

# Catheters

Awarded the innovation prize!



## Silverline® ventricular drainage catheter

The Spiegelberg Silverline® ventricular drainage catheters are used for CSF drainage to relieve elevated intracranial pressure (ICP). Indications include subarachnoid haemorrhage (SAH), traumatic brain injury (TBI) and acute hydrocephalus. Silverline® ventricular drainage catheters are made of radiopaque polyurethane. The round tip is closed and the catheter has depth markings. The special silver additive reduces the possibility of microbial colonisation of the product surface. The kit includes stylet, trocar, Luer-Lock connector, slotted suturing attachment and cap.

## Silverline® Ventricular Drainage Catheter with cranial bolt

The Spiegelberg Silverline® ventricular drainage catheter with cranial bolt is fixed in the cranial bone with a cranial bolt. After making a burr hole and opening the dura the catheter is inserted into the ventricle. The bolt is pushed down over the catheter and screwed into the cranial bone. Finally, the catheter is fixed in the bolt with the clamping nut. The special silver additive of the Silverline® ventricular drainage catheter reduces the possibility of microbial colonisation of the surface of the device.



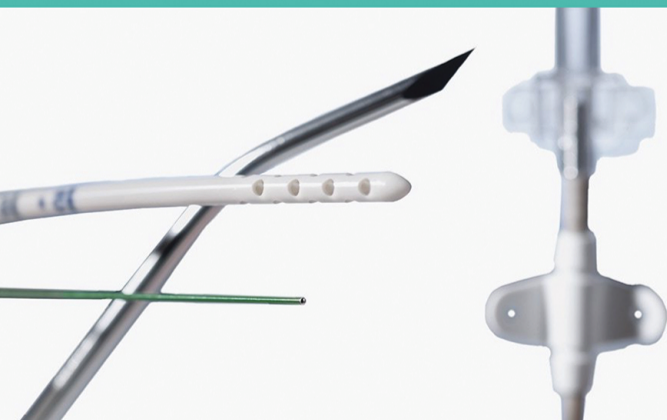
## Silverline® subdural drainage catheter

Spiegelberg Silverline® subdural drainage catheters are specifically indicated for drainage after evacuation of chronic subdural haematoma (CSH) and has a 6 cm long perforation zone near the tip. The patented additive of the Silverline® subdural drainage catheter reduces the possibility of microbial colonisation of the surface of the device. The Silverline® subdural drainage catheter comes with stylet, trocar, Luer-Lock connector and slotted suturing attachment.



## External Silverline® lumbar drainage catheter

The Spiegelberg external Silverline® lumbar drainage catheters are used for CSF drainage during treatment. External lumbar drainage is used to treat CSF fistulas, to perform invasive diagnostic evaluation of normal pressure hydrocephalus (NPH), and to reduce the risk of spinal cord ischaemia during thoracoabdominal aortic surgery. The Spiegelberg external Silverline® lumbar drainage catheters have a special silver additive that reduces the possibility of microbial colonisation of the surface of the device. The kit includes Tuohy needle, Luer-Lock connector and a slotted suturing attachment.



## Ventricular Drainage Catheter

The Spiegelberg ventricular drainage catheters are used for CSF drainage to relieve elevated intracranial pressure (ICP), for example in cases of subarachnoid haemorrhage, traumatic brain injury and acute hydrocephalus. Spiegelberg ventricular drainage catheters are made of radiopaque polyurethane. The round tip is closed and the catheter has depth markings. The kit includes stylet, trocar, Luer-Lock connector and a slotted suturing attachment.

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