

Curriculum Vitae

Brian D. Petersen MD

Current Position:

**MSK Radiologist
Inland Imaging, LLC
Spokane, WA**

Contact information:

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Education

Undergraduate:

University of Puget Sound, Tacoma WA August 1990-June 1994
Graduated with Honors: BA English Literature
Trustee Scholar

Medical School:

Medical College of Wisconsin, Milwaukee WI August 1996-May 2000
Doctor of Medicine

Internship:

Sacred Heart Medical Center, Spokane WA July 2000-June 2001
Transitional Year Internship

Residency:

University of Colorado, Denver CO July 2001-June 2005
Radiology Resident
Chief Resident 2004-2005

Fellowship:

University of Wisconsin July 2005-June 2006
Musculoskeletal Radiology Fellow

Academic Appointments:

June 2014-present: Clinical Associate Professor of Radiology, University of Colorado School of Medicine

June 2014-present: Adjunct Professor of Orthopaedics, University of Colorado School of Medicine

March 2012-June 2014: Associate Professor of Radiology, University of Colorado School of Medicine

March 2012-June 2014: Associate Professor of Orthopaedics (secondary appointment), University of Colorado School of Medicine

February 2008-June 2014: Chief of MSK Radiology, University of Colorado School of Medicine

July 2008- June 2014: MSK Radiology Fellowship Director, University of Colorado School of Medicine

February 2008- March 2012: Assistant Professor of Radiology, University of Colorado School of Medicine

February 2008- March 2012: Assistant Professor of Orthopaedics (secondary appointment), University of Colorado School of Medicine

July 2006-February 2008: Clinical Assistant Professor of Radiology, University of Colorado School of Medicine

July 2005-June 2006: Clinical Instructor of Radiology, University of Wisconsin School of Medicine and Public Health, Madison, WI

Employment/Staff Appointments

July 2014-present: MSK Radiologist, Inland Imaging, PS. Spokane, WA

February 2008-June 2014: Staff Radiologist University of Colorado Hospital
Chief of MSK Radiology
MSK Fellowship Director
Medical Director: University of Colorado Imaging at Colorado Center
University of Colorado Hospital, Denver, CO
Denver Health Medical Center, Denver, CO

August 2006-February 2008: Staff Radiologist Rocky Mountain Radiologists, Denver, CO

Exempla Lutheran Medical Center, Denver, CO
Yampa Valley Medical Center, Steamboat Springs, CO
The Memorial Hospital at Craig, Craig, CO
Kremmling Memorial Hospital, Kremmling, CO

July 2005-June 2006: MSK Radiology Fellow and Clinical Instructor of Radiology University of Wisconsin Madison

University of Wisconsin School of Medicine and Public Health, Madison, WI
Meriter Hospital, Madison, WI

Awards/Honors

2013 Society of Skeletal Radiology Best Scientific Paper

Jesse MK*, Petersen BD. Morphology of Disc Space Extravasation of Cement During Fractureplasty Predicts Adjacent Level Fracture. Society of Skeletal Radiology Annual Meeting. San Antonio, TX. March 17th-20th, 2013.

2011 University of Colorado Hospital Extraordinary Service Award-

Awarded by University of Colorado Hospital to one of its 6,000 employees demonstrating extraordinary service to patient care and the University of Colorado Hospital clinical mission.

2010-2011 University of Colorado Department of Radiology, John Stears Faculty Teaching Award- Voted by the radiology residents and given to the faculty member who most exemplifies the teaching mission.

Young Investigator Award (\$1500). Society of Skeletal Radiology Annual Meeting 2011. Scottsdale, AZ March 13-16, 2011.

Selected to participate in 2011 RSNA Clinical Trials Methodology Workshop. January 15-21, 2011, Phoenix, AZ

Clinical Educator Development Program Grant Recipient- ARRS
2010- \$1,000 Award Grant

Chief Resident of Radiology 2004-2005: voted on by residents and faculty

Trustee Scholar- University of Puget Sound 1990-1994

Graduated with Honors- University of Puget Sound 1994

1st Team All-American: US Association of Volleyball National
Tournament, Open Division, Dallas, TX, 1995

*MSK Fellow, Radiology Resident, or Medical Student

Professional Memberships

Member Society of Skeletal Radiology (2006-present)
Strategic Planning Committee (2015)
Resident and Fellowship Education Committee Member (2011-
2014)

Member International Spine Intervention Society (2006-present)
Member Washington Radiological Society (2014-present)
Member Colorado Radiological Society (2001-2014)
Educational Program Chairman (2010-2011)
Secretary/Treasurer (2011-present)
Vice President (2013-2014)

Member Radiological Society of North America (2001-present)
Educational Exhibit Awards Committee (2012-2015)

Member American Roentgen Ray Society (2001-present)
Member American College of Radiology (2001-present)
Member European Society of Radiology (2008-present)
Member North American Spine Society (2010-present)
Annual Meeting Abstract reviewer (2011)
Faculty-NASS Cervical Spine Injection Workshop (August, 2010)

Committees

Institutional/Departmental

Inland Imaging Investments, Board member, 2016-present

Inland Imaging LLC, Operations and Finance Committee, 2018-present

Inland Imaging PS, Board Member, 2016-present

Inland Imaging PS, Quality Committee Vice-Chair, 2015-present

Inland Imaging PS, Residency Selection Committee, 2015-present

Director of MSK Education, Inland Imaging/Providence Sacred Heart
Diagnostic Radiology Residency, 2015-present

Inland Imaging, PS Equity Work Group, 2015-2016

University of Colorado Medical Hospital Medical Board- At Large
Position elected by the UCH Medical Staff, 2012-2014

University of Colorado Hospital Trauma Committee- Radiology
Representative, 2008-2014

Residency Selection Committee 2008-2010, 2012

MSK Block Rotation Committee for MSIII students- 2008-2014

University of Colorado Radiology QA Committee- 2009-2014

Regional

Providence Health and Services, Musculoskeletal Clinical Performance
Group, May 29th 2015, Portland, OR

Colorado Radiological Society Executive Committee- 2009-2014

Colorado Radiological Society 2010-2011: Educational Program
Chairman

Colorado Radiological Society 2011-2013: Secretary/Treasurer

Colorado Radiological Society 2013-2014: Vice President

National

RSNA R&E Foundation, Visionaries in Practice Donor Committee
Member 2016-present

Society of Skeletal Radiology- Strategic Planning Committee (2015-
present)

Multi-Society Committee Appropriate Use Criteria (AUC) for sacroiliac
joint injection- ACR representative (2012-2014)

RSNA Educational Exhibit Awards Committee (2012, 2013, 2014, 2015)

Society of Skeletal Radiology- Member of Residency and Fellowship
Committee (2011, 2012, 2013, 2014)

North American Spine Society (NASS)- 2011, 2013 meeting abstract
reviewer

Licensure and Board Certification

American Board of Radiology Diplomate- 2005-present (recertification 2015)

Washington Medical License: 2014-present
Montana Medical License: 2017-present
Colorado Medical License: 2006-present
Wisconsin Medical License: 2005-2007
Colorado Trainee License: 2001-2005
Washington Trainee License: 2000-2001

Journal/Meeting Review

North American Spine Society (NASS)- 2011, 2013 meeting abstract reviewer
Journal of Hand Surgery- manuscript reviewer (2011-present)

Invited Lectures/Faculty

National

Presiding officer/Moderator: Spine/Interventional Session. Society of Skeletal Radiology. Scottsdale, AZ. March 8-11, 2015

Brian Petersen MD. "The Rotator Cuff and Glenohumeral Stability: The Marriage". RSNA Refresher Course 2014. Chicago, IL. Dec 6th, 2014.

Brian Petersen MD. "Controversies in Osteoporosis". Musculoskeletal MRI in Clinical Practice 2014. Las Vegas, NV. November 6-8, 2014

Brian Petersen MD. "Spine percutaneous intervention- the who, how and a little why". Musculoskeletal MRI in Clinical Practice 2014. Las Vegas, NV. November 6-8, 2014

Brian Petersen MD. "ESPN Imaging". Musculoskeletal MRI in Clinical Practice 2014. Las Vegas, NV. November 6-8, 2014

Brian Petersen MD. "Imaging of Shoulder Instability". Musculoskeletal MRI in Clinical Practice 2014. Las Vegas, NV. November 6-8, 2014

Brian Petersen MD. "Introduction to Tumor Imaging". Musculoskeletal MRI in Clinical Practice 2014. Las Vegas, NV. November 6-8, 2014

Brian Petersen MD. "Injuries Associated With Inversion Injury". ARRS 2014 Instructional Course, San Diego, CA May 4-9th, 2014

Brian Petersen MD. ARRS Case Based Review Faculty- MSK cases, Spine and Pelvis. Presented to 600 attendees of the Case Based Review session at ARRS 2014, San Diego, CA. May 4-9th, 2014

Presiding officer/Moderator: MSK Power Hour. ARRS 2014, San Diego, CA. May 4-9th, 2014

Presiding officer/Moderator: Hip/Pelvis Session. Society of Skeletal Radiology. San Diego, CA. March 16-19, 2014

Presiding officer/Moderator: Scientific Session-Interventional MSK Radiology. RSNA 2103, Chicago, IL. December 1-6, 2013.

Brian Petersen MD. "Injuries Associated With Inversion Injury". ARRS 2013 Instructional Course, Washington, DC. April 15-19th, 2013

Brian Petersen MD. ARRS Case Based Review Faculty- MSK cases, Soft Tissue Masses. Presented to 600 attendees of the Case Based Review session at ARRS 2013, Washington, DC. April 15-19th, 2013

Presiding officer/Moderator: Scientific Session-Interventional MSK Radiology. RSNA 2102, Chicago, IL November 24-30, 2012.

Brian Petersen MD. General and Spine Radiology Review. American Academy of Orthopaedic Surgeons Board Review and MOC Course. San Francisco, CA. November 15-17, 2012

Brian Petersen MD. ARRS Case Based Review Faculty-MSK cases, Spine. Presented to 600 attendees of the Case Based Review session at ARRS 2012, Vancouver, BC.

Brian Petersen MD. Invited Faculty. North American Spine Society Cervical Spine Injections Course (taught Cervical Transforaminal Injection technique on cadavers). August 12-13th, 2010. Spine Education and Research Center, Burr Ridge, IL.

Brian Petersen MD. "Advanced Imaging of the Athletic Hip: It's not all FAI". Pacific Northwest Radiologic Society Meeting. Portland, OR. April 17th 2010.

Brian Petersen MD. "Normal Variants That Cause Pathology: From head to foot". Pacific Northwest Radiologic Society Meeting. Portland, OR. April 17th 2010.

Brian Petersen MD. "Imaging of Microinstability and Internal Impingement". Tripler Army Medical Center Visiting Professorship. March 29th, 2010

Brian Petersen MD. "Advanced Imaging of Athletic Hip Pain". Tripler Army Medical Center Visiting Professorship. March 30th, 2010

Brian Petersen MD. "MRI of the Elbow and Wrist". Tripler Army Medical Center Visiting Professorship. March 31st, 2010

Brian Petersen MD. "Normal Variants that Cause Pathology: from Head to Foot". Tripler Army Medical Center Visiting Professorship. April 1st, 2010

Brian Petersen MD. "Pelvic and Hip Trauma". Tripler Army Medical Center Visiting Professorship. April 2nd, 2010

Regional

Brian Petersen MD. "Imaging of Musculoskeletal Infection". Inland Imaging CME lecture. Spokane, WA. November 9th, 2016.

Brian Petersen MD. "Spine percutaneous intervention- the who, how and a little why". Inland Imaging CME lecture. Spokane, WA. May 20th, 2015

Brian Petersen MD. "Advanced Imaging of the Athletic Hip: It's Not all FAI!". Inland Imaging CME lecture. Spokane, WA. September 25th, 2014

Brian Petersen MD. "Controversies in Osteoporosis". Inland Imaging CME lecture. Spokane, WA. September 25th, 2014

Brian Petersen MD. "Fractureplasty in the Cancer Patient: Why, When and Who?" University of Colorado Radiology Oncology Grand Rounds. January 13th, 2014

Brian Petersen MD. "MRI of the Shoulder and Hip: Why we need what we want!" 1st Annual University of Colorado Health Regional MRI Conference. October 12th, 2013. University of Colorado Hospital. Denver, CO

Brian Petersen MD. "Pimpy Pincer: a complete exploration of pincer FAI". CU 2013 Fall Sports Medicine Symposium. Boulder, CO. October 4th, 2013

Brian Petersen MD. "Imaging of injuries associated with ACL tear: everything but the ACL". CU 2013 Fall Sports Medicine Symposium. Boulder, CO. October 4th, 2013

Brian Petersen MD. "Vertebral Augmentation: Technique, Patient Selection, Benefits and Controversies". Presentation to University of Colorado CVC Nurses and Technologists. June 27th, 2013

Brian Petersen MD. "Imaging of the Hip: What's in the Quiver and What Can It Show?". Instructional lecture, Steadman Hawkins Orthopaedic Clinic. May 1st 2013.

Brian Petersen MD. "Controversies in Osteoporosis: From Vertebroplasty to Femur Fractures". University of Colorado Orthopaedic Grand Rounds. March 7th, 2012

Brian Petersen MD. "Controversies in Osteoporosis: From Vertebroplasty to Femur Fractures". University of Colorado Endocrinology Grand Rounds. May 11th, 2011

Brian Petersen MD. "Common Injuries to the Athletic Lower Extremity: Plain Film Diagnoses YOU Can Make!". Office-Based Sports Medicine for the Primary Care Provider. Denver, CO, May 7th, 2011

Brian Petersen MD. "Imaging and Treatment of the Osteoporotic Spine". University of Colorado Department of Orthopaedics Spine Lecture Series. Denver, CO. May 4th, 2011

Brian Petersen, MD. "Imaging of Metabolic Bone Disease". Rheumatology instructional series . January 25, 2011.

Brian Petersen, MD. "MSK Cross-Sectional Imaging: The Basics". Radiology and Manipulation Conference. Denver, CO. September 30th, 2010

Brian Petersen MD. "Shoulder instability and the rotator cuff: chicken or the egg?" University of Colorado Sports Medicine Fall Symposium. Boulder, CO. September 17th 2010.

Brian Petersen MD. "Imaging of the throwing elbow". University of Colorado Sports Medicine Fall Symposium. Boulder, CO. September 17th 2010.

Brian Petersen MD. "MR Imaging of the Wrist". Hand Surgery Grand Rounds. University of Colorado, Denver. Sept 10, 2010.

Brian Petersen MD. "MSK Cross-Sectional Imaging: The Straight Scoop". Family Practice Residency Sports Medicine Day, University of Colorado Family Practice, May 2009.

Brian Petersen MD. "Imaging of the Wrist: Heavy on the MR". Hand Surgery Grand Rounds. University of Colorado, Denver. April 17th, 2009

Brian Petersen MD. "Injuries to the Athletic Lower Extremity." Family Medicine Review, Estes Park Colorado. July 2008

Brian Petersen MD. "Injuries to the Athletic Lower Extremity." Family Medicine Review, University of Colorado Denver. November 2008.

Brian Petersen MD. "Imaging of Unidirectional Instability". University of Colorado Sports Medicine Fall Symposium. Boulder, CO. October 3rd, 2008.

Brian Petersen, MD. "Imaging of the Rotator Cuff: It's NOT all MR!" University of Colorado Sports Medicine Fall Symposium. Boulder, CO. October 3rd, 2008.

Brian Petersen, MD. "MR Imaging of Microinstability". University of Colorado Sports Medicine Educational Conference. Denver, CO. September 17th, 2008.

Brian Petersen, MD. "MRI in RA". University of Colorado Department of Rheumatology Educational Rounds. Denver, CO. September 16th, 2008.

Brian Petersen, MD. "MSK Cross-Sectional Imaging: The Basics". Radiology and Manipulation Conference. Denver, CO. September 5th, 2008

Brian Petersen MD. "Cross-sectional MSK Imaging: The Straight Scoop". Orthopedic Core Curriculum Conference. University of Colorado Denver. May 21st, 2008

Brian Petersen MD. "Tumor Imaging". Orthopedic Core Curriculum Conference. University of Colorado Denver. May 14th, 2008

Brian Petersen MD. "Common Injuries to the Athletic Lower Extremity: Plain Film Diagnoses YOU Can Make!". Office-Based Sports Medicine for the Primary Care Provider. Denver, CO, May 3rd 2008

Brian Petersen MD. "Imaging of the Athletic Shoulder: Microinstability". University of Colorado Sports Medicine Fall Symposium. Boulder, CO, September 14th, 2007.

Brian Petersen MD. "Imaging of the Athletic Knee: Injuries Associated with ACL Disruption". University of Colorado Sports Medicine Fall Symposium. Boulder, CO. September 14th, 2007.

Brian Petersen MD. “Imaging of the Athletic Hip: Extraarticular Causes of Hip Pain”. University of Colorado Sports Medicine Fall Symposium. Boulder, CO. September 14th, 2007.

Brian Petersen MD. “Advanced Xray Interpretation: Musculoskeletal Radiology Trauma”. 30th Nurse Practitioner Symposium, Keystone Resort, Keystone Colorado. July 21, 2005

Brian Petersen MD. “Advanced Xray Interpretation: Non-traumatic Musculoskeletal Entities”. 30th Nurse Practitioner Symposium, Keystone Resort, Keystone Colorado. July 21, 2005

Brian Petersen MD. “Advanced Xray Interpretation: Neuroimaging”. 30th Nurse Practitioner Symposium, Keystone Resort, Keystone Colorado. July 21, 2005

Brian Petersen MD. “Imaging of the Traumatic Cervical Spine”. 30th Nurse Practitioner Symposium, Keystone Resort, Keystone Colorado. July 21, 2005

Brian Petersen MD. “Introduction to Musculoskeletal Imaging: Parts I,II”. Colorado Hospital Association for Physicians Assistants. April, 2005

Brian Petersen MD. “Utility of MRI In Early Diagnosis and Guidance of Treatment for Rheumatoid Arthritis”. Radiology Resident Education Lecture; May 2004.

Brian Petersen MD. “Advanced Level X-Ray Interpretation”. 29th Nurse Practitioner Symposium, Keystone Resort, Keystone Colorado. July 18, 2004

Brian Petersen MD. “Introduction to Musculoskeletal Imaging”. Colorado Hospital Association for Physicians Assistants. April, 2004

Brian Petersen MD. “TIPS: Patient Selection, Outcomes and Techniques”. Radiology Resident Educational Lecture. May 2003.

Publications/Presentations

Peer Reviewed:

1. Manaster BJ, **Petersen BD** et al. "American College of Radiology ACR Appropriateness Criteria™: Follow-up of Malignant or Aggressive Musculoskeletal Tumors". 2006
2. Tuite MJ, **Petersen BD**, Wise SM, Fine JP, Kaplan LD, Orwin JF. Shoulder MR arthrography of the posterior labrocapsular complex in overhead throwers with pathologic internal impingement and internal rotation deficit. *Skeletal Radiol*. 2007 Mar 6.
3. Gonzalez P, Stratton AT, **Petersen BD**, Sullivan W. Radiology Rounds: Diastematomyelia and Tethered Cord in a Patient with Decreased Sensation and Hyperreflexia. *Spine*. Jan-Feb 2009
4. **Petersen, BD**, Teefey, Sharlene, Prather, Heidi. Point/Counterpoint: Shoulder Ultrasound vs MRI for Rotator Cuff Pathology. *PM&R*. Vol 1(5). 490-495. May 2009.
5. Wolf, JM, Oren TW, Ferguson B*, Williams A, **Petersen BD**. The Carpometacarpal Stress View Radiograph in the Evaluation of Trapeziometacarpal Joint Laxity. *J Hand Surg Am*. 2009 Oct; 34(8): 1402-06
6. **Petersen BD**, Fitzgerald J*, Schreiber K. Musculotendinous MRI of the Ankle. *Seminars in Roentgenology*. 2010 Oct; 45(4): 250-76
7. Tomsick S*, **Petersen BD**. MRI Elbow: Normal anatomy and anatomic variants of the elbow. *Seminars in Musculoskeletal Radiology*. 2010 Sep; 14(4): 379-93
8. Wolf JM, Schreir S, Tomsick S*, Williams A, **Petersen BD**. Radiographic Laxity of the Trapeziometacarpal Joint is Correlated with Generalized Joint Hypermobility. *Journal of Hand Surgery*. 2011 July; 36(7). 1165-1169.
9. Demoruelle MK, Weisman MH, Simonian PL, Lynch DA, Sachs PB, Pedraza IF, Harrington AR, Kolfenbach JR, Striebich CC, Pham QN, Strickland CD, **Petersen BD**, Parish MC, Derber LA, Norris JM, Holers VM, Deane KD. Airways abnormalities and rheumatoid arthritis-related autoantibodies in subjects without arthritis: Early injury or initiating site of autoimmunity? *Arthritis Rheum*. 2011 Dec 19.
10. **Petersen BD**. MSK Cases 25-30. Approach to Diagnosis: A Case-based Imaging Review. *ARRS Case-based Imaging Review Course Book*. May 2012.
11. Demoruelle MK, Weisman MH, Simonian PL, Lynch DA, Sachs PB, Pedraza IF, Harrington AR, Kolfenbach JR, Striebich CC, Pham QN, Strickland CD, **Petersen BD**, Parish MC, Derber LA, Norris JM, Holers VM, Deane KD. Brief report: airways abnormalities and rheumatoid arthritis-related autoantibodies in subjects without arthritis: early injury or initiating site of autoimmunity? *Arthritis Rheum*. 2012 Jun;64(6):1756-61
12. Mei-Dan O, McConkey MO, **Petersen BD**, McCarty E, Moreira B, Young DA. The anterior approach for a non image guided intra-articular hip injection. *Arthroscopy*. 2013 Jun;29(6): 1025-33

13. **Petersen BD**. MSK Cases 19-24. Approach to Diagnosis: A Case-based Imaging Review. ARRS Case-based Imaging Review Course Book. April 2013.
14. Jesse MK, **Petersen BD**, Strickland CD, Mei-Dan O. Normal anatomy and imaging of the hip: emphasis on impingement assessment. *Seminars in Musculoskeletal Radiology*. 2013 Jul;17(3): 229-47.
15. **Petersen BD**. MSK Cases 11-15. Approach to Diagnosis: A Case-based Imaging Review. ARRS Case-based Imaging Review Course Book. May 2014
16. Strickland CD, Lowry PA, **Petersen BD**, Jesse MK. Introduction of a virtual workstation into the radiology medical student education. *AJR Am J Roentgenol*. 2015 Mar;204(3):W289-92
17. Jesse MK, **Petersen BD**, Glueck D, Kriedler S. Effect of Location of Endplate Cement Extravasation on Adjacent Level Fracture in Osteoporotic Patients Undergoing Vertebroplasty and Kyphoplasty. *Pain Physician*. 2015 Sep-Oct;18(5): E805-14
18. Nitschke A, Lambert JR, Glueck DH, Jesse MK, Mei-Dan O, Strickland C, **Petersen B**. Validation of a new radiographic measurement of acetabular version: the transverse axis distance (TAD). *Skeletal Radiol*. 2015 Nov;44(11):1679-86.
19. Nitschke A, **Petersen B**, Lambert JR, Glueck DH, Jesse MK, Strickland C, Mei-Dan O. Validation of neck axis distance (NAD) as a radiographic measure for acetabular anteversion. *Journal of Hip Preservation Surgery*. 2016 Jan
20. Khodae M, Miller LR, Wolcott M, **Petersen B**. An unusual cause of posterior knee pain with squatting: a case report and review of the literature. *J Fam Pract*. 2016 Feb;65(2):115-7
21. **Petersen BD**, Wolf B, Lambert JR, Clayton C, Glueck DH, Jesse MK, Mei-Dan O. Lateral acetabular labral length is inversely related to acetabular coverage as measured by lateral center edge angle of Wiberg. *Journal of Hip Preservation Surgery*. 2016 Feb
22. Tigran Garabekyan, Zachary Ashwell, Vivek Chadayammuri, Mary Kristen Jesse, Cecilia Pascual-Garrido, **Brian Petersen** and Omer Mei-Dan. Lateral Acetabular Coverage Predicts the Size of the Hip Labrum. *Am J Sports Med* published online March 17, 2016

Book Chapters:

1. **Petersen BD**, Davis K, Choi J. Spine Interventions: Selective Nerve Root Blocks. Pain Management in Interventional Radiology. Charles E Ray (ed). Cambridge University Press. 2008

2. **Petersen BD**, Davis K, Choi J. Spine Interventions: Epidural Steroid Injections. Pain Management in Interventional Radiology. Charles E Ray (ed). Cambridge University Press. 2008
3. **Petersen BD**. Imaging of Spinal Trauma. Spine Trauma:Surgical Techniques. Patel V, Burger E, Brown C (eds). Springer. 2010
4. Otero A*, Christianson B*, **Petersen BD**. Imaging of the Spine. Spine Surgery Basics. Patel VV, Patel A, Harrop JS, Burger E (eds.). Springer Press, 2013.
5. **Petersen BD**. Common Bony Lesions: Radiographic Features. Rheumatology Secrets: 3rd Edition. West S (editor). Elsevier. 2014
*MSK Fellow, Radiology Resident, or Medical Student

Abstracts/Oral Paper Presentations:

1. **Petersen BD**, Tuite MJ. “Overhead Throwing Athletes: Posterior Capsule Thickening on MR Arthrography”. American Roentgen Ray Society, May 1st 2006, Vancouver, B.C.
2. **Petersen BD**, Wells D*. “Prevalence of Intraforaminal Vertebral Artery Loops”. North American Spine Society, October 8th, 2010. Orlando, FL.
3. **Petersen BD**, Tivorsak T*, Myers J*, Jin M. “Injury of the soleus muscle origin- Mimicker of posterolateral corner injury in ACL tears?” Society of Skeletal Radiology. Scottsdale, AZ. March 13-16, 2011.
4. **Petersen BD**, Wells D*. “Prevalence of Intraforaminal Vertebral Artery Loops”. Society of Skeletal Radiology. Scottsdale, AZ. March 13-16, 2011.
5. **Petersen BD**, Strickland C, West S, Chang D, Resnick D. Voriconazole Associated Nodular Hypertrophic Periostitis: SSR Case of the Day. Society of Skeletal Radiology Annual Meeting, 2012. Miami, FL.
6. Eaton J*, **Petersen BD**. Association of Non-weightbearing Medial Femoral Condyle Edema with Acute ACL Tear. Oral presentation. RSNA 2012. Chicago, IL
7. Jesse MK*, **Petersen BD**. Morphology of Disc Space Extravasation of Cement During Fractureplasty Predicts Adjacent Level Fracture. Society of Skeletal Radiology Annual Meeting. San Antonio, TX. March 17th-20th, 2013. Selected as Best Scientific Paper and chosen for presentation at RSNA.
8. Jesse MK*, **Petersen BD**. Morphology of Disc Space Extravasation of Cement During Fractureplasty Predicts Adjacent Level Fracture. Oral Scientific Presentation RSNA 2013.
9. Jesse MK, Kreidler S, Glueck D, Kleck CJ, Patel V, Williams A, **Petersen BD**. 3D Morphometric Assessment of Normal and Abnormal SI Joints and the Potential Implications in the Development

of Pain Syndrome. Society of Skeletal Radiology Annual Meeting. San Diego, CA March 16-19th, 2014. Selected as Best Scientific Paper and chosen for presentation at the International Skeletal Society.

10. Sass LR, Freeman TS, Khani M, McCain K, Carter GT, Weeks DL, **Petersen BD**, Martin BA, "MRI-based biomarkers for characterization of amyotrophic lateral sclerosis" Clinical Translational Research Infrastructure Network, University of Nevada Las Vegas (Las Vegas, NV, 5/16, 2017)*.
11. McCain K, Sass L, Khani M, Carter G, Weeks D, Wiest M, **Petersen BD**, Wingett D, Freeman T, Martin BA, "MRI based biomarkers for characterization of ALS," University of Idaho, Idaho INBRE conference (Moscow, ID, 8/2, 2017).
12. Sass LR, Khani M, Gibbs C, Freeman T, Fluid J, Elliott A, Oshinski JN, Zeller J, Stewart GR, Powell D, **Petersen BD**, Weeks D, Carter G, Martin BA, "Quantitative assessment of intrathecal cerebrospinal fluid dynamics and geometry across large mammalian species," Hydrocephalus 2017 (Kobe, Japan, 10/23-25/2017).
13. Freeman TS, Sass LR, Khani M, McCain K, Carter GT, Weeks DL, **Petersen BD**, Martin BA, "Quantification of Intrathecal Cerebrospinal Fluid Dynamics in Patients with Amyotrophic Lateral Sclerosis and Comparison to Controls," World Congress of Biomechanics (Dublin, Ireland, 7/9-12, 2018).

*MSK Fellow, Radiology Resident, or Medical Student

Educational Exhibits:

1. Edwards SE*, **Petersen BD**. "ESPN Imaging: Turf Toe, High Ankle Sprain, Sports Hernia and Hip Pointer Demystified". Educational exhibit RSNA 2009. Invited for manuscript submission to Radiographics.
2. Takahashi J*, **Petersen BD**. "Benign Surface and Soft Tissue Cartilage Lesions". RSNA 2010. Chicago, IL. Awarded Certificate of Merit.
3. Strickland C, Eroglu J*, Warner C*, **Petersen BD**. "Synovial Cysts of the Facet Joints: Diagnosis and Therapeutic Approaches". ARRS 2011. Chicago, IL.
4. Hosmer J*, **Petersen BD**, Strickland C. "Imaging Evaluation of Osteochondral Grafting in the Knee: What the Radiologist Should Know". Presented at RSNA, 2011. Chicago, IL. Awarded Certificate of Merit. Invited for manuscript submission to Radiographics.
5. Aikins A*, **Petersen BD**. The Colorado 9: Common and Uncommon Fractures Associated with Ankle Inversion. RSNA 2012. Chicago,

IL. Awarded Certificate of Merit. Invited for manuscript submission to Radiographics.

6. Eaton J*, **Petersen BD**. Association of Non-weightbearing Medial Femoral Condyle Edema with Acute ACL Tear. Society of Skeletal Radiology 2013 Annual Meeting. San Antonio, TX. March 17th-20th
7. Trivedi P*, Lowry P, Flug J, Strickland C, **Petersen BD**, Jesse MK. Better SAPHO Than Sorry: What the radiologist should know about this rare and underdiagnosed condition. ARRS 2015. Toronto, Canada.

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Grants/Clinical Trials

- MRI-based Biomarkers for Amyotrophic Lateral Sclerosis
Source: 4U54GM104944-04 NIH General
Medical Sciences (CTR – Infrastructure Network)
Funding: \$68,500, 8/1/2016-6/30/2017
Investigators: Martin BA (PI) **Co-I Petersen BD**

- 2009-2014: Co-Investigator (Eric McCarty, PI) ***Biological Importance of Bioabsorbable Suture Anchors in Arthroscopic Rotator Cuff Repair: Radiographic Evaluation.*** \$12,000 Research ongoing. Industry sponsored by Musculoskeletal Transplant Foundation.

- 2009-2014: Consultant
Within Our Reach Grant (PI Kevin Deane)
07/01/08- 6/30/11
American College of Rheumatology \$187,483
The Lung as Site of Initial Immune Dysregulation in Rheumatoid Arthritis
The major goals of this project are to study the lungs and joints of FDRs of persons with rheumatoid arthritis (RA) and controls using pulmonary function testing, HRCT imaging, bronchoscopy with lavage and joint MRI to determine if there are features in autoantibody-positive FDRs that suggest that RA-related autoimmunity is present in the lungs prior to the development of symptomatic joint disease.

- 2009-2014: Co-Investigator
Research Grant (PI Kevin Deane) 04/01/10-03/31/12
Walter S. and Lucienne Driskill Foundation \$112,500
Identification of Candidates for Prevention of Rheumatoid Arthritis
The major goals of this project are to develop a predictive model, using genetic and environmental factors, biomarkers and imaging studies to

identify currently asymptomatic individuals who are at high risk for future development of rheumatoid arthritis.

- 2009-2014: Co-Investigator
IMM-09-0036 (PI Deane) 07/01/09-6/30/11
Abbott Laboratories,
Inc. \$170,000

Biomarker Prediction of Rheumatoid Arthritis

The goals of this project are to follow subjects at risk for future RA by virtue of autoantibody positivity to determine the role of additional biomarkers and imaging studies in the prediction of future clinically-apparent RA.

- 2008-2010: Consultant: “***Does Relaxin Mediate Gender Differences in Joint Laxity and Osteoarthritis of the Thumb Carpo-Metacarpal Joint?***” American Foundation for Surgery of the Hand. \$20,000.
Jennifer Wolf, Principal Investigator.