

Stanford



Luyao Shen, MD

Clinical Associate Professor, Radiology

CLINICAL OFFICES

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Bio

CLINICAL FOCUS

- Diagnostic Radiology
- Genitourinary Imaging
- Urology Imaging
- Gynecology Imaging

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Radiology

ADMINISTRATIVE APPOINTMENTS

- Co-Medical Director, Point of Care Ultrasound, (2021- present)

HONORS AND AWARDS

- Distinguished Honors Scholar, University of Cincinnati Honors Program (2008)
- Summa Cum Laude, University of Cincinnati (2008)
- Phi Beta Kappa Society, University of Cincinnati (2008)
- Alpha Omega Alpha Honor Medical Society, University of Cincinnati College of Medicine (2011)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Society of Point of Care Ultrasound (2022 - present)

- Member, SRU Research Committee (2022 - 2022)
- Editorial board member, European Journal of Radiology Open (EJRO) (2021 - present)
- Member, SAR International Task Force Committee (2021 - present)
- Member, SAR Disease Focused Panel (DFP) Pelvic Floor Dysfunction (2021 - present)
- Member, Society of Radiologists in Ultrasound (SRU) (2021 - present)
- Member, Society of Advanced Body Imaging (SABI) (2021 - 2021)
- Member, American College of Radiology (ACR) (2019 - present)
- Member, Society of Abdominal Radiology (SAR) (2019 - present)
- Peer reviewer, European Journal of Radiology (2019 - 2020)
- Peer reviewer, Journal of Abdominal Radiology (2018 - present)
- Member, European Society of Radiology (ESR) (2016 - 2020)
- Member, Radiological Society of North America (RSNA) (2013 - present)

PROFESSIONAL EDUCATION

- Fellowship: UCLA Radiology Fellowships (2018) CA
- Residency: UCLA Radiology Residency (2017) CA
- Internship: University of California Irvine Dept of Internal Medicine (2013) CA
- Medical Education: University of Cincinnati College of Medicine Registrar (2012) OH
- Board Certification: Diagnostic Radiology, American Board of Radiology (2018)

COMMUNITY AND INTERNATIONAL WORK

- RAD-AID Radiology Serving the World, China

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

GU and Gyn clinical imaging

CLINICAL TRIALS

- Serial Ultrasound of Solid Tumor Lesions to Detect Early Response to Cancer Immunotherapy, Recruiting

Publications

PUBLICATIONS

- **Establishing a Point-of-Care Ultrasound (POCUS) Program: An Institutional Approach for Developing a POCUS Program Infrastructure.** *Journal of the American College of Radiology : JACR*
Shen, L., Lobo, V. E., Cordova, D., Larson, D. B., Kamaya, A.
2023
- **Risk of malignancy in T1-hyperintense Bosniak version 2019 class II and IIF cystic renal masses.** *Abdominal radiology (New York)*
Shen, L., Tse, J. R., Lemieux, S., Yoon, L., Mullane, P. C., Liang, T., Davenport, M. S., Pedrosa, I., Silverman, S. G.
2023
- **External Validation of a Five-Tiered CT Algorithm for the Diagnosis of Clear-Cell Renal Cell Carcinoma: A Retrospective Five-Reader Study.** *AJR. American journal of roentgenology*
Lemieux, S., Shen, L., Liang, T., Lo, E., Chu, Y., Kamaya, A., Tse, J. R.
2023

- **Diagnostic performance of the "drooping" sign in CT diagnosis of exophytic renal angiomyolipoma.** *Abdominal radiology (New York)*
Shen, L., Nawaz, R., Tse, J. R., Negrete, L. M., Lubner, M. G., Toia, G. V., Liang, T., Wentland, A. L., Kamaya, A.
2023
- **Hepatocellular Adenomas: Molecular Basis and Multimodality Imaging Update.** *Radiographics : a review publication of the Radiological Society of North America, Inc*
Tse, J. R., Felker, E. R., Naini, B. V., Shen, L., Shen, J., Lu, D. S., Kamaya, A., Raman, S. S.
2023; 43 (3): e220134
- **Bosniak Classification, Version 2019 Class IIF: Follow-up Strategy Should be Revised.** *The Journal of urology*
Tse, J. R., Shen, L.
2023: 101097JU00000000000003365
- **Editorial Comment: Meta-Analysis Supports ACR TI-RADS for Risk Stratification of Thyroid Nodules Over Other Systems.** *AJR. American journal of roentgenology*
Shen, L.
2023
- **Growth Kinetics of Pancreatic Neuroendocrine Neoplasms by Histopathologic Grade.** *Pancreas*
Cao, J. J., Shen, L., Visser, B. C., Yoon, L., Kamaya, A., Tse, J. R.
2023; 52 (2): e135-e143
- **Diagnostic performance of hypoechoic perinephric fat as a predictor of prediabetes and diabetes.** *Abdominal radiology (New York)*
Shen, L., Tse, J. R., Negrete, L. M., Shon, A., Yoon, L., Liang, T., Kamaya, A.
2022
- **Outcomes of Bosniak Classification Version 2019 Class IIF Cystic Renal Masses at Imaging Surveillance.** *AJR. American journal of roentgenology*
Shen, L., Yoon, L., Chung, B. I., Kamaya, A., Tse, J. R.
2022
- **I saw the "bear paw" sign - Massive renal xanthogranulomatous pyelonephritis.** *Clinical imaging*
Mynarski, N. J., Shen, L., Negrete, L. M.
2022; 93: 70-74
- **Differentiation of benign from malignant solid renal lesions using CT-based radiomics and machine learning: comparison with radiologist interpretation.** *Abdominal radiology (New York)*
Wentland, A. L., Yamashita, R., Kino, A., Pandit, P., Shen, L., Brooke Jeffrey, R., Rubin, D., Kamaya, A.
2022
- **Positive predictive value of LI-RADS US-3 observations: multivariable analysis of clinical and imaging features.** *Abdominal radiology (New York)*
Tse, J. R., Shen, L., Tiyyattanachai, T., Bird, K. N., Liang, T., Yoon, L., Kamaya, A.
2022
- **Predictive value and prevalence of refractive edge shadow in diagnosis of ovarian dermoids.** *Abdominal radiology (New York)*
Shen, L., Tse, J. R., Negrete, L. M., Lo, E., Yoon, L., Kamaya, A.
2022
- **Clinical and ultrasound features of dermoid-associated adnexal torsion.** *Abdominal radiology (New York)*
Shen, L., Tse, J. R., Negrete, L. M., Flory, M. N., Yoon, L., Kamaya, A.
2022
- **Interobserver agreement between eight observers using IOTA simple rules and O-RADS lexicon descriptors for adnexal masses.** *Abdominal radiology (New York)*
Antil, N., Raghu, P. R., Shen, L., Tiyyattanachai, T., Chang, E. M., Ferguson, C. W., Ho, A. A., Lutz, A. M., Mariano, A. J., Morimoto, L. N., Kamaya, A.
2022
- **Outcomes of LI-RADS US-2 Subthreshold Observations Detected on Surveillance Ultrasound.** *AJR. American journal of roentgenology*
Tse, J. R., Shen, L., Bird, K. N., Yoon, L., Kamaya, A.
2022

- **Nyquist sampling theorem and Bosniak classification, version 2019: effect of thin axial sections on categorization and agreement.** *European radiology*
Tse, J. R., Shen, L., Shen, J., Yoon, L., Kamaya, A.
2022
- **Safety of percutaneous, image-guided biopsy of hepatocellular carcinoma with and without concurrent ablation.** *Abdominal radiology (New York)*
Tse, J. R., Terashima, K., Shen, L., McWilliams, J. P., Lu, D. S., Raman, S. S.
2022
- **Growth kinetics and progression rates of cystic renal masses on active surveillance.**
Tse, J., Shen, L., Yoon, L., Kamaya, A.
LIPPINCOTT WILLIAMS & WILKINS.2022
- **Evaluation of early sonographic predictors of gangrenous cholecystitis: mucosal discontinuity and echogenic pericholecystic fat.** *Abdominal radiology (New York)*
Tse, J. R., Gologorsky, R., Shen, L., Bingham, D. B., Jeffrey, R. B., Kamaya, A.
1800
- **Growth Kinetics and Progression Rate of Bosniak Classification, Version 2019 III and IV Cystic Renal Masses on Imaging Surveillance.** *AJR. American journal of roentgenology*
Tse, J. R., Shen, L., Shen, J., Yoon, L., Chung, B. I., Kamaya, A.
2022
- **Inflammatory pseudotumor-like follicular dendritic cell tumor of the spleen: a case report and approach to differential diagnosis.** *Radiology case reports*
Nguyen, A., Negrete, L. M., Bulterys, P. L., Shen, L.
2021; 16 (11): 3213-3216
- **Prevalence of Malignancy and Histopathologic Association of Bosniak Classification, Version 2019 Class III and IV Cystic Renal Masses.** *The Journal of urology*
Tse, J. R., Shen, L., Shen, J., Yoon, L., Kamaya, A.
2020: 101097JU00000000000001438
- **Bosniak Classification of Cystic Renal Masses Version 2019: Comparison of Categorization using CT and MRI.** *AJR. American journal of roentgenology*
Tse, J. R., Shen, J. n., Shen, L. n., Yoon, L. n., Kamaya, A. n.
2020
- **Human-machine partnership with artificial intelligence for chest radiograph diagnosis.** *NPJ digital medicine*
Patel, B. N., Rosenberg, L. n., Willcox, G. n., Baltaxe, D. n., Lyons, M. n., Irvin, J. n., Rajpurkar, P. n., Amrhein, T. n., Gupta, R. n., Halabi, S. n., Langlotz, C. n., Lo, E. n., Mammarrappallil, et al
2019; 2: 111
- **Author Correction: Human-machine partnership with artificial intelligence for chest radiograph diagnosis.** *NPJ digital medicine*
Patel, B. N., Rosenberg, L. n., Willcox, G. n., Baltaxe, D. n., Lyons, M. n., Irvin, J. n., Rajpurkar, P. n., Amrhein, T. n., Gupta, R. n., Halabi, S. n., Langlotz, C. n., Lo, E. n., Mammarrappallil, et al
2019; 2 (1): 129
- **Erratum: Author Correction: Human-machine partnership with artificial intelligence for chest radiograph diagnosis.** *NPJ digital medicine*
Patel, B. N., Rosenberg, L. n., Willcox, G. n., Baltaxe, D. n., Lyons, M. n., Irvin, J. n., Rajpurkar, P. n., Amrhein, T. n., Gupta, R. n., Halabi, S. n., Langlotz, C. n., Lo, E. n., Mammarrappallil, et al
2019; 2: 129
- **Translabial US: Preoperative Detection of Midurethral Sling Erosion in Stress Urinary Incontinence.** *Radiology*
Viragh, K. A., Cohen, S. A., Shen, L., Kurzbard-Roach, N., Raz, S., Raman, S. S.
2018; 289 (3): 721-727
- **Pathological and 3 Tesla Volumetric Magnetic Resonance Imaging Predictors of Biochemical Recurrence after Robotic Assisted Radical Prostatectomy: Correlation with Whole Mount Histopathology.** *The Journal of urology*
Tan, N., Shen, L., Khoshnoodi, P., Alcalá, H. E., Yu, W., Hsu, W., Reiter, R. E., Lu, D. Y., Raman, S. S.
2018; 199 (5): 1218-1223
- **Automatic Classification of Ultrasound Screening Examinations of the Abdominal Aorta.** *Journal of digital imaging*
Morioka, C., Meng, F., Taira, R., Sayre, J., Zimmerman, P., Ishimitsu, D., Huang, J., Shen, L., El-Saden, S.

2016; 29 (6): 742-748

- **MR anatomy and pathology of the ulnar nerve involving the cubital tunnel and Guyon's canal.** *Clinical imaging*

Shen, L., Masih, S., Patel, D. B., Matcuk, G. R.

2015; 40 (2): 263-74