**Curriculum Vitae**

Omer A Awan, MD MPH CIIP

Associate Professor, Department of Radiology

University of Maryland School of Medicine

**Date**  November 23, 2018

**Contact Information**

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Foreign Languages: Urdu, Punjabi, Hindi, Arabic

**Education:**

1999-2003 B.A., Religion, George Washington University (Cum Laude)

2004-2008 M.D., George Washington School of Medicine (Alpha Omega

Alpha)

2015-2016 Certificate, Fundamentals of Value-Based Healthcare, The

Dartmouth Institute

2016-2018 M.P.H, Epidemiology, Harvard Chan School of Public Health

**Post Graduate Education and Training**

2008-2009 Internship, Christiana Care Health System

2009-2013 Residency, Diagnostic Radiology, University of Maryland School of Medicine

2013-2014 Fellowship, Musculoskeletal Imaging, Beth Israel Deaconess Medical Center- Harvard Medical School

2013-2014 Fellowship, Medical Education, Harvard Medical School

2014-2015 Fellowship, Imaging Informatics, University of Maryland School of

Medicine

**Certifications**

2013 American Board of Radiology

2014 American Board of Imaging Informatics

**Medical Licensures**

2008 Inactive, Delaware

2011 Active, Maryland

2013 Inactive, Massachusetts

2014 Inactive, New Hampshire

2014 Inactive, Vermont

2016 Active, Pennsylvania

**Employment History**

**Academic Appointments**

2013-2014 Clinical Fellow, Radiology, Harvard Medical School

2014- 2016 Assistant Professor, Radiology, Geisel School of Medicine, at

Dartmouth

2014-2018 Adjunct Assistant Professor, Radiology, University of Maryland School of Medicine

2016-2018 Assistant Professor, Radiology, Lewis Katz School of Medicine,

Temple University

2017-2018 Adjunct Faculty, Rheumatology/Orthopedics, Physicians

Assistant (PA) Program, Temple University

2017-2018 Adjunct Faculty, Gross Anatomy, Lewis Katz School of

Medicine, Temple University

2017-2018 Lecturer, Musculoskeletal Ultrasonography, Rowan College at

Burlington County

2018-Present Associate Professor, Radiology, University of Maryland School

of Medicine

**Other Employment**

2015-2016 Per Diem Musculoskeletal Radiologist, VA Hospital, White

River Junction, VT (Department of Radiology)

**Professional Society Membership**

2008-Present Alpha Omega Alpha, George Washington Chapter

2009-Present General Member, Radiological Society of North America

2009-Present General Member, American Roentgen Ray Society (ARRS)

2009-Present General Member, Association of University Radiologists

2009-Present General Member, American College of Radiology

2011-2012 General Member, American Alliance of Academic Chief Residents in Radiology (A3CR2)

2014-Present General Member, Society of Imaging Informatics in Medicine

(SIIM)

2015-Present General Member, Alliance of Clinician Educators

in Radiology (ACER)

2016-Present General Member, Radiology Research Alliance (RRA)

2016-Present General Member, Society of Skeletal Radiology

**Honors and Awards**

1999 Valedictorian, St. Paul’s High School

2000 Joseph A. Barrett Physics Prize, George Washington University

2008 Alpha Omega Alpha Honors Society, George Washington University, School of Medicine Class of 2008

2009 Paul Shaw Memorial Award for Best Case Report, Christiana Care Health Services

2010 First Place Trainee Prize, Association of University Radiologist Scientific Trainee Prize. Awan O, van Wagenberg F, Daly M, Safdar N, Nagy P. Automatically tracking delays in report availability caused by incorrect exam status with Web-based issue tracking: a quality initiative.

2010 First Place, Best Clinical Research at the Resident and Fellows Research Competition,American College of Radiology Annual Meeting and Chapter Leadership Conference; Washington DC; May 15-19 2010. Awarded for poster: Mohiuddin S, Lakhani P, Alvi F, Awan O, Mukai J, Safdar N, Siegel E. Effect of baroque classical music on mood, concentration, perceived diagnostic accuracy, productivity, and work satisfaction of diagnostic radiologists.

2011 Chief Resident, University of Maryland Medical Center

2013 RSNA Research & Education Foundation 2013 Roentgen

Resident/Fellow Research Award, University of Maryland

School of Medicine

2014 Outstanding Resident/Fellow Teaching Award, Harvard

Medical School, voted by Harvard Medical Students.

2014 Fellow of the Year Award, Beth Israel Deaconess Medical

Center/Harvard Medical School

2014 Fellow Award for Excellence in Teaching Medical

Students, Harvard Medical School

2015 Clinician Educator Development Program, American

Roentgen Ray Society

2016 First Place Review Exhibit, Pennsylvania Radiological

Society

2017 Attending of the Year Award, Temple University Department

of Radiology, Best Teacher Award

2018 Academic Faculty Development Program Participant,

Association of University Radiologists

2018 Kozera Teaching Academy Inductee, Lewis Katz School of

Medicine, Temple University

2018 Semifinalist, Aunt Minnie’s Scientific Paper of the Year;

Bhattacharya A, Fenerty S, **Awan O**, Hershey B, Cohen G, Ling S, Ali S. Imaging Patterns of Injuries Following the 2015 Amtrak Philadelphia Train Derailment. AJR Am J Roentgenol 2018 Feb; 28:1-14. doi: 10.2214/AJR.17.18832.

**Clinical Activities**

**Clinical Expertise**

Board Certified Radiologist

Board Certified in Imagining Informatics

Fellowship trained in Musculoskeletal Radiology

Clinical and research focus are in the area of Musculoskeletal Radiology, Imaging Informatics, and Medical Education.

**Scope of Clinical Practice:**

2014-2016 Staff Radiologist at Dartmouth Hitchcock Medical Center

Musculoskeletal and Trauma/Emergency Radiologist

13,600 studies read per year

500 Minimally invasive procedures performed per year

100% FTE

2016-2018 Staff Radiologist at Temple University Hospital

Musculoskeletal Radiologist

14,000 studies read per year

500 Minimally invasive procedures performed per year

100% FTE

2018-Present Staff Radiologist at University of Maryland Medical Center

Musculoskeletal and Community Radiologist

100 Minimally invasive procedures per year

70% FTE

**Development of any Clinical Programs:**

2012-2014 RSNA IHE Image Share Project

Allowing patients to access images remotely and share images across institutions

2016-2018 Musculoskeletal Ultrasonography Practice

Developed and trained technologists to implement

Musculoskeletal ultrasound across the Temple health system

**Administrative Service**

**Institutional Service**

1999-2002 Presiding Officer, George Washington University Academic

Integrity Council

2000-2001 Peer Educator, HIV and Other Sexually Transmitted Diseases

Peer Educators

2000-2001 Associate Director for Community Service, George Washington

University Student Association

2005-2006 Admissions Committee, George Washington University School of Medicine

2008-2009 Resident Council Representative, Christiana Care Health

System

2009-2013 Radiology Representative for Diversity Council, University of

Maryland School of Medicine

2009-2013 Radiology Representative for Ethics Committee, University of

Maryland School of Medicine

2014-2016 Radiology Education Committee, Dartmouth-Hitchcock Medical

Center

2015 Creator of Emergency/Trauma Radiology Residency

Curriculum, Dartmouth-Hitchcock Medical Center

2015-2016 Radiology IT Member, Dartmouth-Hitchcock Medical Center

2015-2016 Assistant Program Director for Radiology Residency,

Dartmouth-Hitchcock Medical Center

2015-2016 Director of Emergency/Trauma Radiology Education,

Dartmouth-Hitchcock Medical Center

2016 Staff Radiologist- Global Health Elective, Dartmouth-Hitchcock

Medical Center

2016-2018 Radiology Incidental Findings Quality Task Force Member,

Temple University Hospital

2016-2018 RSNA Diagnosis Live Primary Administrator, Temple

University Hospital (Audience Response Tool)

2016-2018 Director of Radiology Peer Review, Temple University

Hospital

2016-2018 Clinical Informatics Advisory Committee Member, Temple

University Hospital

2016-2018 Radiology IT Committee Member, Temple University

Hospital

2016-2018 Radiology Resident Research Committee Member, Temple

University Hospital

2016-2018 Radiology Residency Selection Committee Member, Temple

University Hospital

2017 PACS Leadership Project Committee Member, Temple

University Hospital

2017 Health IT Downtime Committee Member, Temple

University Hospital

2018 Associate Program Director of Radiology Residency,

Temple University Hospital

2018-Present Associate Program Director of Radiology Residency,

University of Maryland Medical Center

2018-Present Associate Medical Student Clerkship Director-Radiology,

University of Maryland School of Medicine

2018-Present Radiology Education Committee Member,

University of Maryland Medical Center

2018-Present RSNA Diagnosis Live Primary Administrator,

University of Maryland Medical Center

2018-Present Radiology Residency Selection Committee Member,

University of Maryland Medical Center

2018-Present Radiology Global Health Elective Director/Advisor,

University of Maryland Medical Center

2018-Present Radiology Medical Student Education Committee Member,

University of Maryland School of Medicine

**Local and National Service**

**National Service**

2010- Present Peer Reviewer, *Journal of Digital Imaging* (2x/yr)

2011-2012 IT Chair, A3CR2

2011- Present Peer Reviewer, *RadioGraphics* (2x/yr)

2014-Present Advisory Board, *Emory Undergraduate Medical Review*

2015-2016 Senior Informatics Advisor, Radiologist.tv

2015-Present Peer Reviewer, *Academic Radiology* (1x/yr)

2015-Present Items Writing Subcommittee, *American Roentgen Ray*

*Society*

2016-2017 Machine Learning Task Force Member, RRA

2017 Scientific Session Chair, Quality and Improvement

Performance: Part 2, *Society of Imaging Informatics in Medicine*

*(SIIM)* 2017 Annual Meeting

2017 Master of Ceremonies, RSNA Diagnosis Live Inaugural

Residency Competition, 2017 RSNA Annual Meeting

2017 Moderator, Tailoring Enterprise Imaging to a Value Based

Future, *SIIM* Webinar

2017-2018 Transition to Academic Faculty Task Force Member, RRA

2017-Present Consulting Editor-Question Review, *American Roentgen Ray*

*Society*

2017-Present Scientific Abstract Reviewer, *Society of Imaging Informatics in*

*Medicine*

2018 Moderator, Interactive Teaching Techniques, Alliance of

Clinician Educators in Radiology Round Table Discussion,

2018 AUR Annual Meeting

2018 Master of Ceremonies, RSNA Diagnosis Live Residency

Competition- Semifinals, 2018 RSNA Annual Meeting

2018 Master of Ceremonies, RSNA Diagnosis Live Residency

Competition- Finals, 2018 RSNA Annual Meeting

2018 Moderator, Workflow Inefficiences in Radiology, National

Imaging Informatics Curriculum small group discussion

2018 Moderator, Informatics for Patient-Centered Care in Radiology,

National Imaging Informatics Curriculum small group

discussion

2018-Present Education Committee Member, *SIIM*

2018-Present National Imaging Informatics Curriculum (NIIC) Faculty

2018-2019 AUR RRA Task Force Chair, Making Learning Fun: Gaming in

Radiology Education

**Local Service**

2000-2002 Emergency Medical Technician, Cockeysville Maryland

Volunteer Fire Company

**Teaching Service**

**Undergraduate Student Teaching**

2017-2018 Faculty Lecturer for Musculoskeletal Ultrasound Course,

Rowan College at Burlington County- “MSK ultrasound”

20 ultrasound students, 1 hour/year

**Post-Graduate Teaching**

2017-2018 Faculty Instructor for Orthopedics PA Program, Lewis

Katz School of Medicine, Temple University- “MSK Imaging”

35 PA students, 1 hour/year

2017-2018 Research Mentor, Lewis Katz School of Medicine, Temple

University

2 medical students, 3 hours/month

2017-2018 Radiology Mentor, Lewis Katz School of Medicine, Temple

University

2 medical students, 1 hour/month

**Medical Student Teaching**

2009-2013 Medical Student Lecture, University of Maryland School of Medicine- “IVC Filters and Complications”

15 3rd year UMSOM students, 12 hours/year

2010 Medical Student Mentor- UMSOM

1 medical student, regular meetings with medical student

2013-2014 Medical Student Lecture, Harvard Medical School- “Solitary

Pulmonary Nodules”

50 Harvard medical students, 12 hours/year

2013-2014 Medical Student Lecture, Harvard Medical School-

“Introduction to Musculoskeletal Imaging”

50 Harvard medical students, 12 hours/year

2014-2015 Medical Student Lecture, Geisel School of Medicine,

Dartmouth- “Knee Anatomy/Radiology Correlation”

150 Dartmouth medical students, 2 hours/year

2016-2018 Medical Student Lecture, Lewis Katz School of Medicine,

Temple University- “MSK Do Not Miss Cases”

20 Temple medical students, 13 hours/year

2017-2018 Medical Student Lecture, Lewis Katz School of Medicine,

Temple University- “Spine Imaging”

200 first year Temple medical students, 1 hour/year

**Resident and Fellow Teaching**

2013 MRI Quality Assurance and Quality Improvement Lecture

20 Residents, Harvard Medical School, 1 contact hour/year

2013-2014 Teaching Radiology fellow, Harvard Medical School

Teaching radiology residents at radiology workstation

40 residents, 8 hours/day, 12 months/year

2014-2016 Attending Physician MSK/ED Radiology

Dartmouth Hitchcock Medical Center

Teaching at radiology workstation

25 residents, 8 hours/day, 12 months/year

2016 Staff Radiologist for Global Health Elective,

Dartmouth-Hitchcock Medical Center

Teaching Radiology in Ecuador

2 residents, 1 fellow, 1 week/year

2016-2018 Attending Physician MSK Radiology

Temple University Hospital

Teaching at radiology workstation

24 residents, 8 hours/day, 12 months/year

2018-Present Attending Physician MSK/Community Radiology

University of Maryland Medical Center

Teaching at radiology workstation

40 residents, 8 hours/day, 12 months/year

2018-Present National Imaging Informatics Curriculum (NIIC) faculty

Teaching radiology residents throughout the USA

100 residents, 1 hour/day, 1 month/year

**Grant Support**

**Completed Grants**

4/18/15- 4/19/15 Faculty Participant, 5%

Clinician Development Educator Program

Grant to support new innovative teaching methods

American Roentgen Ray Society

Annual Direct Costs: $1,000

Total Direct Costs: $1,000

7/1/17- 6/1/18 Primary Investigator, 5%

Effect of 3D Printed Models on Learning Outcomes in

Radiology Residents

Temple University Intramural Grant, Center for the

Advancement of Teaching

Annual Direct Costs: $3,500

Total Direct Costs: $3,500

**Publications**

**Peer-reviewed journal articles**

1. **Awan O**, Garcia M, Awan Y, Gakhal M, Kim M, Iliescu B, Siegel E. Utility of aortic cuffs in converting initially ineligible patients due to unfavorable neck anatomy into successful candidates for endovascular aortic aneurysm repair: A case series. J Radiol Case Rep2010;4(3):1–10.
2. **Awan O,** Safdar NM, Siddiqui KM, Moffitt R, Siegel EL. Detection of cervical spine fracture on computed radiography images: a monitor resolution study. Acad Radiol2011;18:353–358.
3. **Awan O**, van Wagenberg F, Daly M, Safdar N, Nagy P. Tracking delays in report availability caused by incorrect exam status with web-based issue tracking: a quality initiative. J Digit Imaging 2011;24:300–307.
4. **Awan O**, Chen L, Resnik C. Imaging Evaluation of Complications of Hip Arthroplasty: Review of Current Concepts and Imaging Findings. Can Assoc Radiol J 2013;64(4):306-13.
5. Princewill K, Kyere S, **Awan O**, Mulligan M. Multiple Myeloma Lesion

Detection with Whole Body CT versus Radiographic Skeletal Survey. Cancer Invest2013 Mar; 31 (3): 206-11.

6. **Awan O**, Wu J, Eisenberg R. Imaging of Focal Sclerotic Bone Lesions. *C*ontemporary Diagnostic Radiology2015; 38(5): 1-8.

1. **Awan O,** Wu J, Eisenberg R. Imaging of Multifocal and Diffuse Sclerotic Bone Lesions. Contemporary Diagnostic Radiology2015; 38(6): 1-8.
2. **Awan O,** Graham J. The rare cuboid navicular coalition presenting as chronic foot pain. Case Rep Radiol 2015; 2015: 625285.
3. Shaikh F, Pagedar N, **Awan O**, McNeely P. Sinonasal NUT-Midline Carcinoma- A Multimodality Approach to Diagnosis, Staging, and Post-Surgical Restaging. Cureus 2015 Jul 26; 7(7):e288.
4. Shaikh F, **Awan O**, Khan SA. 18F-FDG PET/CT Imaging of Gallbladder Adenocarcinoma- APictorial Review. Cureus 2015 Aug 9; 7(8): e298.
5. Shaikh F, Chan AC, **Awan O,** Jerath N, Reddy C, Khan SA, Graham MM. Diagnostic Yield of FDG-PET/CT, MRI, and CSF Cytology in Non-Biopsiable Neurolymphomatosis as a Heralding Sign of Recurrent Non-Hodgkin’s Lymphoma. Cureus 2015 Sept 9; 7(9): e319.
6. Shaikh F, Savells D, **Awan O**, Inayat F, Chaudhry A, Jerath N, Graham MM. Quantitative Imaging Analysis of FDG/PET CT Imaging for Detection of Central Neurolymphomatosis in a Case of Recurrent Diffuse B-Cell Lymphoma. Cureus2015 Nov 13; 7(11): e379.
7. Shaikh F, **Awan O**, Mohiuddin S, Farooqui S, Khan SA, McCartney W. 18F-FDG PET/CT Imaging of Extranodal Rosai-Dorfman Disease with Hepatopancreatic Involvement- A Pictorial and Literature Review. Cureus 2015 Dec 3; 7(12): e392.
8. **Awan O,** Awan Y, Fossett J, Fossett R, Mendelson D, Siegel

EL. Patient Engagement: The Experience of the RSNA Image Share Patient Help Desk. *J* Am Coll Radiol 2015 Dec; 12 (12 Pt A): 1289-1292.

1. Hiremath A, **Awan O\*,** Mendelson D, Siegel EL. Patient Perceptions of Participation in the RSNA Image Share Project: a Preliminary Study. J Digit Imaging 2016 Apr; 29(2): 189-94.
2. Balkman, J, **Awan O**. A platform independent plugin for navigating

online radiology cases. J Digit Imaging 2016 Jun; 29(3): 321-4.

1. Fenerty S, Ling S, , **Awan O**, Jonnalagadda P, Ali S. Case in Point S4395.

Posterior Sternoclavicular Dislocation. ACR Case in Point; 8/29/16.

1. Anvari E, Rooney T, **Awan O**. Challenges and Insights of a Global Radiology Elective in Ecuador. J Am Coll Radiol 2016 Sep; 13(9): 1118-20.
2. Fenerty S, Ling S, Wang C, **Awan O**, Ali S. Test yourself- painless hand mass. Skeletal Radiol 2017 March; 46(3): 359-360.
3. Fenerty S, Ling S, Wang C, **Awan O**, Ali S. Painless hand mass. Skeletal Radiol 2017 March; 46(3): 405-407.
4. Shaikh F, **Awan O**, Kolowitz B, von Reden A, Aerts H, Halabi S, Mohiuddin S, Malik S, Shrestha R, Deible C. Technical challenges in the Clinical Applications of Radiomics. JCO Clinical Cancer Informatics 2017 May 4; DOI:10.1200/CCI.17.00004.
5. Shaikh F, Hendrata K, Kolowitz B, **Awan O,** , Shrestha R, Deible C. Value-

based assessment of Radiology Reporting using Radiologist-Referrer Two-Way Feedback System- a Design Thinking-based analysis. J Digit Imaging 2017 June; 30(3): 267-274.

1. **Awan O**, Shaikh F, Kalbfleisch B, Siegel E, Chang P. RSNA Diagnosis Live: A

Novel Web Based Audience Response Tool to Promote Evidence-Based Learning. RadioGraphics 2017 Jul-Aug; 37(4): 1111-1118.

1. Shaikh F, Inayat F, **Awan O**, Santos MD, Choudhry AM, Waheed A, Kajal D,

Tuli S. Computer-Assisted Learning Applications in Health Educational Economics: A Review. Cureus 2017 Aug; 9(8): e1559.

1. Dako F, Wray R, **Awan O,** Subramaniam R. Adapting a Standardized, Industry-Proven Tool to Measure Patients’ Perceptions of Quality at the Point of Care in a PET-CT Center. J Nucl Med Technol 2017 Dec; 45(4): 285-289.
2. Shaikh F, Franc B, Allen E, Sala E, **Awan O**, Hendrata K, Halabi S, Mohiuddin S, Malik S, Shrestha R. Translational Radiomics: Defining the Strategy Pipeline and Considerations for Application- Part 1: From Methodology to Clinical Implementation. J Am Coll Radiol 2018 March; 15(3 Pt B): 538-542.
3. Shaikh F, Franc B, Allen E, Sala E, **Awan O**, Hendrata K, Halabi S, Mohiuddin S, Malik S, Shrestha R. Translational Radiomics: Defining the Strategy Pipeline and Considerations for Application- Part 2: From Clinical Implementation to Enterprise. J Am Coll Radiol 2018 March: 15(3 Pt B): 543-549.
4. Bhattacharya A, Fenerty S, **Awan O**, Hershey B, Cohen G, Ling S, Ali S.

Imaging Patterns of Injuries Following the 2015 Amtrak Philadelphia Train

Derailment. AJR Am J Roentgenol 2018 May; 210(5): 948-961.

1. Shaikh F, Von Reden A, Kolowitz B, **Awan O**, Shrestha R. Clinical Context Generation for Imaging: A Design Thinking-based Analysis of a Pilot Project. Cureus 2018 Jul 30; 10(7):e3063.
2. **Awan OA**, Dako F. Reply: Use of Parametric Test to Analyze Ordinal Data. J Nucl Med Technol 2018 Sep; 46(3): 318.

31. McBee MP, **Awan OA**, Colucci AT, Ghobadi CW, Kadom N, Kansagra AP, Tridandapani S, Auffermann WF. Deep Learning in Radiology. Acad Radiol 2018 Nov; 25(11): 1472-1480.

32**. Awan OA**, Sheth M, Sullivan I, Hussain J, Jonnalagadda P, Ling S, Ali S.

Efficacy of 3D Printed Models on Resident Learning and Understanding of Common Acetabular Fractures. Acad Radiol 2018 Jul 30: pii: S1076-6332(18)30326-X.

1. Bhattacharya A, Fenerty S, **Awan O**, Hershey B, Cohen G, Ling S, Ali S. The 2015 Amtrak Philadelphia Train Derailment: After-Action Review of the Emergency Radiology Response at a University Health System. Accepted for publication in J Am Coll Radiol on 10/2/18.
2. Gupta Y, Ling S, **Awan O**, Jonnalagadda P, Fenerty S, Ali S. Bursal Lipohematoma: A CT Sign of Full Thickness Rotator Cuff Tear in Patients with Proximal Humerus Fractures. Accepted for publication in Emerg Radiol on 10/5/18.
3. Husain J, Ali S, Montecalvo N, Panaro J, **Awan O**. Worsening Right Hip Pain. Skeletal Radiol 2018 Oct 31.
4. Khan H, Ling S, Ali S, Jonnalagadda P, Ramsey F, Weiner M, **Awan O**. Sciatic nerve variants in patients diagnosed with sciatica: Is there a correlation? Submitted to Can Assoc Radiol J on 9/22/18.
5. **Awan O**, Dako F, Akhter T, Hava S, Shaikh F, Ali S, Chang P. Utilizing Audience Response to Foster Evidence Based Learning in a Pilot Study: Does it really work? Submitted to Perspect Med Educ on 10/13/18.
6. Bhattacharya A, Fenerty S, Taqi I, **Awan O**, Jonnalagadda P, Ling S, Ali S. Type 1 Repetitive Strain Injuries of the Upper Extremity: The Role of Imaging. Submitted to Can Assoc Radiol J on 10/15/18.

**Non-peer reviewed journal articles**

1. Princewill K, **Awan O**, Ali M, Awan Y, Iliescu B. Inferior vena cava filters:

a contemporary review. *Appl Radiol.* 2011;40(3):10–17.

2. **Awan O**. The Flipped Classroom: A Reflection on the Master Teacher

Observation. *Academy Insights*. 2014 May; 5 (1).

3. Shaikh F, **Awan O**. Multimodality Imaging for Malignant Tranformation

Assessment in Neurofibromatosis Type 1. OMICS J Radiol 2016; 5:1.

**Web based book chapters**

1. **Awan O**, Awan Y, Clossin D. Study Guide on Chapter 19: Pleura, Chest Wall, Diaphragm, and Miscellaneous Chest Disorders. In: Brant WE and Helms CA, eds. Fundamentals of Diagnostic Radiology, 4th ed- online version. Philadelphia: Lippincott, Williams, & Wilkins. 2012. Available at [http://solution.lww.com/fundamentalsradiology4e](http://solution.lww.com/fundamentalsradiology4e" \t "_blank).

**Book Chapters**

1. Hadley C, **Awan O**, Zoarski GH. Biomechanics of vertebral bone augmentation. *Neuroimaging Clin N Am.* 2010;20:159–67.
2. Lu M, Chen JJS, **Awan O**, White CS. Evaluation of bypass grafts and stents. *Radiol Clin N Am.* 2010;48:757–770.

**Published Multimedia**

1. **Awan O.** WIDI ACR pre call case videos for online on call examination for

Residents. 25 online videos with real life cases for online pre call preparatory examination in conjunction with University of Florida and the American College of Radiology; May 23 2015.

**Abstracts and/or Proceedings**

1. Wilde G, **Awan O**,Gakhal M. Low T2 signal in the foot and ankle: classic lesions and less familiar entities. Electronic exhibit. American Roentgen Ray Society 109th Annual Meeting, Boston, MA, April 26- May 1 2009.
2. **Awan O**, van Wagenberg F, Daly M, Safdar N, Nagy P. Automatically tracking delays in report availability caused by incorrect exam status with Web-based issue tracking: a quality initiative. Oral Presentation. Association of University Radiologists Annual Meeting, San Diego, CA, March 25 2010.
3. Mohiuddin S, Lakhani P, Alvi F, **Awan O**, Mukai J, Safdar N, Siegel E. Effect of baroque classical music on mood, concentration, perceived diagnostic accuracy, productivity, and work satisfaction of diagnostic radiologists. Poster presentation. ACR Annual Meeting and Chapter Leadership Conference, Washington, DC, May 15- May 19 2010.
4. **Awan O**, Weiss F, Kaloudis E, Jeudy J, Gammie J, White C. Clinical and imaging features of aortic valve bypass surgery. Computer educational exhibit. Radiological Society of North America 96th Annual Meeting, Chicago, IL, November 28- December 3 2010.
5. Princewill K, Kyere S, Mulligan M, **Awan O.** Multiple Myeloma Lesion Detection with Whole Body CT versus Radiographic Skeletal Survey. Poster presentation. American Roentgen Ray Society Conference, Vancouver, Canada, April 29- May 4 2012.
6. **Awan O**, Chen L, Resnik C. Imaging Evaluation of Complications of Hip Arthroplasty - Review of Current Concepts and Imaging Findings with Emphasis on Radiograph, Computed Tomography and Magnetic Resonance Imaging. Computer educational exhibit. American Roentgen Ray Society Conference, Vancouver, Canada, April 29- May 4 2012.
7. Awan Y, Kunce A, Fossett J, **Awan O**, Chen J, Siegel E. The RSNA’s Image Share Project: Initial Challenges from the Patient’s Perspective. Oral presentation. Radiological Society of North America 98th Annual Meeting, Chicago, IL, November 25 2012.
8. **Awan O**. The RSNA’s Image Sharing Project. Oral presentation.

98th Radiological Soceity of North America Meeting, Chicago, IL,

November 25 2012.

1. **Awan O**. The RSNA’s Image Sharing Project. Oral presentation.

99th Radiological Soceity of North America Meeting, Chicago, IL,

December 2 2013.

1. Mohiuddin S, Qureishi I, Vasquez D, Acuna D, Khan R, Alizail H, **Awan O,**

Berger R. Lumbar Sacralization on CT and its Association with Lumbar Fractures in Motor Vehicle Accident Patients. Computer electronic exhibit. American Society of Spine Radiology Symposium, Miami, FL, Febraury 13- 16 2014.

1. Shaikh F, Bernard S, **Awan O**, Sheikh A. FDG/PET CT Imaging of Gallbladder Adenocarcinoma with MR correlation. Poster presentation. Society of Nuclear Medicine and Molecular Imaging Annual Meeting, Baltimore, MD, June 6- 10 2015.
2. Fenerty S, Jonnalagadda P, **Awan O**, Ling S, Ali S. Skeletal “Do Not Touch Lesions”: from head to toe. Computer electronic exhibit. Annual Meeting of the Pennsylvania Radiological Society, Philadelphia, PA, September 16-17 2016.
3. Fenerty S, Jonnalagadda P, **Awan O**, Ling S, Ali S. Flexor Digitorum Longus- Tibialis Posterior Intersection Syndrome: An unusual cause of ankle pain, and review of the anatomy of the Chiasma Crurale. Computer electronic exhibit. Annual Meeting of the Pennsylvania Radiological Society, Philadelphia, PA, September 16-17 2016.
4. Fenerty S, Meyr A, Sansosti L, Jonnalagadda P, **Awan O**, Ling S, Ali S. Flatfoot deformity: radiologic evaluation, corrective surgery, and expected postoperative appearance. Computer electronic exhibit. Annual Meeting of the Pennsylvania Radiological Society, Philadelphia, PA, September 16-17 2016.
5. Griffin N, Fenerty S, Ling S, Jonnalagadda P, **Awan O**, Ali S. Normal tendon variations influence the spread of infection: the foot and wrist as examples. Computer electronic exhibit. Annual Meeting of the Pennsylvania Radiological Society, Philadelphia, PA, September 16-17 2016.
6. Fenerty S, Jonnalagadda P, **Awan O**, Ling S, Ali S. The Os Interphalangeus Syndrome: An Uncommon and Under-Recognized Cause of Great Toe pain. Computer electronic exhibit. Annual Meeting of the Pennsylvania Radiological Society, Philadelphia, PA, September 16-17 2016.
7. Fenerty S, Jonnalagadda P, **Awan O**, Ling S, Ali S. Great toe pain: a review of the imaging and clinical characteristics. Computer electronic exhibit. Annual Meeting of the Pennsylvania Radiological Society, Philadelphia, PA, September 16-17 2016.
8. Fenerty S, Jonnalagadda P, **Awan O**, Ling S, Ali S. Upper Extremity Repetitive Strain Injuries: The Spectrum of Findings and their Implications. Computer electronic exhibit. Annual Meeting of the Pennsylvania Radiological Society, Philadelphia, PA, September 16-17 2016.
9. Fenerty S, **Awan O**, Jonnalagadda P, Ali S, Ling S. Tendon Intersection Syndromes of the Hand and Wrist. Computer electronic exhibit. Annual Meeting of the Pennsylvania Radiological Society, Philadelphia, PA, September 16-17 2016.
10. Fenerty S, Jonnalagadda P, **Awan O**, Ling S, Ali S. Ulnar-Sided Wrist Pain: a review of imaging and clinical features. Computer electronic exhibit. Annual Meeting of the Pennsylvania Radiological Society, Philadelphia, PA, September 16-17 2016.
11. Jonnalagadda P, Fenerty S, Kaplan S, Ling S, **Awan O**, Ali S. Soft Tissue Pathology on Trauma CT Scans: A Frequently Overlooked Entity. Computer electronic exhibit. Annual Meeting of the Radiological Association of North America, Chicago, IL, November 26-December 2 2016.
12. Ling S, Fenerty S, Jonnalagadda P, **Awan O**, Ali S. Tendon Slips Passing in the Night: Intersection Syndromes of the Extremities. Computer electronic exhibit. Annual Meeting of the Radiological Association of North America, Chicago, IL, November 26-December 2 2016.
13. Ali S, Fenerty S, Jonnalagadda P, **Awan O**, Ling S. Fatty Lesions of Bone: The Spectrum of Findings of an Uncommon Entity. Electronic poster presentation. Annual Meeting of the Society of Skeletal Radiology, Santa Barbara, CA, March 19-22 2017.
14. **Awan O,** Fenerty S, Jonnalagadda P, Ling S, Ali S. Spectrum of MRI Bone Marrow Contusion Patterns in the Traumatic Knee. Electronic poster presentation. Annual Meeting of the Association of University Radiologists, Hollywood, FL, May 8-11 2017.
15. Ling S, **Awan O**, Fenerty S, Jonnalagadda P, Ali S. Myositis Ossificans: A Potentially Dangerous Tumor Like Lesion of the Soft Tissues. Poster presentation. Annual Meeting of the Association of University Radiologists, Hollywood, FL, May 8-11 2017.
16. Bhattacharya A, Fenerty S, **Awan O**, Belden C, Jonnalagadda P, Ling S, Ali S. The 2015 Amtrak Philadelphia train derailment: a review of Temple University Hospital’s emergency radiology response. Poster presentation. Annual Meeting of the Association of University Radiologists, Hollywood, FL, May 8-11 2017.
17. Bhattacharya A, Fenerty S, **Awan O**, Belden C, Jonnalagadda P, Ling S, Ali S. Radiologic Pattern of Injuries following the 2015 Amtrak Philadelphia Train Derailment. Poster presentation. Annual Meeting of the Association of University Radiologists, Hollywood, FL, May 8-11 2017.
18. Shaikh F, **Awan O,** Deible C, Kolowitz B, Hendrata K, Allen E. Radiomics- Current challenges in Clinical validation. Poster presentation. Annual Meeting of the Society of Imaging Informatics in Medicine (SIIM), Pittsburgh, PA, June 1-3 2017.
19. Hava S, Goldbach A, Fenerty S, Ling S, Jonnalagadda P, **Awan O**, Ali S. Calcium Hydroxyapatite Deposition Disease: The Spectrum of Findings. Computer based Electronic Poster. Annual Meeting of the Radiological Society of North America (RSNA), Chicago, IL, November 26- December 1 2017.
20. Khan H, Fierst T, Jonnalagadda P, Ling S, Ali S, **Awan O**. Sciatic Nerve Variants in Patients Diagnosed with Sciatica: Is there a Correlation? Oral Presentation. Annual Meeting of the Society of Skeletal Radiology (SSR), Austin, TX, March 25-28 2018.
21. Jonnalagadda P, **Awan O**, Ling S, Ali S. Lipomatous Soft Tissue Lesions of the Extremities: A Radiopathological Pictorial Review. Electronic Exhibit. Annual Meeting of the American Roentgen Ray Society (ARRS), Washington D.C., April 22-27 2018.
22. Sheth M, Sullivan I, Hussain J, Ling S, Ali S, **Awan O**. Efficacy of 3D Printed Models on Resident Learning and Understanding of Common Acetabular Fractures. Oral Presentation. Annual Meeting of the Association of University Radiologists (AUR), Orlando, FL, May 7-10 2018.
23. Goldbach A, Hava S, Ling S, Jonnalagadda P, **Awan O**, Ali S. Painful corners of the ankle: Keeping an Eye on the Periphery. Computer electronic exhibit. Annual Meeting of the Radiological Society of North America (RSNA), Chicago, IL, November 24-30 2018.
24. Hava S. Goldbach A, Levy N, Ling S, **Awan O**, Jonnalagadda P, Ali S. Musculoskeletal Manifestations of Recreational Drug Abuse. Computer electronic exhibit. Annual Meeting of the Radiological Society of North America (RSNA), Chicago, IL, November 24-30 2018.
25. Jonnalagadda P, Hava S, Goldbach A, **Awan O**, Ling S, Ali S. Work Related Musculoskeletal Disorders in Radiologists and Reading Room Ergonomics. Computer electronic exhibit. Annual Meeting of the Radiological Society of North America (RSNA), Chicago, IL, November 24-30 2018.
26. Mohla A, Gattu R, **Awan O,** Awan Y. Case Based Review of Splenic Aneurysms and Pseudoaneurysms. Educational Poster Exhibit. Annual Meeting of the Society of Interventional Radiology (SIR), Austin, TX, March 23-28 2019.
27. **Awan O**, Dako F, Akhter T, Hava S, Shaikh F, Ali S, Chang P. Utilizing Audience Response to Foster Evidence Based Learning: Does it really work? Oral Presentation. Annual Meeting of the Association of University Radiologists (AUR), Baltimore, MD, April 9-12 2019.
28. Bhattacharya A, Goldbach A, Zlotolow D, **Awan O**, Ali S. Congenital Forearm Dysplasias. Computer educational exhibit. Annual Meeting of the American Roentgen Ray Society (ARRS), Honolulu, HI, May 5-10 2019.
29. Jonnalagadda P, Levy N, **Awan O**, Ling S, Ali S. Cyst and Cyst Mimickers In and Around the Knee Soft Tissues. Computer educational exhibit. Annual Meeting of the American Roentgen Ray Society (ARRS), Honolulu, HI, May 5-10 2019.
30. Veselis C, Khurana J, **Awan O**, Jonnalagadda P, Ali S. Bone Tumors Occuring in the Soft Tissues: A review of the Clinical, Histopathologic, and Imaging Findings. Computer educational exhibit. Annual Meeting of the American Roentgen Ray Society (ARRS), Honolulu, HI, May 5-10 2019.

**Major Invited Speeches**

Local

1. **Awan O**. MSK Do Not Miss Cases, Massachusetts Radiological Society Residents/Fellow Section, Boston Medical Center, Boston, MA, 2013.
2. **Awan O**. MRI Quality Assurance and Quality Improvement: A Year in Review, Beth Israel Deaconess Medical Center/Harvard Medical School, Boston, MA, 2013.

National

1. **Awan O**. APPNA Career Advice and Advancement Panel, Association of Physicians of Pakistani Descent of North America, Washington D.C., 2014.
2. **Awan O**. Primer on Cervical Spine Trauma, Children’s National Medical Center, Washington D.C., 2014.
3. **Awan O**. Musculoskeletal and Nuclear Medicine Board Review, Beth Israel Deaconess Medical Center/Harvard Medical School, Boston, MA, 2015.
4. **Awan O.** Value-Based Healthcare for Radiologists, Radiologist.tv <https://www.youtube.com/watch?v=hc-Szp1CSTQ> , 2015.
5. **Awan O**. Primer on Cervical Trauma, Radiologist.tv, <https://www.youtube.com/watch?v=5oHkqOn5FbA> , 2015.
6. **Awan O**. Primer for Diagnosing Common Acetabular Fractures, New England Roentgen Ray Society (NERRS), Harvard Medical School, Boston, MA, 2015.
7. **Awan O**. Creating, Storing, and Sharing Teaching Files Using RSNA’s MIRC (Hands-On), RSNA, RSNA Annual Meeting, Chicago, IL, 2015.
8. **Awan O**. Musculoskeletal Radiology Case Conference, Medstar Georgetown University Hospital, Washington D.C., 2016.
9. **Awan O**. Active Learning- Team Games: Augmenting Resident Education with RSNA Diagnosis Live, Association of University Radiologists (AUR), AUR Annual Meeting Teaching Certificate Program, San Diego, CA, 2016.
10. **Awan O**. Musculoskeletal Imaging Board Review, University of Maryland Medical Center, Baltimore, MD, 2016.
11. **Awan O**. RSNA Diagnosis Live: Musculoskeletal Cases- Refresher CME Course, RSNA, RSNA Annual Meeting, Chicago, IL, 2016.
12. **Awan O**. Musculoskeletal Imaging Board Review, University of Maryland Medical Center, Baltimore, MD, 2017.
13. **Awan O**. Medical Imaging Informatics: Standards and Terminology, Society of Imaging Informatics in Medicine (SIIM), SIIM Annual Meeting Imaging Informatics Professional (IIP) Bootcamp, Pittsburgh, PA, 2017.
14. **Awan O**. RSNA Diagnosis Live: Musculoskeletal Cases- Refresher CME Course, RSNA, RSNA Annual Meeting, Chicago, IL, 2017.
15. **Awan O**. Musculoskeletal Imaging Board Review, University of Maryland Medical Center, Baltimore, MD, 2018.
16. **Awan O**. Musculoskeletal Imaging Case Review for the Radiology Residency ABR Core Exam, Association of University Radiologists (AUR), 2018 AUR Annual Meeting, Orlando, FL, 2018.
17. **Awan O**. Medical Imaging Informatics: Standards and Terminology,

Society of Imaging Informatics in Medicine (SIIM), SIIM Annual Meeting Imaging Informatics Professional (IIP) Bootcamp, Washington D.C., 2018.

1. **Awan O.** RSNA Diagnosis Live: Musculoskeletal Cases- Refresher CME

Course, RSNA, 2018 RSNA Annual Meeting, Chicago, IL, 2018.

1. **Awan O**. “What makes a great teacher?” Association of University Radiologists (AUR), 2019 AUR Annual Meeting, Baltimore, MD, 2019.
2. **Awan O**. Helpful tips for the Successful Educator, Association of University Radiologists (AUR), 2019 AUR Annual Meeting, Baltimore, MD, 2019.
3. **Awan O**. Making Learning Fun: Gaming in Radiology Education, A Report from the Radiology Research Alliance Task Force. Association of University Radiologists (AUR), 2019 AUR Annual Meeting, Baltimore, MD, 2019.
4. **Awan O**. 2019 Approach to Diagnosis: A Case-Based Imaging Review Course. Musculoskeletal Joint Rapid Fire Cases, American Roentgen Ray Society (ARRS), 2019 ARRS Annual Meeting, Honolulu, HI, 2019.

International

1. **Awan O**. Introduction to Musculoskeletal Imaging, Navy Hospital, Guayaquil, Ecuador, 2016.
2. **Awan O**. Musculoskeletal Do Not Miss Cases, Navy Hospital, Guayaquil, Ecuador, 2016.
3. **Awan O**. Musculoskeletal Fractures, Navy Hospital, Guayaquil, Ecuador, 2016.

**Omer Awan MD MPH CIIP**

**Explanation of Time Gaps on CV**

2003-2004 Pursuing independent religious studies, and not affiliated with any institution