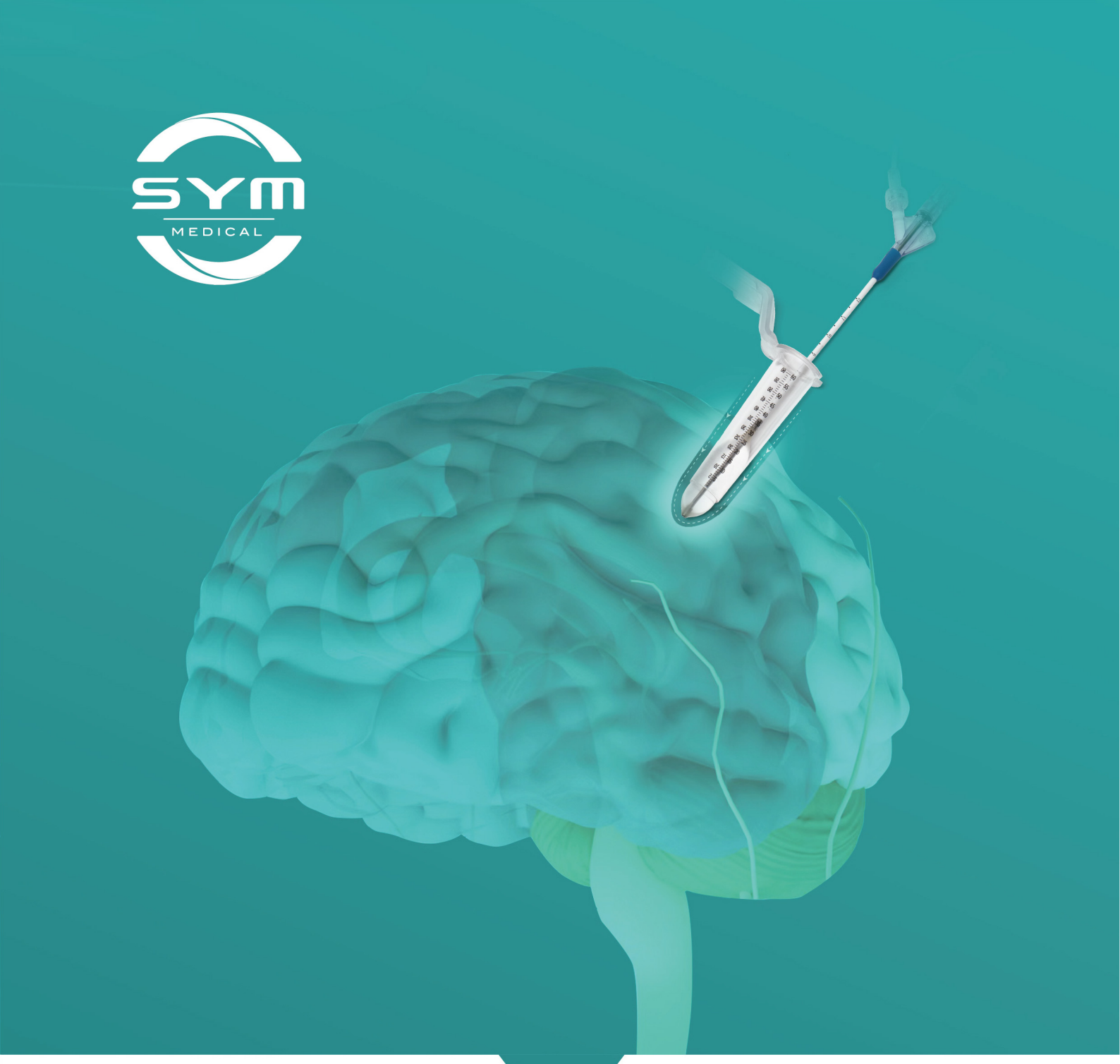
SYM MEDICAL



Cerebral Corridor Creator

The World First Neurosurgery Access by Soft Retraction

SYM-LAB

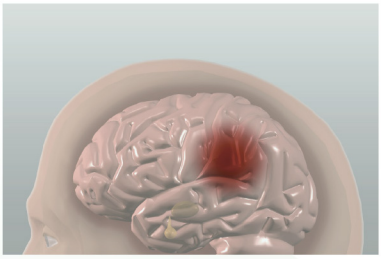
SYM is devoted to the innovative application of medical balloon technique to better serve patients and medical workers worldwide since its establishment in 1995.

Healthcare professionals are the users of medical devices as well as the inventors. Their expertise and creativity are the engine of healthcare innovation. SYM is committed to working hand in hand with experienced and creative medical workers to successfully transform their wisdom and ideas into innovative medical products that can be well accepted by market in the shortest possible time.

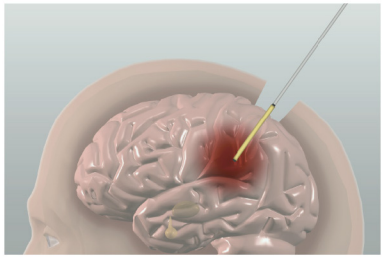
Indications

Cerebral Corridor Creator works as a brain tissue retractor and holder device, and provides a surgical pathway to neurosurgery operation. It is intended for the following situations:

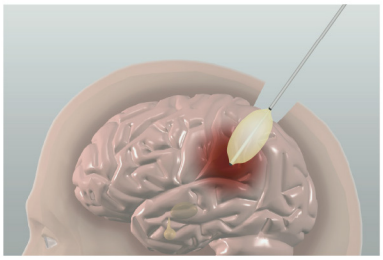
- Hypertensive intracerebral hemorrhage (basal ganglia, lobes, thalamus, ventricles).
- Retractor with various auxiliary operation methods.



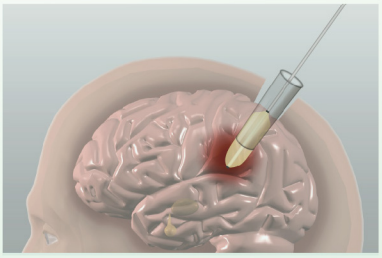
01-Evaluate the lesion location



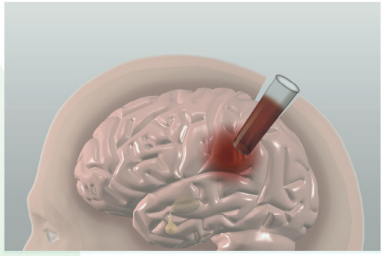
02-Introduce the balloon catheter and verify the lesion location



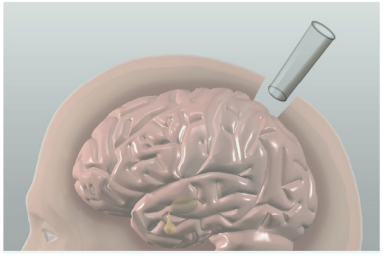
03-Inflate and deflate the balloon to create surgical pathway



04-Introduce the retractor via inflated balloon



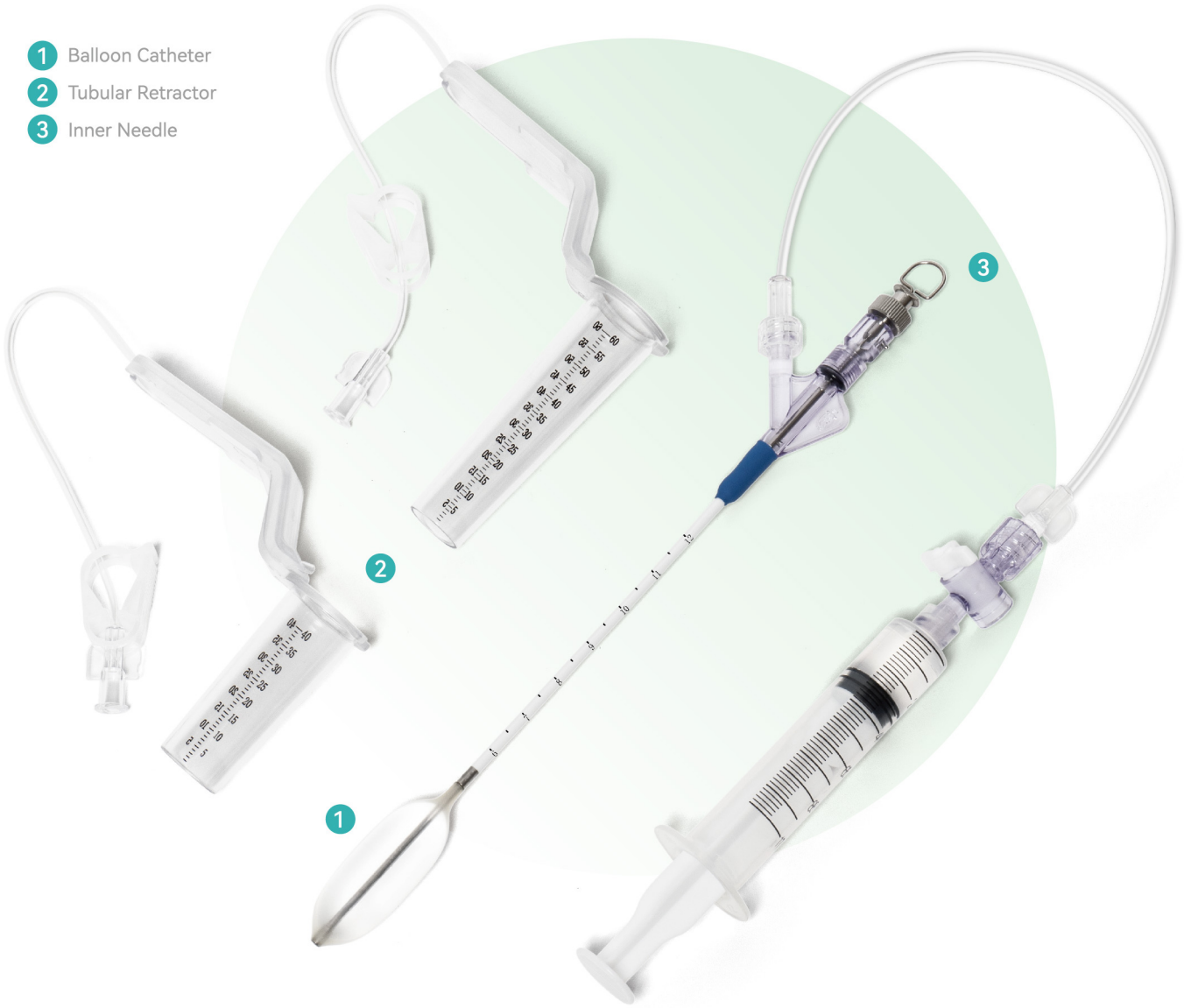
05-Withdraw the balloon catheter upon pathway is built



06-Remove the retractor after surgery

※The balloon catheter must be stretched before use.

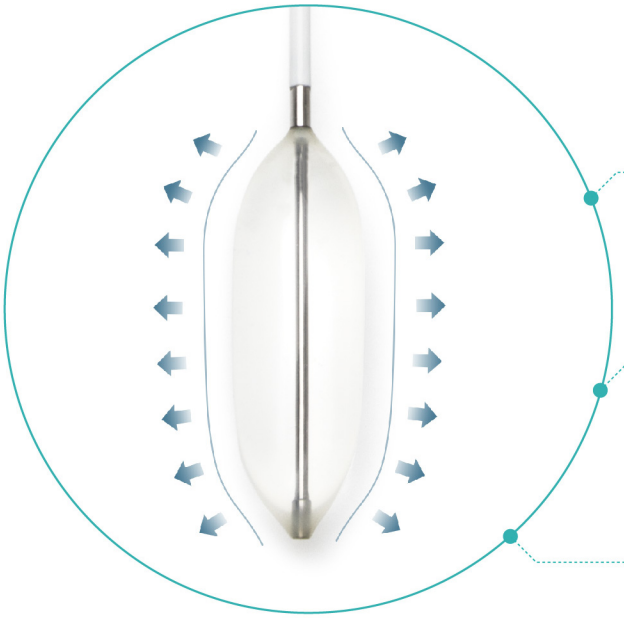
1. Balloon Catheter
2. Tubular Retractor
3. Inner Needle



A Unique Concept that Combines Soft Retraction and Intracranial Pressure Releasing in One Product

Each CCC set contains a balloon catheter and a transparent tubular retractor. The balloon helps to softly dilate the brain tissue with minimum damage and create surgical corridor by repeated inflation and deflation.
The tubular retractor provides a direct visualization to the lesion area and surrounding tissue; helps to maintain the corridor, and protect brain tissue from the accidental injury during operation.

Balloon Dilation Creates a Precise Surgical Pathway



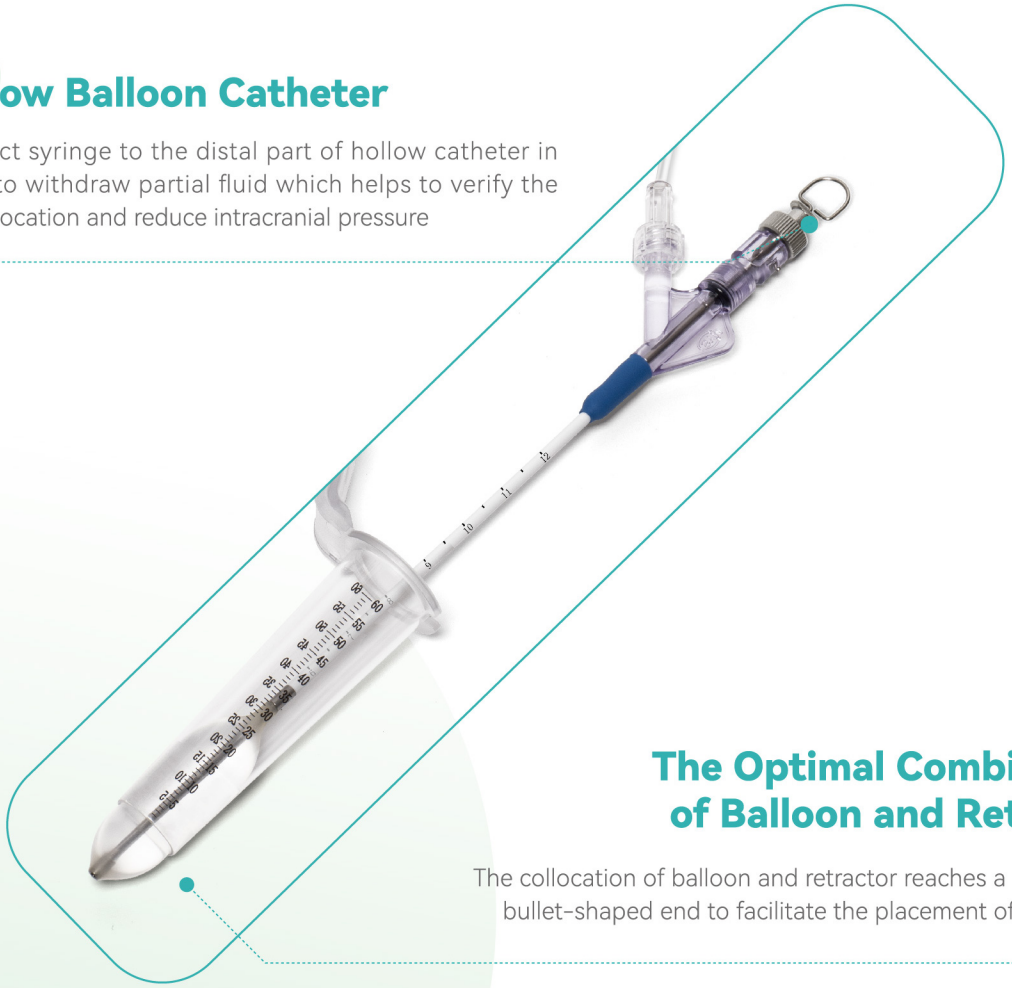
360-degree dilation allows physical pressure applied equally and radially on the brain tissue, minimizes the damage to surrounding cerebral cortex and white matter

Repeated inflation and deflation of the balloon gives opportunity to release intracranial pressure on time and creates a pre-channel

Utilize brain tissue plasticity to reduce the risks of complications and minimize bleeding, improving postoperative quality of life

Hollow Balloon Catheter

Connect syringe to the distal part of hollow catheter in order to withdraw partial fluid which helps to verify the lesion location and reduce intracranial pressure



The Optimal Combination of Balloon and Retractor

The collocation of balloon and retractor reaches a streamlined bullet-shaped end to facilitate the placement of the system

Specially Designed Flushable Tubular Retractor

The transparent retractor provides a clearly visible operation view, and prevent the secondary damage and avoid brain tissue collapse

Dual-scale on the retractor wall provides a depth reference

Built-in flushing line on the handle helps to rinse the surgical area

“Stair” designed handle is compatible with common fixation devices

Recommended Models:

Tubular Retractor Model	Inner Diameter(mm)	Length(mm)
DG-5015B	15mm	50mm
DG-7013B	13mm	70mm

Compatible with Neuro-Navigation system.

Spirit of Innovation

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