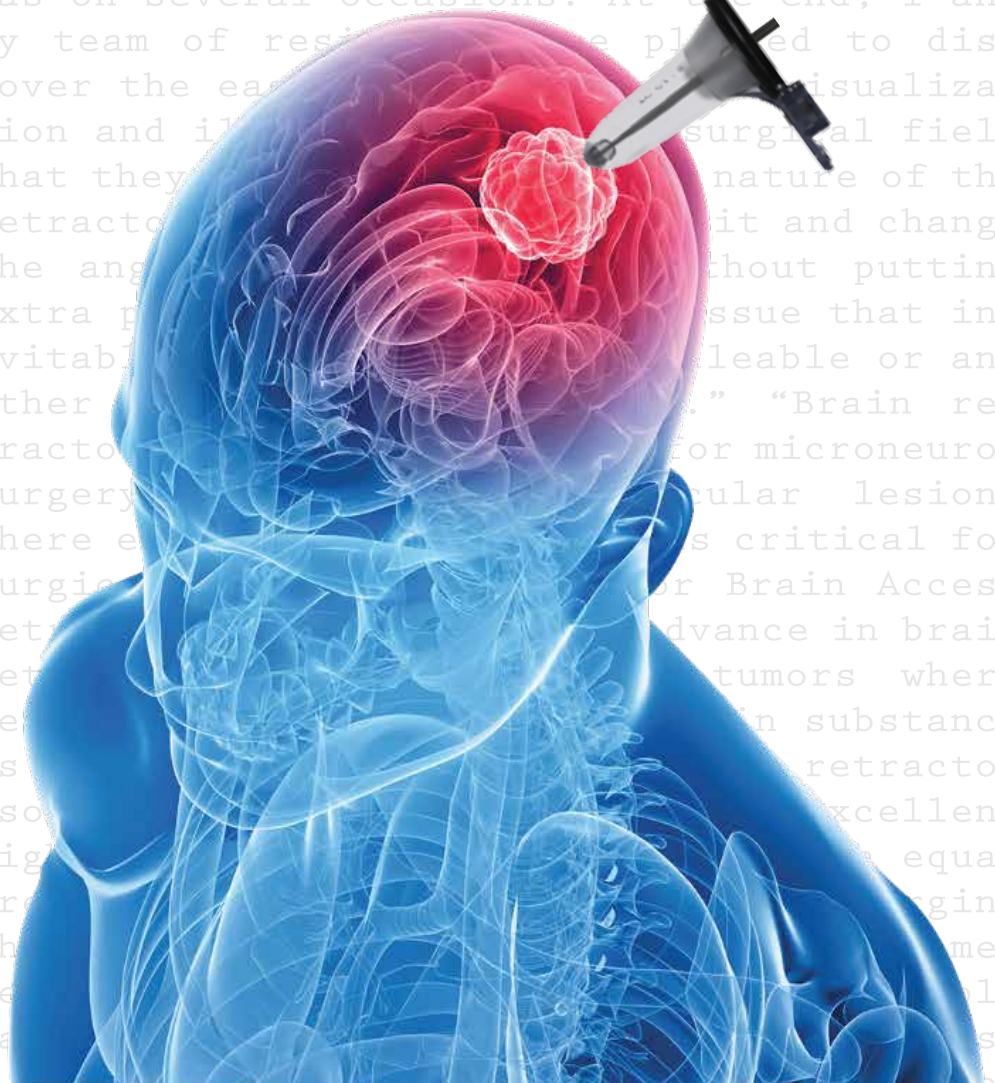


THE VIEWSITE BRAIN ACCESS SYSTEM



Targeting Solutions in Neurosurgery.

“Transparent tubular retractors provide unique means of deep visualization and even force distribution at the retracted brain tissue. Although the VYCOR tubular retractors are originally designed for removal of deep subcortical tumors, we have used them to access and evacuate intracerebral hematomas on several occasions. At the end, I and my team of residents were pleased to discover the ease of use, visualization and illumination of the surgical field that they provided. The nature of the retractors allowed us to adjust the orbit and change the angle of the approach without putting extra pressure on the brain tissue that inevitably occurs with craniotomy or any other approach.” “Brain retractor systems are ideal for microneurosurgery of small, vascular lesions where extra care is critical for surgical approach. The Brain Access Retractor System is an advance in brain retractor systems for tumors where less brain tissue is in substance is exposed. The retractor is isolated, providing excellent light and visualization of the equal pressure region. The system is completely adjustable and easy to use. I have used



VYCOR MEDICAL WAS FOUNDED ON THIS BASIC CHALLENGE

“THERE MUST BE A BETTER WAY”

A better way to access surgical locations without unduly damaging surrounding tissue. A less invasive means to perform critical procedures, so that collateral trauma can be minimized and postoperative recovery accelerated.

Vycor Medical is committed to making neurosurgical brain, spinal and surgical procedures safer and more effective. Vycor Medical’s innovative medical instruments are designed to optimize neurosurgical site access, reduce patient risk, accelerate recovery, and add tangible value to the professional medical community.

The ViewSite Vision To bring to market devices which promote safer procedures that revolutionize surgery across multiple disciplines. We plan on achieving this by working directly with world leaders in their respective spaces who are willing to pioneer change for better patient safety and post operative outcomes. In short, ViewSite was originated to advance the medical community with safer surgical devices: in the brain and the spine. We invite you to learn more about how ViewSite is changing the landscape of surgery – one access system at a time.

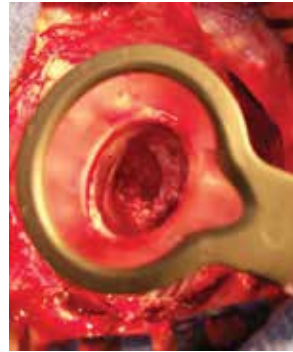
The most commonly instruments used in brain retraction procedures are ribbon or blade retractors, however neurosurgeons have a need for devices that provide better surgical outcomes, benefitting both the surgeon and the patient. Technologies such as Image Guided Surgery (IGS) are dependent upon the system recognizing key components (i.e. retractors) and having them become a recognized portion of the system and the procedure.

VBAS IS A REVOLUTIONARY APPROACH IN BRAIN ACCESS AND RETRACTION

Each VBAS system consists of an introducer and a working channel port that allows the surgeon a seamless entry to the targeted site while distributing brain tissue evenly in a 360° dispersion pattern. Other VBAS benefits include superior binocular vision to see in and around the surgical site; multiple sizes in different widths and lengths to meet all surgical needs and compatibility with standard surgical arms to avoid accidental displacement or movement during surgery.



The **VBAS** in an intraoperative application



The **VBAS** provides an impeccable field of vision

The VBAS should be considered for, but not limited to, the following pathologies:

- Adenocarcinoma
- Astrocytoma
- Brain Metastases
- Brain Tumors
- Cavernous Angioma
- Cavernous Hemangiomas
- Central Neurocytomas
- Cerebral Cavernous Malformations
- Choroid Plexus Tumors
- Colloid Cyst
- Dermoid & Epidermoid Tumors
- Epydemomas
- Gangliomyomas
- Gliocytomas
- Gliomas
- Hemangiomas
- Intracerebral Hemorrhages
- Intraventricular Tumors & Lesions
- Meningiomas
- Oligodendrogliomas
- Subependymal Giant Cell Astrocytomas (SEGA)
- Subependymoma

VBAS FEATURES & BENEFITS

Elliptical Shape Design Distributes the brain tissue evenly eliminating the need to pull the brain in any one direction.

Unique Introducer Shape Allows for a seamless entry to the targeted site and minimizes local pressure. Allows for dissection through the opening. Minimizes brain disruption and tissue trauma.

Optically Clear Plastic Helps visualize surrounding tissue.

Conical Port Design Provides superior binocular vision of the surgical site.

Compatible With Standard Surgical Arms Enables steady access to avoid accidental displacement or movement during surgery. Allows for use of standard existing equipment.

Compatible With Neuronavigational Systems Introducer has a cup which accommodates many brands of navigational pointers/probes.

Multiple Sizes The TC Model is available in three lengths and five widths.

Self Locking Introducer and Port The ViewSite has just two parts- an introducer and a working channel port that are secured by a spring-loaded latch.

TC MODEL WORKING CHANNEL DIMENSIONS

| Part # | Width | Height | Length |
|-----------------|---------------|--------|--------|
| TC060405 | 6mm | 4mm | 5cm |
| TC060407 | 6mm | 4mm | 7cm |
| TC120803 | 12mm | 8mm | 3cm |
| TC120805 | 12mm | 8mm | 5cm |
| TC120807 | 12mm | 8mm | 7cm |
| TC171103 | 17mm | 11mm | 3cm |
| TC171105 | 17mm | 11mm | 5cm |
| TC171107 | 17mm | 11mm | 7cm |
| TC211503 | 21mm | 15mm | 3cm |
| TC211505 | 21mm | 15mm | 5cm |
| TC211507 | 21mm | 15mm | 7cm |
| TC282003 | 28mm | 20mm | 3cm |
| TC282005 | 28mm | 20mm | 5cm |
| TC282007 | 28mm <td 20mm | 7cm | |



Model: TC120805

VBAS assembled with the Introducer placed into the Working Channel Port.

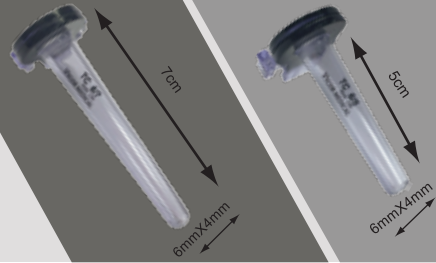
VBASmini

Designed to be the smallest, clear brain access device that has a large enough working channel to be useful in surgery.



"There is no doubt that the VBASmini is yet another step towards minimally invasive surgery while maintaining broad functionality".

-Dr. Gary Magram - Medical Director of Neurosurgery at Children's Hospital in California with over 20 years of surgical experience.



VBASmini Features & Benefits



- Designed for minimally invasive work and can be used for a wide variety of procedures. The devices:
 - Allow the passage of standard ventricular catheters and small instruments to grasp and withdraw tissue for a biopsy; are designed to allow retrieval of a larger specimen than through a conventional neuro-endoscope
 - Provide for greater mobility of an endoscope and instruments than through a peel away sheath
 - Permit irrigation fluid to flow out thus preventing inadvertent excessive intraventricular pressure to build up
 - Accommodate a micro-bipolar for hemostasis. Other techniques such as insertion of hemostasis materials or gels are also possible
- Largest clear device that will fit through a burr hole.
- Smooth, rounded distal tip facilitates the parting of the brain tissue while the devices transparent walls provide for excellent visibility.
- Despite its size, VBASmini has been designed to be sturdy thus allowing for manipulation.

TESTIMONIALS

The ViewSite Brain Access System has been used in surgeries with excellent clinical results.

Here is what some of the neurosurgeons that used VBAS had to say:

“Transparent tubular retractors provide unique means of deep visualization and even force distribution at the retracted brain tissue. Although the VYCOR tubular retractors are originally designed for removal of deep subcortical tumors, we have used them to access and evacuate intracerebral hematomas on several occasions. At the end, I and my team of residents were pleased to discover the ease of use and unique visualization and illumination of the surgical field that they deliver. The tubular nature of the retractor allows one to rotate it and change the angle of the approach without putting extra pressure on the brain tissue that inevitably occurs when using malleable or any other ribbon-type retractors.”

Konstantin V. Slavin, MD
University of Illinois

“Brain retractors were first designed for microneurosurgery, primarily for vascular lesions where elevation of the brain is critical for surgical treatment. The Vycor Brain Access Retractor System is a major advance in brain retraction for intracranial tumors where lesion isolation within the brain substance is top priority. A single tubular retractor isolates pathology easily with excellent lighting. The brain is retracted with equal pressure around the isolated lesion margin. The retractor can be easily used with frameless stereotactic systems and is remarkably easy to reposition during tumor resections. I believe the Vycor system is a much-needed upgrade to preexisting retractor systems, particularly for resection of intraaxial tumors.”

Donald M. O'Rourke, MD
Associate Professor, Department of Neurosurgery
University of Pennsylvania

“Brain retractor options have remained essentially unchanged for many years. I began using tubular retractors primarily designed for spinal surgery on select cranial procedures a few years ago to improve visibility, limit brain retraction and injury and improve ease of tumor removal. The Vycor retractor is an idealized version of this concept and I believe represents an outstanding retractor option for many intrinsic brain tumors and intra-ventricular lesions”.

David J. Langer, MD
Director of Cerebrovascular Surgery
North Shore LIJ



Targeting Solutions in Neurosurgery.

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