Stanford



Andrew Picel, MD

Clinical Associate Professor, Radiology

CLINICAL OFFICE (PRIMARY)

- **Stanford Radiology Dept**
  300 Pasteur Dr Rm H1330C
  Stanford, CA 94305
  Tel (650) 723-8406 **Fax** (650) 725-8957

Bio

BIO

Dr. Picel is a fellowship-trained, board-certified interventional radiologist at Stanford Health Care. He is also clinical associate professor in the Department of Radiology, Division of Interventional Radiology at Stanford University School of Medicine.

Dr. Picel specializes in diagnosing and treating disease with minimally invasive, image-guided procedures. His expertise includes treating liver tumors, benign prostatic hyperplasia, osteoarthritis, portal hypertension, chronic venous disease, uterine fibroids, pulmonary embolism, and varicose veins.

Dr. Picel's research interests include using embolization, a nonsurgical procedure that decreases blood loss, for patients with benign prostatic hyperplasia. He also studies new embolic materials and procedures to treat invasive placenta, chronic venous disease, portal hypertension, pulmonary embolism, and osteoarthritis.

Dr. Picel has published in many peer-reviewed journals, including the Journal of Vascular and Interventional Radiology, RadioGraphics, and the American Journal of Obstetrics & Gynecology. He has won multiple awards as a reviewer for the Journal of Vascular and Interventional Radiology. He also serves on the editorial board of the journal CardioVascular and Interventional Radiology. Dr. Picel has delivered lectures across the county and worldwide on various interventional radiology topics.

Dr. Picel is a member of the Society of Interventional Radiology standards committee and the maintenance of certification committee for the American Board of Radiology and Associate Program Director for the Interventional Radiology Residency.

CLINICAL FOCUS

- Prostatic artery embolization
- Genicular artery embolization
- Uterine artery embolization
- Treatment of liver tumors (TACE, TARE, ablation)

- Hemorrhoidal artery embolization
- Varicose vein ablation
- Treatment of chronic venous disease
- Portal hypertension (TIPS)
- Kidney cancer ablation
- Interventional Radiology

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Radiology

ADMINISTRATIVE APPOINTMENTS

- IR Associate Program Director, Stanford, (2019-2025)
- Associate Clinical Professor, Stanford, (2022- present)
- Assistant Clinical Professor, Stanford, (2019-2022)
- IR Residency and Fellowship Program Director, UC San Diego, (2018-2019)
- Assistant Clinical Professor, UC San Diego, (2015-2019)

HONORS AND AWARDS

- Fellow of the Society of Interventional Radiology, Society of Interventional Radiology (2025)
- Lifetime Centurion Reviewer, Journal of Vascular and Interventional Radiology (2023)
- Biodesign Faculty Fellowship, Stanford University School of Medicine (2019)
- RNSA Clinical Trials Methodology Workshop, Radiologic Society of North America (2019)
- Academic Medicine Leadership Training Program, National Center of Leadership in Academic Medicine (2018)
- Award for Excellence in Clinical Care, UC San Diego (2017)
- JVIR Editorial Fellow, Journal of Vascular and Interventional Radiology (2017)
- Academic Faculty Development Program, Association of University Radiologists (2016)
- Award for Excellence in Clinical Care, UC San Diego (2015)
- Chief Resident, UC San Diego Radiology (2014)

PROFESSIONAL EDUCATION

- Medical Education: Wake Forest School of Medicine (2007) NC
- Board Certification: Interventional Radiology, American Board of Radiology (2017)
- Fellowship: UCSD Vascular and Interventional Radiology Fellowship (2014) CA
- MD, UC San Diego , Radiology Residency and Interventional Radiology fellowship (2014)
- Residency: UCSD Dept of Radiology (2013) CA
- Residency: UCSD Surgery Residency (2010) CA
- Residency: University of Texas Medical Branch Radiology Residency (2009) TX
- Internship: UCSD Surgery Residency (2008) CA
- MD, Wake Forest University School of Medicine , Medicine (2007)
- BS, University of Georgia , Mathematics, Biology (2002)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Prostate artery embolization (PAE) for the treatment of lower urinary tract symptoms (LUTS) from benign prostatic hyperplasia (BPH).

Prophylactic balloon occlusion catheters and uterine artery embolization to reduce blood loss in patients with invasive placenta.

Geniculate artery embolization for relief of osteoarthritis related knee pain.

CLINICAL TRIALS

- Onyx™ Liquid Embolic IDE Clinical Study, Recruiting
- "Embolization Before Ablation of Renal Cell Carcinoma (EMBARC)", Not Recruiting
- (HALT) Embrace Hydrogel Embolic System (HES) Study of Embolization in Peripheral Arterial Bleeds, Not Recruiting
- Genicular Artery Embolization (GAE) for Osteoarthritic Knee Pain, Not Recruiting
- Prostatic Artery Embolization for the Treatment of Lower Urinary Tract Symptoms in Prostate Cancer Patients Undergoing Radiation Therapy, Not Recruiting

Publications

PUBLICATIONS

- **A motion-compensated reconstruction algorithm improves reader-assessed cone-beam CT image quality during TACE.** *Minimally invasive therapy & allied technologies : MITAT : official journal of the Society for Minimally Invasive Therapy*
  McNamara, K. L., Ng, A., Vezeridis, A. M., Martin, L., Mueller, K., Fischer, P., Liang, T., Picel, A. C.
  2026: 1-9
- **When "right" goes wrong: poor accuracy of calculated right adrenal vein aldosterone levels in subtyping primary aldosteronism.** *CVIR endovascular*
  Datta, S., Wang, R., Bhalla, V., Bahrainwala, J. Z., Seav, S., Picel, A. C., Wang, D., Hung, M. L.
  2026; 9 (1)
- **Early Percutaneous Cryoneurolysis for Pain Control After Rib Fracture for Older Patients: A Prospective Randomized Clinical Trial.** *Journal of the American College of Surgeons*
  Forrester, J. D., Abreo, A., Earley, M., King, J. M., Kesselman, A., Vezeridis, A. M., Picel, A. C., Kothary, N.
  2026
- **Efficacy and safety of sequential transarterial embolization and cryoablation of renal masses greater than 3 cm.** *Urologic oncology*
  Hung, M. L., Wang, R., Yu, C., Kim, J., Vezeridis, A. M., Picel, A. C., Gunn, A. J., Kothary, N.
  2025
- **Commentary on "Three-Month Magnetic Resonance Imaging Post-prostate Artery Embolization Predicts 1-Year Clinical Outcomes".** *Cardiovascular and interventional radiology*
  Picel, A. C.
  2025
- **Commentary on "Two-Year Outcomes of Prostatic Artery Embolization for Symptomatic Benign Prostatic Hyperplasia: An International, Multicenter, Prospective Study".** *Cardiovascular and interventional radiology*
  McNamara, K. L., Picel, A. C.
  2024
- **Percutaneous Cryoneurolysis for Pain Control After Rib Fractures in Older Adults.** *JAMA surgery*
  Wang, S., Earley, M., Kesselman, A., Vezeridis, A. M., Picel, A. C., Kothary, N., Forrester, J. D.
  2024

- **Commentary on "Safety of prostate artery embolization via transradial access versus transfemoral access".** *Journal of vascular and interventional radiology : JVIR*
  McNamara, K. L., Picel, A. C.
  2023

- **Intra-Operative Multivessel Embolization Reduces Blood Loss and Transfusion Requirements Compared to Internal Iliac Artery Balloon Placement During Cesarean Hysterectomy for Placenta Accreta Spectrum.** *Journal of vascular and interventional radiology : JVIR*
  Berman, Z. T., Boone, C. E., Melber, D. J., Ballas, J., Parikh, R., Ramos, G., Kelly, T., McHale, M., Picel, A. C., Roberts, A. C.
  2023

- **Commentary on "Long-Term Efficacy and Recurrence Prediction of Prostatic Artery Embolization for Lower Urinary Tract Symptoms Secondary to Benign Prostatic Hyperplasia" Xu X, et al. CVIR 2022.** *Cardiovascular and interventional radiology*
  McNamara, K., Picel, A. C.
  2022

- **Commentary on "Prostatic Artery Embolization (PAE) Using Polyethylene Glycol Microspheres: Safety and Efficacy in 81 Patients".** *Cardiovascular and interventional radiology*
  Zhan, C., Picel, A. C.
  2022

- **Commentary on "Single-Center Retrospective Comparative Study Evaluating the Benefit of Computed Tomography Angiography Prior to Prostatic Artery Embolization".** *Cardiovascular and interventional radiology*
  Zhan, C., Picel, A. C.
  2022

- **Placenta Accreta Spectrum Treatment with Intraoperative Multivessel Embolization: The PASTIME Protocol.** *American journal of obstetrics and gynecology*
  Melber, D. J., Berman, Z. T., Jacobs, M. B., Picel, A. C., Conturie, C. L., Zhang-Rutledge, K., Binder, P. S., Eskander, R. N., Roberts, A. C., Mchale, M. T., Ramos, G. A., Ballas, J., Kelly, et al
  2021

- **Placenta accreta spectrum treatment with intraoperative multivessel embolization to improve surgical outcomes: the PASTIME protocol**
  Melber, D., Berman, Z., Jacobs, M., Picel, A., Conturie, C. L., Zhang-Rutledge, K., Parast, M., Binder, P., Eskander, R., Roberts, A., McHale, M., Ramos, G. A., Ballas, et al
  MOSBY-ELSEVIER.2021: S214–S215

- **CT-guided Reflector Localization of a Previously Positive Axillary Lymph Node after Neoadjuvant Chemotherapy in a Breast Cancer Patient** *JOURNAL OF BREAST IMAGING*
  Kozlov, A. N., Picel, A.
  2020; 2 (6): 633–34

- **Outcomes of balloon occlusion in the University of California Morbidly Adherent Placenta Registry.** *American journal of obstetrics & gynecology MFM*
  Lee, A. Y., Ballah, D., Moreno, I., Dong, P. R., Cochran, R., Picel, A., Lee, E. W., Moriarty, J., Padgett, M., Nelson, K., Kohi, M. P.
  2020; 2 (1): 100065

- **Subcapsular hematoma resulting in hepatic ischemia as a complication of necrotizing pancreatitis.** *Radiology case reports*
  Duncan, D. P., Briese, A. K., Niemiec, S. n., White, R. n., Picel, A. C., Hahn, M. E.
  2020; 15 (4): 316–20

- **Prostatic artery anatomy and embolization for benign prostatic hyperplasia** *Multimodality Vascular Imaging: From Head to Toe*
  Cheng, S., Picel, A. C.
  2020

- **Physiology of Y90 radioembolization** *Image-Guided Interventions in Oncology*
  Picel, A. C., Sze, D.
  2020

- **Arterial Anatomy for Prostatic Artery Embolization** *PROSTATIC ARTERY EMBOLIZATION*
  Hoque, M. M., Cabatingan, K., Mittal, S., Picel, A., Isaacson, A. J.
  edited by Isaacson, A. J., Bagla, S., Raynor, M. C., Yu, H.

2020: 83–92

- **Prostatic Artery Embolization for Benign Prostatic Hyperplasia: Patient Evaluation, Anatomy, and Technique for Successful Treatment.** *Radiographics : a review publication of the Radiological Society of North America, Inc*
  Picel, A. C., Hsieh, T. C., Shapiro, R. M., Vezeridis, A. M., Isaacson, A. J.
  2019: 180195

- **Development and Use of Personalized Bacteriophage-Based Therapeutic Cocktails To Treat a Patient with a Disseminated Resistant Acinetobacter baumannii Infection (vol 61, e00954-17, 2017)** *ANTIMICROBIAL AGENTS AND CHEMOTHERAPY*
  Schooley, R. T., Biswas, B., Gill, J. J., Hernandez-Morales, A., Lancaster, J., Lessor, L., Barr, J. J., Reed, S. L., Rohwer, F., Benler, S., Segall, A. M., Taplitz, R., Smith, et al
  2018; 62 (12)

- **Endovascular Management of a Large Persistent Sciatic Artery Aneurysm**
  Inui, T. S., Picel, A. C., Barleben, A., Lane, J. S.
  ELSEVIER SCIENCE INC.2018: 312.e13–312.e16

- **Needle localization of small pulmonary nodules: Lessons learned** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
  Thistlethwaite, P. A., Gower, J. R., Hernandez, M., Zhang, Y., Picel, A. C., Roberts, A. C.
  2018; 155 (5): 2140–47

- **Prophylactic Internal Iliac Artery Occlusion Balloon Placement to Reduce Operative Blood Loss in Patients with Invasive Placenta** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
  Picel, A. C., Wolford, B., Cochran, R. L., Ramos, G. A., Roberts, A. C.
  2018; 29 (2): 219–24

- **Uterine fibroid embolization in a patient with lupus and previous venous thromboembolism** *Endovascular Today*
  Picel, A. C., Kohi, M. P., Spencer, E. B., Nelson, K. J.
  2018

- **Treating postpartum hemorrhage and invasive placenta** *Endovascular Today*
  Picel, A. C., Cochran, R. L., Nelson, K. J.
  2018

- **Endovascular treatment of pelvic congestion syndrom** *Endovascular Today*
  Picel, A. C., Roberts, A. C.
  2018

- **Development and Use of Personalized Bacteriophage-Based Therapeutic Cocktails To Treat a Patient with a Disseminated Resistant Acinetobacter baumannii Infection** *ANTIMICROBIAL AGENTS AND CHEMOTHERAPY*
  Schooley, R. T., Biswas, B., Gill, J. J., Hernandez-Morales, A., Lancaster, J., Lessor, L., Barr, J. J., Reed, S. L., Rohwer, F., Benler, S., Segall, A. M., Taplitz, R., Smith, et al
  2017; 61 (10)

- **Intravascular Ultrasound in the Creation of Transhepatic Portosystemic Shunts Reduces Needle Passes, Radiation Dose, and Procedure Time: A Retrospective Study of a Single-Institution Experience** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
  Kao, S. D., Morshedi, M. M., Narsinh, K. H., Kinney, T. B., Minocha, J., Picel, A. C., Newton, I., Rose, S. C., Roberts, A. C., Kuo, A., Aryafar, H.
  2016; 27 (8): 1148–53

- **Transcatheter Arterial Embolization with n-Butyl Cyanoacrylate for the Treatment of Acquired Uterine Vascular Malformations** *CARDIOVASCULAR AND INTERVENTIONAL RADIOLOGY*
  Picel, A. C., Koo, S. J., Roberts, A. C.
  2016; 39 (8): 1170–76

- **May-Thurner Syndrome and Horseshoe Kidney** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
  Nwoke, F., Picel, A. C.
  2016; 27 (3): 369

- **Foreign Body Ingestion Resulting in Hydronephrosis** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
  Ramaswamy, R. S., Picel, A. C.
  2015; 26 (5): 679

- **Endovascular Repair of a Ruptured Abdominal Aortic Aneurysm with Arteriovenous Fistula and Duplication of the Inferior Vena Cava** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
  Picel, A. C., Lane, J. S.
  2014; 25 (12): 1901–2
- **Essentials of Endovascular Abdominal Aortic Aneurysm Repair Imaging: Preprocedural Assessment** *AMERICAN JOURNAL OF ROENTGENOLOGY*
  Picel, A. C., Kansal, N.
  2014; 203 (4): W347–W357
- **Essentials of Endovascular Abdominal Aortic Aneurysm Repair Imaging: Postprocedure Surveillance and Complications** *AMERICAN JOURNAL OF ROENTGENOLOGY*
  Picel, A. C., Kansal, N.
  2014; 203 (4): W358–W372
- **Pericarditis, Superior vena cava syndrome, Congestive heart failure, Aortic stenosis, and Mitral stenosis** *Clinical Decision Support: Imaging*
  Picel, A. C., Baykaner, T.
  2012
- **An aberrant internal carotid artery discovered during evaluation of obstructive sleep apnea: A report of 2 cases with consideration of a possible association** *ENT-EAR NOSE & THROAT JOURNAL*
  Picel, A. C., Davidson, T. M.
  2011; 90 (1): 29–31
- **Polyarteritis Nodosa** *Diagnostic Imaging: Cardiovascular*
  Picel, A. C., Roberts, A.
  2008
- **Renal Artery Aneurysm** *Diagnostic Imaging: Cardiovascular*
  Picel, A. C., Roberts, A.
  2008
- **High-Flow Priapism** *Diagnostic Imaging: Cardiovascular*
  Picel, A. C., Roberts, A.
  2008
- **Fibromuscular Dysplasia Extremity** *Diagnostic Imaging: Cardiovascular*
  Picel, A. C., Roberts, A.
  2008
- **Ergotism** *Diagnostic Imaging: Cardiovascular*
  Picel, A. C., Roberts, A.
  2008

PRESENTATIONS

- Prostate artery embolization for BPH: understanding arterial anatomy for successful and safe treatment. - San Diego Radiological Society (December 4, 2018)
- Prostate artery embolization (PAE) for symptomatic benign prostatic hyperplasia (BPH) - UC San Diego Radiology Grand Rounds (December 4, 2018)
- GU Emergencies: post-partum hemorrhage and invasive placenta - 48th Annual Western Angiographic & Interventional Society Conference (October 7, 2018)
- Diagnosis, management, and treatment of varicose veins - UC San Diego Medicine Grand Rounds (July 12, 2017)