

Personal Information

Full Name: Josephina A. Vossen, M.D., Ph.D.

Title: Assistant Professor, Musculoskeletal Imaging & Intervention, Department of Radiology, Medical Director, Stony Point Radiology, Fellowship Director, Musculoskeletal Imaging & Intervention, Program Director, Radiology Residency

Business Name: Virginia Commonwealth University Health System

Business Address: 1250 East Marshall Street, Richmond, Virginia 23298

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Languages Spoken: English, Dutch, German (conversational), Spanish (basic)

Professional Summary

Primary Departmental Specialization Area/Field

Musculoskeletal Imaging and Intervention

Areas of Expertise and Interest

Musculoskeletal Ultrasound

Musculoskeletal Intervention

Musculoskeletal MRI

Education

Post Graduate

Fellowship, Musculoskeletal Imaging & Intervention

Massachusetts General Hospital

Department of Radiology

Boston, Massachusetts

07/2014 - 06/2015

Residency, Diagnostic Radiology

Bridgeport Hospital / Yale New Haven Health System

Department of Radiology

Bridgeport, Connecticut

07/2010 - 06/2014

Internship, General Surgery

Lenox Hill Hospital

Department of Surgery

New York City, New York

07/2009 - 06/2010

Postdoctoral Research Fellowship

Johns Hopkins University School of Medicine
Department of Radiology, Interventional Radiology and Oncology
Baltimore, Maryland
Supervisors: Dr. JF Geschwind, Dr. IR Kamel, and Dr. M Vali
10/2006 - 10/2009

Graduate Certificate in Leadership and Management in the Life Sciences

Johns Hopkins Carey School of Business
Baltimore, Maryland
Cumulative GPA: 3.90/4.00
09/2007 - 05/2008

Graduate

Doctorate in Medicine (M.D.)

Maastricht University, School of Medicine
Maastricht, Netherlands
Cumulative GPA: 3.71/4.00
09/2000 - 09/2006

Doctor of Philosophy in Medicine (Ph.D.)

Utrecht University, School of Medicine
Utrecht, Netherlands
Thesis subject: Intra-arterial treatment of primary and metastatic liver tumors
Thesis advisors: Prof. Dr. PJ van Diest, Dr. JF Geschwind
10/2006 - 06/2009

Certification & Licensure

Licensure

Certified Clinical Densitometry Exam-Passed
12/2016

Virginia State Board Medical License
05/2015

Massachusetts State Board Medical License (Inactive)
05/2014

Federal Controlled Substance (DEA) Registration
05/2014

American Board of Radiology Certifying Exam-Passed
10/2015

American Board of Radiology Core Exam-Passed
10/2013

Advanced Cardiac Life Support (re-certified 1/2019)

07/2009

Basic Life Support (re-certified 11/2013)
07/2009

USMLE: Step 3-Passed
04/2009

USMLE: Step 2 CK & CS-Passed
09/2008

USMLE: Step 1-Passed
07/2008

Certification

Virginia State Board Medical License (5/2015)
05/2015

Massachusetts State Board Medical License (5/2014)
05/2014

American Board of Radiology Certifying Exam – Passed (10/2015)
10/2015

American Board of Radiology Core Exam – Passed (10/2013)
10/2013

Advanced Cardiac Life Support (7/2009; re-certified 1/2019)
06/2016

Basic Life Support (7/2009; re-certified 11/2013)
11/2013

USMLE step 3 – Passed (4/2009)
04/2009

USMLE step 2 CK & CS – Passed (9/2008 & 9/2008)
09/2008

USMLE step 1 – Passed (7/2008)
07/2008

Hospital Appointments

Virginia Commonwealth University Medical Center
08/2015 - Present

Vibra Hospital of Richmond
08/2015 - Present

Academic Appointment History

Radiology Residency Program Director, Department of Radiology, Virginia Commonwealth University Medical Center, Richmond, Virginia
07/2019 - Present

MSK Radiology Fellowship Director, Department of Radiology, Virginia Commonwealth University Medical Center, Richmond, Virginia
07/2018 - Present

Medical Director, MSK/Stony Point Radiology, Department of Radiology, Virginia Commonwealth University Medical Center, Richmond, Virginia
03/2016 - Present

Assistant Professor, Musculoskeletal Imaging and Intervention, Department of Radiology, Virginia Commonwealth University Medical Center, Richmond, Virginia
08/2015 - Present

Employment History

Attending Physician, Department of Radiology, VCU Health, Richmond, Virginia
08/2015 - Present

Special Awards & Honors

Radiological Society of North America (RSNA) 2017, Cum Laude Award for Education Exhibit
1 of 65 given out of 1607 exhibits
12/2017

Klaus Ranniger Memorial Award for Excellence in Teaching
Selected by the VCU Radiology Residents.
07/2017

2017 Shining Knight Award, Virginia Commonwealth University Medical Center Trauma Program
Recognition of care provided to trauma patients
05/2017

Radiological Society of North America (RSNA) 2016, Certificate of Merit Award for Education Exhibit
1 of 302 given out of 2960 exhibits
12/2016

Radiology Leadership Institute Leadership Summit Scholarship
Includes full tuition, lodging, and travel
Program of the American College of Radiology (ACR) to attend the RLI Leadership Summit at Babson College in Wellesley, MA.
08/2014

Connecticut Resident Delegate for ACR Annual Meeting
04/2014

Radiological Society of North America (RSNA): Roentgen Research Award
Selected by residency program director and department chair to recognize outstanding resident who has advanced radiologic research.
07/2013

RSNA/AUR/ARRS "Introduction to Academic Radiology Program" Scholarship
Includes full tuition, lodging, and travel
In-person course focused on the importance of research in diagnostic radiology and the excitement of academic careers in radiology
04/2012

Radiological Society of North America (RSNA) 2011, Excellence in Design Award for Education Exhibit
12/2011

University of Maastricht (UM) fund International research experience grant
Subject: Clinical management of patients with liver cancer. Trends in colorectal surgery.
01/2006

European Region Action Scheme for the Mobility of University Students (ERASMUS) fund; European Union study grant.
01/2004

Society Memberships

Society of Skeletal Radiology
2016 - Present

Richmond Academy of Medicine
2015 - Present

Richmond Radiological Society
2015 - Present

American College of Radiology
2008 - Present

Radiological Society of North America
2007 - Present

American Roentgen Ray Society
2007 - Present

American Association for Cancer Research
2008 - 2010

Society of Interventional Radiology
2007 - 2012

Scholarly Activities

Expert Services

Reviewer **Skeletal Radiology**

2014 - Present

Reviewer **Radiology**

2010 - Present

Patents, Inventions, and Copyrights

A New Formulation of 3-Bromopyruvate for Safe Systemic Administration as an Anti-Cancer Agent; Report of Invention (JHU Ref#: C10445)

Inventors : Geschwind JF, Vali M, Buijs M, Vossen JA

2008

Advising and Mentoring

Daniel Chu: Radiology resident at VCU. Supervised a research project which resulted in a podium presentation presented at a national meeting. "Enchondroma Size Among Different Age Groups: An Institutional Review." ARRS Annual Meeting, Honolulu, HI, 2019.

2019 - Present

Stephen Weiner: Medical student at VCU. Currently working on a research project together.

2018 - Present

Chris Goodman: Radiology fellow at VCU. Supervised an educational exhibit presented at a national meeting. "Calcaneal Trauma: What the Orthopedist Wants to Know." 104th RSNA Annual Meeting, Chicago, IL, 2018.

2018 - Present

Samarth Gola: Radiology resident at VCU. Supervised the submission of an interesting case to the ACR Case in Point: Quadrilateral space syndrome. Case accepted and published 5/21/2019.

2018 - Present

Soobin Kang: Radiology resident at VCU. Multiple research projects. 1) Supervised the submission of an interesting case to the ACR Case in Point: Glenolabral articular disruption lesion (GLAD). Case accepted and published 11/5/2018. 2) Collaborated on a poster presentation presented at a national meeting "Isolated Posterior Malleolar Fractures: A Pictorial Review." ARRS Annual Meeting, Honolulu, HI, 2019.

2018 - Present

Christopher Ovanez: Radiology resident at VCU. Supervised the submission of an interesting case to the ACR Case in Point: Spinoglenoid notch cyst. Case accepted and will be published this year.

2018 - Present

Mashya Abbassi: 2017-present. Medical student at VCU. Developed multiple research projects together, which resulted in 2 podium presentations at national meetings (Accessory anterolateral talar facet: Correlating MRI findings in an anatomic variant. ARRS Annual Meeting, New Orleans, LA, 2017; Tarsal coalition and the accessory anterolateral facet. 104th RSNA Annual Meeting, Chicago, IL, 2018). Guided him in obtaining a radiology residency position.

2017 - Present

Candice Kim: 2017-present. Medical student at VCU. Worked on a research project together, which resulted in a poster presentation at a national meeting (Periosteal reaction as the only visualized sign of osteonecrosis on radiographs. SSR Annual Meeting, Austin, TX, 2018). Guided her in obtaining a radiology residency position.

2017 - Present

Leah Ahn: 2016-present. Resident at VCU. Developed multiple research projects together, which resulted in 2 presentations at national meetings (Temporomandibular Joint: An Imaging Primer. 104th RSNA Annual Meeting, Chicago, IL, 2018.; Reverse Total Shoulder Arthroplasty: Comparative Study of the Superolateral vs. Deltopectoral Approach. ARRS Annual Meeting, Honolulu, HI, 2019.). Guided her in career decisions, including applying for and obtaining a radiology residency position.

2016 - Present

Michael Perone: Radiology resident at VCU. Collaborated on 2 research posters presented at national meetings. 1) "MRI interpretation rather than tissue diagnosis determines acute osteomyelitis management: one institution's experience." SSR Annual Meeting, Austin, TX, 2018. 2) "Lumbosacral Transitional Vertebrae: A Pictorial Review." ARRS Annual Meeting, Honolulu, HI, 2019.

2016 - Present

Heath Petty: Radiology fellow at VCU. Supervised an educational exhibit presented at a national meeting. "The antibiotic spacer: What every radiologist should know." 103rd RSNA Annual Meeting, Chicago, IL, 2017. This exhibit was also awarded a CME Lunch Hour Discussion Session

2017 - 2018

Matthew Herczyk: Radiology fellow at VCU. Collaborated on an educational exhibit presented at a national meeting. "Talar trauma: What the orthopedist wants to know." 103rd RSNA Annual Meeting, Chicago, IL, 2017. This presentation was awarded the Cum Laude Award

2017 - 2018

Seth Mather: Radiology fellow at VCU. Supervised an educational exhibit presented at a national meeting. "Post-traumatic heterotopic ossification: A pictorial review." 103rd RSNA Annual Meeting, Chicago, IL, 2017.

2017 - 2018

Perry Myrick: Radiology resident at VCU. Multiple research projects resulted in poster presentations at national meetings, Including 1) Pelvic trauma: What every radiologist should know. 102th RSNA Annual Meeting, Chicago, IL, 2016. 2) Palpable hand and

wrist masses. ARRS Annual Meeting, New Orleans, LA, 2017.
2016 - 2017

Scott Berl: Radiology fellow at VCU. Supervised an educational exhibit presented at a national meeting. "Imaging of hip dysplasia and periacetabular osteotomy: What the orthopedist wants to know." (ARRS Annual Meeting, New Orleans, LA, 2017.)
2016 - 2017

Joyce Veld: 2015. Medical exchange student at MGH. Provided direct supervision during the manuscript preparation of a research project. This research was published (Veld J, Vossen JA, De Amorim Bernstein K, Halpern EF, Torriani M, Bredella MA. Adipose tissue and muscle attenuation as novel biomarkers predicting mortality in patients with extremity sarcomas. Eur Radiol. 2016 Dec;26(12):4649-4655.)
2015 - 2016

Presentations

Invited

Internal/VCU

Musculoskeletal ultrasound. Orthopedic Grand Rounds. Richmond, VA, 2018
02/2018

Local/Regional (Virginia but Non-VCU)

Diagnostic radiology studies in sports medicine. Presented at the Sports Medicine Essentials Meeting. Richmond, VA, 2018.
10/2018

Imaging of back pain - Workshop (1.5 hr). Presented at the Best Practices in Pain Management Meeting. Williamsburg, VA, 2017
09/2017

National

Chu DA, **Vossen JA**, Haar PJ, Hayes CW, Hoover KB. Enchondroma Size Among Different Age Groups: An Institutional Review. ARRS Annual Meeting, Honolulu, HI
2019

Abbassi M, **Vossen JA**, Haar PJ, Hoover KB. Tarsal coalition and the accessory anterolateral facet. 104th RSNA Annual Meeting, Chicago, IL
2018

Abbassi M, **Vossen JA**, Haar PJ, Hayes CW, Hoover KB. Accessory anterolateral talar facet: Correlating MRI findings in an anatomic variant. ARRS Annual Meeting, New Orleans, LA
2017

Chadwick N, Hoover KB, Hayes CW, Haar PJ, **Vossen JA**, Miller K. Design and impact of a MSK image-guided procedure curriculum for radiology residents. AUR Annual

Meeting. Hollywood, FL
2017

Vossen JA, Albrektson J, Sensarma A, Rosovsky MA. Screening for renal disease using eGFR: who are we hurting? ACR Quality and Safety Conference, Scottsdale, AZ, 2012

Vossen JA, Albrektson J, Sensarma A, Williams SC. Clinical usefulness of adjusted D-dimer cut off values to exclude pulmonary embolism in an emergency department patient population. 26th Annual Bridgeport Hospital Science Symposium, Bridgeport, CT
2012

Chamarthy M, Gupta M, Thawait SK, **Vossen JA**, Moadel R. Selective Internal Radiation therapy 101: the basics. 25th Annual Bridgeport Hospital Science Symposium, Bridgeport, CT
2011

Vossen JA. Intra-arterial treatment and follow-up of primary and metastatic liver tumors. 25th Annual Bridgeport Hospital Science Symposium, Bridgeport, CT
2011

Chamarthy M, Thawait S, **Vossen JA**, Kolnick D, Banker P, Zampolin R, Stein S. Revisiting the Diagnostic Clues to Localize the Subtle and Occult Fractures on Plain Radiography. 111th ARRS Annual Meeting, Chicago, IL
2011

Ota S, Vali M, Rao PP, Syed LH, Ganapathy-Kanniappan S, Kunjithapatham R, Buijs M, **Vossen JA**, Kwak B, Geschwind JF. Ultrasound guided intra-tumoral injection of 3-bromopyruvate (3-BrPA) for the treatment of pancreatic cancer: Safety and efficacy in a murine orthotopic xenograft. 35th SIR Annual Meeting, Tampa, FL
2010

Reyes DK, **Vossen JA**, Kamel IR, Azad NS, Wahlin TA, Torbenson MS, Choti MA, Geschwind JF. Single centre phase II trial of transarterial chemoembolization with drug eluting beads for patients with unresectable hepatocellular carcinoma: initial experience in the USA. 35th SIR Annual Meeting, Tampa, FL
2010

Reyes DK, **Vossen JA**, Kamel IR, Mulcahy MF, Salem R, Messersmith W, Weekes CD, Georgiades CS, Hong K, Geschwind JF. Phase II trial of bevacizumab combined with transarterial chemoembolization (TACE) for hepatocellular carcinoma: initial experience at two institutions. 35th SIR Annual Meeting, Tampa, FL
2010

Kamel IR, Buijs M, **Vossen JA**, Pan L, Salibi N, Liapi E, Lorenz C, Geschwind JF. Quantitative proton MR spectroscopy as a biomarker of tumor necrosis in the rabbit VX2 liver tumor. 17th ISMRM Annual Meeting, Honolulu, HI
2009

Ganapathy-Kanniappan S, Geschwind JF, Kunjithapatham R, Buijs M, **Vossen JA**, Tchernyshyov I, Torbenson MS, Cole RN, Syed LH, Vali M. A pyruvic acid analog primarily targets GAPDH to promote cancer cell death. FASEB Annual Meeting, New Orleans, LA, 2009.
2009

Reyes DK, **Vossen JA**, Kamel IR, Azad NS, Wahlin TA, Torbenson MS, Choti MA, Geschwind JF. Single centre phase II trial of transarterial chemoembolization with drug eluting beads for patients with unresectable hepatocellular carcinoma: initial experience in the USA. 95th RSNA Annual Meeting, Chicago, IL
2009

Bonekamp S, Shen J, Salibi N, Lai HC, **Vossen JA**, Buijs M, Geschwind JF, Kamel IR. Multiparametric MRI evaluation of tumor response in patients with hepatic malignancies treated with locoregional therapy. 95th RSNA Annual Meeting, Chicago, IL
2009

Hong K, Buijs M, **Vossen JA**, Georgiades CS, Geschwind JF. Standardized reporting of toxicity and outcome of transcatheter arterial chemoembolization for unresectable HCC. 33th SIR Annual Meeting, Washington, DC.
2008

Liapi E, Vali M, Buijs M, **Vossen JA**, Lee KH, Geschwind JFH. Survival benefit and tumor response of intra-arterially administered 3-BrPA in the rabbit VX2 model of liver cancer. 2nd ILCA Annual Conference, Chicago, IL
2008

Vossen JA, Buijs M, Syed LH, Vali F, Kutianwala M, Kutianwala H, Lee KH, Geschwind JFH, Vali M, Liapi E. An animal model of metastatic liver cancer. 33th SIR Annual Meeting, Washington, DC
2008

Lee KH, Liapi E, **Vossen JA**, Buijs M, Torbenson M, Hong K, Georgiades CS, Geschwind JFH. In vivo evaluation of different calibrated spherical PVA microspheres for TACE. 33th SIR Annual Meeting, Washington, DC
2008

Lee KH, Liapi E, Buijs M, **Vossen JA**, Hong K, Georgiades CS, Geschwind JFH. Technical considerations for reliable Vx-2 liver tumor growth: selection of implantation site. 33th SIR Annual Meeting, Washington, DC.
2008

Lee KH, Liapi E, Buijs M, **Vossen JA**, Georgiades CS, Hong K, Geschwind JFH. Technical considerations for reliable Vx-2 liver tumor growth: selection of tumor cells inoculation method. 33th SIR Annual Meeting, Washington, DC
2008

Lee KH, Liapi E, Buijs M, **Vossen JA**, Georgiades CS, Hong K, Torbenson M, Kamel IR, Geschwind JFH. Distribution of iron oxide embospheres after TAE in the Vx-2 liver tumor: evaluation with MR imaging and pathology. 33th SIR Annual Meeting,

Washington, DC
2008

Liapi E, Vali M, Buijs M, **Vossen JA**, Lee KH, Geschwind JFH. Survival benefits of intra-arterially administered 3-BrPA in the rabbit VX2 model of liver cancer. 33th SIR Annual Meeting, Washington, DC
2008

Lee KH, Liapi E, Buijs M, **Vossen JA**, Georgiades CS, Hong K, Geschwind JFH. Doxorubicin loaded Quadrasphere: plasma pharmacokinetics and intratumoral drug concentration. 33th SIR Annual Meeting, Washington, DC
2008

Barnett BP, Liapi E, Gilson WD, Kim K, **Vossen JA**, Buijs M, Vali M, Lee KH, Geschwind JF. Novel MR and CT detectable ChemoSpheres for locoregional delivery of 3-bromopyruvate and doxorubicin. 33th SIR Annual Meeting, Washington, DC
2008

Buijs M, **Vossen JA**, Liapi E, Torbenson M, Geschwind JF and Kamel IR. Quantification of tumor necrosis using functional MR imaging with pathologic correlation in rabbits with Vx-2 tumors. 33th SIR Annual Meeting, Washington, DC,
2008

Vossen JA, Buijs M, Salibi N, Bluemke DA, Geschwind JF and Kamel IR. Comparison in functional MRI between targeted and non-targeted unresectable hepatic tumors treated with TACE. 33th SIR Annual Meeting, Washington, DC
2008

Lee KH, Liapi E, **Vossen JA**, Buijs M, Hong K, Georgiades CS, Geschwind JFH. Comparison of percutaneous US-guided versus open surgery implantation technique of Vx-2 carcinoma into rabbit liver. 33th SIR Annual Meeting, Washington, DC
2008

Buijs M, **Vossen JA**, Liapi E, Torbenson M, Geschwind JF and Kamel IR. Quantification of tumor necrosis using functional MR imaging with pathologic correlation in rabbits with Vx-2 tumors. 108th ARRS Annual Meeting, Washington, DC
2008

Vossen JA, Buijs M, Salibi N, Bluemke DA, Geschwind JF and Kamel IR. Comparison in functional MRI between targeted and non-targeted unresectable hepatic tumors treated with TACE. 108th ARRS Annual Meeting, Washington, DC
2008

Barnett BP, Liapi E, Geschwind JFG, Lee KH, Gilson WD, Harel Y, **Vossen JA**, Buijs M, Vali M. Trimodal MR, CT, and US detectable ChemoSpheres for locoregional delivery of 3-bromopyruvate and doxorubicin. 94th RSNA Annual Meeting, Chicago, IL
2008

Vossen JA, Buijs M, Kamel IR, Reyes DK, Liapi E, Hebert J, Bluemke DA, Geschwind JF. Functional MR imaging assessment of tumor response following TheraSpheres

treatment in patients with unresectable hepatocellular carcinoma. 107th ARRS Annual Meeting, Grande Lakes Orlando, FL
2007

Buijs M, **Vossen JA**, Georgiades CS, Hong K, Geschwind JF, Kamel IR. Role of functional MR imaging in assessing treatment response to transarterial chemoembolization (TACE) in patients with hepatic metastases. 107th ARRS Annual Meeting, Grande Lakes Orlando, FL
2007

Choti MA, **Vossen JA**, Gleisner AL, Buijs M, Assumpcao L, Schulick RD, Pawlik TM. Trends in non-therapeutic laparotomy rates in patients undergoing surgical therapy for hepatic colorectal metastases. 48th SSAT Annual Meeting, Washington, DC
2007

Buijs M, **Vossen JA**, Georgiades CS, Hong K, Geschwind JF, Kamel IR. Role of functional MR imaging in assessing treatment response to TACE in patients with hepatic metastases. 32th SIR Annual Meeting, Seattle, WA
2007

Lee KH, Liapi E, Prieto Ventura V, Buijs M, **Vossen JA**, Kamel IR, Geschwind JFH. Evaluation of iron oxide embospheres (IOE) particles distribution after transcatheter areterial embolization (TAE) by MR imaging in an animal model of liver Vx-2 liver tumor. 93rd RSNA Annual Meeting, Chicago, IL
2007

Lee KH, Liapi E, Prieto Ventura V, Buijs M, **Vossen JA**, Vali M, Geschwind JFH. Evaluation of three types of microspheres with different material characteristics by transcatheter arterial chemoembolization (TACE) in the Vx-2 liver tumor rabbit. 93rd RSNA Annual Meeting, Chicago, IL
2007

McBride JF, Hong K, Buijs M, **Vossen JA**, Georgiades CS, Geschwind JF. Transarterial chemoembolization of liver-dominant neuroendocrine tumors: technical feasibility, safety, and efficacy. 92nd RSNA Annual Meeting, Chicago, IL
2006

Hong K, McBride JF, Buijs M, **Vossen JA**, Georgiades CS, Geschwind JF. Case control study of transarterial chemoembolization versus Yttrium90 radioembolization for palliative treatment of liver-dominant colorectal adenocarcinoma in the salvage setting. 92nd RSNA Annual Meeting, Chicago, IL
2006

International

Radiology for Emergency residents in Mozambique, presented via Zoom
2018

Reyes DK, **Vossen JA**, Kamel IR, Mulcahy M, Salem R, Messersmith W, Weekes C, Georgiades CS, Hong K, Geschwind JF. Phase II trial of bevacizumab combined with

transarterial chemoembolization (TACE) for hepatocellular carcinoma: initial experience at two institutions. CIRSE Annual Meeting, Lisbon, Portugal
2009

Vossen JA, Reyes DK, Kamel IR, Azad NS, Wahlin TA, Torbenson MS, Choti MA, Geschwind JF. Single centre phase II trial of transarterial chemoembolization with drug eluting beads for patients with unresectable hepatocellular carcinoma: initial experience in the USA. ILCA 3rd Annual Conference, Milan, Italy
2009

Vossen JA, Reyes DK, Kamel IR, Azad NS, Wahlin TA, Torbenson MS, Choti MA, Geschwind JF. Single centre phase II trial of transarterial chemoembolization with drug eluting beads for patients with unresectable hepatocellular carcinoma: initial experience in the USA. CIRSE Annual Meeting, Lisbon, Portugal
2009

Reyes DK, **Vossen JA**, Kamel IR, Mulcahy MF, Salem R, Messersmith W, Weekes CD, Georgiades CS, Hong K, Geschwind JF. Phase II trial of bevacizumab combined with transarterial chemoembolization (TACE) for hepatocellular carcinoma: initial experience at two institutions. 3rd ILCA Annual Conference, Milan, Italy,
2009

Kamel IR, **Vossen JA**, Buijs M, Salibi N, Bluemke DA, and Geschwind JF. Comparison in functional and metabolic MR imaging findings between targeted and non-targeted unresectable hepatic tumors treated with TACE. 16th ISMRM Annual Meeting, Toronto, Canada
2008

Kamel IR, Buijs M, **Vossen JA**, Georgiades CS, Hong K, Geschwind JF. Role of functional MR imaging in assessing treatment response to transarterial chemoembolization (TACE) in patients with hepatic metastases. 15th ISMRM Annual Meeting, Berlin, Germany
2007

Posters or Other Unsolicited Presentations

National

Ahn L, **Vossen JA**, Crook P, Boardman ND, Hoover KB. Reverse Total Shoulder Arthroplasty: Comparative Study of the Superolateral vs. Deltopectoral Approach. ARRS Annual Meeting, Honolulu, HI
2019

Kang S, **Vossen JA**, Debkowska MP, Haar PJ, Hoover KB. Isolated Posterior Malleolar Fractures: A Pictorial Review. ARRS Annual Meeting, Honolulu, HI
2019

Perone M, **Vossen JA**, Haar PJ, Hoover KB. Lumbosacral Transitional Vertebrae: A Pictorial Review. ARRS Annual Meeting, Honolulu, HI
2019

Vossen JA, Haar PJ, Hayes CW, Perone M, Hoover KB. MRI interpretation rather than tissue diagnosis determines acute osteomyelitis management: one institution's experience. SSR Annual Meeting, Austin, TX
2018

Vossen JA, Kim C, Haar PJ, Hayes CW, Hoover KB. Periosteal reaction as the only visualized sign of osteonecrosis on radiographs. SSR Annual Meeting, Austin, TX
2018

Veilleux NJ, Kalore NV, Wegelin JA, **Vossen JA**, Haar PJ, Jiranek WA, Wayne JS. Automated femoral version estimation without the distal femur. ORS Annual Meeting, New Orleans, LA
2018

Haar PJ, Groves RC, **Vossen JA**, Hayes CW, Hoover KB, Fulcher AS. Positive benefits of radiology residents as teaching assistants in a medical school radiology curriculum involving postmortem CT scanning of cadavers. AUR Annual Meeting. Orlando, FL
2018

Haar PJ, **Vossen JA**, Hayes CW, Hoover KB, Groves RC, Fulcher AS. Increased medical student interest in radiology following a curriculum involving postmortem CT scanning of gross anatomy cadavers. AUR Annual Meeting. Orlando, FL
2018

Gola S, Haar PJ, Hoover KB, **Vossen JA**. Design and Impact of a Musculoskeletal (MSK) Image-Guided Procedure Curriculum for Radiology Residents. 104th RSNA Annual Meeting, Chicago, IL
2018

Vossen JA, Goodman WC, Haar PJ, Hoover KB. Calcaneal Trauma: What the Orthopedist Wants to Know. 104th RSNA Annual Meeting, Chicago, IL
2018

Vossen JA, Ahn L, Haar PJ, Hoover KB. Temporomandibular Joint: An Imaging Primer. 104th RSNA Annual Meeting, Chicago, IL
2018

Berl SD, **Vossen JA**, Haar PJ, Hoover KB, Hayes CW. Imaging of hip dysplasia and periacetabular osteotomy: What the orthopedist wants to know. ARRS Annual Meeting, New Orleans, LA
2017

Myrick P, **Vossen JA**, Haar PJ, Hoover KB, Hayes CW. Palpable hand and wrist masses. ARRS Annual Meeting, New Orleans, LA
2017

Vossen JA, Patel T, Haar PJ, Hoover KB, Hayes CW. Non-traumatic foot radiographs: What the foot specialist wants to know. ARRS Annual Meeting, New Orleans, LA
2017

Vossen JA, Petty CH, Haar PJ, Hayes CW, Hoover KB. The antibiotic spacer: What every radiologist should know. 103rd RSNA Annual Meeting, Chicago, IL, 2017. Presented during CME Lunch Hour Discussion Session
2017

Vossen JA, Herczyk MD, Loken EK, Haar PJ, Hayes CW, Hoover KB. Talar trauma: What the orthopedist wants to know. 103rd RSNA Annual Meeting, Chicago, IL, 2017

Vossen JA, Mather JS, Haar PJ, Hayes CW, Hoover KB. Post-traumatic heterotopic ossification: A pictorial review. 103rd RSNA Annual Meeting, Chicago, IL
2017

Vossen JA, Myrick P, Haar PJ, Hoover KB, Hayes CW. Pelvic trauma: What every radiologist should know. 102th RSNA Annual Meeting, Chicago, IL
2016

Fedele DL, **Vossen JA**, Meszaros MD. CT and MRI ordering algorithm for non-radiology residents. AUR 62nd Annual Meeting, Baltimore, MD, 2014.
2014

Miller L, **Vossen JA**, Fedele D, Golia JS, Thawait S, Marrinan GB. Imaging of winter sports related injuries of the upper extremity. 37th SCBT-MR Annual Meeting, New Orleans, LA
2014

Vossen JA, Golia JS, Miller L, Marrinan GB, Torriani M. Imaging review of the accessory ossicles of the foot. 100th RSNA Annual Meeting, Chicago, IL
2014

Miller L, **Vossen JA**, Marrinan GB. Benign cystic lesions of the ovary: Diagnosis with MR imaging. 21th ISMRM Annual Meeting, Salt Lake City, UT
2013

Miller L, Lu F, **Vossen JA**, Marrinan GB. Imaging of PE in pregnancy: Choice of CT angiography or nuclear medicine ventilation/perfusion scan. 99th RSNA Annual Meeting, Chicago, IL
2013

Vossen JA, Golia JS, Thawait SK, Chamrathy M, Meszaros MD. Vertebroplasty: imaging spectrum; preprocedural imaging, postprocedural imaging and complications. 26th Annual Bridgeport Hospital Science Symposium, Bridgeport, CT
2012

Golia JS, **Vossen JA**, Chamrathy M, Thawait SK, Lam C, Karol I. The many faces of superior mesenteric artery aneurysms. 98th RSNA Annual Meeting, Chicago, IL
2012

Vossen JA, Golia JS, Thawait SK, Chamrathy M, Marrinan GB. "Youth is wasted on the young?" MRI of the adolescent athlete. 98th RSNA Annual Meeting, Chicago, IL

2012

Golia JS, **Vossen JA**, Thawait SK, Chamарthy M, Goodstine SL. Quality control in mammography: A picture gallery. 98th RSNA Annual Meeting, Chicago, IL
2012

Vossen JA, Golia JS, Thawait SK, Chamарthy M, Marrinan GB. Invincible Youth?; Lower extremity MRI of the adolescent athlete. 35th SCBT-MR Annual Meeting, Boston, MA
2012

Thawait SK, **Vossen JA**, Chamарthy M, Golia JS, Chhabra A, Zaheer A. Infectious diseases of the liver: CT and MR imaging patterns. 35th SCBT-MR Annual Meeting, Boston, MA
2012

Chamarthy M, Thawait S, **Vossen JA**, Kolnick D, Banker P, Zampolin R, Stein S. Revisiting the Diagnostic Clues to Localize the Subtle and Occult Fractures on Plain Radiography. 111th ARRS Annual Meeting, Chicago, IL
2011

Vossen JA, Thawait SK, Chamарthy M, Velasco N. Recurrent fracture of a Recovery inferior vena cava filter with pulmonary migration. 25th Annual Bridgeport Hospital Science Symposium, Bridgeport, CT
2011

Thawait SK, **Vossen JA**, Chamарthy M, Karol I. Traumatic Lipohemarthrosis of the wrist joint due to a scaphoid fracture. 25th Annual Bridgeport Hospital Science Symposium, Bridgeport, CT
2011

Vossen JA, Edwards SD, Reeser PM, Pronovost M. Accuracy and upgrade rates of stereotactic vacuum-assisted breast biopsy: Impact of number of core samples taken on malignancy underestimation rates. 2011 ASCO Breast Cancer Symposium, San Francisco, CA.
2011

Edwards SD, **Vossen JA**, Reeser PM, Pronovost M. Accuracy of stereotactic vacuum-assisted biopsies in a community population. 2011 ASCO Breast Cancer Symposium, San Francisco, CA,
2011

Chamarthy M, Miller TS, Thawait SK, **Vossen JA**, Muro GJ, Brook AL. Diagnostic and therapeutic spinal angiogram: normal anatomy, common variants, and pathologies. 97th RSNA Annual Meeting, Chicago, IL
2011

Vossen JA, Thawait SK, Chamарthy M, McIntyre JJ, Rosovsky MA, Muro GJ, Meszaros MD. Vertebroplasty: imaging spectrum; preprocedural imaging, expected postprocedural changes and complications. 97th RSNA Annual Meeting, Chicago, IL

2011

Thawait SK, Batra K, Thawait GK, **Vossen JA**, ChamCarthy M, Chhabra A. Systematic approach to MR evaluation of non ovarian adnexal lesions. 34th SCBT-MR Annual Meeting, Washington, DC
2011

Bonekamp S, Shen J, Salibi N, Lai HC, **Vossen JA**, Buijs M, Geschwind JF, Kamel IR. Multiparametric MRI evaluation of tumor response in patients with hepatic malignancies treated with locoregional therapy. 95th RSNA Annual Meeting, Chicago, IL
2009

International

Vossen JA, Golia JS, Miller L, Fedele D, Velasco N. Pictorial review of IVC filters and their complications. ECR Annual Meeting, Vienna, Austria
2014

Fedele D, Miller L, Lu F, **Vossen JA**, Marrinan GB. Imaging of primary carcinoma of the fallopian tube. ECR Annual Meeting, Vienna, Austria
2014

Miller L, Fedele D, Lu F, **Vossen JA**, Karol I. Imaging of non-obstetric pelvic pain in the pregnant patient. ECR Annual Meeting, Vienna, Austria
2014

Vossen JA, Golia JS, ChamCarthy M, Thawait SK, Hughes T, Zinn K. Celiac axis stenting prior to radioembolization in the setting of celiac occlusion. CIRSE Annual Meeting, Lisbon, Portugal
2012

Thawait SK, Batra K, Thawait GK, **Vossen JA**, Dhangana R, Chhabra A. Magnetic resonance imaging of non ovarian adnexal lesions. ECR Annual Meeting, Vienna, Austria
2012

Teaching Experience

Didactic and Clinical

Medical School Teaching Responsibilities (2015 - present)

- M3: Radiology (elective) approximately 30 hrs informal
- M4: Radiology (elective) approximately 30 hrs informal
- Elective: Mentor Elective students (1-2/yr)

Radiology Resident / Fellow Teaching (2015 - present)

- Attending Physician; Clinical teaching; 2-3 fellows, 1-2 residents, 1-2 medical students; 8 hours per day, 12 months per year

- Contribute to MSK lecture series and written curriculum for resident curriculum and MSK fellowship programs
- Lecturer, MSK Board review for Virginia radiology residents; 10-15 residents; 3 sessions of 4 hrs per year
- Lecturer, Resident noon conferences; recurrent lecture series; 15-30 residents; 6 per year; topics:
 - * Spine trauma.
 - * Interactive MSK cases using poll everywhere. Non-interpretive skill cases.
 - * MSK Trauma - Lower extremity
 - * MSK Trauma - Cervical spine and upper extremity
 - * Benign osseous bone lesions
 - * MSK Interventions
 - * MRI shoulder
 - * Arthritis
 - * Cartilage lesions
 - * MSK interventions
 - * MRI knee
 - * Introduction to radiology
 - * MSK ultrasound
 - * Soft tissue tumors

Non-Radiology Resident / House staff / Technologist Teaching (2015 - present)

- Attending Physician; Orthopedic Surgery residents; 5-6 residents per year; approximately 500 hr
- Attending Physician; Physical Medicine and Rehabilitation residents; 5 residents per year; approximately 100 hr
- Attending Physician; Ultrasound Technologists hands on instruction; approximately 3 per year, approximately 100 hr
- Lecturer, Oral and Maxillofacial Surgery (OMFS) grand rounds (2016, 2017); 10 residents per year; 2 hr lecture
- Lecturer, Physical Therapy Student Introduction to radiology (2018, 2019); 60 students per year; 2 hr lecture

Recurrent Conferences

- Arthroscopy conference: I lead this 1 hour conference once a month for medical students, residents, fellows and radiology attendings. The topics include shoulder, knee, hip, wrist and ankle MRI and arthroscopy.

- Biopsy conference: I give this 1 hour conference once a month for medical students, residents, fellows and radiology attendings. The topics include imaging, biopsy and pathology of musculoskeletal tumors.
- Journal club: I supervise this 1 hour conference once a month for medical students, residents, fellows and radiology attendings. The topics include current literature and landmark articles in the field of musculoskeletal radiology.
- Rheumatology conference: I participate in this conference once a month. Attendees include both radiology and internal medicine medical students, residents, fellows and attendings.
- Sports conference: I give this 1 hour conference once a month in collaboration with an orthopedic faculty member. for medical students, residents, fellows and attendings. Attendees include both radiology and orthopedic medical students, residents, fellows and attendings.

Educational Innovations

Musculoskeletal Ultrasound

Description: After receiving training and gaining expertise in musculoskeletal ultrasound, I created guidelines to train clinical providers in how to use and perform musculoskeletal ultrasound within our institution. These guidelines were taught to all musculoskeletal radiologist at Virginia Commonwealth University.

Additionally this project gave me the opportunity to perform research in the subject and mentor a PhD student:

- Project Mentee: Parker Stanley, MHA, RDMS, RVT, RMSKS, RT: Use of sonoelastography for evaluation of the plantar fascia.

Subsequently, I had the opportunity to lead a curriculum change for our fellows in the musculoskeletal radiology section at Virginia Commonwealth University. Intensive and structured musculoskeletal ultrasound training is now included in the fellowship year.

Service Activities

Clinical Service

Outpatient Activities

Attending Radiologist, Neuroscience, Orthopaedic and Wellness Center, performing bone densitometry readings, every fourth week.
01/2017 - Present

Attending Radiologist, Neuroscience, Orthopaedic and Wellness Center, performing diagnostic imaging interpretation, interventional pain procedures and diagnostic joint aspirations, weekly.

05/2016 - Present

Attending Radiologist, Stony Point, performing diagnostic imaging interpretation, interventional pain procedures and diagnostic joint injections and aspirations, weekly.

08/2015 - Present

Inpatient Activities

Attending Radiologist, Main Hospital, performing diagnostic imaging interpretation, interventional pain procedures, diagnostic joint injections and soft tissue aspirations, soft tissue and bone biopsies, weekly.

08/2015 - Present

Service to the Profession

Co-Founder Connecticut Radiologic Society Resident & Fellow Section, American College of Radiology

2013 - 2014

Service to the School of Medicine

Elected for the School of Medicine Professionalism Committee

09/2019

Appointed to the Graduate Medical Education Committee

07/2019 - Present

Service to other Affiliated Institutions

VCU Radiology Residency Curriculum Committee

01/2017 - Present

VCU Radiology Residency Clinical Competency Committee

12/2017 - Present

MCV Hospital, Ambulatory Medical Directors Committee

03/2016 - Present

Publications

Papers Published in Peer Reviewed Journals

1. Riddle DL, **Vossen JA**, Hoover KB. Magnetic resonance imaging of patellofemoral osteoarthritis: intertester reliability and associations with knee pain and function. Clin Rheumatol. 2019 Jan 7.

2. Veilleux NJ, Kalore NV, Wegelin JA, **Vossen JA**, Jiranek WA, Wayne JS. Automated femoral version estimation without the distal femur. J Orthop Res. 2018;36(12):3161-3168.

3. **Vossen JA**, Bathaii SM, Hatfield B, Hayes CW. Case report: vertebral foreign body granuloma mimicking a skeletal metastasis. Skeletal Radiol. 2018 Jun;47(6):871-875.

4. Veld J, **Vossen JA**, De Amorim Bernstein K, Halpern EF, Torriani M, Bredella MA. Adipose tissue and muscle attenuation as novel biomarkers predicting mortality in patients with extremity sarcomas. *Eur Radiol*. 2016 Dec;26(12):4649-4655.
5. **Vossen JA**, Thawait SK, Golia JS, Chamarthy M, Cholewczynski W, Velasco N. Recurrent fracture of a Recovery inferior vena cava filter with pulmonary migration. *Yale J Biol Med*. 2012 June; 85(2): 255-259.
6. **Vossen JA**, Albrektson J, Sensarma A, Williams SC. Clinical usefulness of adjusted D-dimer cut off values to exclude pulmonary embolism in a community hospital emergency department patient population. *Acta Radiol*. 2012 Sep; 53(7) : 765-8.
7. Thawait SK, **Vossen JA**, Muro GJ, Karol I. MRI illustration of traumatic lipohemarthrosis of the wrist joint due to a schaphoid fracture. *Rad Case Reports*. 2012; 7(3).
8. Chamarthy M, Hughes TW, Gupta M, **Vossen JA**, Velasco NB, Zinn K. Celiac artery stenting to facilitate hepatic Yttrium-90 radioembolization therapy. *Case Rep Radiol*. 2012; 2012:236732.
9. Liapi E, Geschwind JF, Vali M, Khwaja AA, Prieto-Ventura V, Buijs M, **Vossen JA**, Ganapathy S, Wahl RL. Assessment of tumoricidal efficacy and response to treatment with 18F-FDG PET/CT after intraarterial infusion with the antiglycolytic agent 3-bromopyruvate in the VX2 model of liver tumor. *J Nucl Med*. 2011 Feb; 52(2): 225-30.
10. Buijs M, **Vossen JA**, Geschwind JF, Salibi N, Pan L, Ventura VP, Liapi E, Lee KH, Kamel IR. Quantitative proton MR spectroscopy as a biomarker of tumor necrosis in the rabbit VX2 liver tumor. *J Vasc Interv Radiol*. 2011 Aug; 22(8): 1175-80.
11. Lee KH, Liapi EA, Cornell C, Reb P, Buijs M, **Vossen JA**, Ventura VP, Geschwind JF. Doxorubicin-loaded QuadraSphere microspheres : plasma pharmacokinetics and intratumoral drug concentration in an animal model of liver cancer. *Cardiovasc Intervent Radiol*. 2010 Jun; 33(3):576-82.
12. Lee KH, Liapi E, Buijs M, **Vossen JA**, Hong K, Georgiades CS, Geschwind JF. Consideration for implantation site of VX-2 carcinoma into rabbit liver. *J Vasc Interv Radiol*. 2009 Jan; 20(1): 113-7.
13. Pawlik TM, Assumpcao L, **Vossen JA**, Buijs M, Gleisner AL, Schulick RD, Choti MA. Trends in non-therapeutic laparotomy rates in patients undergoing surgical therapy for hepatic colorectal metastases. *Ann Surg Oncol*. 2009 Feb; 16(2): 371-8.
14. Lee KH, Liapi E, Buijs M, **Vossen JA**, Prieto-Ventura V, Syed LH, Geschwind JF. Percutaneous US-guided implantation of VX-2 carcinoma into rabbit liver: a comparison with open surgical method. *J Surg Res*. 2009 Jul; 155(1): 94-9.
15. **Vossen JA**, Buijs M, Geschwind JF, Prieto Ventura V, Lee KH, Liapi E, Bluemke DA, Kamel IR. Diffusion-weighted and Gd-EOB-DTPA-contrast-enhanced magnetic resonance imaging for characterization of tumor necrosis in an animal model. *J Comput Assist Tomogr*. 2009 Jul-Aug; 33(4): 626-30.

16. Reyes DK, **Vossen JA**, Kamel IR, Azad NS, Wahlin TA, Torbenson MS, Choti MA, Geschwind JF. Single-centre phase II trial of transarterial chemoembolization with drug-eluting beads for patients with unresectable hepatocellular carcinoma: initial experience in the United States. *Cancer J*. 2009 Nov-Dec; 15(6): 526-32.
17. Ganapathy-Kanniappan S, Geschwind JF, Kunjithapatham R, Buijs M, **Vossen JA**, Tchernyshyov I, Cole RN, Syed LH, Rao PP, Ota S, Vali M. Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) is pyruvylated during 3-bromopyruvate mediated cancer cell death. *Anticancer Research*. 2009 Dec; 29(12): 4909-18.
18. Liapi E, Geschwind JF, **Vossen JA**, Buijs M, Georgiades CS, Bluemke DA, Kamel IR. Functional MRI evaluation of tumor response in patients with neuroendocrine hepatic metastasis treated with transcatheter arterial chemoembolization. *AJR Am J Roentgenol*. 2008 Jan; 190(1): 67-73.
19. **Vossen JA**, Kamel IR, Buijs M, Liapi E, Georgiades CS, Hong K, Geschwind JF. Role of functional magnetic resonance imaging in assessing metastatic leiomyosarcoma response to chemoembolization. *J Comput Assist Tomogr*. 2008 May-Jun; 32(3): 347-52.
20. Buijs M, **Vossen JA**, Geschwind JF, Ishimori T, Engles JM, Acha-Ngwodo O, Wahl RL, Vali M. Specificity of the anti-glycolytic activity of 3-bromopyruvate confirmed by FDG uptake in a rat model of breast cancer. *Invest New Drugs*. 2008 Jun 14.
21. Buijs M, **Vossen JA**, Hong K, Georgiades CS, Geschwind JF, Kamel IR. Chemoembolization of hepatic metastases from ocular melanoma: assessment of response with contrast-enhanced and diffusion-weighted MRI. *AJR Am J Roentgenol*. 2008 Jul; 191(1): 285-9.
22. Lee KH, Liapi E, Ventura VP, Buijs M, **Vossen JA**, Vali M, Geschwind JF. Evaluation of different calibrated spherical polyvinyl alcohol microspheres in transcatheter arterial chemoembolization: VX2 tumor model in rabbit liver. *J Vasc Interv Radiol*. 2008 Jul; 19(7):1065-9.
23. **Vossen JA**, Buijs M, Liapi E, Eng J, Bluemke DA, Kamel IR. Receiver operating characteristic analysis of diffusion-weighted magnetic resonance imaging in differentiating hepatic hemangioma from other hypervascular liver lesions. *J Comput Assist Tomogr*. 2008 Sep-Oct; 32(5): 750-6.
24. Vali M, **Vossen JA**, Buijs M, Engles JM, Liapi E, Prieto Ventura V, Khwaja A, Acha-Ngwodo O, Shanmugasundaram G, Syed L, Wahl RL, Geschwind JF. Targeting of VX2 rabbit liver tumor by selective delivery of 3-bromopyruvate: a biodistribution and survival study. *J Pharmacol Exp Ther*. 2008 Oct; 327(1): 32-7.
25. Buijs M, **Vossen JA**, Frangakis C, Hong K, Georgiades CS, Chen Y, Liapi E, Geschwind JF. Nonresectable hepatocellular carcinoma: long-term toxicity in patients treated with transarterial chemoembolization – single-center experience. *Radiology*. 2008 Oct; 249(1): 346-54.
26. **Vossen JA**, Buijs M, Syed L, Kutianwala F, Kutianwala M, Geschwind JF, Vali

M. Development of a new orthotopic animal model of metastatic liver cancer in the rabbit VX2 model: effect on metastases after partial hepatectomy, intra-arterial treatment with 3-bromopyruvate and chemoembolization. Clin Exp Metastasis. 2008; 25(7): 811-7.

27. Lee KH, Liapi E, **Vossen JA**, Buijs M, Ventura VP, Georgiades CS, Hong K, Kamel I, Torbenson MS, Geschwind JF. Distribution of iron oxide-containing embosphere particles after transcatheter arterial embolization in an animal model of liver cancer: evaluation with MR imaging and implication for therapy. J Vasc Interv Radiol. 2008 Oct; 19(10): 1490-6.

28. Buijs M, Kamel IR, **Vossen JA**, Georgiades CS, Hong K, Geschwind JF. Assessment of metastatic breast cancer response to chemoembolization with contrast agent enhanced and diffusion-weighted MR imaging. J Vasc Interv Radiol. 2007 Aug; 18(8): 957-63.

29. **Vossen JA**, Buijs M, Kamel IR. Assessment of tumor response on MR imaging after locoregional therapy. Tech Vasc Interv Radiol. 2006 Sep; 9(3):125-32. Review.

Books, Book Chapters and Monographs

1. **Vossen JA**. (2019). Metabolic Arthropathies. In Taljanovic MS, Omar I, Hoover KB, Chadaz T (Ed.), *Musculoskeletal Imaging: Rotations in Radiology*. Oxford University Press (in press).

2. **Vossen JA**. (2019). Calcium Pyrophosphate Dihydrate Deposition Disease. In Taljanovic MS, Omar I, Hoover KB, Chadaz T (Ed.), *Musculoskeletal Imaging: Rotations in Radiology*. Oxford University Press (in press).

3. **Vossen JA**. (2019). Calcific Hydroxyapatite Deposition Disease. In Taljanovic MS, Omar I, Hoover KB, Chadaz T (Ed.), *Musculoskeletal Imaging: Rotations in Radiology*. Oxford University Press (in press).

4. **Vossen JA**. (2019). Hemochromatosis and Wilson's Disease. In Taljanovic MS, Omar I, Hoover KB, Chadaz T (Ed.), *Musculoskeletal Imaging: Rotations in Radiology*. Oxford University Press (in press).

5. **Vossen JA**. (2019). Alkaptonuria (Ochronosis). In Taljanovic MS, Omar I, Hoover KB, Chadaz T (Ed.), *Musculoskeletal Imaging: Rotations in Radiology*. Oxford University Press (in press).

6. **Vossen JA**. (2019). Systemic Lupus Erythematosus. In Taljanovic MS, Omar I, Hoover KB, Chadaz T (Ed.), *Musculoskeletal Imaging: Rotations in Radiology*. Oxford University Press (in press).

7. **Vossen JA**. (2019). Scleroderma. In Taljanovic MS, Omar I, Hoover KB, Chadaz T (Ed.), *Musculoskeletal Imaging: Rotations in Radiology*. Oxford University Press (in press).

8. **Vossen JA**. (2019). Polymyositis and Dermatomyositis. In Taljanovic MS, Omar I,

Hoover KB, Chadaz T (Ed.), *Musculoskeletal Imaging: Rotations in Radiology*. Oxford University Press (in press).

9. **Vossen JA**. (2019). Mixed Connective Tissue Disease. In Taljanovic MS, Omar I, Hoover KB, Chadaz T (Ed.), *Musculoskeletal Imaging: Rotations in Radiology*. Oxford University Press (in press).

10. **Vossen JA**. (2019). Internal Derangement of the Temporomandibular Joint. In Taljanovic MS, Omar I, Hoover KB, Chadaz T (Ed.), *Musculoskeletal Imaging: Rotations in Radiology*. Oxford University Press (in press).

11. Corvec S, Portillo ME, **Vossen JA**, Trampuz A, Haar PJ. (2017). Diagnostics. In Kates SL, Borens O (Ed.), *Principles of Orthopedic Infection Management*. AOTrauma, in cooperation with Thieme Publishers.

12. Vaughan LM, Long SA, Santamaría T, Kahn MJ, **Vossen JA**, Bredella MA, Schiller AL, Mankin HJ. (2016). Osteonecrosis in Patients with Sickle Cell Anemia and Other Hematologic Disorders. In Aaron RK (Ed.), *Skeletal Circulation in Clinical Practice*. World Scientific

13. Buijs M, **Vossen JA**, Geschwind JF, Kamel IR. (2008). Assessment of tumor response on MR imaging after locoregional therapy. In Soulen MC, Geschwind JF (Ed.), *Interventional Oncology: Principles and Practice* (pp. 86-99). New York, NY. Cambridge University Press.

Personal Statement

Since becoming an attending physician at Virginia Commonwealth University Health, my focus has been on improving the quality of patient care provided at the institution through education, clinical practice, research and administration. Within six months of arriving at Virginia Commonwealth University, I started multiple research projects. I make it my goal to focus on collaboration with other departments and to include trainees in all of my research projects. Many of these projects have resulted in peer reviewed articles and podium presentations.

To improve the quality of our patient imaging, I spearheaded the creation of a Musculoskeletal Ultrasound service. This included the creation of a protocol book, technologist continuing education, ultrasound machine updates and a “think ultrasound first” promotional campaign. MSK ultrasound is now a valued every day service and has improved the overall quality of MSK imaging and patient care.

In order to provide a basic fund of knowledge for our medical students, residents and fellows, I have written multiple chapters of a textbook, *Rotations in Radiology: Musculoskeletal Imaging* (Oxford University Press). This book is a collaboration with section members, and radiologists from outside VCU.

My focus of improving the quality of care also led to a collaboration with Mindways, producer of phantoms and software to measure bone density from CT scans. We have

created an Opportunistic Bone Density Screening Service; which screens patients that receive both enhanced and unenhanced CT at our institution for osteoporosis. Currently data is used for research purposes with the intent of extending it to clinical practice.

Mentorship and guidance of trainees has become one of my main personal objectives over the past 4 years. First as a teaching physician, and currently as Musculoskeletal Imaging & Intervention Fellowship Director and Radiology Residency Director, I try to advocate for high quality teaching and mentorship.

I am fully committed to the VCU Health System and all the facets of being a strong academic radiologist. If I can positively impact the care and management of our patients through teaching and research, then I have succeeded.

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