Catherine T. Vu, M.D., F.S.I.R.

Philosophy of Care

Interventional Radiology (IR) is a thriving field, delivering minimally invasive treatment over a spectrum of health care needs, from cancer therapy to acute injury management in trauma. Treatments that historically require open surgery can be performed with needles and catheters using image guidance, such as ultrasound, CT and fluoroscopy. IR is at the helm of "leading edge" medicine. Patients turn to us when they seek treatment alternatives to surgery.

I place quality and patient-centered care at the forefront, providing pre-procedure consultation and post-procedure management. I work collaboratively with primary care providers, as well as all medical and surgical specialties.

Clinical Interests

Dr. Vu's specific clinical interests are:

- Prostate artery embolization (PAE) for benign prostatic hypertrophy (BPH)
- Targeted cancer therapies
- Acute and chronic venous interventions
- Dialysis management
- Women's health.

She partners with Urology to offer prostate artery embolization (PAE) as a non-surgical treatment option for lower urinary tract symptoms (LUTS) and/or hematuria for patients with BPH.

She works with hepatologists and oncology specialists to provide multi-disciplinary care for patients with primary liver cancer (HCC) and metastatic disease to the liver, offering selective internal radiation therapy (Y-90 SIRT, also known as radioembolization), trans-arterial chemoembolization (TACE), and percutaneous thermal ablations.

She has a comprehensive venous practice, offering minimally invasive techniques in the treatment of venous diseases, including advanced IVC filter retrieval, venous re-canalization for chronic lower extremity deep venous thrombosis (DVT), May-Thurner syndrome, and complex venous access options for hemodialysis patients.

The scope of her women's health practice includes uterine fibroid embolization and pelvic congestion syndrome.

Title

Chief, Division of Vascular and Interventional Radiology

Professor

Specialty

Vascular and Interventional Radiology, Radiology - Vascular, Radiology - Interventional Radiology

Department

Radiology

Division

Vascular and Interventional Radiology

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Education	M.D., George Washington University School of Medicine, Washington DC 2006 B.S., University of San Francisco, San Francisco CA 1994
Internships	Preliminary Medicine, Georgetown/Washington Hospital Center, Washington DC 2006-2007
Residency	Diagnostic Radiology, University of Colorado, Denver CO 2007-2011
Fellowships	Interventional Radiology, University of Colorado, Denver CO 2011-2012
Board Certifications	American Board of Radiology, Diagnostic Radiology American Board of Radiology, Vascular and Interventional Radiology
Professional Memberships	American College of Radiology Society of Interventional Radiology Western Angiographic & Interventional Society
Honors and Awards	M.D., Distinctive Graduate (top 15%), The George Washington University School, 2006
Select Recent Publications	Taebi A, Vu CT, Roncali E. Multi-scale computational fluid dynamics modeling for personalized liver cancer radioembolization dosimetry. J Biomech Eng. 2020;143(1):011002 (12 pages). doi: 10.1115/1.4047656. Taebi A, Pillai RM, Roudsari BS, Vu CT, Roncali E. Computational Modeling of the Liver Arterial Blood Flow for Microsphere Therapy: Effect of Boundary Conditions. Bioengineering (Basel). 2020 Jun 29;7(3):64. doi:10.3390/bioengineering7030064. PMID:32610459. Roncali E, Taebi A, Foster C, Vu CT. Personalized Dosimetry for Liver Cancer Y-90 Radioembolization Using Computational Fluid Dynamics and Monte Carlo Simulation. Ann Biomed Eng. 2020 May;48(5):1499-1510. doi:10.1007/s10439-020-02469-1. Epub 2020 Jan 31.

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Chen L, DeMattos A, Bang H, Vu CT, Gandhi M, Alnimri M, Gallay B, Fananapazir G. Angioplasty versus stent in TRAS. Clinical Transplantation. Epub 2018 Feb 2. doi:10.1111/ctr.13217

Fananapazir G, Bashir MR, Corwin MT, Lamba R, Vu CT, Troppmann C. Comparison of ferumoxytol-enhanced MRA with conventional angiography for assessment of severity of transplant renal artery stenosis. J Magn Reson Imaging. 2017 Mar;45(3):779-785. doi:10.1002/jmri.25421. Epub 2016 Aug 9. PMID:27504713.

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Graft arterial stenosis in kidney en bloc grafts from very small pediatric donors: incidence, timing, and role of ultrasound in screening. Am J Transplant. 2015 Nov;15(11):2940-6. doi:10.1111/ajt.13365. Epub 2015 Jul 7. PMID:26153092.

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