

# SAINT VINCENT NEUROSCIENCES



The Saint Vincent Neurosciences program provides the region's most advanced treatment of neurological conditions with innovative procedures, cutting edge technology and an expert team of skilled neurosurgeons from Saint Vincent Neurosurgery, the region's only neurointerventionalist and experienced neurologists. For back and neck pain, our highly skilled specialists provide comprehensive services to relieve symptoms – from evaluations to proven physical therapies to state-of-the-art surgical procedures. Additional features of our advanced neurosciences program, which continues to raise the bar in regional health care, are listed below.

## SAINT VINCENT STROKE CENTER

The Saint Vincent Stroke Center features a 24/7 stroke alert team, the latest 3-D imaging technology and the region's only specially trained neurointerventionalist, Charles Romero, MD. Saint Vincent was among the first hospitals in the country to install Phillips Flat Panel Digital Biplane Technology for Neurosciences. This imaging technology lengthens the window of opportunity for stroke patients to receive innovative procedures that can stop a stroke in its tracks and reverse the effects of some strokes as they are happening. The Saint Vincent Stroke Center is nationally accredited and recognized, having received the Gold Seal of Approval™ from The Joint Commission for Primary Stroke Centers and the American Heart Association/American Stroke Association Get With The Guidelines<sup>SM</sup> Stroke Silver Performance Achievement Award. These awards recognize Saint Vincent's continuing commitment to the highest standards of stroke care.

## SAINT VINCENT NEUROINTERVENTION

Neurointervention is a minimally invasive approach to the treatment of vascular conditions of the brain and spine. This treatment involves the use of catheters to target problems from inside the blood vessel. Neurointerventionalists are specially trained in using highly advanced imagery, such as digital biplane technology, to guide them in treating blood vessel disorders of the head, neck and spine. This allows a neurointerventionalist to access, diagnose and treat conditions such as stroke, aneurysms and tumors, which would normally require conventional surgery.

## SLEEP CENTER

The Saint Vincent Sleep Center is accredited by the American Academy of Sleep Medicine and meets the National Standards for Quality and Excellence. Our sleep medicine physicians are also board eligible or board certified by American Academy of Sleep Medicine and consult with other physicians specializing in pulmonary medicine, neurology, otolaryngology and psychiatry to provide patients with thorough diagnoses and methods of treatment.

## NEUROSCIENCES

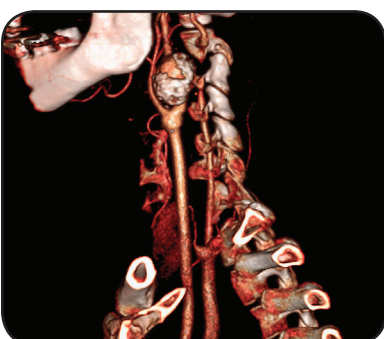
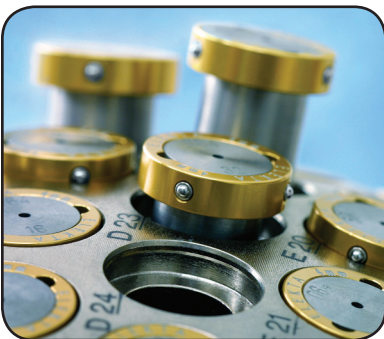
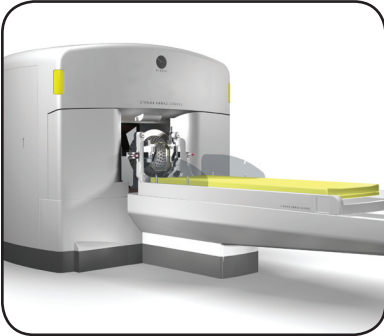
### Spinal Surgery

Disc disease  
Cervical disc herniation  
Thoracic and lumbar disc herniations  
Kyphoplasty  
Vertebroplasty  
Spinal biopsies  
Traumatic injuries  
Spinal tumors and cancer  
Spinal fusion and instrumentation (cervical, thoracic and lumbar)  
Peripheral nerve tumors  
Metastasis  
Minimally invasive spine surgery

### Cranial Neurosurgery

Brain tumors (primary or metastatic)  
Skull-based tumors (meningioma, acoustic neuroma, pituitary adenoma)  
Aneurysms  
Hemorrhages  
Arteriovenous malformations (AVMs)  
Hydrocephalus  
Developmental abnormalities

continued on back



## **Neurointervention/Digital Biplane Technology**

Strokes

Aneurysms

Arteriovenous malformations (AVMs)

Cerebral artery stenosis

Carotid artery stenosis

## **Gamma Knife**

Benign tumors (acoustic neuromas, meningiomas, pituitary tumors, hemangioblastomas chordomas and pineal tumors)

Malignant tumors (metastases, glial tumors, ocular melanomas)

Vascular disorders (arteriovenous and cavernous malformations)

Functional disorders (trigeminal neuralgia, certain types of epilepsy)

## **Deep Brain Stimulation**

Parkinson's disease

Essential tremor

Dystonia

## **Additional Neuroscience Services**

Carpal Tunnel Syndrome Treatment

Neurodiagnostics

Neuroradiology

Neuro-oncology

Neuro-rehabilitation

## **Providers**

Daniel Muccio, MD

Wm. Paul Diefenbach, MD

Charles Romero, MD

John Flamini, MD

Leonard Leone, MD

John Sullivan, MD

Robert Fine, MD

Richard Kocan, MD

## **Saint Vincent Neurosurgery**

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814-452-7809

[www.saintvincenthealth.com/neurosciences](http://www.saintvincenthealth.com/neurosciences)

## **Saint Vincent Neurointervention**

232 West 25 Street • Erie, PA 16544

814-452-7863



*We know how to treat people.™*