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THE VASCULAR EXPERTS —

Advanced Medical Care from the Nation's Top Team of Vascular Surgeons — Founded in 2001 to deliver expert vascular medical and surgical care to the communities of Southern Connecticut and New York, The Vascular Experts is



now one of the largest groups of board-certified vascular surgeons in the country.

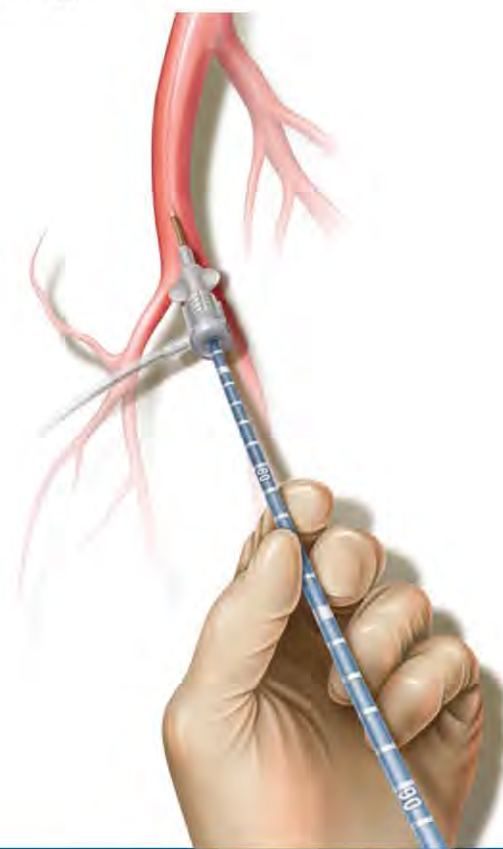
NEW TECHNOLOGY:

Drug-coated Balloons (DCB's)

A new era in the treatment of peripheral artery disease

The last decade has seen an explosion in new techniques and devices for peripheral artery disease (PAD). These percutaneous endovascular approaches have allowed for the treatment of limb-threatening ischemia in older patients with multiple co-morbidities, who may not previously have been candidates for revascularization. Procedures including atherectomy (plaque excision), angioplasty, and stent placement have truly revolutionized the field. These approaches continue to become further refined with smaller device profiles, more options for sizing, and better long-term outcomes.

covered with particular formulations of Paclitaxel – an antiproliferative agent for the prevention of restenosis (recurrent narrowing).

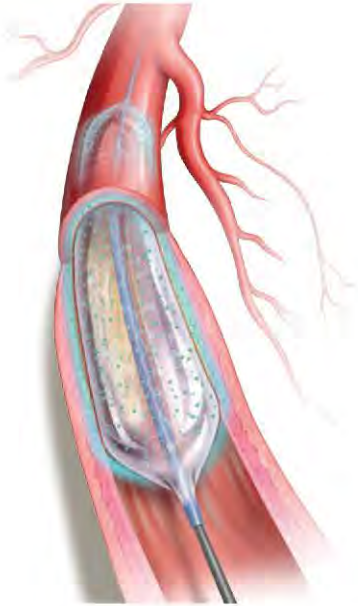


The newest advancement has been the recent introduction of drug-coated balloons (“DCBs”). These are standard angioplasty balloons that have been

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Continued...



The balloon is inflated in the region being treated, and the drug is transferred to the arterial wall.

The benefit of these balloons was recently published in the *New England Journal of Medicine* in July of 2015 (Rosenfield K, Et al. Trial of a Paclitaxel-Coated Balloon for Femoropopliteal Artery Disease. *NEJM* 2015; 373:145-153.

Paclitaxel, originally used as a chemotherapeutic drug, was discovered in the bark of the Pacific Yew tree, and has been used successfully in the coronary arteries. Adding this drug to our current interventions will hopefully limit neointimal hyperplasia (scar tissue) that commonly forms following interventions on the vasculature.

The Vascular Experts have already begun treating patients with these new breakthrough balloons. Hospitals across the region have embraced these products, and many have stock on the shelf today.

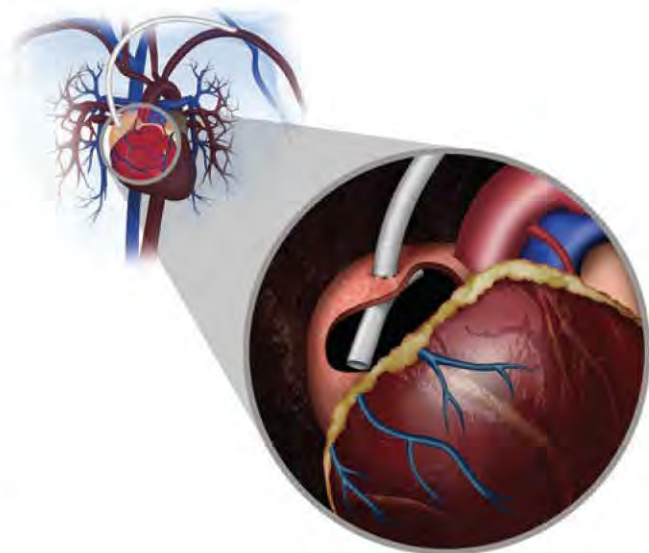


Recent Publication

Lee Goldstein, MD, FACS, CWS recently authored another publication in the *Journal of Vascular Access*. Minimally invasive axillary to right atrial graft for hemodialysis access utilizing the intraluminal flow guard graft describes a creative approach to challenging dialysis access. The patient described has significant developmental disabilities and multiple, complex central venous occlusions. When he presented he had an indwelling transhepatic catheter that would routinely become dislodged by the patient. The patient was treated with a minimally invasive axillary to right atrial graft across the chest wall. The access is still in use years after placement.

Goldstein LJ, Balabanoff C, Carillo R, de Mendoza VL, Bornak A, Tabbara M. Minimally invasive axillary to right atrial graft

for hemodialysis access utilizing the intraluminal flow guard graft. J Vasc Access. 2015;16(5):e87-e88. doi:10.5301/jva.5000441.



Ask Dr. Goldstein about:

Pulmonary Embolism



Improvement in Care:

Endovascular treatment of acute pulmonary embolism with ultrasound-facilitated catheter-directed low-dose thrombolysis.

A major shift is occurring in the treatment of acute pulmonary embolism. Traditionally treated with anticoagulants or systemic thrombolysis, these events were often fatal, or resulted in long-term morbidity and mortality (pulmonary hypertension). Additionally, systemic thrombolysis has the potential to cause hemorrhagic stroke.

A new method of delivering low dose thrombolytic therapy via a catheter or catheters placed in the pulmonary arteries allows treatment of acute pulmonary embolism with fewer complications. This catheter produces high-frequency ultrasonic energy, which makes the clot more permeable to thrombolytic drugs. Ideal patients for this approach have massive or submassive pulmonary emboli with strain on the right heart.

This summer the SEATTLE II study was published in JACC Cardiovascular Interventions. Though a single arm study, it shows the safety and efficacy of this technique. Additionally, there was a significant decrease in post-procedure pulmonary hypertension. This can relieve patients of devastating long term complications.

This therapy is available in Bridgeport Hospital. Dr. Lee Goldstein, working along with Drs. Edward Tuohy, Mitchell Driesman, and Robert Fishman, has successfully begun treating patients.



Endovascular treatment of acute pulmonary embolism with ultrasound-facilitated catheter-directed low-dose thrombolysis.

The Vascular Experts —

We have state-of-the-art facilities in multiple locations for angioplasty, endovascular surgery, sclerotherapy and minimally invasive surgical procedures to treat vascular disease.

Diagnostic, Preventive Care & Treatment Services

Our goal is to deliver the best patient experience with the highest level of patient care. We achieve this through the use of cutting-edge medical technology and the use of modern endovascular therapies (angioplasty/stent) as well as traditional procedures for treatment of vascular disease.

Our diagnosis and treatment services include:

- **Diagnostic testing** – with non-invasive methods such as Ultrasound and PVR
- **Minimally invasive treatment** – with non-surgical procedures
- **Surgical treatment** – performed in house or at local hospitals

Featured Doctor - Lee J. Goldstein, MD, FACS



Lee J. Goldstein is a board certified general and vascular surgeon who joined The Vascular Experts in 2014, after spending 5 years as an Assistant Professor of Surgery at the University of Miami. While in Miami, Dr. Goldstein had been the Principal Investigator at the University for several national vascular surgery research trials including the Percutaneous Aneurysm Repair (PEVAR) Trial.

During his career, he has authored dozens of peer-

reviewed research articles and abstract presentations at national meetings. He graduated from Yale University School of Medicine and continued his general surgery training at The Hospital of the University of Pennsylvania. He further specialized in vascular and endovascular surgery at The New York Presbyterian Hospital (Cornell and Columbia Universities).

In 2011, Dr. Goldstein became a Certified Wound Specialist (CWS, American Board of Wound Management), and has an active interest in wound care, limb salvage, and amputation prevention. He has expert experience treating carotid disease, abdominal aneurysms (including both open surgery and complex endovascular repair), and venous disorders. Dr. Goldstein is a Fellow of the American College of Surgeons, a member of the Vascular and Endovascular Surgery Society, the Association for Advanced Wound Care, and the South Florida Society for Vascular Surgery.

Dr. Goldstein operates at Bridgeport Hospital and other area hospitals. He sees patients by appointment at our Stratford location.

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