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CLINICAL OFFICE (PRIMARY)

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Bio

CLINICAL FOCUS

- Diagnostic Radiology
- Musculoskeletal System

ACADEMIC APPOINTMENTS

- Clinical Professor, Radiology

ADMINISTRATIVE APPOINTMENTS

- Interim Chief, Musculoskeletal Imaging, Department of Radiology, (2022- present)
- Associate Chair of Quality Improvement, Department of Radiology, (2019- present)

PROFESSIONAL EDUCATION

- Master of Medical Management, Carnegie Mellon University (2017)
- Fellowship: Massachusetts General Hospital Musculoskeletal Radiology Fellowship (2008) MA
- Board Certification: Diagnostic Radiology, American Board of Radiology (2007)
- Residency: Baylor College of Medicine Radiology Residency (2007) TX
- Internship: Naval Medical Center (1999) CA
- Medical Education: Kirksville College of Osteopathic Medicine (1998) MO

Publications

PUBLICATIONS

- **Abdominal CT metrics in 17,646 patients reveal associations between myopenia, myosteotosis, and medical phenotypes: aphenome-wide association study.** *EBioMedicine*
Zambrano Chaves, J. M., Lenchik, L., Gallegos, I. O., Blankemeier, L., Rubin, D. L., Willis, M. H., Chaudhari, A. S., Boutin, R. D.
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- **Noise2Recon: Enabling SNR-robust MRI reconstruction with semi-supervised and self-supervised learning.** *Magnetic resonance in medicine*
Desai, A. D., Ozturkler, B. M., Sandino, C. M., Boutin, R., Willis, M., Vasanaawala, S., Hargreaves, B. A., Re, C., Pauly, J. M., Chaudhari, A. S.
2023
- **From Acceptable to Superlative: Scaling a Technologist Coaching Intervention to Improve Image Quality.** *Journal of the American College of Radiology : JACR*
Hwang, G. L., Vilendrer, S., Amano, A., Brown-Johnson, C., Kling, S. M., Faust, A., Willis, M. H., Larson, D. B.
2023; 20 (6): 570-584
- **An Upstream Reparative Justice Framework for Improving Diversity in Radiology.** *Journal of the American College of Radiology : JACR*
Abraham, P., Chatterjee, T., Flores, E. J., Lightfoote, J. B., Sepulveda, K. A., Spalluto, L. B., Willis, M. H.
2023
- **Beyond the Binary: Moving the Radiology Workforce Toward Gender Inclusion, From the AJR Special Series on DEI.** *AJR. American journal of roentgenology*
Tomblinson, C. M., Stowell, J., Zavaletta, V., Freeman, N., Yong-Hing, C. J., Carroll, E. F., Willis, M., Flores, E. J., Spalluto, L. B.
2023
- **Practical Approaches to Advancing Health Equity in Radiology, From the AJR Special Series on DEI.** *AJR. American journal of roentgenology*
Suarez, N. L., Abraham, P., Carney, M., Castro, A. A., Narayan, A. K., Willis, M., Spalluto, L. B., Flores, E. J.
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- **Osteopathic Versus Allopathic Radiologist Workforce Characteristics: A Medicare Administrative and Claims Data Analysis.** *Journal of the American College of Radiology : JACR*
Santavicca, S., Willis, M. H., Friedberg, E. B., Hughes, D. R., Duszak, R. J.
2022
- **Imaging of Sarcopenia.** *Radiologic clinics of North America*
Boutin, R. D., Houston, D. K., Chaudhari, A. S., Willis, M. H., Fausett, C. L., Lenchik, L.
2022; 60 (4): 575-582
- **Factors Driving Resistance to Clinical Decision Support: Finding Inspiration in Radiology 3.0.** *Journal of the American College of Radiology : JACR*
Bruno, M. A., Fotos, J. S., Pitot, M., Franceschi, A. M., Neutze, J. A., Willis, M. H., Wasserman, E., Snyder, B. L., Cruciata, G., Stuckey, H. L., Wintermark, M.
2022; 19 (2 Pt B): 366-376
- **Charges for Shoppable Musculoskeletal Imaging Examinations: CMS Transparency Compliance and Variability Among 250 U.S. Hospitals.** *AJR. American journal of roentgenology*
Pettersson, M. B., Willis, M. H., Rosenberg, J. K., Boutin, R. D.
1800
- **Opportunistic Incidence Prediction of Multiple Chronic Diseases from Abdominal CT Imaging Using Multi-task Learning**
Blankemeier, L., Gallegos, I., Chaves, J., Maron, D., Sandhu, A., Rodriguez, F., Rubin, D., Patel, B., Willis, M., Boutin, R., Chaudhari, A. S., Wang, L., Dou, et al
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- **Recognizing and Avoiding the Most Common Mistakes in Quality Improvement.** *Journal of the American College of Radiology : JACR*
Larson, D. B., Willis, M. H., Hwang, G. L.
2020
- **Critical Results in Radiology: Defined by Clinical Judgment or by a List?** *Journal of the American College of Radiology : JACR*
Kuhn, K., Larson, D. B., 2020 Radiology Improvement Summit Critical Results Workgroup, Becker, C., Bierhals, A., Broder, J., City, R., Cooke, E., Cordova, D., Curci, N. E., Davenport, M. S., Dinan, D., Duncan, J. R., et al
2020
- **Assessment of the Radiology Support, Communication and Alignment Network to Reduce Medical Imaging Overutilization: A Multipractice Cohort Study.** *Journal of the American College of Radiology : JACR*
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- **Everything Every Radiologist Always Wanted (and Needs) to Know About Clinical Decision Support.** *Journal of the American College of Radiology : JACR*

- Wintermark, M., Willis, M. H., Hom, J., Franceschi, A. M., Fotos, J. S., Mosher, T., Cruciata, G., Reuss, T., Horton, R., Fredericks, N., Burleson, J., Haines, B., Bruno, et al
2020; 17 (5): 568–73
- **Multisite Implementation of Radiology-TEACHES (Technology-Enhanced Appropriateness Criteria Home for Education Simulation).** *Journal of the American College of Radiology : JACR*
Willis, M. H., Newell, A. D., Fotos, J., Germaine, P., Gilpin, J. W., Lewis, K., Stein, M. W., Straus, C., Sepulveda, K. A.
2020
 - **Variables Influencing Radiology Volume Recovery During the Next Phase of the Coronavirus Disease 2019 (COVID-19) Pandemic.** *Journal of the American College of Radiology : JACR*
Madhuripan, N. n., Man-Ching Cheung, H. n., Alicia Cheong, L. H., Jawahar, A. n., Willis, M. n., Larson, D. B.
2020
 - **ACR Statement on Safe Resumption of Routine Radiology Care During the Coronavirus Disease 2019 (COVID-19) Pandemic.** *Journal of the American College of Radiology : JACR*
Davenport, M. S., Bruno, M. A., Iyer, R. S., Johnson, A. M., Herrera, R. n., Nicola, G. N., Ortiz, D. n., Pedrosa, I. n., Policeni, B. n., Recht, M. P., Willis, M. n., Zuley, M. L., Weinstein, et al
2020
 - **Optimizing Performance by Preventing Disruptive Behavior in Radiology.** *Radiographics : a review publication of the Radiological Society of North America, Inc*
Willis, M. H., Friedman, E. M., Donnelly, L. F.
2018; 38 (6): 1639–50
 - **Out of the Darkness and Into the Light: Patients, Referring Physicians, and Radiologists Working Toward Patient-and Family-Centered Care in Radiology** *JOURNAL OF THE AMERICAN COLLEGE OF RADIOLOGY*
Cook, T. S., Willis, M. H., Abbott, C., Rawson, J. V., Krishnaraj, A.
2017; 14 (4): 569–72
 - **R-SCAN: CT Angiographic Imaging for Pulmonary Embolism.** *Journal of the American College of Radiology : JACR*
Frigini, L. A., Hoxhaj, S. n., Wintermark, M. n., Gibby, C. n., De Rosen, V. L., Willis, M. H.
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 - **An Asynchronous Online Collaboration Between Radiologists and Patients: Harnessing the Power of Informatics to Design the Ideal Patient Portal** *JOURNAL OF THE AMERICAN COLLEGE OF RADIOLOGY*
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 - **A Multispecialty Collaboration to Reduce Unnecessary Imaging for Knee Osteoarthritis** *JOURNAL OF THE AMERICAN COLLEGE OF RADIOLOGY*
Spence, S. C., McAlister, W., Reed, B., Zare, M., Bingham, B., Low, J., Willis, M.
2016; 13 (11): 1343–46
 - **Clinical Decision Support at the Point-of-Order Entry: An Education Simulation Pilot with Medical Students.** *Academic radiology*
Willis, M. H., Frigini, L. A., Lin, J., Wynne, D. M., Sepulveda, K. A.
2016; 23 (10): 1309-18
 - **Posterior Root Meniscal Tears: Preoperative, Intraoperative, and Postoperative Imaging for Transtibial Pullout Repair** *RADIOGRAPHICS*
Palisch, A. R., Winters, R. R., Willis, M. H., Bray, C. D., Shybut, T. B.
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 - **Carpe Diem: Population Health** *JOURNAL OF THE AMERICAN COLLEGE OF RADIOLOGY*
Willis, M. H.
2015; 12 (2): 127–28
 - **Measurement of Ulnar Variance From the Lateral Radiograph: A Comparison of Techniques** *JOURNAL OF HAND SURGERY-AMERICAN VOLUME*
Parker, A. S., Minh Nguyen, Minard, C. G., Guffey, D., Willis, M. H., Reichel, L. M.
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 - **Clinically Oriented Three-Year Medical Physics Curriculum: A New Design for the Future** *AMERICAN JOURNAL OF ROENTGENOLOGY*
Nachiappan, A. C., Lee, S. R., Willis, M. H., Galfione, M. R., Chinnappan, R. R., Diaz-Marchan, P. J., Bushong, S. C.

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- **A Proposed Medical Physics Curriculum: Preparing for the 2013 ABR Examination** *JOURNAL OF THE AMERICAN COLLEGE OF RADIOLOGY*
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