



## Andrew Picel

Clinical Associate Professor, Radiology

### CLINICAL OFFICE (PRIMARY)

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### Bio

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#### BIO

Andrew C. Picel, MD, is a board-certified interventional radiologist who specializes in diagnosing and treating disease with minimally invasive image guided procedures. These imaging techniques include X-ray, computed tomography (CT), magnetic resonance imaging (MRI) and ultrasound.

Dr. Picel was one of the first physicians in the region to test a minimally invasive therapy to treat severe lower urinary tract symptoms related to benign prostate hyperplasia (BPH), called prostate artery embolization (PAE). This now FDA-approved treatment does not have the sexual side effects of transurethral resection of the prostate (TURP), the standard treatment for men who have not responded to medications and lifestyle modifications. He currently works closely with urologists to evaluate and treat patients with BPH.

Dr. Picel provides treatment for individuals with circulatory system diseases, such as peripheral arterial and venous disease. He performs numerous procedures for the treatment of venous insufficiency and varicose veins. These procedures commonly include endovenous ablation and sclerotherapy. Clinically, Dr. Picel also has a special interest in interventional oncology and performs TACE and TARE to treat patients with hepatocellular carcinoma (HCC). He also performs uterine fibroid embolization and occlusion balloon placement for invasive placenta.

An assistant professor in the Department of Radiology at Stanford University, Dr. Picel trains interventional radiology fellows and residents. His research interests focus on prostate artery embolization and pelvic embolization for invasive placenta.

Outside of work, Dr. Picel enjoys sailing, spending time with family, and traveling.

#### CLINICAL FOCUS

- Vascular and Interventional Radiology

#### ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Radiology

## ADMINISTRATIVE APPOINTMENTS

- IR Residency and Fellowship Program Director, UC San Diego, (2018-2019)
- Assistant Clinical Professor, UC San Diego, (2015-2019)

## HONORS AND AWARDS

- 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

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

## Research & Scholarship

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### 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

- Prostatic Artery Embolization for the Treatment of Lower Urinary Tract Symptoms in Prostate Cancer Patients Undergoing Radiation Therapy, Recruiting
- A Humanitarian Device Exemption Treatment Protocol of TheraSphere For Treatment of Unresectable Hepatocellular Carcinoma, Not Recruiting
- Genicular Artery Embolization (GAE) for Osteoarthritic Knee Pain, Not Recruiting

## Publications

### PUBLICATIONS

- **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
- **Arterial Anatomy for Prostatic Artery Embolization** *PROSTATIC ARTERY EMBOLIZATION*  
Hoque, M. M., Cabatingan, K., Mittal, S., Picel, A., Isaacson, A. J., 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
- **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
- **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

## **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)