scanning Techniques*
  - *Ultrasound Evaluation of Ankle and Foot Pathology*
  - *Ultrasound Hands-on Workshop*
277. International Skeletal Society, Rome, Italy; September 2012
- *Rotator Cuff Imaging*
278. Musculoskeletal Ultrasound Society, Leuven, Belgium; September 2012

- *Biceps Tendon and Bursae*
  - *Gluteal Tendons and Trochanter Region*
  - *Knee Extensor Apparatus*
279. Department of Orthopaedic Surgery, University of Toledo, Toledo, Ohio; September 2012
- *Imaging of the Rotator Cuff*
  - *MRI of the Wrist and Hand with US Correlation*
280. Primary Care Sports Medicine Update, Ann Arbor, Michigan; October 2012
- *Which Imaging Method Do I Choose*
281. Musculoskeletal Ultrasound: A Comprehensive Approach (CME Course), Atlanta, Georgia; October 2012
- *Image Optimization and Injection Techniques*
  - *Shoulder: Live Scanning Demonstration*
  - *Rotator Cuff Pathology*
  - *Other Shoulder Pathology*
  - *Elbow and Wrist Live Scanning Demonstration*
  - *Elbow Pathology*
  - *Wrist Pathology*
  - *Hip and Knee Live Scanning Demonstration*
  - *Hip Pathology*
  - *Knee Pathology*
  - *Ankle and Foot Live Scanning Demonstration*
  - *Ankle and Foot Pathology*
282. Michigan Radiological Society, Saginaw, Michigan; November 2012
- *Pitfalls in Musculoskeletal MR Imaging*
283. Radiological Society of North America Annual Meeting, Chicago, Illinois; November 2012
- *Ultrasound of Peripheral Nerve Entrapment (Refresher Course)*
  - *Ultrasound of the Hip: Live Demonstration (Refresher Course)*
  - *Interesting Ultrasound Cases (Refresher Course)*
  - *Peripheral Nerve Ultrasound Workshop (Refresher Course)*
  - *Dynamic Musculoskeletal Ultrasound Workshop (Refresher Course)*
  - *Ultrasound and MRI of Gout (Hot Topic Session)*
284. University of Nebraska, Omaha, Nebraska; December 2012
- *Interventional Musculoskeletal Ultrasound*
  - *Introduction to Musculoskeletal Ultrasound*
285. Tufts University, Department of Radiology, Boston, Massachusetts; January 2013



- *Musculoskeletal Radiology Case Conference*
  - *Interventional Musculoskeletal Ultrasound (Grand Rounds)*
  - *Musculoskeletal Ultrasound Live Demonstration*
286. Mt. Sinai, Department of Physical Medicine and Rehabilitation, New York City, New York; January 2013
- *Musculoskeletal Ultrasound (Grand Rounds)*
  - *Musculoskeletal Ultrasound Live Demonstration*
287. Andrews Institute Advanced Musculoskeletal Ultrasound Course, Gulf Breeze, Florida; January 2013
- *Wrist Pathology*
  - *Elbow Tendon Lesions*
  - *Ankle and Foot Pathology*
  - *Elbow Pathology*
  - *Wrist and Hand Anatomy*
  - *Cubital Tunnel*
  - *Dynamic Elbow Ultrasound*
  - *Dynamic Ankle Ultrasound*
  - *Plantar Fascia*
288. Rheumatology Society of Mexico, Puebla, Mexico; February 2013
- *Introduction to Musculoskeletal Ultrasound*
  - *Ultrasound of Synovial Disorders*
  - *Shoulder Pathology*
289. Gulfcoast Ultrasound Institute, St. Pete's Beach, Florida; February 2013
- *Shoulder Pathology*
  - *Hands-on Knee Ultrasound Workshop*
  - *Hands-on Elbow Ultrasound Workshop*
  - *Ultrasound of the Wrist and Hand*
290. Internal Derangement of Joints (CME Conference), San Diego, California; February 2013
- *Introduction to Musculoskeletal Ultrasound*
  - *Shoulder Scanning Protocol*
  - *Live Shoulder Demonstration*
  - *Rotator Cuff Ultrasound*
  - *Post-operative Shoulder*
  - *Pitfalls in Shoulder Ultrasound*
  - *Miscellaneous Shoulder Pathology*
  - *Interventional Shoulder Ultrasound*
291. Sports Imaging Update (University of Toronto and University of British Columbia), Whistler, British Columbia, Canada; February 2013

- *Ankle Ultrasound Live Demonstration*
  - *Shoulder Ultrasound Live Demonstration*
  - *Imaging of Shoulder Instability*
  - *Biceps Tendon*
  - *Elbow Ultrasound*
  - *Iliopsoas Pathology*
292. Ultrasound EMG CME course (Ohio State University), Poipu Beach, Kauai, Hawaii; February 2013
- *Ultrasound of the Shoulder and Elbow*
  - *Upper Limb Hands-on Workshop*
  - *Ultrasound of the Hand and Wrist*
  - *Tumors and Masses*
  - *Hip Ultrasound Workshop*
  - *Ultrasound of the Hip and Knee*
  - *Ultrasound of the Foot and Ankle*
293. Loma Linda University 81<sup>st</sup> Annual Postgraduate Convention, Loma Linda, California; March 2013
- *Ultrasound Evaluation of the Shoulder*
  - *Patient Assessment with Ultrasound*
  - *Introduction to Musculoskeletal Ultrasound (Boyd Lecture)*
294. Radiology in the Desert (University of Michigan), Scottsdale, Arizona; March 2013
- *Radiography of Subtle and Important Fractures*
  - *Radiographic Evaluation of Arthritis*
  - *Work-up of Bone Tumors and Tumor-like Lesions*
  - *Mechanisms of Knee Injury and Associated MRI Findings*
295. 8<sup>th</sup> Annual Fundamentals of Musculoskeletal Ultrasound, San Diego, California; March 2013
- *Shoulder Ultrasound Live Demonstration*
  - *Rotator Cuff*
  - *Pitfalls in Rotator Cuff Ultrasound*
  - *Post-operative Shoulder*
  - *Miscellaneous Shoulder Pathology*
  - *Image Optimization*
  - *Elbow and Wrist: Live Demonstration*
  - *Peripheral Nerves: Upper Extremity*
  - *Rheumatologic Applications*
  - *Hip and Knee: Live Demonstration*
  - *Hip and Thigh*
  - *Greater Trochanter*
  - *Knee Joint and Baker Cyst*
  - *Ankle and Foot: Live Demonstration*

- *Ankle Ligaments*
  - *Peripheral Nerves: Lower Extremity*
  - *Lumbar Spine*
  - *Tendon Fenestration*
296. International Diagnostic Course Davos Excellence in Teaching, Davos, Switzerland; April 2013
- *Ultrasound of Sports Injuries*
297. American Institute of Ultrasound in Medicine Annual Meeting, New York, New York; April 2013
- *Dynamic Musculoskeletal Ultrasound*
298. American Roentgen Ray Society Annual Meeting, Washington D.C.; April 2013
- *Common Applications of Knee Ultrasound*
299. Gulfcoast Ultrasound Institute, St. Pete Beach, Florida; April 2013
- *Dynamic Ultrasound Imaging of the Shoulder*
  - *Dynamic Ultrasound Imaging of the Elbow*
  - *Elbow Ultrasound Demonstration*
  - *Dynamic Ultrasound Imaging of the Wrist and Hand*
  - *Wrist and Hand Ultrasound Demonstration*
  - *Dynamic Ultrasound Imaging of the Hip*
  - *Dynamic Ultrasound Imaging of the Knee*
  - *Dynamic Ultrasound Imaging of the Ankle and Foot*
  - *Common Hip Pathology*
  - *Upper Extremity Ultrasound Workshop*
  - *Lower Extremity Ultrasound Workshop*
  - *Upper Extremity Cadaver Injection Workshop*
300. Spectrum Health Radiology, Grand Rapids, Michigan; April 2013
- *MRI of the Rotator Cuff with Ultrasound Correlation*
  - *Musculoskeletal Radiology Case Conference*
301. McGill University (Visiting Professor), Montreal, Quebec, Canada; May 2013
- *Introduction to Musculoskeletal Ultrasound*
  - *Radiographic Evaluation of Arthritis*
  - *Musculoskeletal Case Conference*
302. Inter-American College of Radiology (International Skeletal Society Outreach Program), Cancun, Mexico; May 2013
- *Dynamic Imaging*
  - *Shoulder Ultrasound*
  - *Ultrasound of the Hand and Wrist*

- *US and MRI in Rheumatological Conditions*
  - *Interventional Ultrasound*
303. Advanced Diagnostic and Interventional Ultrasound Techniques for Tendinopathy
- *Advanced Sonographic Diagnosis of Upper Extremity Tendinopathy*
  - *Ultrasound of the Shoulder Live Demonstration*
  - *Hands-on Needle Guidance Cadaveric Workshop*
304. Korean Society of Ultrasound in Medicine, Seoul, Korea; May 2013
- *Ultrasound of Soft Tissue Tumors*
305. McMaster University, Hamilton, Ontario, Canada; June 2013
- *Ultrasound of Hip*
  - *Ultrasound of the Post-operative Shoulder*
  - *Ultrasound of the Hip Live Demonstration*
  - *Ultrasound of the Shoulder Live Demonstration*
306. Course on Imaging in Rheumatic Diseases, San Lorenzo de El Escorial, Madrid, Spain; June 2013
- *Ultrasound of Synovial Disorders*
  - *Interventional Musculoskeletal Ultrasound*
307. The European League Against Rheumatism, Madrid, Spain; June 2013
- *Advanced Interventional Techniques*
308. European Society of Skeletal Radiology, Marbella, Spain; June 2013
- *Hernias*
  - *Biceps and Triceps Injuries*
  - *Quiz Panel*
309. American College of Rheumatology, Chicago, Illinois; June 2013
- *Elbow Ultrasound*
  - *Elbow Ultrasound Live Demonstration*
  - *Extremity Hands-on Workshops*
310. Hands-on Musculoskeletal Ultrasound Diagnostic and Interventional Techniques (American Institute of Ultrasound in Medicine), Rochester, Minnesota; June 2013
- *Shoulder Ultrasound*
  - *Lateral Elbow Pathology*
  - *Radial Wrist Pathology*
  - *Live Hip Ultrasound Demonstration*
  - *Extremity Ultrasound-Guided Procedure Workshop*
  - *Extremity Diagnostic Ultrasound Workshop*

311. Detroit Regional Sports Medicine Symposium (Wayne State University), Detroit, Michigan; July 2013
- *Dynamic Musculoskeletal Ultrasound*
312. Gulfcoast Ultrasound Institute, St. Pete Beach, Florida; August 2013
- *Pathology of the Shoulder*
  - *Pathology of the Wrist and Hand*
  - *Knee Anatomy and Scanning Technique*
  - *Elbow Ultrasound Workshop*
  - *Knee Extremity Ultrasound Workshop*
  - *Hip and Ankle Ultrasound Workshop*
  - *Upper Extremity Cadaver Injection Workshop*
313. International Skeletal Society, Philadelphia, Pennsylvania; October 2013
- *Racquet Injuries*
  - *Biceps and Triceps Injuries*
  - *Elbow Interventional Treatments*
314. Society of Medical Diagnostic Sonographers, Las Vegas, Nevada; October 2013
- *Sonography of the Knee*
  - *Dynamic Musculoskeletal Sonography*
315. 52<sup>nd</sup> Annual Badgley Day Sports Medicine Symposium (University of Michigan), Ann Arbor, Michigan; October 2013
- *Dynamic Musculoskeletal Ultrasound: Lower Extremity*
316. Musculoskeletal Ultrasound: A Comprehensive Approach (CME Course), Atlanta, Georgia; November 2013
- *Image Optimization and Injection Techniques*
  - *Shoulder: Live Scanning Demonstration*
  - *Rotator Cuff Pathology*
  - *Other Shoulder Pathology*
  - *Elbow and Wrist Live Scanning Demonstration*
  - *Elbow Pathology*
  - *Wrist Pathology*
  - *Hip and Knee Live Scanning Demonstration*
  - *Hip Pathology*
  - *Knee Pathology*
  - *Ankle and Foot Live Scanning Demonstration*
  - *Ankle and Foot Pathology*
317. Radiology Consultant Associates, Calgary, Alberta, Canada; November 2013
- *Ultrasound of the Shoulder*
  - *Ultrasound of the Elbow*

- *Ultrasound of the Ankle and Foot*
318. Spectrum Health Orthopaedic Surgery Grand Rounds, Grand Rapids, Michigan; November 2013
- *Introduction to Musculoskeletal Ultrasound*
319. Grand Valley State University, Grand Rapids, Michigan; November 2013
- *Shoulder Sonography*
  - *Introduction to Musculoskeletal Ultrasound*
320. Radiological Society of North America Annual Meeting, Chicago, Illinois; December 2013
- *Shoulder Ultrasound Demonstration*
  - *Interesting Musculoskeletal Ultrasound Cases*
  - *Case-based Review: Shoulder*
  - *Upper Extremity Peripheral Nerve Workshop*
  - *Dynamic Imaging Lower Extremity Workshop*
321. Department of Orthopaedic Surgery, University of Toledo, Toledo, Ohio; January 2014
- *MR Arthrography of the Shoulder*
  - *Imaging of Musculoskeletal Infection*
322. Department of Anesthesiology, University of Michigan, Ann Arbor, Michigan; January 2014
- *Introduction to Musculoskeletal Ultrasound*
  - *Interventional Musculoskeletal Ultrasound*
323. Memorial Sloan Kettering, New York City, New York; January 2014
- *Pitfalls in Musculoskeletal MRI*
  - *Ultrasound of Soft Tissue Masses*
324. Musculoskeletal Ultrasound Course, Oxford, United Kingdom; January 2014
- *Upper and Lower Extremity Workshops*
325. Gulfcoast Ultrasound Institute, St. Pete's Beach, Florida; January 2014
- *Wrist and Hand Pathology*
  - *Elbow Pathology*
  - *Ankle and Foot Pathology*
  - *Cadaveric Injection Workshop*
326. Michigan Podiatric Medical Association, Dearborn, Michigan; February 2014
- *Foot and Ankle Ultrasound*
327. Ultra-EMG Annual Course, Sanibel Island, Florida; February 2014

- *Shoulder Ultrasound Technique*
  - *Shoulder Pathology*
  - *Elbow Ultrasound Technique*
  - *Elbow Pathology*
  - *Wrist and Hand Ultrasound Technique*
  - *Wrist and Hand Pathology*
328. Internal Derangements of Joints (Donald Resnick), Coronado Island, California; February 2014
- *Introduction to Musculoskeletal Ultrasound*
  - *Knee Ultrasound Technique*
  - *Knee Ultrasound Live Demonstration*
  - *Tendon Pathology*
  - *Ligament and Cartilage Pathology*
  - *Cysts and Fluid Collections*
  - *Miscellaneous Knee Pathology*
  - *Interventional Knee Ultrasound*
329. Los Angeles Radiological Society, Pasadena, California; February 2014
- *Introduction to Musculoskeletal Ultrasound*
  - *Dynamic Musculoskeletal Ultrasound*
  - *MRI of the Rotator Cuff with US Correlation*
  - *Imaging of Musculoskeletal Infection*
330. Diagnostic and Interventional Musculoskeletal Ultrasound of the Lower Extremity, Tampa, Florida; March 2014
- *Sonopathology of the Hip*
  - *Sonopathology of the Knee*
  - *Sonopathology of the Ankle*
  - *Hands-on Interventional Lower Extremity Workshop*
331. Musculoskeletal Radiology Review Course, Leon, Mexico; March 2014
- *Ultrasound of the Shoulder*
  - *Ankle Ultrasound*
  - *New Techniques in Musculoskeletal Ultrasound*
  - *Evaluation of Inflammatory Arthritis*
  - *Dynamic Musculoskeletal Ultrasound*
332. American Institute of Ultrasound in Medicine Annual Convention, Las Vegas, Nevada; March 2014
- *Ultrasound of the Elbow*

333. 9<sup>th</sup> Annual Fundamentals of Musculoskeletal Ultrasound, San Diego, California; April 2014
- *Image Optimization*
  - *Beyond the Rotator Cuff*
  - *Post-operative Cuff*
  - *Biceps and Triceps Brachii*
  - *Athletic Groin*
  - *Peripheral Nerves: Lower Extremity*
  - *Lumbar Spine*
  - *Joint Aspiration and Injection*
  - *Tendon Fenestration*
334. Georgetown University, Georgetown, Washington D.C.; April 2014
- *Musculoskeletal Case Conference*
  - *Musculoskeletal Ultrasound (George Nomikos Memorial Lecture)*
335. University of Maryland, Baltimore, Maryland; April 2014
- *Pitfalls in Musculoskeletal MRI*
  - *Musculoskeletal Case Conference*
  - *Musculoskeletal Ultrasound*
336. American Roentgen Ray Society Annual Meeting, San Diego, California; May 2014
- *Interventional Musculoskeletal Ultrasound*
  - *Practical Applications of Knee Ultrasound*
337. Gulfcoast Ultrasound Institute, St. Pete's Beach, Florida; May 2014
- *Dynamic Shoulder Ultrasound*
  - *Pitfalls in Shoulder Ultrasound*
  - *Dynamic Elbow Ultrasound*
  - *Dynamic Wrist and Hand Ultrasound*
  - *Hip Pathology*
  - *Dynamic Ankle and Foot Ultrasound*
  - *Upper Extremity Hands-on Workshop*
  - *Lower Extremity Hands-on Workshop*
  - *Lower Extremity Cadaver Interventional Workshop*
338. NYU's 2014 Advanced Imaging of Joints with an Emphasis on Sports Injuries, Manhattan, New York; May 2014
- *Snapping Conditions of the Hip*
  - *Ankle Tendon Ultrasound- Diagnosis and Intervention*
  - *Shoulder Ultrasound Hands-on Workshop*
339. Canadian Academy of Sports and Exercise Medicine, Quebec City, Quebec, Canada; June 2014



- *Ultrasound of Shoulder Pathology*
  - *Ultrasound of Upper Extremity Pathology*
  - *Ultrasound of the Hip*
  - *Ultrasound of the Lower Extremity*
  - *Ultrasound Hands-on Workshops*
340. Andrews Institute Ultrasound Course, Pensacola Beach, Florida; June 2014
- *Ultrasound of Wrist and Hand Pathology*
  - *Ultrasound of the Elbow Live Demonstration*
  - *Ultrasound of Ankle Pathology*
  - *Ultrasound of Soft Tissues*
  - *Ultrasound Hands-on Workshops*
341. European Society of Skeletal Radiology; Riga, Latvia; June 2014
- *Common Peroneal Nerve*
342. Hands-on Musculoskeletal Ultrasound Diagnostic and Interventional Techniques (American Institute of Ultrasound in Medicine), Rochester, Minnesota; July 2014
- *Rotator Cuff and Biceps Pathology*
  - *Hip Impingement: Live Demonstration*
  - *Anterior and Medial Knee Pathology*
  - *Pearls and Pitfalls for Ultrasound Needle Guidance*
  - *Midfoot and Forefoot Pathology*
  - *Hands-on Ultrasound Model and Cadaveric Workshops*
343. Society of Academic Bone Radiologists, Portland, Oregon; July 2014
- *Pectoralis Major Tears*
344. Royal Australasian and New Zealand College of Radiology, Wellington, New Zealand; August 2014
- *Musculoskeletal Case Conference*
  - *US and MRI of the Rotator Cuff*
  - *Shoulder Ultrasound*
  - *Elbow Ultrasound*
  - *Interventional Musculoskeletal Ultrasound: Upper Extremity*
  - *MRI of Shoulder Instability*
345. Florida Hospital, Winter Park, Florida; August 2014
- *Musculoskeletal Ultrasound*
  - *Musculoskeletal Radiology Case Conference*
346. Gulfcoast Ultrasound Institute, St. Pete's Beach, Florida; August 2014
- *Elbow Pathology*
  - *Wrist and Hand Pathology*

- *Upper Extremity Hands-on Workshop*
  - *Lower Extremity Cadaver Interventional Workshop*
347. Royal College of Radiologists, London, United Kingdom; September 2014
- *Radiology of Subtle Fracture – the Middlemiss Lecture*
  - *Pitfalls in Shoulder Ultrasound*
  - *MRI of Knee Injury*
348. Musculoskeletal Ultrasound and Spasticity Anatomy Course (Baylor University), Houston, Texas; September 2014
- *Fundamentals of Ultrasound Guidance*
  - *Common Interventional Musculoskeletal Procedures*
  - *Advanced Interventional Musculoskeletal Procedures*
349. Virginia Commonwealth University, Richmond, Virginia; October 2014
- *Musculoskeletal Ultrasound*
  - *MRI of the Rotator Cuff with US Correlation*
  - *Musculoskeletal Case Conference*
  - *Upper Extremity Hands-on Workshop*
350. Michigan Foot and Ankle Course (University of Michigan), Ann Arbor, Michigan; October 2014
- *Advanced Imaging of the Foot and Ankle*
351. International Skeletal Society, Edinburgh, Scotland, United Kingdom; October 2014
- *Hernias*
  - *PRP: An Overview*
352. Neurology Grand Rounds (University of Michigan), Ann Arbor, Michigan; October 2014
- *Peripheral Nerve Ultrasound*
353. Musculoskeletal Ultrasound: A Comprehensive Approach (CME Course), Atlanta, Georgia; November 2014
- *Image Optimization and Injection Techniques*
  - *Shoulder: Live Scanning Demonstration*
  - *Rotator Cuff Pathology*
  - *Other Shoulder Pathology*
  - *Elbow and Wrist Live Scanning Demonstration*
  - *Elbow Pathology*
  - *Wrist Pathology*
  - *Hip and Knee Live Scanning Demonstration*
  - *Hip Pathology*
  - *Knee Pathology*
  - *Ankle and Foot Live Scanning Demonstration*

- *Ankle and Foot Pathology*
354. Radiological Society of North America Annual Meeting, Chicago, Illinois; December 2014
- *Shoulder Ultrasound Live Demonstration*
  - *Controversy Session: Shoulder Ultrasound versus MRI*
  - *Peripheral Nerve Ultrasound Workshop*
  - *Dynamic Imaging Ultrasound Workshop*
  - *Tendon Fenestration*
355. Comprehensive Musculoskeletal Center Symposium (University of Michigan), Northville, Michigan; December 2014
- *Shoulder Ultrasound versus MRI*
356. Virginia Mason Hospital, 14<sup>th</sup> Annual John H. Walker Lecture, Seattle, Washington; January 2015
- *Musculoskeletal Ultrasound*
357. University of Texas, Southwestern, Dallas, Texas; January 2015
- *Musculoskeletal Ultrasound*
  - *Interventional Musculoskeletal Ultrasound*
358. University of Toledo, Toledo, Ohio; January 2015
- *MRI of the Hip*
  - *MRI of Musculoskeletal Infection*
359. Gulfcoast Ultrasound Institute, St. Pete's Beach, Florida; January 2015
- *Shoulder Pathology*
  - *Elbow Pathology*
  - *Hand and Wrist Pathology*
  - *Hip Ultrasound*
  - *Knee Pathology*
  - *Ankle and Foot Pathology*
  - *Lower Extremity Hands-on Workshop*
  - *Cadaver Interventional Workshop*
360. American Institute for Radiologic Pathology, Silver Spring, Maryland; February 2015
- *Musculoskeletal Ultrasound: Upper Extremity*
  - *Musculoskeletal Ultrasound: Lower Extremity*
  - *Musculoskeletal Ultrasound: Live Demonstration*
361. Ultra-EMG (Ohio State University), San Diego, California; February 2015
- *Ultrasound of the Carpal Tunnel*
  - *Ultrasound of the Hip*

- *Ultrasound of the Knee*
  - *Ultrasound of the Foot and Ankle*
  - *Ultrasound of Soft Tissue Masses*
362. Snowmass 2015 Clinical Ultrasound, Snowmass, Colorado; February 2015
- *Ultrasound of the Shoulder*
  - *Ultrasound of Soft Tissue Masses*
  - *Interventional Musculoskeletal Ultrasound*
  - *Ultrasound of the Elbow*
363. Radiology in the Desert (University of Michigan), Scottsdale, Arizona; March 2015
- *MRI of the Hip*
  - *Musculoskeletal Infection*
  - *MRI of the Rotator Cuff with Ultrasound Correlation*
  - *Pitfalls in Musculoskeletal MRI*
364. 10<sup>th</sup> Annual Fundamentals of Musculoskeletal Ultrasound, San Diego, California; March 2015
- *Shoulder Ultrasound Live Demonstration*
  - *Image Optimization*
  - *Miscellaneous Shoulder Pathology*
  - *Post-operative Shoulder*
  - *Beyond the Rotator Cuff*
  - *Elbow and Wrist: Live Demonstration*
  - *Biceps and Triceps*
  - *Peripheral Nerves: Upper Extremity*
  - *Rheumatologic Applications: Upper Extremity*
  - *Hip and Knee: Live Demonstration*
  - *Hip Joint*
  - *Greater Trochanter*
  - *Peripheral Nerves: Lower Extremity*
  - *Ankle and Foot: Live Demonstration*
  - *Interventional Techniques*
  - *Tendon Fenestration*
365. American Institute of Ultrasound in Medicine, Orlando, Florida; March 2015
- *Ultrasound of the Shoulder*
  - *Upper Extremity Nerve Workshop*
  - *Dynamic Imaging Workshop*
366. Emory University, Atlanta, Georgia; April 2015
- *Musculoskeletal Radiology Case Conference*
  - *Musculoskeletal Ultrasound*
  - *Pitfalls in Musculoskeletal MRI*

367. American Institute for Radiologic Pathology, Silver Spring, Maryland; April 2015
- *Musculoskeletal Ultrasound: Upper Extremity*
  - *Musculoskeletal Ultrasound: Lower Extremity*
  - *Musculoskeletal Ultrasound: Live Demonstration*
368. Institute for Advanced Medical Education, Atlanta, Georgia; April 2015
- *Interventional Techniques*
  - *Shoulder Pathology and Intervention*
  - *Elbow Scanning Techniques*
  - *Hip Scanning Techniques*
369. American Roentgen Ray Society Annual Meeting, Toronto, Ontario, Canada; April 2015
- *Live Hip Ultrasound Scanning Demonstration*
  - *Greater Trochanter*
370. Institute for Advanced Medical Education, Seattle, Washington; April 2015
- *Shoulder Scanning Techniques*
  - *Elbow Scanning Techniques*
  - *Elbow Pathology and Intervention*
  - *Knee Pathology and Intervention*
  - *Ankle Scanning Techniques*
371. American Institute for Radiologic Pathology, Silver Spring, Maryland; May 2015
- *Musculoskeletal Ultrasound: Upper Extremity*
  - *Musculoskeletal Ultrasound: Lower Extremity*
  - *Musculoskeletal Ultrasound: Live Demonstration*
372. Ontario Association of Radiologists, Toronto, Ontario, Canada; May 2015
- *Live Shoulder Ultrasound Scanning Demonstration*
  - *Common Shoulder Pathology*
  - *Live Hip Ultrasound Scanning Demonstration*
  - *Common Hip Pathology*
  - *Interventional Musculoskeletal Ultrasound*
373. Department of Internal Medicine Grand Rounds, Ann Arbor, Michigan; May 2015
- *Evaluation of Common Tendon Disorders*
374. The Orthobiologic Institute 6<sup>th</sup> Annual Regenerative Medicine Symposium, Las Vegas, Nevada; June 2015
- *Cadaveric Injection Workshop*
375. European Society of Skeletal Radiology, York, United Kingdom; June 2015
- *Biceps Brachii Ultrasound*

- *Shoulder Ultrasound Workshop*
  - *Imaging after Rotator Cuff Repair*
376. American Association of Physical Medicine and Rehabilitation Upper Extremity Course; Tampa, Florida; June 2015
- *Shoulder Pathology*
  - *Live Elbow Ultrasound Demonstration*
377. Society of Academic Bone Radiologists Annual Meeting; Nashville, Tennessee; July 2015
- *IMPROVE clinical trial update*
378. Gulfcoast Ultrasound Institute, St. Pete's Beach, Florida; August 2015
- *Shoulder Pathology*
  - *Elbow Pathology*
  - *Hand and Wrist Pathology*
  - *Ankle and Foot Pathology*
  - *Lower Extremity Hands-on Workshop*
  - *Cadaver Interventional Workshop*
379. University of Michigan 3<sup>rd</sup> Year Medical School Class Lecture Series; Ann Arbor, Michigan; August 2015
- *Introduction to Musculoskeletal Radiology*
380. China Conference on Musculoskeletal Ultrasound; Chengdu, China; August 2015
- *Dynamic Musculoskeletal Ultrasound*
  - *Musculoskeletal Ultrasound Research Update*
381. University Clinic Center Imaging Update; Skopje, Macedonia; August 2015
- *MRI of the Hip*
  - *Imaging Approach to Arthritis*
382. Balkan Congress of Nuclear Medicine Annual Meeting; Ohrid, Macedonia; August 2015
- *Work-up of Solitary Bone Lesion*
383. International Skeletal Society Annual Meeting; Maui, Hawai'i; September 2015
- *Elbow Ultrasound*
  - *Pectoralis Tears*
  - *Tennis Injuries*
384. Brazilian Congress of Radiology Annual Meeting; Rio de Janeiro, Brazil; October 2015
- *Elbow Sonography with MRI Correlation*
  - *Ultrasound Evaluation of Arthritis*
  - *Ankle and Foot Sonography with MRI Correlation*

- *MR Arthrography of the Shoulder*
  - *Musculoskeletal Sonography: Dynamic Imaging*
  - *Wrist and Hand Sonography with MRI Correlation*
385. American Institute for Radiologic Pathology, Silver Spring, Maryland; October 2015
- *Upper Extremity Sonography with MRI Correlation*
  - *Lower Extremity Sonography with MRI Correlation*
  - *Musculoskeletal Ultrasound Live Demonstration*
386. Society of Radiologists in Ultrasound Annual Meeting, Chicago, Illinois; October 2015
- *Peripheral Nerve Ultrasound*
  - *Ultrasound of Arthritis: Gout, Psoriatic Arthritis, and Osteoarthritis*
387. Fundamentals of Musculoskeletal Ultrasound: Upper Extremity, Toronto, Ontario, Canada; November 2015
- *Ultrasound Image Optimization*
  - *Shoulder Anatomy and Scanning Technique*
  - *Biceps Brachii*
  - *Rotator Cuff*
  - *Post-operative Rotator Cuff*
  - *Shoulder Masses*
  - *Elbow Anatomy and Scanning Technique*
  - *Elbow Interventional Procedures*
  - *Elbow Joint Pathology*
  - *Elbow Ligament Pathology*
  - *Elbow Nerve Pathology*
  - *Elbow Masses*
  - *Elbow Tendon Pathology*
  - *Wrist Anatomy and Scanning Technique*
  - *Wrist and Hand Rheumatologic Disorders*
  - *Wrist and Hand: Ligament Pathology*
  - *Wrist and Hand: Masses*
  - *Wrist and Hand: Interventional Procedures*
388. Radiological Society of North America, Chicago, Illinois; November 2015
- *Elbow Ultrasound Scanning Demonstration*
  - *Lower Extremity Dynamic Imaging*
  - *Upper Extremity Peripheral Nerve Ultrasound*
389. Advanced Institute for Medical Education, Chicago, Illinois; December 2015
- *Interventional Musculoskeletal Ultrasound*
  - *Elbow Anatomy and Scanning Technique*
  - *Elbow Pathology*
  - *Wrist Anatomy and Scanning Technique*

390. Gulfcoast Ultrasound Institute, St. Pete's Beach, Florida; January 2016
- *Ultrasound Evaluation of Shoulder Pathology*
  - *Ultrasound Evaluation of Elbow Pathology*
  - *Ultrasound Evaluation of Wrist and Hand Pathology*
  - *Ultrasound Evaluation of Ankle Pathology*
  - *Ankle and Foot Ultrasound Workshop*
  - *Upper Extremity Injection Cadaver Workshop*
  - *Lower Extremity Injection Cadaver Workshop*
391. Michigan State University, St. Mary Hospital, Grand Rapids, Michigan; February 2016
- *Imaging of Musculoskeletal Infection*
  - *Musculoskeletal Radiology Case Conference*
392. Internal Derangement of Joints, Coronado, California; February 2016
- *Introduction to Musculoskeletal Ultrasound*
  - *Ankle Scanning Protocol*
  - *Live Ankle Ultrasound Demonstration*
  - *Ankle Tendons*
  - *Ankle Ligaments and Bone*
  - *Infection and Inflammation*
  - *Masses*
  - *Interventional Shoulder Ultrasound*
393. Advanced Institute for Medical Education, Park City, Utah; February 2016
- *Elbow Pathology and Intervention*
  - *Wrist Pathology and Intervention*
  - *Tendon Fenestration*
  - *Scanning Workshop*
394. American Institute for Radiologic Pathology, Silver Spring, Maryland; March 2016
- *Upper Extremity Sonography with MRI Correlation*
  - *Lower Extremity Sonography with MRI Correlation*
  - *Musculoskeletal Ultrasound Live Demonstration*
395. 22<sup>nd</sup> Annual Clinical Ultrasound Course, Steamboat Springs, Colorado; March 2016
- *Ultrasound of the Ankle*
  - *Ultrasound of the Knee*
  - *Interventional Musculoskeletal Ultrasound*
  - *Ultrasound of Arthritis*
396. 5<sup>th</sup> Conference of Musculoskeletal Imaging, Leon, Mexico; March 2016
- *Ultrasound of the Biceps Brachii*
  - *Ultrasound of the Post-operative Shoulder*



- *Ultrasound of Arthritis*
  - *Ultrasound of Peripheral Nerves*
  - *Interventional Musculoskeletal Ultrasound: Upper Extremity*
397. American Institute of Ultrasound in Medicine Annual Meeting, New York City; March 2016
- *Tendon Fenestration*
  - *Hip Ultrasound Workshop*
  - *Shoulder Ultrasound Workshop*
398. Massachusetts General Hospital, Boston, Massachusetts; March 2016
- *Radiology Case Conference*
  - *Musculoskeletal Ultrasound*
399. American Institute for Radiologic Pathology, Silver Spring, Maryland; March 2016
- *Upper Extremity Sonography with MRI Correlation*
  - *Lower Extremity Sonography with MRI Correlation*
  - *Musculoskeletal Ultrasound Live Demonstration*
400. University of Vermont, Burlington, Vermont; April 2016
- *Radiology of Subtle and Important Fractures*
  - *Radiology Case Conference*
  - *Musculoskeletal Ultrasound*
401. New Jersey Ultrasound Society, Newark, New Jersey; April 2016
- *Pitfalls in Shoulder Ultrasound*
  - *Hands-on Scanning Workshop*
402. American Medical Society of Sports Medicine, Dallas, Texas; April 2016
- *Ultrasound of the Medial Thigh*
  - *Hands-on Workshop: Thigh*
  - *Ultrasound of the Forefoot*
  - *Hands-on Workshop: Forefoot*
  - *Advances Imaging of Tendinopathy*
403. American Roentgen Ray Society Annual Meeting, Los Angeles, California; April 2016
- *Shoulder Ultrasound*
  - *Hip Ultrasound*
404. 11<sup>th</sup> Annual Fundamentals of Musculoskeletal Ultrasound, San Diego, California; April 2016
- *Ultrasound Image Optimization*
  - *Shoulder Live Scanning Demonstration*
  - *Post-operative Shoulder*

- *Beyond the Rotator Cuff*
- *Elbow and Wrist Live Scanning Demonstration*
- *Peripheral Nerves: Upper*
- *Rheumatology: Upper*
- *Hip and Knee Live Scanning Demonstration*
- *Greater Trochanter*
- *Ankle and Foot Live Scanning Demonstration*
- *Ankle Foot Masses*
- *Rheumatology: Lower*
- *Interventional Techniques*
- *Tendon Fenestration*
- *Shoulder Hands-on Workshop*
- *Elbow and Wrist Hands-on Workshop*
- *Hip and Thigh Hands-on Workshop*
- *Knee Hands-on Workshop*
- *Ankle and Foot Hands-on Workshop*

405. Ontario Association of Radiology, Toronto, Ontario, Canada; May 2016

- *Ankle Live Scanning Demonstration*
- *Ultrasound of the Calf and Heel*
- *Ultrasound of Inflammatory Arthritis*
- *Elbow Live Scanning Demonstration*
- *Elbow Tendons*
- *Wrist and Hand Live Scanning Demonstration*
- *Wrist Tendons*
- *Gamekeeper's Thumb*

406. American Institute for Radiologic Pathology, Silver Spring, Maryland; May 2016

- *Upper Extremity Sonography with MRI Correlation*
- *Lower Extremity Sonography with MRI Correlation*
- *Musculoskeletal Ultrasound Live Demonstration*

407. Diagnostic and Interventional Musculoskeletal Ultrasound Symposium with Cadaver Lab (New York University), New York, New York; May 2016

- *Elbow Pathology*
- *Wrist and Hand Pathology*
- *Elbow Interventional Procedures*
- *Wrist and Hand Interventional Procedures*
- *Hands-on Cadaver Lab: Shoulder*
- *Hands-on Cadaver Lab: Elbow*
- *Hands-on Cadaver Lab: Wrist and Hand*
- *Hands-on Cadaver Lab: Hip*
- *Hands-on Cadaver Lab: Knee*
- *Hands-on Cadaver Lab: Ankle and Foot*

408. Skeletal Radiology Review Course, Melbourne, Australia; June 2016

- *Ultrasound of the Rotator Cuff*
- *Ultrasound of the Shoulder- Beyond the Rotator Cuff*
- *Ultrasound of the Elbow*
- *Radiography of Subtle and Important Fractures*
- *Ultrasound of the Wrist and Hand*
- *Ultrasound of the Knee*
- *MRI of the Hip*
- *Ultrasound of the Hip and Thigh*
- *Ultrasound of the Hernias*
- *Work-up of Bone Tumors*
- *Pitfalls in Musculoskeletal MRI*
- *Ultrasound of Arthritis*
- *Radiography of Arthritis*
- *Imaging of Musculoskeletal Infection*

409. Gulfcoast Ultrasound Institute, St. Pete's Beach, Florida; August 2016

- *Ultrasound Evaluation of Shoulder Pathology*
- *Ultrasound Evaluation of Elbow Pathology*
- *Ultrasound Guided Injection Techniques*
- *Ultrasound Evaluation of Hand and Wrist Pathology*
- *Hands on Scanning: Ankle and Foot*
- *Cadaver Injection Workshop*

410. American Institute for Radiologic Pathology, Silver Spring, Maryland; August 2016

- *Upper Extremity Sonography with MRI Correlation*
- *Lower Extremity Sonography with MRI Correlation*
- *Musculoskeletal Ultrasound Live Demonstration*

411. International Skeletal Society, Paris, France; September 2016

- *What To Inject and Why*
- *Meniscal Tears: Diagnosis and Clinical Significance*

412. American Institute for Radiologic Pathology International Course, Bangkok, Thailand; September 2016

- *Ultrasound of the Rotator Cuff*
- *Shoulder Ultrasound: Beyond the Rotator Cuff*
- *Wrist and Hand Ultrasound with MRI Correlation*
- *Lower Extremity Ultrasound*
- *Dynamic Musculoskeletal Ultrasound*
- *Ultrasound Evaluation of Arthritis*
- *Peripheral Nerve Ultrasound*
- *MRI of the Hip*
- *Musculoskeletal Case Conference*

413. Musculoskeletal Ultrasound Society, Ibiza, Spain; September 2016
- *Forefoot Sports Injuries*
  - *Tendon Fenestration*
  - *Musculoskeletal Ultrasound Hands-on Workshop*
414. American Institute for Radiologic Pathology, Silver Spring, Maryland; August 2016
- *Upper Extremity Sonography with MRI Correlation*
  - *Lower Extremity Sonography with MRI Correlation*
  - *Musculoskeletal Ultrasound Live Demonstration*
415. IDKD Musculoskeletal Course, Rio de Janeiro; November 2016
- *Ultrasound of Sports Injuries*
  - *Interventional Musculoskeletal Ultrasound*
416. Institute for Advanced Medical Education, Orlando, Florida; November 2016
- *Live Shoulder Ultrasound Demonstration*
  - *Common Shoulder Pathology*
  - *Interventional Shoulder Ultrasound*
417. Sports and Arthritis MSK Imaging Conference Leading Topic: Lower Limb, Krakow, Poland; November 2016
- *Ultrasound of Groin Hernias*
  - *Hip Trauma*
  - *Ultrasound of the Greater Trochanter*
418. Radiological Society of North America, Chicago, Illinois; November 2016
- *Shoulder Ultrasound Live Demonstration*
  - *Dynamic Imaging of the Upper Extremity: Workshop*
  - *Lower Extremity Peripheral Nerve Ultrasound: Workshop*
419. Musculoskeletal Ultrasound Review, Edmonton, Alberta, Canada; January 2017
- *Shoulder Ultrasound Scanning Technique and Anatomy*
  - *Shoulder Pathology*
  - *Elbow Ultrasound Scanning Technique and Anatomy*
  - *Elbow Pathology*
  - *Wrist and Hand Ultrasound Scanning Technique and Anatomy*
  - *Wrist and Hand Pathology*
  - *Hip Ultrasound Scanning Technique and Anatomy*
  - *Hip Pathology*
  - *Knee Ultrasound Scanning Technique and Anatomy*
  - *Knee Pathology*
  - *Ankle and Foot Ultrasound Scanning Technique and Anatomy*
  - *Ankle and Foot*

420. Gulfcoast Ultrasound Institute, St. Pete's Beach, Florida; January 2017
- *Ultrasound Evaluation of Shoulder Pathology*
  - *Ultrasound Evaluation of Elbow Pathology*
  - *Ultrasound Evaluation of Wrist and Hand Pathology*
  - *Ultrasound Evaluation of Ankle Pathology*
  - *Ankle and Foot Ultrasound Workshop*
  - *Upper Extremity Injection Cadaver Workshop*
  - *Lower Extremity Injection Cadaver Workshop*
421. American Institute for Radiologic Pathology, Silver Spring, Maryland; February 2017
- *Upper Extremity Sonography with MRI Correlation*
  - *Lower Extremity Sonography with MRI Correlation*
  - *Musculoskeletal Ultrasound Live Demonstration*
422. Radiology in the Desert (University of Michigan), Scottsdale, Arizona; March 2017
- *MRI of the Shoulder Instability*
  - *MRI of the Wrist and Hand*
  - *MRI of the Ankle*
  - *Lower Extremity Fractures*
423. Sports Imaging Update (University of Toronto and University of British Columbia), Whistler, British Columbia, Canada; March 2017
- *Ultrasound of the Biceps and Rotator Interval*
  - *MSK US Pearls*
424. *MSK US Interventional Principles* International Diagnostic Course Davos Excellence in Teaching, Davos, Switzerland; March 2017
- *Ultrasound of Sports Injuries*
425. American Institute for Radiologic Pathology, Silver Spring, Maryland; April 2017
- *Upper Extremity Sonography with MRI Correlation*
  - *Lower Extremity Sonography with MRI Correlation*
  - *Musculoskeletal Ultrasound Live Demonstration*
426. 12<sup>th</sup> Annual Fundamentals of Musculoskeletal Ultrasound, San Diego, California; April 2017
- *Ultrasound Image Optimization*
  - *Shoulder Live Scanning Demonstration*
  - *Post-operative Shoulder*
  - *Beyond the Rotator Cuff*
  - *Elbow and Wrist Live Scanning Demonstration*
  - *Peripheral Nerves: Upper*
  - *Rheumatology: Upper*
  - *Hip and Knee Live Scanning Demonstration*

- *Greater Trochanter*
  - *Ankle and Foot Live Scanning Demonstration*
  - *Ankle Foot Masses*
  - *Rheumatology: Lower*
  - *Interventional Techniques*
  - *Tendon Fenestration*
  - *Shoulder Hands-on Workshop*
  - *Elbow and Wrist Hands-on Workshop*
  - *Hip and Thigh Hands-on Workshop*
  - *Knee Hands-on Workshop*
  - *Ankle and Foot Hands-on Workshop*
427. American Roentgen Ray Society Annual Meeting, New Orleans; May 2017
- *Shoulder Ultrasound and Interventional*
  - *Hip and Knee Ultrasound / Interventional*
428. New England Baptist Hospital, Boston, Massachusetts; May 2017
- *Musculoskeletal Ultrasound*
429. Ultra-EMG (Ohio State University), Columbus, Ohio; May 2017
- *Ultrasound of the Hip*
  - *Ultrasound of the Knee*
  - *Ultrasound of the Foot and Ankle*
  - *Ultrasound of Soft Tissue Masses*
430. New Jersey Ultrasound Society, Newark, New Jersey; May 2017
- *Ankle and Foot Ultrasound*
  - *Hands-on Scanning Shoulder Demonstration*
431. Canadian Academy of Sports and Exercise Medicine, Ottawa, Ontario, Canada; June 2017
- *Ultrasound of Shoulder Pathology*
  - *Ultrasound of Elbow, Wrist, and Hand Pathology*
  - *Ultrasound of the Elbow Interventional Procedures*
  - *Ultrasound Hands-on Workshops*
432. Andrews Institute Ultrasound Course (AIUM), Pensacola Beach, Florida; June 2017
- *Ultrasound of Hip Pathology*
  - *Ultrasound of the Elbow Interventional Procedures*
  - *Ultrasound Hands-on Workshops*
433. European Society of Skeletal Radiology, Bari, Italy; June 2017
- *Ultrasound of Muscle Injury*

434. Sports Medicine Symposium (Detroit Medical Center), Plymouth, Michigan; July 2017
- *Interventional Musculoskeletal Ultrasound Workshop*
435. American Institute for Radiologic Pathology, Silver Spring, Maryland; August 2017
- *Upper Extremity Sonography with MRI Correlation*
  - *Lower Extremity Sonography with MRI Correlation*
  - *Musculoskeletal Ultrasound Live Demonstration*
436. Gulfcoast Ultrasound Institute, St. Pete's Beach, Florida; August 2017
- *Ultrasound Evaluation of Shoulder Pathology*
  - *Ultrasound Evaluation of Elbow Pathology*
  - *Ultrasound Evaluation of Wrist and Hand Pathology*
  - *Ultrasound Evaluation of Ankle Pathology*
  - *Ankle and Foot Ultrasound Workshop*
  - *Upper Extremity Injection Cadaver Workshop*
  - *Lower Extremity Injection Cadaver Workshop*
437. Hands-on Sweden MSK US Congress, Stockholm, Sweden; August 2017
- *Dynamic Ultrasound of the Upper Extremity*
  - *Dynamic Ultrasound of the Lower Extremity*
  - *Hands-on Ultrasound Workshops*
438. International Skeletal Society, New York City, New York; August 2017
- *Ultrasound Evaluation of Shoulder Pathology*
  - *Peripheral Nerve Ultrasound*
439. Fundamentals of Musculoskeletal Ultrasound (University of Michigan), Ann Arbor, Michigan; September 2017
- *Introduction to Musculoskeletal Ultrasound*
  - *Iliopsoas and Anterior Hip Musculature*
  - *Groin Hernias*
  - *Hands-on Workshops*
440. Musculoskeletal Ultrasound Workshop, Calgary, Alberta, Canada; September 2017
- *Hip Ultrasound: Anatomy and Scanning Technique*
  - *Hip Ultrasound: Common Pathology*
  - *Ankle and Foot Ultrasound: Anatomy and Scanning Technique*
  - *Ankle and Foot Ultrasound: Common Pathology*
  - *Elbow Ultrasound: Anatomy and Scanning Technique*
  - *Elbow Ultrasound: Common Pathology*
  - *Wrist and Hand Ultrasound: Anatomy and Scanning Technique*
  - *Wrist and Hand Ultrasound: Common Pathology*
  - *Live Scanning Demonstrations*
  - *Hands-on Ultrasound Workshops*

441. American Institute for Radiologic Pathology, Silver Spring, Maryland; October 2017
- *Upper Extremity Sonography with MRI Correlation*
  - *Lower Extremity Sonography with MRI Correlation*
  - *Musculoskeletal Ultrasound Live Demonstration*
442. Musculoskeletal Ultrasound Society, Tel Aviv, Israel; October 2017
- *Ultrasound of Groin Hernias*
  - *Interventional Musculoskeletal Ultrasound*
  - *Pitfalls in Wrist and Hand Ultrasound*
  - *Hands-on Ultrasound Workshops*
443. Society of Radiologists in Ultrasound Annual Meeting, Chicago, Illinois; October 2017
- *Peripheral Nerve Ultrasound*
444. American Institute for Radiologic Pathology, Silver Spring, Maryland; November 2017
- *Upper Extremity Sonography with MRI Correlation*
  - *Lower Extremity Sonography with MRI Correlation*
  - *Musculoskeletal Ultrasound Live Demonstration*
445. Radiological Society of North America Annual Meeting, Chicago, Illinois; November 2017
- *Ankle Ultrasound Live Demonstration*
  - *Lower Extremity Peripheral Nerve Workshop*
  - *Lower Extremity Dynamic Ultrasound Workshop*
446. Shoulder Diagnosis and Management (University of Michigan), Northville, Michigan; December 2017
- *Ultrasound versus MRI for Shoulder Diagnosis*
447. Gulfcoast Ultrasound Institute, St. Petersburg, Florida; February 2018
- *Ultrasound Evaluation of Shoulder Pathology*
  - *Ultrasound Evaluation of Elbow Pathology*
  - *Ultrasound Evaluation of Wrist and Hand Pathology*
  - *Ultrasound of the Hip*
  - *Ultrasound Evaluation of Ankle Pathology*
  - *Ankle and Foot Ultrasound Workshop*
  - *Upper Extremity Injection Cadaver Workshop*
  - *Lower Extremity Injection Cadaver Workshop*
448. 15<sup>th</sup> Annual Vascular Innovations Symposium, Rochester, Michigan February 2018
- *Musculoskeletal for the Vascular Technologist*
449. American Institute for Radiologic Pathology, Silver Spring, Maryland; February 2018
- *Upper Extremity Sonography with MRI Correlation*



- *Lower Extremity Sonography with MRI Correlation*
  - *Musculoskeletal Ultrasound Live Demonstration*
450. European College of Radiology, Vienna, Austria; March 2018
- *Injectables, Percutaneous Tendon Fenestration, and Tenotomy*
  - *Case Conference: injectables*
451. Diagnostic and Interventional Neuromusculoskeletal Ultrasound Course, Manila, Philippines; March 2017
- *Shoulder Ultrasound: Scanning Demonstration*
  - *Shoulder Pathology and Intervention*
  - *Elbow Ultrasound: Scanning Demonstration*
  - *Elbow Pathology and Intervention*
  - *Wrist and Hand Ultrasound: Scanning Demonstration*
  - *Wrist and Hand Pathology and Intervention*
  - *Hip Ultrasound: Scanning Demonstration*
  - *Hip Pathology and Intervention*
  - *Knee Ultrasound: Scanning Demonstration*
  - *Knee Pathology and Intervention*
  - *Ankle and Foot Ultrasound: Scanning Demonstration*
  - *Ankle and Foot Pathology and Intervention*
452. Radiology at the Seashore (University of Michigan), Captiva Island, Florida; March 2018
- *Radiology of Subtle and Important Fractures*
  - *Radiographic Evaluation of Arthritis*
  - *Pitfalls in Musculoskeletal MRI*
  - *Musculoskeletal Ultrasound with MRI Correlation*
453. Society of Skeletal Radiology, Santa Barbara, California; March 2018
- *Ultrasound of the Hip: Live Scanning Demonstration*
454. American Institute for Radiologic Pathology, Silver Spring, Maryland; March 2018
- *Upper Extremity Sonography with MRI Correlation*
  - *Lower Extremity Sonography with MRI Correlation*
  - *Musculoskeletal Ultrasound Live Demonstration*
455. Michigan State University (Visiting Professor), East Lansing, Michigan; March 2018
- *Imaging of Musculoskeletal Infection*
  - *MR Imaging of the Hip*
  - *Musculoskeletal Radiology Case Conference*
456. 13<sup>th</sup> Annual Fundamentals of Musculoskeletal Ultrasound, San Diego, California; April 2018
- *Ultrasound Image Optimization*

- *Shoulder Live Scanning Demonstration*
- *Post-operative Shoulder*
- *Rotator Cuff*
- *Pitfalls in Shoulder Ultrasound*
- *Elbow and Wrist Live Scanning Demonstration*
- *Biceps and Triceps Brachii*
- *Hip and Knee Live Scanning Demonstration*
- *Athletic Pubalgia*
- *Ankle and Foot Live Scanning Demonstration*
- *Ankle Foot Masses*
- *Ankle Ligaments*
- *Interventional Techniques*
- *Tendon Fenestration*
- *Shoulder Hands-on Workshop*
- *Elbow and Wrist Hands-on Workshop*
- *Hip and Thigh Hands-on Workshop*
- *Knee Hands-on Workshop*
- *Ankle and Foot Hands-on Workshop*

457. Alberta Society of Radiologists Annual Meeting, Banff Springs, Alberta; April 2018

- *Rotator Cuff Sonography*
- *Ultrasound of the Shoulder: Beyond the Cuff*
- *Elbow Sonography*
- *Wrist and Hand Sonography*
- *Hip Sonography*
- *Knee Sonography*
- *Ankle and Foot Sonography*
- *Interventional Musculoskeletal Ultrasound: Fundamentals*
- *Interventional Musculoskeletal Ultrasound: Advanced*
- *Dynamic Musculoskeletal Ultrasound*
- *Musculoskeletal Ultrasound Live Demonstration*

458. McMaster University (Visiting Professor), Hamilton, Ontario; May 2018

- *Imaging of Musculoskeletal Infection*
- *MRI of Shoulder Instability*
- *Musculoskeletal Radiology Case Conference*
- *MRI of the Hip*

459. Canadian Association of Sports Medicine, Calgary, Alberta, Canada; May 2018

- *Ultrasound and MRI of Hip Pathology*
- *Ultrasound and MRI of Knee, Ankle, and Foot Pathology*
- *Hip Ultrasound Workshop*

460. Asian Federation of Societies for Ultrasound in Medicine and Biology and the Musculoskeletal Ultrasound Society, Seoul, South Korea; May 2018

- *Ultrasound of Inflammatory Arthritis*
  - *Fundamentals of Needle Guidance and Tenotomy*
  - *Calcific Tendinitis Lavage and Aspiration*
  - *Hands-on Musculoskeletal Ultrasound Workshop*
461. European Society of Skeletal Radiology, Amsterdam, Netherlands; June 2018
- *Peripheral Nerve Ultrasound*
  - *Hands-on Musculoskeletal Ultrasound Workshop*
  - *Live Scanning Demonstration: Forearm Muscles and Nerves*
  - *Live Scanning Demonstration: Thigh Nerves*
462. McMaster University (Visiting Professor), Hamilton, Ontario; May 2018
- *Imaging of Musculoskeletal Infection*
  - *MRI of Shoulder Instability*
  - *Musculoskeletal Radiology Case Conference*
  - *MRI of the Hip*
463. Gulfcoast Ultrasound Institute, St. Petersburg, Florida; June 2018
- *Pathology of Knee Nerves*
  - *Pathology of Ankle and Foot Nerves*
  - *Hands-on Musculoskeletal Ultrasound Workshop*
464. Ernest Cook Ultrasound Research and Education Institute, Kampala, Uganda; July 2018
- *Musculoskeletal Ultrasound: An Introduction*
  - *Shoulder Ultrasound Scanning Technique*
  - *Common Shoulder Pathology*
465. Society of Academic Bone Radiologists, Lake Tahoe, Nevada; July 2018
- *Wrist ganglion cysts- which location is most common?*
466. Gulfcoast Ultrasound Institute, St. Petersburg, Florida; August 2018
- *Ultrasound Evaluation of Shoulder Pathology*
  - *Ultrasound Evaluation of Elbow Pathology*
  - *Ultrasound Evaluation of Wrist and Hand Pathology*
  - *Ultrasound of the Hip*
  - *Ultrasound Evaluation of Ankle Pathology*
  - *Ankle and Foot Ultrasound Workshop*
  - *Upper Extremity Injection Cadaver Workshop*
  - *Lower Extremity Injection Cadaver Workshop*
467. American Institute for Radiologic Pathology, Silver Spring, Maryland; February 2018
- *Upper Extremity Sonography with MRI Correlation*
  - *Lower Extremity Sonography with MRI Correlation*
  - *Musculoskeletal Ultrasound Live Demonstration*

468. IDKD Intensive Course in Greece Excellence in Teaching, Vouliagmeni, Greece; September 2018.
- *Post-operative Shoulder and Knee*
  - *Ultrasonography: Sports Injuries*
469. American Institute for Radiologic Pathology, Silver Spring, Maryland; February 2018
- *Upper Extremity Sonography with MRI Correlation*
  - *Lower Extremity Sonography with MRI Correlation*
  - *Musculoskeletal Ultrasound Live Demonstration*
470. International Skeletal Society, Berlin, Germany; September 2018
- *Ultrasound of normal fat and muscle*
  - *PRP: what is it good for?*
471. Society of Radiologists in Ultrasound, San Diego, California; October 2018
- *Ultrasound of musculoskeletal masses*
  - *Post-operative musculoskeletal ultrasound*
472. American Institute for Radiologic Pathology, Silver Spring, Maryland; October 2018
- *Upper Extremity Sonography with MRI Correlation*
  - *Lower Extremity Sonography with MRI Correlation*
  - *Musculoskeletal Ultrasound Live Demonstration*
473. Musculoskeletal Ultrasound- The Michigan Difference, Ann Arbor, Michigan; October 2018
- *Introduction to Musculoskeletal Ultrasound*
  - *Wrist and Hand Scanning Technique*
  - *Wrist and Hand: Joint and Pulleys*
  - *Ankle and Foot: Scanning Technique*
  - *Ankle and Foot: Ligaments, Joints, and Nerves*
474. Fall Symposia Review (American Roentgen Ray Society), New Orleans, Louisiana; October 2018
- *Ultrasound of the Elbow: Diagnostic and Interventional*
  - *Ultrasound of the Ankle: Diagnostic and Interventional*
475. Fundamentals of Musculoskeletal Ultrasound: Weekend Course, New Orleans, Louisiana; November 2018
- *Introduction to Musculoskeletal Ultrasound*
  - *Shoulder: Other Pathology and Interventional*
  - *Ankle and Foot: Pathology and Interventional*
  - *Hands-on Workshops: Upper and Lower Extremities*
476. Radiological Society of North America, Chicago, Illinois; November 2018
- *Injectables and Fenestration*
  - *Hip Ultrasound: Live Demonstration*
  - *Dynamic Ultrasound of the Lower Extremity*

- *Workshop: Lower Extremity Peripheral Nerves*
  - *Workshop: Lower Extremity Dynamic Imaging*
477. University of Cincinnati, Cincinnati, Ohio; December 2018
- *Imaging of Musculoskeletal Infection*
  - *Musculoskeletal Ultrasound with MRI Correlation*
478. Sports Medicine Ultrasound Group, London, United Kingdom; February 2018
- *Ultrasound of the Athletic Hip: Lecture and Live Demonstration*
  - *Lower Extremity Entrapment Neuropathies: Lecture and Live Demonstration*
  - *Fundamentals of Interventional Musculoskeletal Ultrasound*
  - *Advanced Shoulder Ultrasound: Lecture and Live Demonstration*
  - *Elbow, Hand, and Wrist Ultrasound: Lecture and Live Demonstration*
  - *Upper Extremity Entrapment Neuropathies: Lecture and Live Demonstration*
  - *Advanced Interventional Musculoskeletal Ultrasound*
479. UltrasEMG, San Diego, California; February 2019
- *Upper Extremity Pathology*
  - *Lower Extremity Pathology*
480. Gulfcoast Ultrasound Institute, St. Petersburg, Florida; February 2019
- *Ultrasound Evaluation of Shoulder Pathology*
  - *Ultrasound Evaluation of Elbow Pathology*
  - *Ultrasound Evaluation of Wrist and Hand Pathology*
  - *Ultrasound of the Hip*
  - *Ultrasound Evaluation of Ankle Pathology*
  - *Ankle and Foot Ultrasound Workshop*
  - *Upper Extremity Injection Cadaver Workshop*
  - *Lower Extremity Injection Cadaver Workshop*
481. American Institute for Radiologic Pathology, Silver Spring, Maryland; February 2019
- *Upper Extremity Sonography with MRI Correlation*
  - *Lower Extremity Sonography with MRI Correlation*
  - *Musculoskeletal Ultrasound Live Demonstration*
482. European College of Radiology, Vienna, Austria; March 2019
- *Injectables, Percutaneous Tendon Fenestration, and Tenotomy*
  - *Case Conference: injectables*
483. Radiology in the Desert (University of Michigan), Scottsdale, Arizona; March 2018
- *Radiography of Subtle and Important Fractures*
  - *Radiographic Evaluation of Arthritis*
  - *Musculoskeletal Ultrasound with MRI Correlation*
  - *Pitfalls in Musculoskeletal MRI*

484. Society of Skeletal Radiology, Santa Barbara, California; March 2018
- *Ultrasound of the Ankle*
485. American Institute for Radiologic Pathology, Silver Spring, Maryland; March 2019
- *Upper Extremity Sonography with MRI Correlation*
  - *Lower Extremity Sonography with MRI Correlation*
  - *Musculoskeletal Ultrasound Live Demonstration*
486. 14<sup>th</sup> Annual Fundamentals of Musculoskeletal Ultrasound, San Diego, California; April 2019
- *Shoulder Live Scanning Demonstration*
  - *Post-operative Shoulder*
  - *Rotator Cuff*
  - *Pitfalls in Shoulder Ultrasound*
  - *Biceps and Triceps Brachii*
  - *Hip and Knee Live Scanning Demonstration*
  - *Athletic Pubalgia*
  - *Ankle and Foot Live Scanning Demonstration*
  - *Ankle Foot Masses*
  - *Ankle Ligaments*
  - *Interventional Techniques*
  - *Tendon Fenestration*
  - *Shoulder Hands-on Workshop*
  - *Elbow and Wrist Hands-on Workshop*
  - *Hip and Thigh Hands-on Workshop*
  - *Knee Hands-on Workshop*
  - *Ankle and Foot Hands-on Workshop*
487. American Roentgen Ray Society; May 2019
- *Shoulder Ultrasound Live Scanning Demonstration*
  - *Categorical Course: Subspecialty Musculoskeletal Tips*
488. *Shoulder Ultrasound* Akron Radiology; May 2019
- *Shoulder Anatomy and Scanning Technique*
  - *Shoulder Ultrasound Live Demonstration*
  - *Common Rotator Cuff Pathology*
  - *Other Shoulder Pathology*
  - *Hip Anatomy and Scanning Technique*
  - *Hip Ultrasound Live Demonstration*
  - *Common Hip Pathology*
  - *Knee Anatomy and Scanning Technique*
  - *Knee Ultrasound Live Demonstration*
  - *Common Knee Pathology*

489. American Institute of Ultrasound in Medicine, Pensacola, Florida; May 2019
- *Ankle Interventional Technique Demonstration*
  - *Cadaver Injection Workshop Faculty*
  - *Meet the Expert*
490. European Society of Skeletal Radiology, Lisbon, Portugal; June 2019.
- *PRP- What are the Risks and Benefits*
491. Martinoli Ultrasound Training Course, Amsterdam, Netherlands; July 2019.
- *Ultrasound of the Shoulder (6 lectures and 1 live demonstration)*
  - *Ultrasound of the Elbow (6 lectures and 1 live demonstration)*
  - *Ultrasound of the Hip (6 lectures and 1 live demonstration)*
  - *Ultrasound of the Ankle (1 lecture and 1 live demonstration)*
  -
492. SONAR, Seattle, Washington; August 2019.
- *Zebras in the Shoulder*
  - *Snapping Hip*
  - *Hands-on Workshops*
493. Gulfcoast Ultrasound Institute, St. Petersburg, Florida; August 2019.
- *Ultrasound Evaluation of Shoulder Pathology*
  - *Ultrasound Evaluation of Elbow Pathology*
  - *Ultrasound Evaluation of Wrist and Hand Pathology*
  - *Ultrasound of the Hip*
  - *Ultrasound Evaluation of Ankle Pathology*
  - *Ankle and Foot Ultrasound Workshop*
  - *Upper Extremity Injection Cadaver Workshop*
  - *Lower Extremity Injection Cadaver Workshop*
494. Fundamentals of Musculoskeletal Ultrasound: Weekend Course, Chicago, Illinois; September 2018.
- *Introduction to Musculoskeletal Ultrasound*
  - *Shoulder: Rotator Cuff*
  - *Shoulder: Other Pathology and Interventional*
  - *Elbow Pathology and Interventional*
  - *Wrist and Hand Pathology and Interventional*
  - *Hip Pathology and Interventional*
  - *Knee Pathology and Interventional*
  - *Ankle and Foot: Pathology and Interventional*
  - *Hands-on Workshops: Upper and Lower Extremities*
495. International Skeletal Society, Vancouver, British Columbia, Canada; September 2019.
- *Peripheral Nerve Ultrasound*

- *Ultrasound of the Knee*
  - *Foot and Ankle Nerve Lesions*
496. American Institute for Radiologic Pathology, Silver Spring, Maryland; March 2019
- *Upper Extremity Sonography with MRI Correlation*
  - *Lower Extremity Sonography with MRI Correlation*
  - *Musculoskeletal Ultrasound Live Demonstration*
497. Society of Radiologists in Ultrasound, Denver, Colorado; October 2019.
- *Ultrasound of the Shoulder (1 live demonstration)*
498. Hands-on Sweden, Stockholm, Sweden; October 2019.
- *Ultrasound of the Nerve Entrapment*
  - *Ultrasound of the Groin (1 lectures and 1 live demonstration)*
  - *Interventional Musculoskeletal Ultrasound: Fundamentals*
  - *Interventional Musculoskeletal Ultrasound: Advanced*
  - *Advanced Shoulder Ultrasound*
499. Musculoskeletal Ultrasound Society, Leon, Mexico; November 2019.
- *Pitfalls Shoulder Ultrasound*
  - *Dynamic Ultrasound*
  - *Gamekeepers Thumb and Finger*
  - *Ultrasound of Arthritis*
  - *Interventional Musculoskeletal Ultrasound: Fundamentals*
  - *Interventional Musculoskeletal Ultrasound: Advanced*
500. Extremity Ultrasound- the Michigan Difference, Ann Arbor, Michigan; November 2019.
- *Introduction to Musculoskeletal Ultrasound*
  - *Ultrasound of the Elbow (2 lectures)*
  - *Ultrasound of the Wrist and Hand (3 lectures and 1 live demonstration)*
  - *Ultrasound of the Hip (3 lectures and 1 live demonstration)*
501. Radiological Society of North America, Chicago, Illinois; December 2019.
- *Injectables and Fenestration*
  - *Elbow Ultrasound: Live Demonstration*
  - *Dynamic Ultrasound of the Lower Extremity*
  - *Workshop: Lower Extremity Peripheral Nerves*
  - *Workshop: Lower Extremity Dynamic Imaging*
502. American Institute of Ultrasound in Medicine, Laurel, Maryland; January 2020.
- *Ultrasound of the Shoulder*
  - *Ultrasound of the Hip*



- *Workshop: Upper and Lower Extremity*
503. Gulfcoast Ultrasound Institute, St. Petersburg, Florida; January 2020.
- *Ultrasound Evaluation of Shoulder Pathology*
  - *Ultrasound Evaluation of Elbow Pathology*
  - *Ultrasound Evaluation of Wrist and Hand Pathology*
  - *Ultrasound of the Hip*
  - *Ultrasound Evaluation of Ankle Pathology*
  - *Ankle and Foot Ultrasound Workshop*
  - *Upper Extremity Injection Cadaver Workshop*
  - *Lower Extremity Injection Cadaver Workshop*
504. MAST Philippines Internet Lecture, June 2020.
- *Ultrasound Evaluation of Post-operative Shoulder*
505. American Roentgen Ray Society Internet Lecture, June 2020.
- *Ultrasound of the Groin Hernias*
506. American Institute for Radiologic Pathology (Virtual); August 2020.
- *Upper Extremity Sonography with MRI Correlation*
  - *Lower Extremity Sonography with MRI Correlation*
  - *Musculoskeletal Ultrasound Demonstration*
507. Fundamentals of Musculoskeletal Ultrasound Upper Extremity Course (Virtual); September 2020.
- *Image Optimization*
  - *Needle Guidance Techniques*
  - *Shoulder Anatomy and Scanning Techniques*
  - *Live Shoulder Scanning Demonstration*
  - *Rotator Cuff Tears*
  - *Miscellaneous Rotator Cuff Pathology*
  - *Pitfalls in Shoulder Sonography*
  - *Biceps (Shoulder)*
  - *Bursa and Other Pathology*
  - *Trauma and Masses*
  - *Interventional (Shoulder)*
  - *Elbow Anatomy and Scanning Technique*
  - *Live Elbow Scanning Demonstration*
  - *Elbow Joint and Bursae*
  - *Epicondylitis*
  - *Biceps and Triceps*
  - *Elbow Ligaments*
  - *Elbow Nerves*

- *Elbow Intervention*
- *Hand and Wrist Anatomy and Scanning Techniques*
- *Live Hand and Wrist Scanning Demonstration*
- *Tendons*
- *Rheumatologic Applications*
- *Wrist and Hand Nerves*
- *Wrist and Hand Ligaments*
- *Cysts and Masses*

508. American Institute for Radiologic Pathology (Virtual); September 2020.

- *Upper Extremity Sonography with MRI Correlation*
- *Lower Extremity Sonography with MRI Correlation*
- *Musculoskeletal Ultrasound Demonstration*

509. European Society of Skeletal Radiology (Virtual); September 2020.

- *Groin Hernia Ultrasound*

510. University of British Columbia (Virtual); September 2020.

- *Pitfalls in Shoulder Ultrasound*

511. Musculoskeletal Ultrasound Society of India (Virtual), October 2020.

- *Elbow Ultrasound Scanning Protocol*
- *Live Elbow Scanning Demonstration*
- *Common Elbow Pathology*

512. Australasian Sonography Association (Virtual), October 2020.

- *Wrist and Hand Ultrasound Pitfalls*
- *Ultrasound of Arthritis*
- *Ultrasound of the Lateral Hip*

513. Gulfcoast Ultrasound Institute (Virtual); October 2020.

- *Shoulder Anatomy and Scanning Techniques*
- *Shoulder Pathology*
- *Elbow Anatomy and Scanning Techniques*
- *Elbow Pathology*
- *Hip Anatomy and Scanning Techniques*
- *Hip Pathology*
- *Interventional Techniques: Shoulder, Elbow, Hip*

514. Society of Radiologists in Ultrasound (Virtual); October 2020.

- *Ultrasound of Muscle Trauma*

515. Jefferson Health Care Hospital, Port Townsend, Washington; December 2020 and January 2021.

- *Shoulder Anatomy and Scanning Techniques*
- *Shoulder Pathology*
- *Elbow Anatomy and Scanning Techniques*
- *Elbow Pathology*
- *Wrist/Hand Anatomy and Scanning Techniques*
- *Wrist/Hand Pathology*
- *Hip Anatomy and Scanning Techniques*
- *Hip Pathology*
- *Knee Anatomy and Scanning Techniques*
- *Knee Pathology*
- *Ankle/Foot Anatomy and Scanning Techniques*
- *Ankle/Foot Pathology*

516. St. Joseph Mercy Hospital- Oakland (Virtual); January 2021.

- *Musculoskeletal Imaging Review*

517. Gulfcoast Ultrasound Institute, St. Petersburg, Florida; January 2021.

- *Ultrasound Evaluation of Shoulder Pathology*
- *Ultrasound Evaluation of Elbow Pathology*
- *Ultrasound Evaluation of Wrist and Hand Pathology*
- *Ultrasound of the Hip*
- *Ultrasound Evaluation of Ankle Pathology*
- *Ankle and Foot Ultrasound Workshop*
- *Upper Extremity Injection Cadaver Workshop*
- *Lower Extremity Injection Cadaver Workshop*

518. Sonoskills, Amsterdam, Netherlands (Virtual); February 2021.

- *Ultrasound of Muscle Trauma*

519. West Coast Ultrasound Institute (Virtual); February 2021.

- *Introduction to Musculoskeletal Ultrasound*

520. American Institute for Radiologic Pathology (Virtual); February 2021.

- *Upper Extremity Sonography with MRI Correlation*
- *Lower Extremity Sonography with MRI Correlation*
- *Musculoskeletal Ultrasound Demonstration*

521. Philippine Association of Rehabilitation Medicine (Virtual); February 2021.

- *Musculoskeletal Ultrasound Overview with MRI Correlation*

522. Philips Medical Imaging Educational Conference (Virtual); March 2021.

- *Shoulder Ultrasound*

523. Gulfcoast Ultrasound Institute (Virtual); March 2021.

- *Shoulder Anatomy and Scanning Techniques*
- *Shoulder Pathology*
- *Elbow Anatomy and Scanning Techniques*
- *Elbow Pathology*
- *Wrist/Hand Anatomy and Scanning Techniques*
- *Wrist/Hand Pathology*
- *Interventional Techniques: Upper Extremity*
- *Hip Anatomy and Scanning Techniques*
- *Hip Pathology*
- *Knee Anatomy and Scanning Techniques*
- *Knee Pathology*
- *Ankle/Foot Anatomy and Scanning Techniques*
- *Ankle/Foot Pathology*
- *Interventional Techniques: Lower Extremity*

524. American Institute for Radiologic Pathology (Virtual); March 2021.

- *Upper Extremity Sonography with MRI Correlation*
- *Lower Extremity Sonography with MRI Correlation*
- *Musculoskeletal Ultrasound Demonstration*

525. American Academy of MSK Ultrasound (Virtual); April 2021.

- *Ultrasound Evaluation of the Knee*

526. American Roentgen Ray Society (Virtual); April 2021.

- *“Cyst” on Ultrasound and MRI: Diagnostic Algorithm (Keynote Lecture)*
- *Ultrasound of Lumps and Bumps (Categorical Course Lecture)*

527. St. Joseph Hospital, Pontiac, Michigan; April 2021.

- *Musculoskeletal Case Conference*

528. Peripheral Nerve Ultrasound Course, St. Petersburg, Florida; May 2021.

- *Introduction to Ultrasound*
- *Ultrasound Evaluation of the Ulnar, Radial, and Median Nerves*
- *Ultrasound Evaluation of Knee Nerves*
- *Peripheral Nerve Trauma and Tumors*
- *Lower Extremity Nerve Live Demonstration*

529. Sports Medicine Ultrasound Group, London, United Kingdom; June 2021.

- *Advanced Shoulder Ultrasound*

- *Calcific Tendinosis Lavage/Aspiration and Tendon Fenestration*
530. European Society of Skeletal Radiology (Virtual); June 2021.
- *Ultrasound of the Calf*
531. American Institute for Radiologic Pathology (Virtual); July 2021.
- *Upper Extremity Sonography with MRI Correlation*
  - *Lower Extremity Sonography with MRI Correlation*
  - *Musculoskeletal Ultrasound Demonstration*
532. Society of Academic Bone Radiologist (Virtual); July 2021.
- *Developing a Shoulder Ultrasound Program in Rural Uganda*
533. Michigan State University (Virtual); August 2021.
- *MRI of the Hip*
  - *Musculoskeletal Case Conference*
534. Philips Medical Imaging (Virtual); August 2021.
- *Ultrasound of the Elbow, Wrist, and Hand: The Essentials*
535. Gulfcoast Ultrasound Institute, St. Petersburg, Florida; August 2021.
- *Ultrasound Evaluation of Shoulder Pathology*
  - *Ultrasound Evaluation of Elbow Pathology*
  - *Ultrasound Evaluation of Wrist and Hand Pathology*
  - *Ultrasound of the Hip*
  - *Ultrasound Evaluation of Ankle Pathology*
  - *Ankle and Foot Ultrasound Workshop*
  - *Upper Extremity Injection Cadaver Workshop*
  - *Lower Extremity Injection Cadaver Workshop*
536. American Institute for Radiologic Pathology (Virtual); August 2021.
- *Upper Extremity Sonography with MRI Correlation*
  - *Lower Extremity Sonography with MRI Correlation*
  - *Musculoskeletal Ultrasound Demonstration*
537. Fundamentals of Musculoskeletal Ultrasound Upper Extremity Course, San Diego, California; September 2021.
- *Ultrasound of the Hip*
  - *Elbow Epicondylitis and Tenotomy*
  - *Ultrasound-guided Interventional Procedures: Elbow, Wrist, Hand*
  - *Ultrasound of the Shoulder: Anatomy and Scanning Technique*
  - *Ultrasound of the Greater Trochanter*
  - *Ultrasound of Lower Extremity Nerves*
  - *Ultrasound of the Pectoralis Major*
  - *Gamekeeper's Thumb*
  - *Live Shoulder Ultrasound Scanning Demonstration*

- *Live Elbow, Hand, and Wrist Scanning Demonstration*
  - *Live Hip and Thigh Ultrasound Scanning Demonstration*
  - *Live Knee, Ankle, and Foot Ultrasound Scanning Demonstration*
538. American Institute for Radiologic Pathology (Virtual); October 2021.
- *Upper Extremity Sonography with MRI Correlation*
  - *Lower Extremity Sonography with MRI Correlation*
  - *Musculoskeletal Ultrasound Demonstration*
539. Society of Radiologists in Ultrasound Annual Meeting (Virtual); October 2021.
- *Shoulder Ultrasound Program in Uganda*
540. Ontario Association of Radiological Sciences (Virtual); October 2021.
- *Pitfalls in Shoulder Ultrasound*
  - *Ultrasound of Calf Injuries*
541. Johns Hopkins University (Virtual); October 2021.
- *Ultrasound and MRI of the Rotator Cuff*
  - *Ultrasound and MRI of the Wrist*
542. University of Michigan Orthopaedic Tumor Review Course (Virtual); November 2021.
- *Imaging Approach to Bone Lesion Workup*
543. Columbia University Visiting Professor (Virtual); November 2021.
- *Introduction to Musculoskeletal Ultrasound*
  - *Algorithm Approach to Musculoskeletal MRI*
544. Radiological Society of North America, Chicago, Illinois; November 2021.
- *Elbow Ultrasound Live Demonstration*
545. Egyptian Society of Musculoskeletal and Neuromuscular Sonography (Virtual); December 2021.
- *Ultrasound-guided Musculoskeletal Procedures: Upper Extremity*
546. Jeonbuk National University of Korea (Virtual); December 2021.
- *Ultrasound of Calf Injuries*
547. Egyptian PMR and Rheumatology (Virtual); December 2021.
- *Ultrasound of Lower Extremity Injuries*
  - *Ultrasound of Ankle Ligament Injuries*
548. Gulfcoast Ultrasound Institute, St. Petersburg, Florida; January 2022.
- *Ultrasound Evaluation of Shoulder Pathology*
  - *Ultrasound Evaluation of Elbow Pathology*
  - *Ultrasound Evaluation of Wrist and Hand Pathology*
  - *Ultrasound of the Hip*
  - *Ultrasound Evaluation of Ankle Pathology*

- *Ankle and Foot Ultrasound Workshop*
  - *Upper Extremity Injection Cadaver Workshop*
  - *Lower Extremity Injection Cadaver Workshop*
  - *Tendinopathy and Tenotomy*
549. Philippine Society of Radiology (Virtual); February 2022.
- *Pitfalls in Shoulder Ultrasound*
  - *Ultrasound of Masses*
  - *Ultrasound-guided Musculoskeletal Intervention*
550. American Institute for Radiologic Pathology (Virtual); February 2022.
- *Upper Extremity Sonography with MRI Correlation*
  - *Lower Extremity Sonography with MRI Correlation*
  - *Musculoskeletal Ultrasound Demonstration*
551. WCUI Imaging Symposium, Phoenix, Arizona; March 2022.
- *Dynamic Musculoskeletal Ultrasound*
  - *US of the Rotator Cuff with MRI Correlation*
552. Society of Skeletal Radiology, Coronado Island, California; March 2022.
- *Musculoskeletal Ultrasound: Keep It or Give It Away*
  - *Ultrasound Evaluation of the Elbow*
553. IDKD Imaging Review Course, Davos, Switzerland; March 2022.
- *Ultrasound of Sports Injuries (presented 10x)*
554. American College of Osteopathic Radiology, Tampa, Florida; April 2022.
- *Imaging of Pelvis Trauma*
  - *Radiography of Subtle and Important Fractures*
  - *Imaging of Musculoskeletal Infection*
555. Gulfcoast Ultrasound Institute, St. Petersburg, Florida; April 2022.
- *Shoulder Anatomy and Scanning Techniques*
  - *Shoulder Pathology*
  - *Elbow Anatomy and Scanning Techniques*
  - *Elbow Pathology*
  - *Wrist/Hand Anatomy and Scanning Techniques*
  - *Wrist/Hand Pathology*
  - *Interventional Techniques: Upper Extremity*
  - *Hip Anatomy and Scanning Techniques*
  - *Hip Pathology*
  - *Knee Anatomy and Scanning Techniques*
  - *Knee Pathology*
  - *Ankle/Foot Anatomy and Scanning Techniques*
  - *Ankle/Foot Pathology*
  - *Interventional Techniques: Lower Extremity*

556. St. Joseph Mercy Hospital, Pontiac, Michigan; April 2022.
- *Musculoskeletal Imaging Case Conference*
557. Stanford University; April 2022.
- *Ultrasound Evaluation of Musculoskeletal Pathology*
558. University of Toledo; April 2022.
- *Musculoskeletal Imaging Case Conference*
559. American Roentgen Ray Society, New Orleans, Mississippi; May 2022.
- *Ultrasound of Elbow Pathology*
  - *Categorical Course: Imaging of Sports Injuries of the Thumb*
560. University of Calgary, Calgary, Alberta, Canada; May 2022.
- *Shoulder Anatomy and Scanning Techniques*
  - *Shoulder Pathology*
  - *Elbow Anatomy and Scanning Techniques*
  - *Elbow Pathology*
  - *Wrist/Hand Anatomy and Scanning Techniques*
  - *Wrist/Hand Pathology*
  - *Hip Anatomy and Scanning Techniques*
  - *Hip Pathology*
  - *Ankle/Foot Anatomy and Scanning Techniques*
  - *Ankle/Foot Pathology*
  - *Interventional Techniques*
  - *PRP and Tenotomy*
  - *Live Scanning Demonstrations: Shoulder, Elbow, Wrist, Hand, Hip, Ankle, Foot*
561. University of Western Ontario; London, Ontario, Canada; May 2022.
- *Musculoskeletal Pathology Case Conference*
562. American Roentgen Ray Society, New Orleans, Mississippi; May 2022.
- *Ultrasound of Elbow Pathology*
  - *Categorical Course: Imaging of Sports Injuries of the Thumb*
563. Australasian Sonographers Association; May 2022.
- *Peripheral Nerve Ultrasound*
  - *Ultrasound of Arthritis*
  - *Ultrasound of the Post-operative Shoulder*
564. Australasian Sonographers Association; May 2022.
- *Peripheral Nerve Ultrasound*
  - *Ultrasound of Arthritis*
  - *Ultrasound of the Post-operative Shoulder*
565. Musculoskeletal Ultrasound Society; Toledo, Spain; May 2022.
- *Common Musculoskeletal Ultrasound Procedures*



- *Ultrasound of Nerve Entrapment: Upper Extremity*
  - *Ultrasound of Nerve Entrapment: Lower Extremity*
566. MRI Online, Cincinnati; June 2022.
- *Ultrasound of the Rotator Cuff with MRI Correlation*
567. Fundamentals of Musculoskeletal Ultrasound; San Diego, California; September 2022.
- *Ultrasound of the Post-operative Shoulder*
  - *Pitfalls in Shoulder Ultrasound*
  - *Gamekeeper's Thumb*
  - *Pectoralis Major Assessment*
  - *Rheumatology: Upper Extremity*
  - *Ultrasound of the Greater Trochanter*
  - *Gamekeeper's Thumb*
  - *Live Shoulder Ultrasound Scanning Demonstration*
568. SonoUS Conference; Oslo, Norway; September 2022.
- *Ultrasound of the Hip*
  - *Ultrasound of Masses*
  - *Peripheral Nerve Entrapment*
  - *Tendon Treatments*
569. American Institute for Radiologic Pathology; October 2022.
- *Upper Extremity Sonography with MRI Correlation*
  - *Lower Extremity Sonography with MRI Correlation*
  - *Musculoskeletal Ultrasound Demonstration*
570. Society of Radiologists in Ultrasound; Scottsdale, Arizona; October 2022.
- *The Art of Musculoskeletal Ultrasound*
571. Ontario Association of Radiological Medical Sciences, Hamilton, Ontario; October 2022.
- *Ultrasound Assessment of Arthritis*
572. International Skeletal Society, Barcelona, Spain; October 2022.
- *Ultrasound of Pectoralis*
  - *Peroneal Tendon Assessment*
573. Canadian Association of Sports Exercise Medicine, Calgary, Alberta; November 2022.
- *Ultrasound of Common Shoulder Pathology*
  - *Elbow, Wrist, and Hand Pathology*
  - *Musculoskeletal Pathology Imaging Case Conference*

## **NAMED LECTURES**

1. Musculoskeletal Ultrasound with MRI Correlation (the Jon W. Meilstrup Lecture in Ultrasound), Penn State University; Hershey, Pennsylvania; September 2009.
2. Introduction to Musculoskeletal Ultrasound (the Boyd Lecture), Loma Linda University, Loma Linda, California; March 2013.
3. Musculoskeletal Ultrasound (the George Nomikos Memorial Lecture), Georgetown University, Washington D.C.; April 2014.
4. Radiology of Subtle Fractures (the Middlemiss Lecture), Royal Collage of Radiologists, London, United Kingdom; September 2014.
5. Musculoskeletal Ultrasound (the John H. Walker Lecture), Virginia Mason Hospital, Seattle, Washington; January 2015.
6. Imaging of Musculoskeletal Infection (the W. Peter Cockshott Lecture), McMaster University, Hamilton, Ontario, Canada; May 2018.
7. Imaging of Musculoskeletal Infection and Musculoskeletal Ultrasound with MRI Correlation (Ben Felson Lecture), University of Cincinnati, Cincinnati, Ohio; December 2018.

## **QUIZ PANELS**

1. European Society of Skeletal Radiology (International), Innsbruck, Austria; June 2012.
2. International Skeletal Society (International), Edinburgh, Scotland, United Kingdom; October 2014.
3. European Society of Skeletal Radiology (International), York, United Kingdom; June 2015.
4. IKDK Imaging Review Course (International), Davos, Switzerland; March 2022.

## **VISITING PROFESSORSHIPS**

1. The Western Pennsylvania Hospital, Pittsburgh, Pennsylvania; October 1999.
2. McMaster University Medical Center, Hamilton, Ontario, Canada; November 1999.
3. The Western Pennsylvania Hospital, Pittsburgh, Pennsylvania; April 2000.
4. Medical College of Ohio, Toledo, Ohio; October 2000.
5. Michigan State University, East Lansing, Michigan; February 2001.
6. Medical College of Ohio, Toledo, Ohio; January 2002.
7. Oregon Health Sciences University, Portland, Oregon; October 2002.
8. University of Arizona, Tucson, Arizona; April 2003.

9. University of Toronto, Toronto, Canada; March 2004.
10. McMaster University, Hamilton, Canada; March 2004.
11. University of Western Ontario, London, Ontario, Canada, June 2006.
12. University of Iowa, Iowa City, Iowa; August 2006.
13. Michigan State University, East Lansing, Michigan; October 2006.
14. Western Pennsylvania Hospital, Pittsburgh, Pennsylvania; January 2007.
15. Medical University of Ohio, Toledo, Ohio; April 2007.
16. Boston University Medical Center, Boston, Massachusetts; May 2007.
17. Michigan State University, Grand Rapids, Michigan; May 2007.
18. Indiana University, Indianapolis, Indiana; February, 2008.
19. Vanderbilt University, Nashville, Tennessee; April 2008.
20. Michigan State University, Grand Rapids, Michigan; May 2008.
21. University of Ottawa, Ottawa, Ontario, Canada; September 2008.
22. Penn State University, Hershey, Pennsylvania; September 2009.
23. Boston Children's Hospital, Boston, Massachusetts; January 2010.
24. Mayo Clinic, Scottsdale, Arizona; March 2010.
25. University of British Columbia, British Columbia, Canada; June 2010.
26. Brown University / Rhode Island Hospital, Providence, Rhode Island; September 2010.
27. Harvard Medical School (Spaulding Rehabilitation), Boston, Massachusetts; June 2011.
28. Beth Israel Deaconess Hospital, Boston, Massachusetts; October 2011.
29. University of Wisconsin, Madison, Wisconsin; December 2011.
30. Long Island Jewish Hospital and North Shore University, Great Neck, New York; February 2012.
31. University of Pennsylvania, Philadelphia, Pennsylvania; April 2012.
32. McMaster University, Hamilton, Ontario, Canada; June 2012.
33. University of Nebraska, Omaha, Nebraska; December 2012.
34. McGill University, Montreal, Quebec, Canada; May 2013.
35. Memorial Sloan Kettering, New York City, New York; January 2014.
36. Georgetown University, Washington D.C.; April 2014.
37. University of Maryland, Baltimore, Maryland; April 2014.
38. Florida Hospital, Winter Park, Florida; August 2014.
39. Virginia Commonwealth University, Richmond, Virginia; October 2014.
40. Virginia Mason Hospital, Seattle, Washington; January 2015.

41. University of Texas, Southwestern, Dallas, Texas; January 2015.
42. Emory University, Atlanta, Georgia; April 2015.
43. Massachusetts General Hospital, Boston, Massachusetts; March 2016.
44. University of Vermont, Burlington, Vermont; April 2016.
45. New England Baptist Hospital, Boston, Massachusetts; May 2017.
46. Michigan State University, East Lansing, Michigan; April 2018.
47. McMaster University, Hamilton, Ontario, Canada; May 2018.
48. University of Cincinnati, Cincinnati, Ohio; December 2018.
49. St. Joseph Mercy Hospital, Pontiac, Michigan; January 2021.
50. Michigan State University, Grand Rapids, Michigan; August 2021.
51. New York Presbyterian Hospital – Columbia University, New York City; November 2021.
52. St. Joseph Mercy Hospital, Pontiac, Michigan; April 2022.
53. Stanford University, Palo Alto, California; April 2022
54. University of Toledo, Toledo, Ohio; April 2022.

## **COURSE DIRECTOR**

1. 1<sup>st</sup> Annual Musculoskeletal Ultrasound (University of Michigan), Naples, Florida; February 2006.
2. Fundamentals of Musculoskeletal Ultrasound for Ultrasound Technologists (University of Michigan), Ann Arbor, Michigan; November 2006.
3. 2<sup>nd</sup> Annual Fundamentals of Musculoskeletal Ultrasound (University of Michigan), Captiva Island, Florida; February 2007.
4. Fundamentals of Musculoskeletal Ultrasound for Ultrasound Technologists (University of Michigan), Ann Arbor, Michigan; October 2007.
5. Musculoskeletal Ultrasound Convention Courses (American Institute of Ultrasound in Medicine), San Diego, California; March 2008.
6. 3<sup>rd</sup> Annual Fundamentals of Musculoskeletal Ultrasound (University of Michigan), La Jolla, California; March 2008.
7. 4<sup>th</sup> Annual Fundamentals of Musculoskeletal Ultrasound (University of Michigan), Amelia Island, Florida; March 2009.
8. 5<sup>th</sup> Annual Fundamentals of Musculoskeletal Ultrasound (University of Michigan), San Diego, California; April 2010.
9. International Skeletal Society Ultrasound Workshop, Athens, Greece; October 2010.

10. 6<sup>th</sup> Annual Fundamentals of Musculoskeletal Ultrasound (University of Michigan), Hollywood, Florida; March 2011.
11. International Skeletal Society Ultrasound Workshop, San Diego, California; September 2011.
12. 7<sup>th</sup> Annual Fundamentals of Musculoskeletal Ultrasound, San Diego, California, March 2012.
13. Society of Skeletal Radiology Ultrasound Workshop, Miami Beach, Florida; March 2012.
14. International Skeletal Society Ultrasound Workshop, Rome, Italy; September 2012.
15. Musculoskeletal Ultrasound: A Comprehensive Approach, Atlanta, Georgia; October 2012.
16. 8<sup>th</sup> Annual Fundamentals of Musculoskeletal Ultrasound, San Diego, California, March 2013.
17. Society of Skeletal Radiology Ultrasound Workshop, San Antonio, Texas; March 2013.
18. International Skeletal Society Ultrasound Workshop, Philadelphia, Pennsylvania; October 2013.
19. 2<sup>nd</sup> Annual Musculoskeletal Ultrasound: A Comprehensive Approach, Atlanta, Georgia; October 2013.
20. 9<sup>th</sup> Annual Fundamentals of Musculoskeletal Ultrasound, San Diego, California, April 2014.
21. International Skeletal Society Ultrasound Workshop, Edinburgh, Scotland, United Kingdom; October 2014.
22. 3<sup>rd</sup> Annual Musculoskeletal Ultrasound: A Comprehensive Approach, New Orleans, Louisiana; November 2014.
23. 10<sup>th</sup> Annual Fundamentals of Musculoskeletal Ultrasound, San Diego, California; April 2015.
24. Hip Ultrasound Workshop, American Roentgen Ray Society Annual Meeting, Toronto, Ontario, Canada; May 2015.
25. 4<sup>th</sup> Annual Musculoskeletal Ultrasound: Upper Extremity, Toronto, Ontario, Canada; November 2015.
26. 11<sup>th</sup> Annual Fundamentals of Musculoskeletal Ultrasound, San Diego, California; April 2016.
27. 12<sup>th</sup> Annual Fundamentals of Musculoskeletal Ultrasound, San Diego, California; April 2017.
28. 13<sup>th</sup> Annual Fundamentals of Musculoskeletal Ultrasound, San Diego, California; April 2018.
29. Fundamentals of Musculoskeletal Ultrasound (weekend course), New Orleans, Louisiana; November 2018.

30. 15<sup>th</sup> Annual Fundamentals of Musculoskeletal Ultrasound, San Diego, California; April 2019.
31. Fundamentals of Musculoskeletal Ultrasound (weekend course), Chicago, Illinois; September 2019.
32. Fundamentals of Musculoskeletal Ultrasound Upper Extremity Course (virtual); October 2020.
33. Fundamentals of Musculoskeletal Ultrasound Course, San Diego, California; September 2021.
34. Imaging of Sports Injuries (Categorical Course), American Roentgen Ray Society, New Orleans, Mississippi; May 2022.
35. Fundamentals of Musculoskeletal Ultrasound Course, San Diego, California; September 2022.
36. Society of Skeletal Radiology Annual Meeting Program, Savannah, Georgia; March 2023.

## **MODERATOR, JUDGE, OR PANEL**

1. 1<sup>st</sup> Annual "Radiology on Captiva Island: A Practical Update" (University of Michigan), Captiva Island, Florida; February 1999. (*Moderator*)
2. 21<sup>st</sup> Annual Seminar in Diagnostic Ultrasound (University of Michigan), Ann Arbor, Michigan; September 1999. (*Moderator*)
3. McMaster 11<sup>th</sup> Annual Radiology Research Competition, McMaster Medical Center, Hamilton, Ontario, Canada; November 1999. (*Judge panel*)
4. Beyond Radiology: Academic versus Private Practice Careers, Ann Arbor, Michigan; September 2000. (*Discussion panel*)
5. 8<sup>th</sup> Annual "Radiology in the Desert: Practical Aspects of Radiology and Imaging" (University of Michigan), Scottsdale, Arizona; February 2001. (*Moderator*)
6. 4<sup>th</sup> Annual "Radiology at the Seashore: A Practical Update (University of Michigan), Captiva Island, Florida; January 2002. (*Moderator*)
7. Scientific Session: Small Parts and Musculoskeletal. American Institute of Ultrasound in Medicine 46<sup>th</sup> Annual Convention, Nashville, Tennessee; March 2002. (*Moderator*)
8. Skeletal Radiology 2002 (Allegheny General Hospital, Pittsburgh), Scottsdale, Arizona; April 2002 (*Moderator*).
9. New Issues Forum (Musculoskeletal Sonography). American Roentgen Ray Society 102<sup>nd</sup> Annual Meeting, Atlanta, Georgia; May 2002. (*Moderator*)
10. Scientific Session (Arthritis and Bone Density). American Roentgen Ray Society 103<sup>rd</sup> Annual Meeting, San Diego, California; May 2003. (*Moderator*)
11. Scientific Session (Musculoskeletal). American Institute of Ultrasound in Medicine 47<sup>th</sup> Annual Convention, Montreal, Quebec, Canada; June 2003. (*Moderator*)

12. Refresher Course (Ultrasound). International Skeletal Society, San Francisco, California; September 2004. (*Moderator*)
13. 6<sup>th</sup> Annual "Radiology at the Seashore: A Practical Update (University of Michigan), Captiva Island, Florida; February 2004. (*Moderator*)
14. Categorical Course (Foot and Ankle Sonography). American Institute of Ultrasound in Medicine 48<sup>th</sup> Annual Convention, Phoenix, Arizona; June 2004. (*Moderator*)
15. Pediatric Musculoskeletal Ultrasound Day (Gaslini Pediatric Institute), Genoa, Italy; October 2004 (*Moderator*)
16. 14<sup>th</sup> Annual Conference on Musculoskeletal Ultrasound, Bologna, Italy; October 2004 (*Moderator*)
17. Scientific Paper Sessions (Musculoskeletal Ultrasound). Radiological Society of North America 90<sup>th</sup> Scientific Assembly and Annual Meeting, Chicago, Illinois; December 2004. (*Moderator*)
18. 2<sup>nd</sup> Annual "Radiology in the Mountains" (University of Michigan), Beaver Creek, Colorado; August 2005. (*Moderator*)
19. Musculoskeletal Ultrasound: A Practical, Hands-on Approach (American Institute of Ultrasound), New York, New York; August 2005. (*Moderator*)
20. Ultrasound Symposium. 52<sup>nd</sup> Annual Scientific Meeting American Association of Neuroelectrodiagnostic Medicine, Monterey, California; September 2005. (*Chairperson*)
21. Musculoskeletal (Ultrasound and Arthritis). Radiological Society of North America 91<sup>st</sup> Annual Meeting, Chicago, Illinois; December 2005. (*Moderator*)
22. 8<sup>th</sup> Annual "Radiology at the Seashore: A Practical Update (University of Michigan), Naples, Florida; February 2006. (*Moderator*)
23. Musculoskeletal Ultrasound. American Roentgen Ray Society 106<sup>th</sup> Annual Meeting (Instructional Course), Vancouver, British Columbia, Canada; May 2004. (*Moderator*)
24. 9<sup>th</sup> Annual "Radiology at the Seashore: A Practical Update (University of Michigan), Captiva Island, Florida; February 2007. (*Moderator*)
25. Asian Oceanian Congress of Radiology, Seoul, Korea; October 2008. (*Image Interpretation Panel*)
26. Radiological Society of North America, Chicago, Illinois, December 2008. (*Moderator Scientific Session*)
27. Association of University Radiologists Annual Meeting, San Diego, California; March 2010. (*Moderator*)
28. University of British Columbia Resident Research Day, British Columbia, Canada; June 2010. (*Judge*)
29. Radiologic Society of North America, Scientific Session, Chicago, Illinois; December 2010.
30. Consensus panel on work-up of rotator cuff disease, Society of Radiologists in Ultrasound, Chicago, Illinois; October 2012. (*Moderator*)

31. Radiologic Society of North America, Scientific Session, Chicago, Illinois; November 2011.
32. Society of Skeletal Radiology, Ultrasound Workshop, San Antonio, Texas; March 2013.
33. American Roentgen Ray Society Annual Meeting, Scientific Session, San Diego, California; May 2014.
34. Radiologic Society of North America, Scientific Session, Chicago, Illinois; November 2021.
35. Imaging of Sports Injuries (Categorical Course), American Roentgen Ray Society, New Orleans, Mississippi; May 2022.

## **SCIENTIFIC CONSULTANT**

1. Wyeth Research, Cambridge, Massachusetts (2005)
2. Orthofix Inc, McKinney, Texas (2006)
3. Bio-Imaging Technologies, Inc., Newtown, Pennsylvania (2007-2008)
4. Hitachi Medical Imaging (2008 – 2009)
5. Mobile Medical Media (2008 – 2009)
6. SonoSite (2008 – 2010)
7. Philips Medical Imaging (2009 – 2010)
8. Terason (2009 – 2010)
9. Bioclinica (2009 – current)
10. Philips Medical Advisory Board (2017 – current)
11. GE Medical Advisory Board (2017 – 2018)
12. POCUS PRO (2020-current): Chief Medical Officer

## **PODCAST**

1. Ultrasound of soft tissue masses.  
<https://rsnaradiology.libsyn.com/ultrasound-of-soft-tissue-masses>.

## **SCIENTIFIC ADVISORY BOARD**

1. Philips Point-of Care Ultrasound



## COMMITTEE AND ADMINISTRATIVE SERVICE

1. American Board of Radiology  
National Oral Board Examiner (Musculoskeletal): 2005 – 2012  
Maintenance of Certification Committee: Musculoskeletal  
Committee Member: 2007 – 2010  
Committee Chair: 2010 – 2016  
On-going Longitudinal Assessment: Musculoskeletal  
Committee Chair: 2017 - present
2. American College of Radiology  
Musculoskeletal Committee of the Commission on Body Imaging: 2005 – 2010  
Appropriateness Criteria Expert Panel on Musculoskeletal Imaging: 2006 – 2016  
*Primary Author: Chronic Elbow Pain, October 2007*  
*Primary Author: Extremity Joint Pain- Inflammatory Arthritis, October 2016*
3. American Journal of Roentgenology  
Advisory Editorial Board: 2005 – 2008  
Assistant Editor, Musculoskeletal Section: 2008 - 2019
4. American Roentgen Ray Society  
Scientific Program Musculoskeletal Subcommittee: 2011 – 2013  
Educational Evaluation Subcommittee: 2002 - current  
Scientific Program Committee: 2003 – 2007, 2014 - present
5. American Institute of Ultrasound in Medicine  
Scientific Program:  
Committee Member: 2000 – 2009  
Chair, Musculoskeletal Abstract Review: 2004  
Musculoskeletal Ultrasound Section:  
Secretary: 2003 – 2005  
Vice Chairman: 2005 – 2007  
Chairman: 2007 - 2009  
Subcommittee for Musculoskeletal Ultrasound Guidelines: 2005 – 2006  
Membership Committee: 2005 – 2007  
Ultrasound-guided Procedure Task Force: 2019
6. Association of University Radiologists  
Scientific Program Committee: 2005 – 2009  
Education Committee: 2010 - 2012
7. Arthritis Foundation  
Michigan Chapter Medical and Scientific Committee: 2003 – 2009
8. Journal of Ultrasound in Medicine

Advisory Editorial Board: 1996 – 2017  
Subspecialty Editor (Musculoskeletal): 2017 - current

9. International Hemophilia Prophylaxis Study Group  
Imaging Expert Working Group: 2008 - 2012
10. International Skeletal Society  
Sponsorship Committee: 2005 – current  
Membership Committee: 2014 – 2018  
Ultrasound Program Co-Chairperson: 2009 – 2014  
Refresher Course Co-chair: 2014 - 2017
11. Radiological Society of North America  
Musculoskeletal Radiology Subcommittee of the Scientific Program Committee: 2008 – 2011  
Chairman, Musculoskeletal Radiology Subcommittee of the Scientific Program Committee: 2011 – 2014  
Vice Chairman, Scientific Program Committee: 2013- 2014  
Chair, Scientific Program Committee: 2013 - 2016  
Education Council: 2013 - 2016
12. Radiology  
Associate Editor, Musculoskeletal Imaging Section: 2003 – 2006  
Consultant to Editor, Musculoskeletal Imaging Section: 2006 - 2019
13. Radiology Quality Society  
Chair, Executive Committee: 2008 - current
14. Society of Academic Bone Radiologists  
Internet/Electronic Media Subcommittee: 2018 – 2022  
Chair, Membership Committee: 2015 – 2017
15. Society of Radiologists in Ultrasound  
Chairman- Consensus Conference on Ultrasound of Soft Tissue Masses
16. Society of Skeletal Radiology  
President Elect: 2022 – 2024  
Secretary: 2020- 2022  
Treasurer: 2018 – 2020  
Liaison for European Society of Skeletal Radiology: 2018 – current  
Subcommittee for Musculoskeletal Ultrasound: 2005 – 2006  
Subcommittee for Standards and Guidelines: 2006 – 2010  
Rules Committee: 2007 – 2011  
Finance Committee: 2011- 2014  
Chair, MSK Ultrasound Research Group: 2007 – 2018  
Program Committee: 2013 – 2015

Electronic Learning Committee: 2016 – 2018  
Chair, Vendor Relations Committee: 2016 - 2019

17. University of Cincinnati

Section Chief, Musculoskeletal Imaging: 2021-2022  
Information Technology Committee: 2021-2022

18. University of Michigan

Director, Division of Musculoskeletal Radiology: 2003 – 2021  
Advisory Committee on Appointments, Promotions, and Tenure: 2016 - 2019  
Ambulatory Care Unit Medical Director: 2008 – 2020  
    South Main: 2008 – 2012  
    MedSport: 2008 – 2015  
    Taubman Clinic: 2008 - current  
    Executive Committee (Chair): 2004 – 2016  
Assistant Medical Director, Northville Health Center: 2014 – 2020  
Development Committee: 2013 – 2018  
Finance Committee (Chair): 2008 – 2016  
Michigan Center for Athletic Medicine and Performance (MCHAMP):  
    inaugural faculty member  
MRI Steering Committee: 2009 – 2011  
PACS Selection Committee: 2007  
Resident Selection Committee: 1998 – 2002  
Sabbatical Review Committee: 2009 – 2012  
Service Excellence Committee: 2009 - 2011

## BIBLIOGRAPHY

### Completed Publications – Peer Reviewed

("\*" indicates principal investigator when not listed as first author)

1. Weiss R, **Jacobson JA**, Liu BCS. Localization and role of protease cathepsin B in human bladder tumors. American College of Surgeons Surgical Forum 1989; 40:696-698.
2. Visscher DW, Sloane BF, Sameni M, Babiarz JW, **Jacobson JA**, Crissman JD. Clinicopathologic significance of cathepsin B immunostaining in transitional neoplasia. Modern Pathology 1994; 7:76.
3. Lawson DE, **Jacobson JA**, Spizarny DL, Pranikoff T. Splenic trauma: value of follow-up CT. Radiology 1995; 194:97-100.
4. Ryu KN, Jaovisidha S, De Maeseneer M, **Jacobson JA**, Sartoris DJ, Resnick D. Evolving stages of lipoarthrosis of the knee: sequential magnetic resonance imaging findings in cadavers with clinical correlation. Investigative Radiology 1997; 32:7-11.
5. **Jacobson JA**, Lenchik L, Ruhoy M, Schweitzer ME, Resnick D. MR Imaging of the Infrapatellar Fat Pad of Hoffa. Radiographics 1997; 17(3):675-691.
6. Cotten A, **Jacobson JA**, Brossmann J, Hodler J, Trudell D, Resnick D. MR arthrography of the elbow: normal anatomy and diagnostic pitfalls. Journal of Computer Assisted Tomography 1997; 21(4):516-522.
7. **Jacobson JA**, Starok M, Pathria MN, Garfin SR. Pseudarthrosis: US Evaluation after Posterolateral Spinal Fusion: Work in progress. Radiology 1997; 204(3):853-858.
8. Cotten A, **Jacobson JA**, Brossmann J, Pedowitz R, Haghighi P, Trudell D, Resnick D. Collateral ligaments of the elbow: conventional MR imaging and MR arthrography with coronal oblique plane and elbow flexion. Radiology 1997; 204(3):806-812.
9. Brown RR, Pathria MN, Ruggieri PM, **Jacobson JA**, Craig JG, Resnick D. Extensive intraosseous gas associated with lymphangiomatosis of bone: report of three cases. Radiology 1997; 205:260-262.
10. **Jacobson JA**, Powell A, Craig JG, Bouffard JA, van Holsbeeck MT. Wooden foreign bodies in soft tissue: detection at US. Radiology 1998; 206:45-48.
11. De Maeseneer M, Jaovisidha S, **Jacobson JA**, Tam W, Schils JP, Sartoris DJ, Fronek J, Resnick D. The Bennett lesion of the shoulder. Journal of Computer Assisted Tomography 1998; 22:31-34.
12. De Maeseneer M, **Jacobson JA**, Jaovisidha S, Resnick D. Elbow effusions: distribution of joint fluid with flexion and extension and imaging implications. Investigative Radiology 1998; 33:117-125.
13. Fessell DP, Vanderschueren GM, **Jacobson JA**, Ceulemans RY, Prasad A, Craig JG, Bouffard JA, Shirazi KK, van Holsbeeck MT. US of the ankle: technique, anatomy, and diagnosis of pathologic conditions. Radiographics 1998; 18:325-340.

14. **Jacobson JA**, Andresen R, Jaovisidha S, De Maeseneer M, Foldes K, Trudell DR, Resnick D. Detection of ankle effusions: comparison study in cadavers using radiography, sonography, and MR imaging. *American Journal of Roentgenology* 1998; 170:1231-1238.
15. Moss SG, Schweitzer ME, **Jacobson JA**, Brossmann J, Lombardi JV, Dellose SM, Coranick JR, Standiford KN, Resnick D. Hip joint fluid: detection and distribution at MR imaging and US with cadaveric correlation. *Radiology* 1998; 208:43-48.
16. Diaz GC, van Holsbeeck MT, \***Jacobson JA**. Longitudinal split of the peroneus longus and brevis tendons with disruption of the superior peroneal retinaculum. *Journal of Ultrasound in Medicine* 1998; 17:525-529.
17. Lee SH, **Jacobson JA**, Resnick D. Ligaments of the ankle: normal anatomy with MR arthrography. *Journal of Computer Assisted Tomography* 1998; 22:807-813.
18. **Jacobson JA**, van Holsbeeck MT. Musculoskeletal ultrasound. *Orthopedic Clinics of North America* 1998; 29(1):135-167.
19. Lin J, **Jacobson JA**, Jamadar DA, Ellis JH. Pigmented villonodular synovitis and related lesions: the spectrum of imaging findings. *American Journal of Roentgenology* 1999; 172:191-197.
20. Failla JM, **Jacobson JA**, van Holsbeeck M. Ultrasound diagnosis and surgical pathology of the torn interosseous membrane in forearm fractures/dislocations. *Journal of Hand Surgery [American]* 1999; 24:257-266.
21. Lin J, **Jacobson JA**, Hayes CW. Sonographic target sign in neurofibromas. *Journal of Ultrasound in Medicine* 1999; 18:513-517.
22. Muhle C, Mo Ahn J, Yeh L, Bergman GA, Boutin RD, Schweitzer M, **Jacobson JA**, Haghighi P, Trudell D, Resnick D. Iliotibial band friction syndrome: MR imaging in 16 patients and MR arthrographic study of 6 cadaveric knee. *Radiology* 1999; 212:103-110.
23. Jaovisidha S, **Jacobson JA**, Lenchik L, Resnick D. MR imaging of rotator cuff tears: is there a diagnostic benefit of shoulder exercise prior to imaging. *Clinical Imaging* 1999; 23:249-253.
24. **Jacobson JA**. Musculoskeletal sonography and MR imaging: A role for both imaging methods. *Radiologic Clinics of North America* 1999; 37(4):713-736.
25. Craig JG, **Jacobson JA**. Ultrasound of bone injury and repair. *Radiologic Clinics of North America* 1999; 37(4):737-752.
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## Publications - Non-Peer Reviewed

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## Books

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## Chapters

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6. **Jacobson JA**. Principles of Radiologic Imaging. In: Beers MH, Berkow R (Eds.). The Professional Edition Merck Manual of Diagnosis and Therapy, 2008.
7. Girish G, **Jacobson JA**. Ultrasound Assessment of Arthritis. In: Weismann B (Ed.). Imaging of Arthritis and Metabolic Bone Disease. Saunders Elsevier, Philadelphia, PA; 2009.
8. **Jacobson JA**. CT, Ultrasound, and Image-guided Injections. In: Sekiya J (Ed.). Arthroscopic and Minimally Invasive Hip Surgery. Elsevier, projected publication 2010.
9. Melville D, **Jacobson JA**. Lower Extremity- Knee. In: Mirvis SE, Kubal WS, Shanmuganathan K, Soto JA, Yu JS (Eds.). Problem Solving in Emergency Radiology. Elsevier Saunders, Philadelphia, PA; 2015.



## Editor

1. **Jacobson JA** (Ed.). Ultrasound Clinics of North America: Musculoskeletal Ultrasound. Elsevier Saunders, Philadelphia, PA; 2007.
2. **Jacobson JA** (Ed.). Seminars of Roentgenology: Musculoskeletal MRI, Part 1. Elsevier Saunders, Philadelphia, PA; 2010.
3. **Jacobson JA** (Ed.). Bone Disease 5<sup>th</sup> Series ACR Test and Syllabus. American College of Radiology, Reston, VA; 2010.
4. **Jacobson JA**, Resnick D, Kransdorf D, Pathria M, Chung C. Resnick's Internal Derangement of Joints 4<sup>th</sup> Edition. Elsevier Publishing, Philadelphia PA (2022).

## Web-Based Material

1. **Jacobson JA**, Morag Y. Hip Replacement Imaging. Medscape Reference. Updated September 25, 2013. Available at: <http://emedicine.medscape.com/article/398669-overview>.
2. **Jacobson JA**. Cyclops lesion. American College of Radiology Case-in-Point; March 2005.
3. **Jacobson JA**. Principles of radiologic imaging. In: Beers MH, Berkow R (Eds.). The Professional On-line Edition Merck Manual of Diagnosis and Therapy.

## Podcast

1. Ultrasound of soft tissue masses.  
<https://rsnaradiology.libsyn.com/ultrasound-of-soft-tissue-masses>.

## Scientific Exhibits

1. Zvirbulis R, **Jacobson JA**, van Holsbeeck MT. Intraarticular loose bodies: Diagnosis by ultrasound. American Academy of Orthopedic Surgeons Annual Meeting, New Orleans, Louisiana; February 1994.
2. **Jacobson JA**, van Holsbeeck MT, Zvirbulis R. Suprascapular ganglion cyst: Diagnosis by ultrasound. American Academy of Orthopedic Surgeons Annual Meeting, New Orleans, Louisiana; February 1994.
3. **Jacobson JA**, van Holsbeeck MT, Zvirbulis R. Intra-articular loose bodies: Diagnosis by ultrasound. American Roentgen Ray Society 94th Annual Meeting, New Orleans, Louisiana; April 1994.
4. **Jacobson JA**, van Holsbeeck MT, Zvirbulis R. Suprascapular ganglion cyst: Diagnosis by ultrasound. American Roentgen Ray Society 94th Annual Meeting, New Orleans, Louisiana; April 1994.

5. **Jacobson JA**, Shetty PC, Kastan DJ, Burke DL, Sharma RP. Percutaneous gastrostomy and feeding jejunostomy: Tricks of the trade. Radiological Society of North America 80th Scientific Assembly and Annual Meeting, Chicago, Illinois; November 1994. *Selected for CME category 1 credit.*
6. **Jacobson JA**, van Holsbeeck MT, Zvirbulis R. Intra-articular loose bodies: Diagnosis by ultrasound. Association of University Radiologists 43rd Annual Meeting, San Diego, California; April 1995.
7. **Jacobson JA**, van Holsbeeck MT. Ultrasound of gamekeeper's thumb. American Roentgen Ray Society 95th Annual Meeting, Washington, D.C.; April 1995.
8. **Jacobson JA**, Powell A, van Holsbeeck MT. Soft tissue foreign bodies: A diagnosis you can't afford to miss. Radiological Society of North America 81st Scientific Assembly and Annual Meeting, Chicago, Illinois; November 1995.
9. Boutin RD, **Jacobson JA**, Pathria MN, Resnick D. Cystic lesions around the shoulder: MR and sonographic findings. Radiological Society of North America 82nd Scientific Assembly and Annual Meeting, Chicago, Illinois; December 1996.
10. Prasad A, Fessell DP, Craig J, **Jacobson JA**, Bone H, van Holsbeeck MT. Imaging of Paget's: Pearls, pitfalls, and the spectrum of disease. American Roentgen Ray Society 97th Annual Meeting, Boston, Massachusetts; May 1997.
11. Fessell DP, Prasad A, Craig JG, **Jacobson JA**, Habra G, van Holsbeeck MT. Ultrasound guided joint aspiration: Expanding the role of radiology. Radiological Society of North America 83rd Scientific Assembly and Annual Meeting, Chicago, Illinois; December 1997. *Selected for CME category 1 credit. **Certificate of Merit.***
12. Quinn T, Craig JG, **Jacobson JA**, Varma MN, Amin MB, van Holsbeeck MT. MR imaging of peripheral nerve sheath tumors. Radiological Society of North America 83rd Scientific Assembly and Annual Meeting, Chicago, Illinois; December 1997. ***Certificate of Merit.***
13. Prasad A, Fessell DP, Vanderschueren GM, **Jacobson JA**, Craig JG, van Holsbeeck MT. State of the art imaging of the elbow: Magnetic resonance and ultrasound. Radiological Society of North America 83rd Scientific Assembly and Annual Meeting, Chicago, Illinois; December 1997.
14. Vanderschueren GM, Fessell DP, **Jacobson JA**, Prasad A, Craig JG, van Holsbeeck MT. Ultrasound of the elbow: Technique, normal anatomy, and pathology. Radiological Society of North America 83rd Scientific Assembly and Annual Meeting, Chicago, Illinois; December 1997. *Selected for CME category 1 credit.*
15. Ward EE, Craig JG, **Jacobson JA**, van Holsbeeck MT, Shirazi KK, Moed BR. Trauma to the pelvis: Biomechanical classification. Radiological Society of North America 83rd Scientific Assembly and Annual Meeting, Chicago, Illinois; December 1997.
16. **Jacobson JA**, Ceulemans RY, van Holsbeeck MT. Ultrasound of the postoperative rotator cuff. American Roentgen Ray Society 98<sup>th</sup> Annual Meeting, San Francisco, California; May 1998.

17. Fessell DP, **Jacobson JA**, Craig JG, van Holsbeeck MT. Accuracy of ultrasound in the diagnosis of peroneus brevis tendon tears. American Roentgen Ray Society 98<sup>th</sup> Annual Meeting, San Francisco, California; May 1998.
18. Quinn TJ, **Jacobson JA**, Craig JG, van Holsbeeck MT. Imaging of Morton neuromas. American Roentgen Ray Society 98<sup>th</sup> Annual Meeting, San Francisco, California; May 1998.
19. Fessell DP, Craig JG, **Jacobson JA**, van Holsbeeck MT. MR imaging of hip trauma. American Roentgen Ray Society 98<sup>th</sup> Annual Meeting, San Francisco, California; May 1998.
20. Prasad A, Banghar A, **Jacobson JA**, Craig JG. Ultrasound of the rotator cuff: Indirect signs of tear. American Roentgen Ray Society 98<sup>th</sup> Annual Meeting, San Francisco, California; May 1998.
21. Fessell DP, **Jacobson JA**, van Holsbeeck MT. Ultrasonography of Achilles tendon tears. American Roentgen Ray Society 98<sup>th</sup> Annual Meeting, San Francisco, California; May 1998.
22. Ceulemans R, Fessell DP, Craig JG, **Jacobson JA**, van Holsbeeck MT. Magnetic resonance and ultrasound imaging of shoulder ganglia. American Roentgen Ray Society 98<sup>th</sup> Annual Meeting, San Francisco, California; May 1998.
23. Lin J, Quinn TJ, **Jacobson JA**, Jamadar DA. Imaging features of pigmented villonodular synovitis with emphasis on sonographic findings. Radiological Society of North America 84th Scientific Assembly and Annual Meeting, Chicago, Illinois; December 1998.
24. **Jacobson JA**, Quinn TQ, Fessell DP, Stafford-Johnson D. Sonography of the knee: technique, normal anatomy, and pathology. American Roentgen Ray Society 99<sup>th</sup> Annual Meeting, New Orleans, Louisiana; May 1999.
25. Delaney-Sathey LO, Fessell DP, **Jacobson JA**. Sonography of diabetic muscle infarction with MR imaging and pathologic correlation. American Roentgen Ray Society 99<sup>th</sup> Annual Meeting, New Orleans, Louisiana; May 1999.
26. Fessell DP, **Jacobson JA**, Craig JC. Sonography of plantar fasciitis with pathologic correlation. American Roentgen Ray Society 99<sup>th</sup> Annual Meeting, New Orleans, Louisiana; May 1999.
27. Lin J, Weadock WJ, **Jacobson JA**, Fessell DP, Hayes CW. Interactive tutorial of musculoskeletal sonography on the World Wide Web. Radiological Society of North America 85th Scientific Assembly and Annual Meeting, Chicago, Illinois; December 1999. *Selected for CME category 1 credit. **Certificate of Merit.***
28. **Jacobson JA**, Hayes CW. Dual-energy X-ray absorptiometry scan image: recognizing artifacts and pathology. Radiological Society of North America 85th Scientific Assembly and Annual Meeting, Chicago, Illinois; December 1999.
29. Goldstein GT, **Jacobson JA**, Ceulemans RY, Hayes CW. Sonographic evaluation of the postoperative rotator cuff. American Institute of Ultrasound in Medicine 44<sup>th</sup> Annual Convention, San Francisco, California; April 2000.

30. Lin J, Weadock WJ, **Jacobson JA**, Fessell DP, Hayes CW. Sonography of the shoulder: technique and clinical applications. American Institute of Ultrasound in Medicine 44<sup>th</sup> Annual Convention, San Francisco, California; April 2000. **Honorable Mention.**
31. Lin J, Weadock WJ, **Jacobson JA**, Fessell DP, Hayes CW. Interactive tutorial of musculoskeletal sonography on the World Wide Web. American Roentgen Ray Society 100<sup>th</sup> Annual Meeting, Washington, D.C. May 2000. **Silver Medal.**
32. Lin J, Quinn TJ, **Jacobson JA**, Jamadar DJ, Ellis JH. Imaging features of pigmented villonodular synovitis with emphasis on sonographic findings. American Roentgen Ray Society 100<sup>th</sup> Annual Meeting, Washington, D.C. May 2000.
33. Propeck T, Quinn TJ, **Jacobson JA**, Fessell DP, Hayes CW. Bifid median nerve: sonography and MR imaging with anatomic correlation. American Roentgen Ray Society 100<sup>th</sup> Annual Meeting, Washington, D.C. May 2000.
34. Patel S, Fessell DP, **Jacobson JA**, van Holsbeeck MT, Hayes CW. Pearls, pitfalls, and anatomic variants in ankle and foot sonography. American Roentgen Ray Society 100<sup>th</sup> Annual Meeting, Washington, D.C. May 2000.
35. Ortega R, Fessell DP, **Jacobson JA**, Lin J, van Holsbeeck MT, Hayes CW. Sonography of ankle ganglia with pathologic correlation. American Roentgen Ray Society 100<sup>th</sup> Annual Meeting, Washington, D.C. May 2000.
36. Boyse T, Fessell DP, **Jacobson JA**, Lin J, Hayes CW. Sonography of soft tissue foreign bodies. American Roentgen Ray Society 100<sup>th</sup> Annual Meeting, Washington, D.C. May 2000.
37. Theisen S, Fessell DP, **Jacobson JA**, Hayes CW. Magnetic resonance imaging of ankle trauma. American Roentgen Ray Society 100<sup>th</sup> Annual Meeting, Washington, D.C. May 2000.
38. Goldstein G, Fessell DP, **Jacobson JA**, Lin J, Hayes CW. MR imaging and sonography of ankle extensor tendon pathology. American Roentgen Ray Society 100<sup>th</sup> Annual Meeting, Washington, D.C. May 2000.
39. Horton LK, **Jacobson JA**, Lin J, Hayes CW. MR imaging of anterior cruciate ligament reconstruction. American Roentgen Ray Society 100<sup>th</sup> Annual Meeting, Washington, D.C. May 2000.
40. Chien AJ, **Jacobson JA**, Lin J, Martel W. Imaging of de Quervain tenosynovitis. American Roentgen Ray Society 100<sup>th</sup> Annual Meeting, Washington, D.C. May 2000.
41. Heiserman K, **Jacobson JA**, Fessell DP, Kuhns L, Farley FA. Sonography of ankle and foot fractures. American Roentgen Ray Society 100<sup>th</sup> Annual Meeting, Washington, D.C. May 2000.
42. Ballehr LO, Myers DT, **Jacobson JA**. MR imaging of the lateral ankle: normal variation and pathology of the tendons and ligaments. Radiological Society of North America 86th Scientific Assembly and Annual Meeting, Chicago, Illinois; November 2000.
43. Lin J, Weadock WJ, **Jacobson JA**, Fessell DP, Hayes CW. Sonography of the shoulder: technique and clinical applications. Radiological Society of North America 86th Scientific

Assembly and Annual Meeting, Chicago, Illinois; November 2000. *Selected for CME category 1 credit. **Certificate of Merit.***

44. **Jacobson JA**, Delaney-Sathy LO, Fessell DP, Lin J, Jamadar DA, Hayes CW. Radiological Society of North America 86th Scientific Assembly and Annual Meeting, Chicago, Illinois; November 2000.
45. **Jacobson JA**, Quinn TJ, Fessell DP, Stafford-Johnson DB. Sonography of the knee: technique, normal anatomy, and pathology. Radiological Society of North America 86th Scientific Assembly and Annual Meeting, Chicago, Illinois; November 2000.
46. Patel S, Fessell DP, **Jacobson JA**, van Holsbeeck MT, Hayes CW. Pearls, pitfalls, and anatomic variants in ankle and foot sonography. Radiological Society of North America 86th Scientific Assembly and Annual Meeting, Chicago, Illinois; November 2000. **Certificate of Merit.**
47. **Jacobson JA**, Chepuri NB, Fessell DP, Hayes CW. Sonographic and MR imaging characterization of the peroneus quartus. Radiological Society of North America 86th Scientific Assembly and Annual Meeting, Chicago, Illinois; November 2000.
48. **Jacobson JA**, Jeffers A, Jebson P, Marcantonio DR, Hayes CW. Sonographic evaluation of the cubital tunnel. Radiological Society of North America 86th Scientific Assembly and Annual Meeting, Chicago, Illinois; November 2000.
49. **Jacobson JA**, Jamadar DA, Fessell DP, Lin J, Hayes CW. Sonographic evaluation of limb amputation complications. Radiological Society of North America 86th Scientific Assembly and Annual Meeting, Chicago, Illinois; November 2000.
50. **Jacobson JA**, Delaney-Sathey LO, Fessell DP, Lin J, Jamadar DA, Hayes CW. Sonography of diabetic muscle infarction with MR imaging and pathologic correlation. American Institute of Ultrasound in Medicine 45<sup>th</sup> Annual Convention, Orlando, Florida; March 2001.
51. **Jacobson JA**, Chepuri N, Fessell DP, Hayes CW. Sonographic and MR imaging characterization of the peroneus quartus. American Institute of Ultrasound in Medicine 45<sup>th</sup> Annual Convention, Orlando, Florida; March 2001.
52. Kalume M, Fessell D, **Jacobson JA**, Hayes CW. Imaging of os peroneum fracture and peroneus longus tendon tear. American Roentgen Ray Society 101<sup>st</sup> Annual Meeting, Seattle, Washington; April 2001.
53. Marcantonio DR, **Jacobson JA**, Jamadar DJ, Fessell DP, Lin J, Hayes CW. Ultrasound imaging features of calf muscle injury. American Roentgen Ray Society 101<sup>st</sup> Annual Meeting, Seattle, Washington; April 2001.
54. Horton LK, **Jacobson JA**, Jamadar DJ, Lin J, Fessell DP, Hayes CW. Sonography of peripheral nerve disorders. American Roentgen Ray Society 101<sup>st</sup> Annual Meeting, Seattle, Washington; April 2001.
55. Ballehr, LO, Myers DT, **Jacobson JA**. MR Imaging of the lateral ankle: normal variation and pathology of the tendons and ligaments. Pennsylvania Radiological Society, Hershey, Pennsylvania; May 2001.

56. **Jacobson JA**, Oh E, Propeck T, Jebson PJ, Jamadar DA, Hayes CW. Sonographic evaluation of the scapholunate ligament. Radiological Society of North America 87th Scientific Assembly and Annual Meeting, Chicago, Illinois; November 2001.
57. **Jacobson JA**, Sekiya JK, Wojtys EM, Hayes CW. Sonography of the posterolateral structures of the knee: Correlation with cadaveric dissection. Radiological Society of North America 87th Scientific Assembly and Annual Meeting, Chicago, Illinois; November 2001.
58. Weybright PN, Murry KH, **Jacobson JA**, Lin J, Fessell DP, Jamadar DA, Hayes CW. The effectiveness of sonography in detection of hip joint effusion. Radiological Society of North America 87th Scientific Assembly and Annual Meeting, Chicago, Illinois; November 2001.
59. Patel SV, **Jacobson JA**, Jamadar DA, Fessell DP, Marcantonio DR, Hayes CW. Hydroxyapatite deposition disease: Revisited. Radiological Society of North America 87th Scientific Assembly and Annual Meeting, Chicago, Illinois; November 2001.  
***Certificate of Merit.***
60. La SS, Fessell DP, **Jacobson JA**, Jamadar DA, Murry KH, Hayes CW. Sonography of quadriceps tendon tears with surgical correlation. Radiological Society of North America 87th Scientific Assembly and Annual Meeting, Chicago, Illinois; November 2001.
61. Kalume-Brigido M, Fessell DP, **Jacobson JA**, Widman DS, Craig JG, van Holsbeeck MT. Imaging of os peroneum fractures and peroneus longus tendon tears. Radiological Society of North America 87th Scientific Assembly and Annual Meeting, Chicago, Illinois; November 2001.
62. Shetty M, Fessell DP, Femino J, **Jacobson JA**, Jamadar DA, Marcantonio DR, Hayes CW. Sonography of ankle tendon impingement with surgical correlation. Radiological Society of North America 87th Scientific Assembly and Annual Meeting, Chicago, Illinois; November 2001.
63. Chien AJ, **Jacobson JA**, Lin J, Martel W, Hayes CW. Imaging of de Quervain tenosynovitis. Radiological Society of North America 87th Scientific Assembly and Annual Meeting, Chicago, Illinois; November 2001.
64. Murry KH, **Jacobson JA**, Fessell DP, Kuhns LR, Farley FA. Sonography of ankle and foot fractures. Radiological Society of North America 87th Scientific Assembly and Annual Meeting, Chicago, Illinois; November 2001. ***Certificate of Merit.***
65. Gendron BR, Myers DT, **Jacobson JA**. MR appearance of symptomatic ossicles and sesamoids of the foot and ankle. Radiological Society of North America 87th Scientific Assembly and Annual Meeting, Chicago, Illinois; November 2001.
66. Horton LK, **Jacobson JA**, Jamadar DA, Fessell DP, Hayes CW. Sonography of peripheral nerve disorders. American Institute of Ultrasound in Medicine 46<sup>th</sup> Annual Convention, Nashville, Tennessee; March 2002.
67. **Jacobson JA**, Propeck T, Jamadar DA, Jebson P, Hayes CW. Sonography of the ulnar collateral ligament: findings in five cadaver elbows with MR arthrography and anatomic

- correlation. Radiological Society of North America 88<sup>th</sup> Scientific Assembly and Annual Meeting, Chicago, Illinois; December 2002.
68. Weaver JS, **Jacobson JA**, Craig JG, van Holsbeeck MT. Sonography, MR imaging, and radiography of adductor insertions avulsion syndrome. Radiological Society of North America 88<sup>th</sup> Scientific Assembly and Annual Meeting, Chicago, Illinois; December 2002. *Selected for CME category 1 credit.*
  69. Durkee NJ, **Jacobson JA**, Jamadar DA, Femino JE, Hayes CW. Sonography of interosseous membrane disruption of the lower extremity. Radiological Society of North America 88<sup>th</sup> Scientific Assembly and Annual Meeting, Chicago, Illinois; December 2002.
  70. Reynolds DL, **Jacobson JA**, Inampudi P, Jamadar DA, Hayes CW. Sonographic characteristics of peripheral nerve sheath tumors. American Roentgen Ray Society 103rd Annual Meeting, San Diego, California; May 2003.
  71. Durkee NJ, **Jacobson JA**, Jamadar DA, Karunakar M, Lohman CM, Hayes CW. Acetabular fracture classification: understanding radiographic and CT appearances. American Roentgen Ray Society 103rd Annual Meeting, San Diego, California; May 2003.
  72. Shields GS, **Jacobson JA**, Rajani R, Patel S, Jamadar DA, Kuhn JE, Hayes CW. MR arthrography of the shoulder: review of 81 consecutive subjects. American Roentgen Ray Society 103rd Annual Meeting, San Diego, California; May 2003.
  73. Chien AJ, **Jacobson JA**, Femino JE, Jamadar DA, Lohman CM, Hayes CW. Imaging features of lateral ankle ligament reconstruction. American Roentgen Ray Society 103rd Annual Meeting, San Diego, California; May 2003. ***Certificate of Merit***
  74. Shields G, **Jacobson JA**, Jamadar D, Femino J, Hayes C. Sonography of sinus tarsi syndrome. American Institute of Ultrasound in Medicine 47<sup>th</sup> Annual Convention, Montreal, Quebec, Canada; June 2003.
  75. Weaver JS, **Jacobson JA**, Craig JG, van Holsbeeck M. Sonography and magnetic resonance imaging of adductor insertion avulsion syndrome. American Institute of Ultrasound in Medicine 47<sup>th</sup> Annual Convention, Montreal, Quebec, Canada; June 2003.
  76. Lassig JP, **Jacobson JA**, Dasika N, Femino JE, Jamadar DA, Hayes CW. Sonography of Lisfranc ligament disruption. American Institute of Ultrasound in Medicine 47<sup>th</sup> Annual Convention, Montreal, Quebec, Canada; June 2003.
  77. Morag Y, **Jacobson JA**, Shields GS, Rajani R, Jamadar DA, Hayes CW. MR arthrography of the rotator interval: biceps brachii long head and biceps pulley of the shoulder. Radiological Society of North America 89<sup>th</sup> Scientific Assembly and Annual Meeting, Chicago, Illinois; December 2003.
  78. **Jacobson JA**, Chien AJ, Femino JE, Jamadar DA, Brigido MK, Hayes CW. Imaging features of lateral ankle reconstruction. Radiological Society of North America 89<sup>th</sup> Scientific Assembly and Annual Meeting, Chicago, Illinois; December 2003. ***Certificate of Merit***
  79. Ebrahim FS, Rajani R, Jamadar DA, Morag Y, Carpenter JE, **Jacobson JA**. MR arthrography of the hip with arthroscopic correlation. Radiological Society of North America 89<sup>th</sup> Scientific Assembly and Annual Meeting, Chicago, Illinois; December 2003.

80. Weaver JS, **Jacobson JA**, Jamadar D, Roeser W, Ebrahim F, Brigido M. Sonographic findings of pectoralis major tear in otherwise healthy subjects with magnetic resonance imaging, surgical, and clinical correlation. American Roentgen Ray Society 104th Annual Meeting, Miami Beach, Florida; May 2004.
81. Pernicano P, Jamadar D, Carlos R, **Jacobson J**, Caoili E, Bailey J, Patterson S, Klein K, Patel S, Noroozian M, Dong Q, Good J, Kazerooni E. Quandary in Radiology Resident Education: Is There a Relationship between Informal Teaching Quality and Exam Interpretation Productivity? University of Michigan Medical School, Medical Education Day 2004, Ann Arbor, Michigan. May 2004.
82. Morag Y, **Jacobson JA**, Shields GS, Rajani R, Jamadar DA, Hayes CW. MR arthrography of the rotator interval: biceps brachii long head and biceps pulley of the shoulder. Advanced Orthopaedic Imaging in Wine Country, Sonoma, California; May 2004.
83. **Jacobson JA**, Chien AJ, Femino JE, Jamadar DA, Brigido MK, Hayes CW. Imaging features of lateral ankle reconstruction. Advanced Orthopaedic Imaging in Wine Country, Sonoma, California; May 2004.
84. Ebrahim FS, Rajani R, Jamadar DA, Morag Y, Carpenter JE, **Jacobson JA**. MR arthrography of the hip with arthroscopic correlation. Advanced Orthopaedic Imaging in Wine Country, Sonoma, California; May 2004.
85. Morag Y, Miller B, **Jacobson JA**. Rotator cuff injury: What the clinician needs to know. Radiological Society of North America 90<sup>th</sup> Scientific Assembly and Annual Meeting, Chicago, Illinois; December 2004.
86. Swaringen J, Wojtys EM, Sekiya JK, **Jacobson JA**. A new diagnostic sonography stress test for posterolateral corner knee injuries. 46th Annual Meeting of the Society of Military Orthopaedic Surgeons, Vail, CO, December 2004.
87. Weaver J, **Jacobson JA**. MRI of the elbow. European College of Radiology, Vienna, Austria; March 2005.
88. Weaver J, **Jacobson JA**, Kalume-Brigido M, Morag Y, Girish G, Jamadar DA. MR imaging of traumatic hand and wrist injuries with arthrographic, sonographic, and surgical correlation. American Roentgen Ray Society 105<sup>th</sup> Annual Meeting, New Orleans, Louisiana; May 2005.
89. Swaringen J, Wojtys EM, Sekiya JK, **Jacobson JA**. A new diagnostic sonography stress test for posterolateral corner knee injuries. Arthroscopy Association of North America, Vancouver, Canada; May 2005.
90. Weaver J, **Jacobson JA**, Kalume-Brigido M, Morag Y, Girish G, Jamadar DA. MR imaging of traumatic hand and wrist injuries with arthrographic, sonographic, and surgical correlation. Radiological Society of North America 91st Annual Meeting, Chicago, Illinois; November 2005.
91. Weaver J, **Jacobson JA**, De Maeseneer M, Kalume-Brigido M, Morag Y, Jamadar DA. MR Imaging of Traumatic Elbow Injuries with Arthrographic, sonographic, clinical, and surgical correlation. Radiological Society of North America 91st Annual Meeting, Chicago, Illinois; November 2005.



92. Weaver J, Brigido M, **Jacobson JA**. Magnetic resonance imaging of the temporomandibular joint: an illustrative review of anatomy, biomechanics, and selected pathology with clinical correlation. European College of Radiology, Vienna, Austria; March 2006.
93. Paulsen SD, Girish G, **Jacobson JA**, Jamadar D. Sonographic evaluation of acute knee pathology. American Roentgen Ray Society 106<sup>th</sup> Annual Meeting, Vancouver, British Columbia, Canada; May 2006.
94. **Jacobson JA**, Jamadar DA, Kalume-Brigido M, Girish G, Ebrahim F. Ultrasound and MRI of the calf, Achilles tendon, and plantar fascia. American Roentgen Ray Society 106<sup>th</sup> Annual Meeting, Vancouver, British Columbia, Canada; May 2006.
95. Weaver J, Hughes MA, Kalume-Brigido M, Morag Y, Jamadar DA, Maly-Sundgren P, De Maseseneer M, **Jacobson JA**. Magnetic resonance imaging of the temporomandibular joint: an illustrative review of anatomy, biomechanics, and selected pathology with clinical correlation. American Roentgen Ray Society 106<sup>th</sup> Annual Meeting, Vancouver, British Columbia, Canada; May 2006.
96. Jamadar DA, **Jacobson JA**, Gest T, Morag Y, Girish G, Franz M, Kalume-Brigido M, Ebrahim F. Sonography of adult inguinal hernia revisited. American Roentgen Ray Society 106<sup>th</sup> Annual Meeting, Vancouver, British Columbia, Canada; May 2006.
97. Weaver JS, Girish G, **Jacobson JA**, Jamadar D, Dong Q, Brigido MK, Morag Y. Role of ultrasound in the evaluation of arthritis: a pictorial review. World Federation of Ultrasound in Medicine and Biology, Seoul, South Korea; May 2006 (*Young investigator Bronze award*)
98. Kesala R, Fessell DP, **Jacobson JA**, van Holsbeeck M. Sonographic guidance for joint Aspiration: Technique, Pearls, and Pitfalls. International Skeletal Society, Vancouver, CA, September 13-16, 2006.
99. Seelagan D, Fessell DP, **Jacobson JA**, van Holsbeeck M. Sonography of the ankle: anatomy, pathology, and imaging at 17 MHz. International Skeletal Society, Vancouver, CA, September 13-16, 2006.
100. Wang G, Feng F, **Jacobson JA**, Gandikota G, Caoili E, Ebrahim F. Ultrasound of wrist ganglion cysts: variable and non-cystic appearances. American Institute of Ultrasound in Medicine, New York City, New York; March 2007.
101. Beyer GR, Girish G, **Jacobson JA**, Morag Y, Dong Q, Franz M, Jamadar DA. Using ultrasound to resolve clinical pitfalls in the diagnosis of hernias. The Association of University Radiologists 55th annual meeting, Denver, Colorado; April 2007.
102. Aagesen M, **Jacobson J**, Morag Y, Brigido M, Schuetze S, Baker L. MRI evaluation of bone marrow abnormalities. American Roentgen Ray Society 107th Annual Meeting, Orlando, Florida; April 2007.
103. Neal C, **Jacobson J**, Brandon C, Kalume Brigido M, Morag Y, Girish G. Ultrasound characteristics of Morel-Lavallée Lesions. American Roentgen Ray Society 107th Annual Meeting, Orlando, Florida; April 2007.

104. Inampudi R, **Jacobson J**, Dasika N, Sabb B, Girish G, Kim S, Caoili E. Popliteal artery assessment on routine knee MRI: Comparison with angiography. American Roentgen Ray Society 107th Annual Meeting, Orlando, Florida; April 2007.
105. Gleason JD, **Jacobson JA**, Brandon C, Kim S, Caoili E, Wojtys E. Signal abnormality of Hoffa's fat pad as a sign of knee synovitis. American Roentgen Ray Society 107th Annual Meeting, Orlando, Florida; April 2007.
106. Sabb B, **Jacobson J**, Kim S, Jamadar D, Blaha J. Anterior knee pain: A diagnostic conundrum. American Roentgen Ray Society 107th Annual Meeting, Orlando, Florida; April 2007.
107. Park L, **Jacobson J**, Brandon C, Jamadar D, Jiang Y, Sabb B. Sonographic appearance of gout with radiographic and MRI correlation. American Roentgen Ray Society 107th Annual Meeting, Orlando, Florida; April 2007.
108. Beyer GR, Girish G, Jamadar DA, **Jacobson JA**. Resolving clinical pitfalls in the diagnosis of hernias using sonography. American Roentgen Ray Society 107th Annual Meeting, Orlando, Florida; April 2007.
109. Dong Q, **Jacobson J**, Brandon C, Jamadar D, Morag Y, Girish G, Kim S, Kalume Brigido M. Important signs in musculoskeletal MRI. American Roentgen Ray Society 107th Annual Meeting, Orlando, Florida; April 2007.
110. Balin J, Jamadar DA, **Jacobson JA**, Girish G, Brandon C, Elaine CM, Franz MG. Mesh placement for anterior abdominal wall and inguinal hernia repair: sonographic appearances and complications. American Roentgen Ray Society 107th Annual Meeting, Orlando, Florida; April 2007.
111. Park L, Fessell D, Girish G, Dong Q, Brandon C, **Jacobson JA**. Malignant bone lesions: diagnostic approach, pearls and pitfalls. International Skeletal Society, Budapest, Hungary, October, 2007.
112. Davis KW, **Jacobson JA**, Blankenbaker DG, Schreibman KOL, Graf BK. Understanding the "dark side" of the knee: Imaging of the posterolateral corner. Radiological Society of North America 93rd Scientific Assembly and Annual Meeting, Chicago, Illinois; November 2007. ***Magna Cum Laude***
113. **Jacobson JA**, Fessell DP, Kalume Brigido M, Morag Y, Kim SM, Jamadar DA. Interventional musculoskeletal ultrasound: Techniques and applications. Radiological Society of North America 93rd Scientific Assembly and Annual Meeting, Chicago, Illinois; November 2007. ***Cum Laude***
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