

## Superior Vascular Care

Vascular surgery is an integral component of Beebe Healthcare's Cardiac & Vascular Services program that includes vascular diagnostic testing and other vascular nonsurgical procedures. Beebe Healthcare's experienced vascular surgeons, with support from surgical teams and the latest technologies, perform



surgeries to either open or repair blood vessels, other than the ones in the heart, so that blood flows more freely to the body. These vascular surgeons provide emergency coverage 24 hours a day, 7 days a week at Beebe.

Vascular disease can lead to disability, amputation, stroke, aneurysms, and

even death. It is caused when arteries are blocked, such as in the disease of atherosclerosis. Beebe's Vascular Team performs a wide variety of vascular surgeries at the Medical Center in Lewes. In addition, the Vein Center allows patient-centered care for most vein diseases and illnesses. Vascular procedures performed at Beebe include:

**Carotid endarterectomy surgery:** This is a common surgery performed at the Medical Center in Lewes and an extremely important one to the health and well-being of patients. It is performed when the patient has received a diagnosis of a blockage in one or both of the carotid arteries, which are the main vessels carrying blood to the brain. Without correction a blockage may lead to a life-threatening stroke.

**Abdominal aortic aneurysm endovascular repair:** This procedure repairs an abdominal aortic artery that has an aneurysm, which is a bulge in the side of the artery wall. This artery is large and carries blood from the heart to the rest of the body. An aneurysm has the potential to rupture, thus becoming life-threatening. This repair is performed through the arteries, thus avoiding major surgery, in most cases.

**Lower extremity bypass:** This surgical procedure improves circulation in the lower extremities through the creation of a new path for blood to flow around a blockage.

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### Beebe Vascular Surgeons



#### CARLOS NEVES, MD

*Board Certified in Vascular Surgery;  
Fellowship Trained in Vascular and  
Endovascular Surgery*

Dr. Carlos Neves is Board Certified in Vascular Surgery. He completed Fellowship training in Vascular and Endovascular Surgery at Cooper University Hospital in New Jersey. He received his medical degree at Rutgers University/Robert Wood Johnson Medical School in New Jersey and did a surgical internship at Temple University Hospital in Philadelphia, where he also completed his Surgical residency.

Dr. Neves joined Beebe in 2015. He specializes in both open and endovascular (minimally invasive) repair of aneurysm disease as well as carotid artery surgery for stroke prevention. He offers percutaneous or incision-less repair of aortic aneurysms. Other areas of interest include: complex lower extremity endovascular reconstructions with minimally invasive procedure with balloon angioplasty, atherectomy and stenting for peripheral arterial disease, complex lower extremity bypass procedures, carotid artery stenting, hemodialysis access, placement and retrieval of IVC filters, and treatment of varicose veins and all types of venous disorders. Dr. Neves also received training in the evaluation and minimally invasive treatment for pelvic congestion syndrome.



#### SEAN RYAN, MD

*Board Certified in Vascular Surgery;  
Fellowship Trained in Vascular and  
Endovascular Surgery*

Dr. Sean Ryan is Fellowship Trained in Vascular and Endovascular Surgery. He received his medical degree at Rutgers University/Robert Wood Johnson Medical School in New Jersey. He completed his Surgical residency at Christiana Care Health System. He spent an extra year of training during his residency in a laboratory to work on tissue regeneration and teaching anatomy at the University of Delaware.

Dr. Ryan joined Beebe Healthcare in 2015. He specializes in both open and endovascular (minimally invasive) repair of aneurysm disease. He offers percutaneous or incision-less repair of aortic aneurysms. Other areas of clinical interest include: complex endovascular treatments—balloon angioplasty, atherectomy, stenting—of peripheral arterial disease, lower extremity revascularization (bypass) procedures, carotid artery surgery and stenting, permanent hemodialysis access for end-stage renal disease, placement and retrieval of IVC filters, and the management of the full spectrum of venous disease, including treatment of varicose veins of the legs and reticular (spider) veins of the hands, arms, and legs. Dr. Ryan also received training in the evaluation and surgical management of thoracic outlet syndrome (TOS).

## BEEBE VASCULAR SERVICES PROCEDURES INCLUDE:

- Abdominal aortic aneurysm repair
  - > Open/Endovascular
- Limb salvage revascularization
- Endovascular stent
- Carotid endarterectomy/stent
- Dialysis access for nephrology patients
- Lower extremity revascularization
  - > Open/Endovascular
- Balloon angioplasty
- Thoracic outlet syndrome management
- Minimally invasive venous procedures

The Beebe Vein Center offers a full spectrum of treatments for varicose veins and spider veins.

## SYMPTOMS OF VASCULAR DISEASE

### PERIPHERAL ARTERIAL DISEASE

- Pain in the calf or thigh after walking a short distance
- Changes in skin color, or foot sores that don't heal

### VENOUS INSUFFICIENCY

- Swelling, pain, aching sensation of the legs
- Discoloration, ulcers of the lower legs
- Varicose veins, spider veins, reticular veins

### STROKE/CAROTID ARTERY DISEASE

- Brief loss of vision in one eye
- Difficulty speaking or forming words
- Temporary weakness in an arm or leg

## NON-INVASIVE VASCULAR TESTING

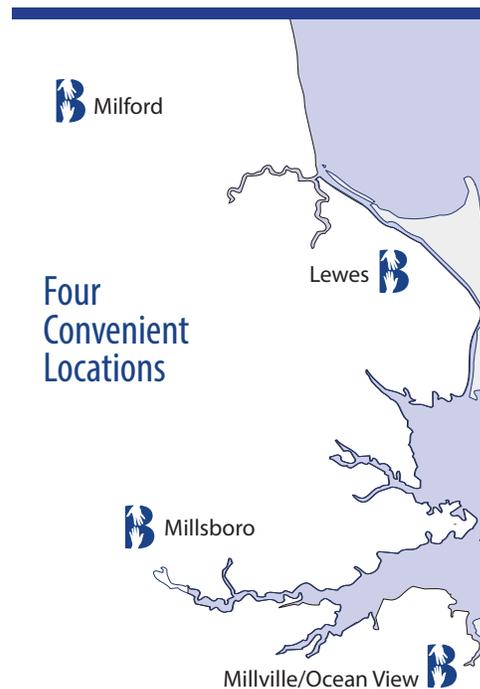
Non-invasive peripheral vascular testing allows the physician to make a clinical diagnosis without submitting the patient to costly, uncomfortable, and complicated invasive procedures. Non-invasive vascular studies show the functional aspect of the vessels rather than the structural changes that are indicated by an angiogram.

Beebe Healthcare offers convenient Vascular labs at the medical center in Lewes, at Beebe Vascular, and at the Millsboro outpatient lab location. Both have been accredited by the Intersocietal Commission for the Accreditation of Vascular Laboratories. They have state-of-the-art equipment, including color-flow duplex, which is capable of the most sophisticated non-invasive diagnostic procedures available. Tests performed at these labs provide physicians with an in-depth evaluation of the cerebrovascular, peripheral arterial, and venous systems.

Testing is done both for outpatients and inpatients. Most procedures require 30 minutes to perform and are painless. Interpretation of test results is provided by Board Certified vascular surgeons.

Patients must be referred to the Beebe Vascular Lab by a doctor. Procedures may be scheduled by calling Outpatient Scheduling Services (302) 645-FAST (3278).

**For more information, go to [www.beebehealthcare.org/beebe-vascular](http://www.beebehealthcare.org/beebe-vascular)**



**Four Convenient Locations**

**Lewes:** 33664 Bayview Medical Dr., Unit 2

**Milford:** 810 Seabury Ave.

**Millsboro:** 232 Mitchell St., 3rd Floor

**Millville/Ocean View Area:** 32550 Doc's Place, Unit 1 (Rt. 26), Millville

Phone: (302) 644-4954 • Fax: (302) 645-5481