

# PRODUCT CATALOGUE

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**DESU** is a pioneering medical research and development company established in 2007, headquartered in Ankara, Turkey. Our mission is to advance healthcare technologies by developing innovative solutions, with a particular focus on neurosurgery and biomaterials.

Our headquarters are strategically positioned in a vibrant academic ecosystem, featuring highly regulated and meticulously detailed facilities. This environment fosters seamless collaboration between research and practical application, enabling groundbreaking advancements. Our facilities feature state-of-the-art cleanroom production environments, including 10,000-class and 1,000-class cleanrooms, designed to meet the stringent standards required for producing premium-quality medical devices and materials.

Innovation begins with curiosity—but its true impact is realized when groundbreaking research translates into real-world solutions. At **DESU**, we transform scientific advancements into tangible medical breakthroughs, bridging the gap between discovery and application.

Every product we create is the result of meticulous research, state-of-the-art technology, and an unwavering commitment to excellence. By integrating cutting-edge science with precision engineering, we ensure superior quality and performance in every solution we deliver.

With a relentless focus on progress, we don't just adapt to the future of healthcare—we shape it. By turning visionary research into reality, **DESU** is redefining what's possible in modern medicine and improving lives worldwide.



ABOUT US



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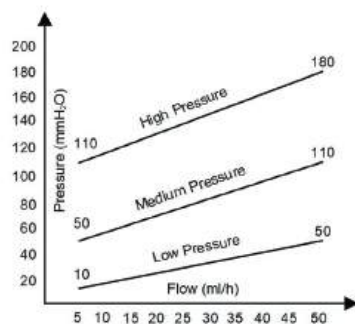
Description

50	DEBONE Collagen Based Bone Grafts
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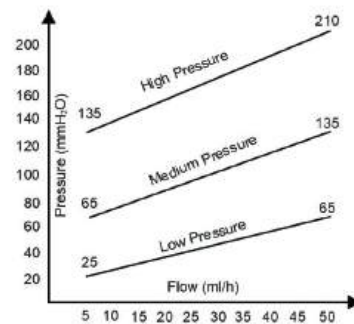




Shunt systems are drainage systems designed to reduce the intracranial pressure that occurs with hydrocephalus disease.



Normal kit graph



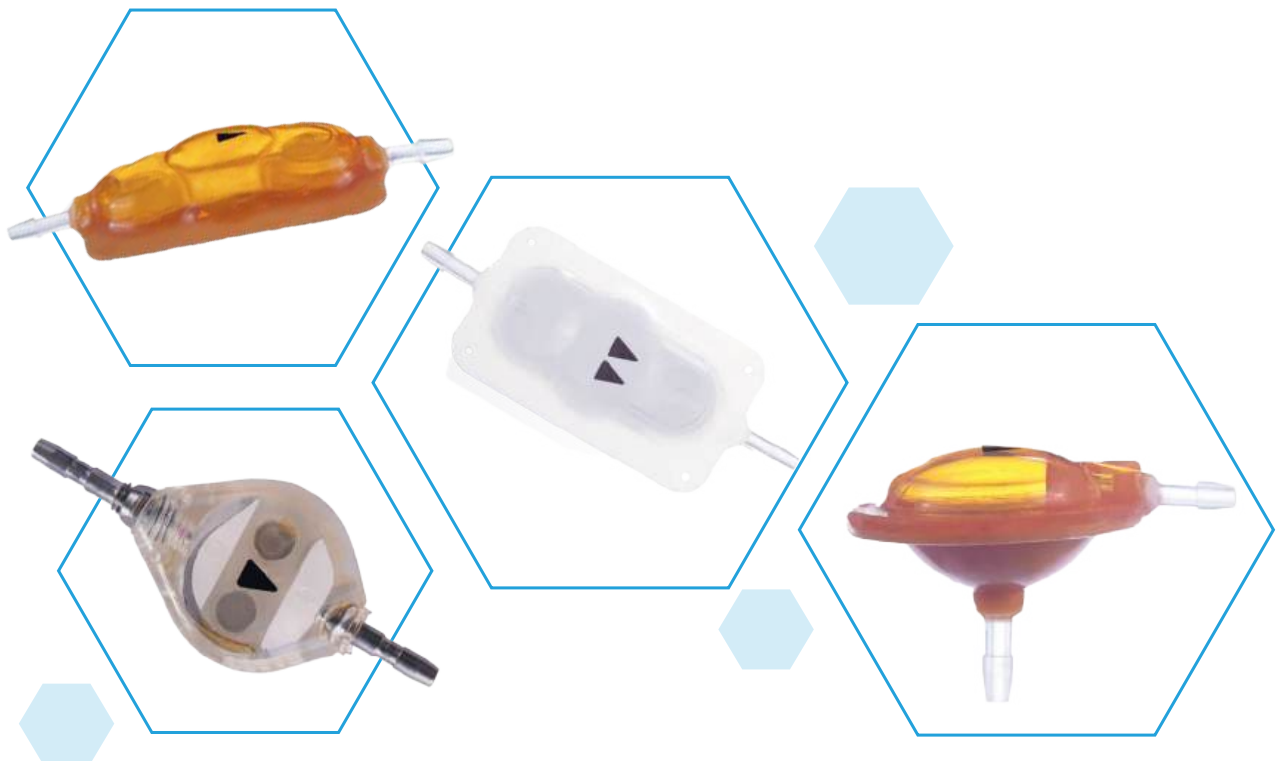
Antisiphon kit graph

All shunt systems are provided as sterile (Method EO-Ethylene Oxide)

# Neurosurgical Shunt Systems

## Silicone Shunts

Silicone valves are made of polypropylene and silicone elastomer. The risk of deformation due to adhesion is minimized. Does not contain any metal parts. Suitable for MRI and CT scans. It has a reservoir structure. Antibiotic impregnated body option is available.



## Polysulfone Shunts

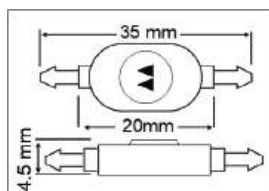
The mechanism inside the Polysulfone Shunts is triggered by positive ventricular pressure and the valve opens automatically. The ruby ball and titanium spring parts in the system are the main components of this system, which works with the hydrodynamic leverage method.

# Defit Shunts

## Silicone Flat-Bottom Shunts

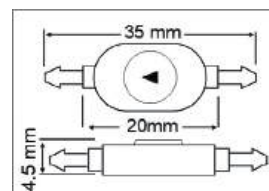
Ultra Small, Small and Regular sizes are available as valve and shunt kit.

### Ultra Small Defit Shunt



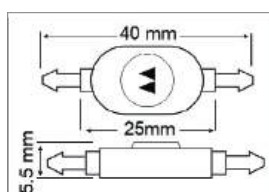
Reference Code	Pressure	Product Description
<b>DFUS-L-PEB</b>	<b>L</b>	Defit Ultra Small Silicone Shunt Low Pressure with Reinforced Base
<b>DFUS-M-PEB</b>	<b>M</b>	Defit Ultra Small Silicone Shunt Medium Pressure with Reinforced Base
<b>DFUS-H-PEB</b>	<b>H</b>	Defit Ultra Small Silicone Shunt High Pressure with Reinforced Base

### Antibiotic Impregnated Ultra Small Defit Shunt



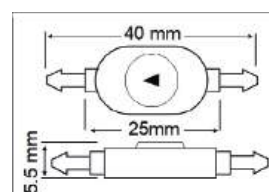
Reference Code	Pressure	Product Description
<b>ADFUS-L-PEB</b>	<b>L</b>	AI Defit Ultra Small Silicone Shunt Low Pressure with Reinforced Base
<b>ADFUS-M-PEB</b>	<b>M</b>	AI Defit Ultra Small Silicone Shunt Medium Pressure with Reinforced Base
<b>ADFUS-H-PEB</b>	<b>H</b>	AI Defit Ultra Small Silicone Shunt High Pressure with Reinforced Base

### Small Defit Shunt



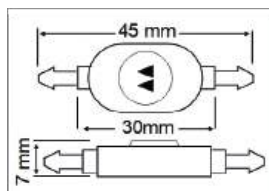
Reference Code	Pressure	Product Description
<b>DFS-L-PEB</b>	<b>L</b>	Defit Small Silicone Shunt Low Pressure with Reinforced Base
<b>DFS-M-PEB</b>	<b>M</b>	Defit Small Silicone Shunt Medium Pressure with Reinforced Base
<b>DFS-H-PEB</b>	<b>H</b>	Defit Small Silicone Shunt High Pressure with Reinforced Base

### Antibiotic Impregnated Small Defit Shunt



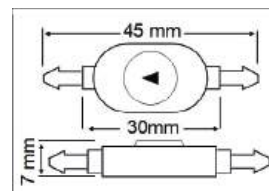
Reference Code	Pressure	Product Description
<b>ADFS-L-PEB</b>	<b>L</b>	AI Defit Small Silicone Shunt Low Pressure with Reinforced Base
<b>ADFS-M-PEB</b>	<b>M</b>	AI Defit Small Silicone Shunt Medium Pressure with Reinforced Base
<b>ADFS-H-PEB</b>	<b>H</b>	AI Defit Small Silicone Shunt High Pressure with Reinforced Base

### Regular Defit Shunt



Reference Code	Pressure	Product Description
<b>DFR-L-PEB</b>	<b>L</b>	Defit Regular Silicone Shunt Low Pressure with Reinforced Base
<b>DFR-M-PEB</b>	<b>M</b>	Defit Small Silicone Shunt Medium Pressure with Reinforced Base
<b>DFR-H-PEB</b>	<b>H</b>	Defit Regular Silicone Shunt High Pressure with Reinforced Base

### Antibiotic Impregnated Regular Defit Shunt



Reference Code	Pressure	Product Description
<b>ADFR-L-PEB</b>	<b>L</b>	AI Defit Regular Silicone Shunt Low Pressure with Reinforced Base
<b>ADFR-M-PEB</b>	<b>M</b>	AI Defit Regular Silicone Shunt Medium Pressure with Reinforced Base
<b>ADFR-H-PEB</b>	<b>H</b>	AI Defit Regular Silicone Shunt High Pressure with Reinforced Base

# Defit Shunts



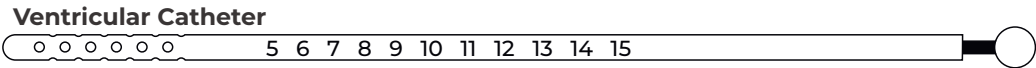
## Silicone Flat-Bottom Shunts

Ultra Small, Small and Regular sizes are available as valve and shunt kit.  
Defit Shunt Kit included with; Defit Valve, Ventricular Catheter, Peritoneal Catheter, Stylet, Right Angled Connector, ASD (Optional)

### Ultra Small Defit Shunt



Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm



Peritoneal Catheter	
I.D.	1.1mm
O.D.	2.5mm
Length	120cm



Reference Code	Pressure	Product Description
DFUS-L-VCK-PEB	L	Defit Ultra Small Silicone Shunt Low Pressure with Ventriculoperitoneal Catheter Kit
DFUS-L-VCK-PEB-ASD		Defit Ultra Small Silicone Shunt Low Pressure with Ventriculoperitoneal Catheter Kit and Antisiphon Device
DFUS-M-VCK-PEB	M	Defit Ultra Small Silicone Shunt Medium Pressure with Ventriculoperitoneal Catheter Kit
DFUS-M-VCK-PEB-ASD		Defit Ultra Small Silicone Shunt Medium Pressure with Ventriculoperitoneal Catheter Kit and Antisiphon Device
DFUS-H-VCK-PEB	H	Defit Ultra Small Silicone Shunt High Pressure with Ventriculoperitoneal Catheter Kit
DFUS-H-VCK-PEB-ASD		Defit Ultra Small Silicone Shunt High Pressure with Ventriculoperitoneal Catheter Kit and Antisiphon Device



# Defit Shunts

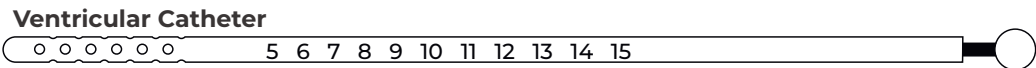
## Silicone Flat-Bottom Shunts

Ultra Small, Small and Regular sizes are available as valve and shunt kit.  
Defit Shunt Kit included with; Defit Valve, Ventricular Catheter, Peritoneal Catheter, Stylet, Right Angled Connector, ASD (Optional)

### Semi Antibiotic Defit Shunt Kit



Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm



Peritoneal Catheter	
I.D.	1.1mm
O.D.	2.5mm
Length	120cm



Reference Code	Pressure	Product Description
DFS-L-VACK-PEB	L	Defit Small Silicone Shunt Low Pressure with AI Ventriculoperitoneal Catheter Kit
DFS-L-VACK-PEB-ASD		Defit Small Silicone Shunt Low Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device
DFS-M-VACK-PEB	M	Defit Small Silicone Shunt Medium Pressure with AI Ventriculoperitoneal Catheter Kit
DFS-M-VACK-PEB-ASD		Defit Small Silicone Shunt Medium Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device
DFS-H-VACK-PEB	H	Defit Small Silicone Shunt High Pressure with AI Ventriculoperitoneal Catheter Kit
DFS-H-VACK-PEB-ASD		Defit Small Silicone Shunt High Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device



# Defit Shunts



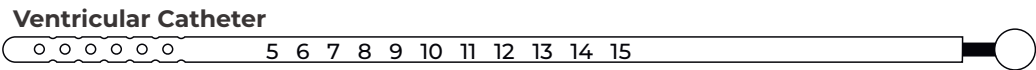
## Silicone Flat-Bottom Shunts

Ultra Small, Small and Regular sizes are available as valve and shunt kit.  
Defit Shunt Kit included with; Defit Valve, Ventricular Catheter, Peritoneal Catheter, Stylet, Right Angled Connector, ASD (Optional)

### Fully Antibiotic Impregnated Defit Shunt Kit



Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm



Peritoneal Catheter	
I.D.	1.1mm
O.D.	2.5mm
Length	120cm



Reference Code	Pressure	Product Description
ADFR-L-VACK-PEB	L	Defit Regular Silicone Shunt Low Pressure with AI Ventriculoperitoneal Catheter Kit
ADFR-L-VACK-PEB-ASD		Defit Regular Silicone Shunt Low Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device
ADFR-M-VACK-PEB	M	Defit Regular Silicone Shunt Medium Pressure with AI Ventriculoperitoneal Catheter Kit
ADFR-M-VACK-PEB-ASD		Defit Regular Silicone Shunt Medium Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device
ADFR-H-VACK-PEB	H	Defit Regular Silicone Shunt High Pressure with AI Ventriculoperitoneal Catheter Kit
ADFR-H-VACK-PEB-ASD		Defit Regular Silicone Shunt High Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device

# Decurve Shunts

## Silicone Burr-Hole Shunts

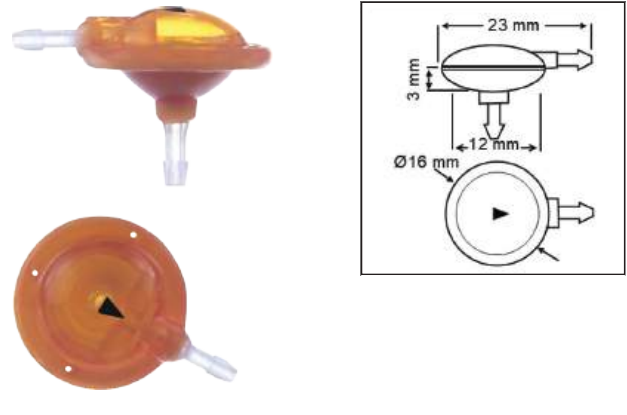
Pediatric and Adult sizes are available as valve and shunt kit.

### Pediatric Decurve Shunt



Reference Code	Pressure	Product Description
DCP-L	L	Decurve Pediatric Silicone Shunt Low Pressure
DCP-M	M	Decurve Pediatric Silicone Shunt Medium Pressure
DCP-H	H	Decurve Pediatric Silicone Shunt High Pressure

### Antibiotic Impregnated Pediatric Decurve Shunt



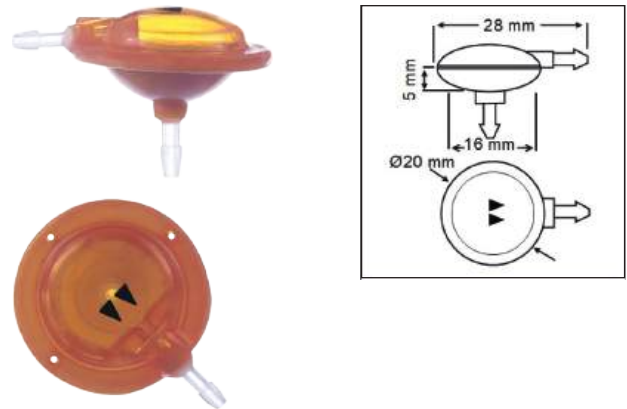
Reference Code	Pressure	Product Description
ADCP-L	L	AI Decurve Pediatric Silicone Shunt Low Pressure
ADCP-M	M	AI Decurve Pediatric Silicone Shunt Medium Pressure
ADCP-H	H	AI Decurve Pediatric Silicone Shunt High Pressure

### Adult Decurve Shunt



Reference Code	Pressure	Product Description
DCA-L	L	Decurve Adult Silicone Shunt Low Pressure
DCA-M	M	Decurve Adult Silicone Shunt Medium Pressure
DCA-H	H	Decurve Adult Silicone Shunt High Pressure

### Antibiotic Impregnated Adult Decurve Shunt



Reference Code	Pressure	Product Description
ADCA-L	L	AI Decurve Adult Silicone Shunt Low Pressure
ADCA-M	M	AI Decurve Adult Silicone Shunt Medium Pressure
ADCA-H	H	AI Decurve Adult Silicone Shunt High Pressure

# Decurve Shunts



## Silicone Burr-Hole Shunt Kits

Pediatric and Adult sizes are available as valve and shunt kit.  
Decurve Shunt Kit included with; Decurve Valve, Ventricular Catheter, Peritoneal Catheter, Stylet, Right Angled Connector, ASD (Optional)

### Standard Decurve Shunt Kit



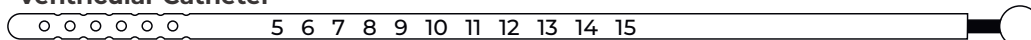
Decurve Shunt



ASD (Optional)

Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm

#### Ventricular Catheter



Peritoneal Catheter	
I.D.	1.1mm
O.D.	2.5mm
Length	120cm

#### Peritoneal Catheter



Reference Code	Pressure	Product Description
DCP-L-VCK	L	Decurve Pediatric Silicone Shunt Low Pressure with Ventriculoperitoneal Catheter Kit
DCP-L-VACK		Decurve Pediatric Silicone Shunt Low Pressure with AI Ventriculoperitoneal Catheter Kit
DCP-L-VCK-ASD		Decurve Pediatric Silicone Shunt Low Pressure with Ventriculoperitoneal Catheter Kit and Antisiphon Device
DCP-L-VACK-ASD		Decurve Pediatric Silicone Shunt Low Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device
DCP-M-VCK	M	Decurve Pediatric Silicone Shunt Medium Pressure with Ventriculoperitoneal Catheter Kit
DCP-M-VACK		Decurve Pediatric Silicone Shunt Medium Pressure with AI Ventriculoperitoneal Catheter Kit
DCP-M-VCK-ASD		Decurve Pediatric Silicone Shunt Medium Pressure with Ventriculoperitoneal Catheter Kit and Antisiphon Device
DCP-M-VACK-ASD		Decurve Pediatric Silicone Shunt Medium Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device
DCP-H-VCK	H	Decurve Pediatric Silicone Shunt High Pressure with Ventriculoperitoneal Catheter Kit
DCP-H-VACK		Decurve Pediatric Silicone Shunt High Pressure with AI Ventriculoperitoneal Catheter Kit
DCP-H-VCK-ASD		Decurve Pediatric Silicone Shunt High Pressure with Ventriculoperitoneal Catheter Kit and Antisiphon Device
DCP-H-VACK-ASD		Decurve Pediatric Silicone Shunt High Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device

# Decurve Shunts

## Silicone Burr-Hole Shunt Kits

Pediatric and Adult sizes are available as valve and shunt kit.  
Decurve Shunt Kit included with; Decurve Valve, Ventricular Catheter, Peritoneal Catheter, Stylet, Right Angled Connector, ASD (Optional)

### Semi Antibiotic Decurve Shunt Kit

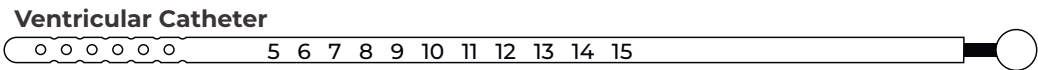


Decurve Shunt



ASD (Optional)

Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm



Peritoneal Catheter	
I.D.	1.1mm
O.D.	2.5mm
Length	120cm



Reference Code	Pressure	Product Description
DCA-L-VCK	L	Decurve Adult Silicone Shunt Low Pressure with Ventriculoperitoneal Catheter Kit
DCA-L-VACK		Decurve Adult Silicone Shunt Low Pressure with AI Ventriculoperitoneal Catheter Kit
DCA-L-VCK-ASD		Decurve Adult Silicone Shunt Low Pressure with Ventriculoperitoneal Catheter Kit and Antisiphon Device
DCA-L-VACK-ASD		Decurve Adult Silicone Shunt Low Pressure with AI entriculoperitoneal Catheter Kit and Antisiphon Device
DCA-M-VCK	M	Decurve Adult Silicone Shunt Medium Pressure with Ventriculoperitoneal Catheter Kit
DCA-M-VACK		Decurve Adult Silicone Shunt Medium Pressure with AI Ventriculoperitoneal Catheter Kit
DCA-M-VCK-ASD		Decurve Adult Silicone Shunt Medium Pressure with Ventriculoperitoneal Catheter Kit and Antisiphon Device
DCA-M-VACK-ASD		Decurve Adult Silicone Shunt Medium Pressure with AI entriculoperitoneal Catheter Kit and Antisiphon Device
DCA-H-VCK	H	Decurve Adult Silicone Shunt High Pressure with Ventriculoperitoneal Catheter Kit
DCA-H-VACK		Decurve Adult Silicone Shunt High Pressure with AI Ventriculoperitoneal Catheter Kit
DCA-H-VCK-ASD		Decurve Adult Silicone Shunt High Pressure with Ventriculoperitoneal Catheter Kit and Antisiphon Device
DCA-H-VACK-ASD		Decurve Adult Silicone Shunt High Pressure with AI entriculoperitoneal Catheter Kit and Antisiphon Device

# Decurve Shunts



## Silicone Burr-Hole Shunt Kits

Pediatric and Adult sizes are available as valve and shunt kit.  
Decurve Shunt Kit included with; Decurve Valve, Ventricular Catheter, Peritoneal Catheter, Stylet, Right Angled Connector, ASD (Optional)

### Standard Decurve Shunt Kit



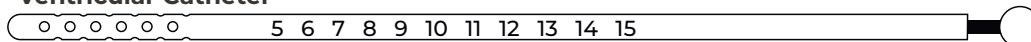
Antibiotic  
Impregnated  
Decurve Shunt



ASD (Optional)

Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm

Ventricular Catheter



Peritoneal Catheter	
I.D.	1.1mm
O.D.	2.5mm
Length	120cm

Peritoneal Catheter



Reference Code	Pressure	Product Description
ADCP-L-VACK	L	AI Decurve Pediatric Silicone Shunt Low Pressure with AI Ventriculoperitoneal Catheter Kit
ADCP-L-VACK-ASD		AI Decurve Pediatric Silicone Shunt Low Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device
ADCA-L-VACK		AI Decurve Adult Silicone Shunt Low Pressure with AI Ventriculoperitoneal Catheter Kit
ADCA-L-VACK-ASD		AI Decurve Adult Silicone Shunt Low Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device
ADCP-M-VACK	M	AI Decurve Pediatric Silicone Shunt Medium Pressure with AI Ventriculoperitoneal Catheter Kit
ADCP-M-VACK-ASD		AI Decurve Pediatric Silicone Shunt Medium Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device
ADCA-M-VACK		AI Decurve Adult Silicone Shunt Medium Pressure with AI Ventriculoperitoneal Catheter Kit
ADCA-M-VACK-ASD		AI Decurve Adult Silicone Shunt Medium Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device
ADCP-H-VACK	H	AI Decurve Pediatric Silicone Shunt High Pressure with AI Ventriculoperitoneal Catheter Kit
ADCP-H-VACK-ASD		AI Decurve Pediatric Silicone Shunt High Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device
ADCA-H-VACK		AI Decurve Adult Silicone Shunt High Pressure with AI Ventriculoperitoneal Catheter Kit
ADCA-H-VACK-ASD		AI Decurve Adult Silicone Shunt High Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device



# Depus Shunts

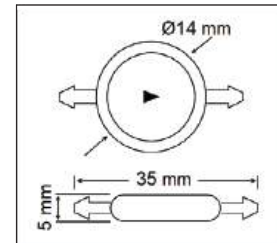
The mechanism inside the shunt is triggered by positive ventricular pressure and the valve opens automatically. The ruby ball and titanium spring parts in the system are the main components of this system, which works with the hydrodynamic leverage method.



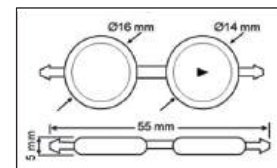
Depus Shunt



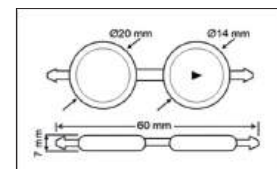
Adjustable Depus Shunt



## Depus Shunt with Flat-Bottom Reservoir

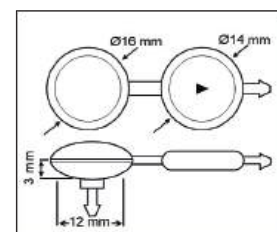


Pediatric

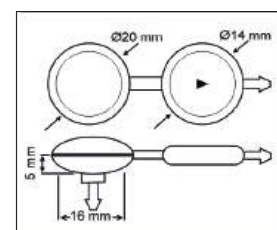


Adult

## Depus Shunt with Flat-Bottom Reservoir



Pediatric



Adult

Reference Code	Pressure	Product Description
DP-L	L	Depus Polysulfone Shunt Low Pressure
DP-M	M	Depus Polysulfone Shunt Medium Pressure
DP-H	H	Depus Polysulfone Shunt High Pressure

# Depus Shunts



## Ventriculoperitoneal Shunt Kits

Valve size is suitable for pediatric and adult patients. Valve and shunt kit options are available. Depus Shunt Kit included with; Depus Valve, Ventricular Catheter, Peritoneal Catheter, Stylet, Right Angled Connector, ASD (Optional), Reservoir (Optional).



Depus Shunt with Burr-Hole Reservoir



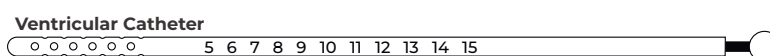
Depus Shunt with Flat-Bottom Reservoir

### Standard Depus Shunt Kit



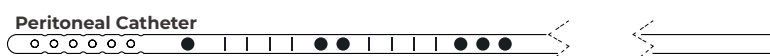
Depus Valve

Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm



ASD (Optional)

Peritoneal Catheter	
I.D.	1.1mm
O.D.	2.5mm
Length	120cm



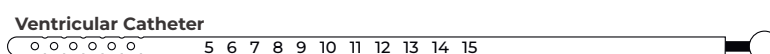
Reference Code	Pressure	Product Description
DP-L-VCK	L	Depus Polysulfone Shunt Low Pressure with Ventriculoperitoneal Catheter Kit
DP-L-VCK-ASD		Depus Polysulfone Shunt Low Pressure with Ventriculoperitoneal Catheter Kit and Antisiphon Device
DP-M-VCK	M	Depus Polysulfone Shunt Medium Pressure with Ventriculoperitoneal Catheter Kit
DP-M-VCK-ASD		Depus Polysulfone Shunt Medium Pressure with Ventriculoperitoneal Catheter Kit and Antisiphon Device
DP-H-VCK	H	Depus Polysulfone Shunt High Pressure with Ventriculoperitoneal Catheter Kit
DP-H-VCK-ASD		Depus Polysulfone Shunt High Pressure with Ventriculoperitoneal Catheter Kit and Antisiphon Device

### Semi Antibiotic Depus Shunt Kit



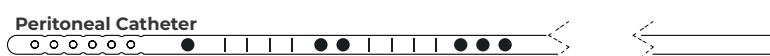
Depus Valve

Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm



ASD (Optional)

Peritoneal Catheter	
I.D.	1.1mm
O.D.	2.5mm
Length	120cm



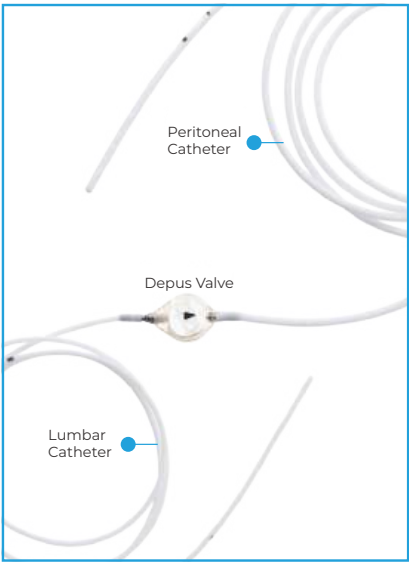
Reference Code	Pressure	Product Description
DP-L-VACK	L	Depus Polysulfone Shunt Low Pressure with AI Ventriculoperitoneal Catheter Kit
DP-L-VACK-ASD		Depus Polysulfone Shunt Low Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device
DP-M-VACK	M	Depus Polysulfone Shunt Medium Pressure with AI Ventriculoperitoneal Catheter Kit
DP-M-VACK-ASD		Depus Polysulfone Shunt Medium Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device
DP-H-VACK	H	Depus Polysulfone Shunt High Pressure with AI Ventriculoperitoneal Catheter Kit
DP-H-VACK-ASD		Depus Polysulfone Shunt High Pressure with AI Ventriculoperitoneal Catheter Kit and Antisiphon Device

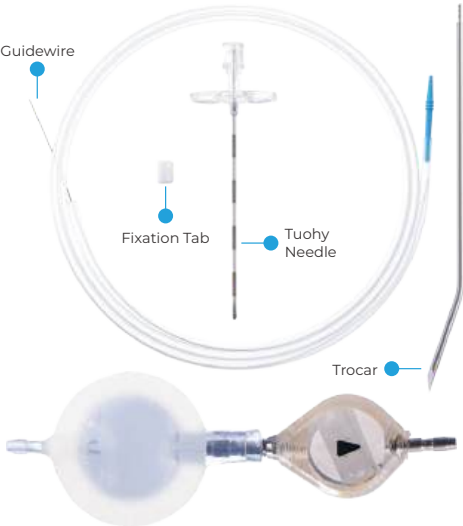
# Depus Shunts


## Lumboperitoneal Shunt Kits

The valve size is suitable to use in both pediatric and adult patients.  
Depus Shunt Kit included with; Depus Valve, Lumbar Catheter, Peritoneal Catheter, 14 G Tuohy Needle, 0,018” Guidewire, ASD (Optional), Reservoir (Optional).

### Standard Depus Shunt Kit





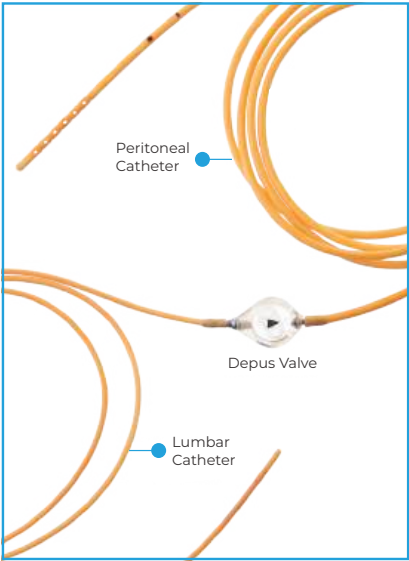


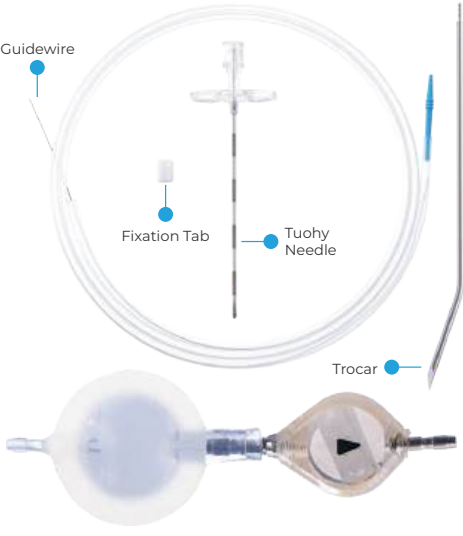
Peritoneal Catheter	
I.D.	1.1mm
O.D.	2.5mm
Length	120cm


Depus Shunt with Flat Bottom Reservoir

Reference Code	Pressure	Product Description
LPDP-L-LTCK	L	Depus Lumboperitoneal Polysulfone Shunt Low Pressure with Lumboperitoneal Catheter
LPDP-M-LTCK	M	Depus Lumboperitoneal Polysulfone Shunt Medium Pressure with Lumboperitoneal Catheter
LPDP-H-LTCK	H	Depus Lumboperitoneal Polysulfone Shunt High Pressure with Lumboperitoneal Catheter

### Standard Depus Shunt Kit







Peritoneal Catheter	
I.D.	1.1mm
O.D.	2.5mm
Length	120cm

Depus Shunt with Flat Bottom Reservoir

Reference Code	Pressure	Product Description
LPDP-L-LTACK	L	Depus Lumboperitoneal Polysulfone Shunt Low Pressure with AI Lumboperitoneal Catheter
LPDP-M-LTACK	M	Depus Lumboperitoneal Polysulfone Shunt Medium Pressure with AI Lumboperitoneal Catheter
LPDP-H-LTACK	H	Depus Lumboperitoneal Polysulfone Shunt High Pressure with AI Lumboperitoneal Catheter

# Depus Shunts

## Adjustable Ventriculoperitoneal Shunt Kits



The valve size is suitable to use in pediatric and adults. There are four different silicone reservoirs with Depus Adjustable Shunt; Adult Flat-Bottom, Pediatric Flat-Bottom, Adult Burr-Hole and Pediatric Burr-Hole. Standard and semi-antibiotic kit options are available. Depus VP Adjustable Shunt Kit Included With; Depus Valve, Ventricular Catheter, Peritoneal Catheter, Stylet, Right Angled Connector, Silicone Reservoir, ASD (Optional).



Adjustable Depus Shunt with Burr-Hole Reservoir

Reference Code	3 Pressure
DPA-A	Pediatric Adjustable Pressure Valve
ADPA-A	Pediatric Adjustable Pressure Valve, Antibiotic-Impregnated
DPA-A-VCK	Pediatric Adjustable Pressure Valve with Ventricular Catheter
DPA-A-VACK	Pediatric Adjustable Pressure Valve with Antibiotic-Impregnated Ventricular Catheter
DPA-A-VCK-ASD	Pediatric Adjustable Pressure Valve with Ventricular Catheter and Anti-Siphon Device
DPA-A-VACK-ASD	Pediatric Adjustable Pressure Valve with Antibiotic-Impregnated Ventricular Catheter and Anti-Siphon Device
ADPA-A-VCK	Pediatric Adjustable Pressure Valve with Ventricular Catheter
ADPA-A-VACK	Pediatric Antibiotic-Impregnated Adjustable Pressure Valve with Antibiotic-Impregnated Ventricular Catheter
DPA-A-VCK-ASD	Pediatric Antibiotic-Impregnated Adjustable Pressure Valve with Ventricular Catheter and Anti-Siphon Device
ADPA-A-VACK-ASD	Pediatric Antibiotic-Impregnated Adjustable Pressure Valve with Antibiotic-Impregnated Ventricular Catheter and Anti-Siphon Device

### Standard Depus Shunt Kit



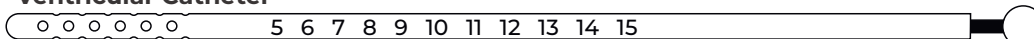
Adjustable Depus Valve



ASD (Optional)

Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm

#### Ventricular Catheter



Peritoneal Catheter	
I.D.	1.1mm
O.D.	2.5mm
Length	120cm

#### Peritoneal Catheter



### Semi Antibiotic Depus Shunt Kit



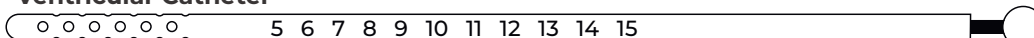
Adjustable Depus Valve



ASD (Optional)

Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm

#### Ventricular Catheter



Peritoneal Catheter	
I.D.	1.1mm
O.D.	2.5mm
Length	120cm

#### Peritoneal Catheter



# Depus Shunts

## Adjustable Ventriculoperitoneal Shunt Kits

The valve size is suitable to use in pediatric and adults. There are four different silicone reservoirs with Depus Adjustable Shunt; Adult Flat-Bottom, Pediatric Flat-Bottom, Adult Burr-Hole and Pediatric Burr-Hole. Standard and semi-antibiotic kit options are available. Depus VP Adjustable Shunt Kit Included With; Depus Valve, Ventricular Catheter, Peritoneal Catheter, Stylet, Right Angled Connector, Silicone Reservoir, ASD (Optional).



Adjustable Depus Shunt with Burr-Hole Reservoir

Reference Code	5 Pressure
<b>DPA-A</b>	Depus Adult Adjustable Pressure Valve
<b>ADPA-A</b>	Depus Adult Adjustable Pressure Valve, Antibiotic-Impregnated
<b>DPA-A-VCK</b>	Depus Adult Adjustable Pressure Valve with Ventricular Catheter
<b>DPA-A-VACK</b>	Depus Adult Adjustable Pressure Valve with Antibiotic-Impregnated Ventricular Catheter
<b>DPA-A-VCK-ASD</b>	Depus Adult Adjustable Pressure Valve with Ventricular Catheter and Anti-Siphon Device
<b>DPA-A-VACK-ASD</b>	Depus Adult Adjustable Pressure Valve with Antibiotic-Impregnated Ventricular Catheter and Anti-Siphon Device
<b>ADPA-A-VCK</b>	Depus Adult Antibiotic-Impregnated Adjustable Pressure Valve with Ventricular Catheter
<b>ADPA-A-VACK</b>	Depus Adult Antibiotic-Impregnated Adjustable Pressure Valve with Antibiotic-Impregnated Ventricular Catheter
<b>DPA-A-VCK-ASD</b>	Depus Adult Antibiotic-Impregnated Adjustable Pressure Valve with Ventricular Catheter and Anti-Siphon Device
<b>ADPA-A-VACK-ASD</b>	Depus Adult Antibiotic-Impregnated Adjustable Pressure Valve with Antibiotic-Impregnated Ventricular Catheter and Anti-Siphon Device

### Standard Depus Shunt Kit



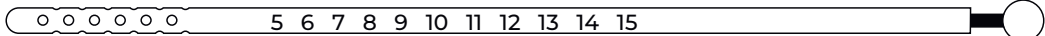
Adjustable Depus Valve



ASD (Optional)

Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm

#### Ventricular Catheter



Peritoneal Catheter	
I.D.	1.1mm
O.D.	2.5mm
Length	120cm

#### Peritoneal Catheter



### Semi Antibiotic Depus Shunt Kit



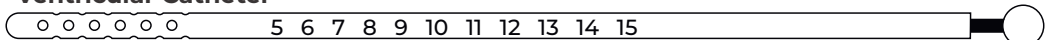
Adjustable Depus Valve



ASD (Optional)

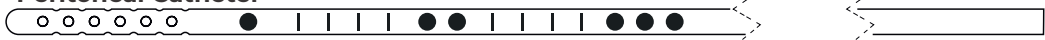
Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm

#### Ventricular Catheter



Peritoneal Catheter	
I.D.	1.1mm
O.D.	2.5mm
Length	120cm

#### Peritoneal Catheter





# Depus Adjustment Kit



Adjustment Kit is used to adjust the pressure of Adjustable Depus Shunts to different pressure levels, low, medium or high.



## 5 Pressure

**Adjustment Kit**  
Packaged in a non-sterile and reusable box

**Locator**  
Determines the target directions of pressure levels

**Magnet**  
Adjusts the proper pressure levels

**Compass**  
Pressure monitoring



Watch the Product Overview



## 3 Pressure

**Adjustment Kit**  
Packaged in a non-sterile and reusable box

**Locator**  
Determines the target directions of pressure levels

**Compass**  
Pressure monitoring

**Magnet**  
Adjusts the proper pressure levels

Reference Code	Product Description
DP-ADJKIT3	Depus Adjustment Kit
DP-ADJKIT5	Depus Adjustment Kit



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EXCELLENCE IN HEALING.**



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# Neurosurgical Drainage Systems

External Drainage Systems are used as a temporary solution to regulate the increased level of intracranial pressure on a regular and controlled basis by draining CSF from the ventricles or lumbar space.





## ENDS-010 SERIES

**Designed for Precision.  
Built for Safety.**

60 cm Reinforced Tubing with Locking Mechanism ensures secure and reliable setup.

30 cm Measurement Rod enables precise adjustment of CSF pressure (mmHg/cmH<sub>2</sub>O).

150 mL Drip Chamber for easy monitoring of cerebrospinal fluid flow.

800 mL Drainage Bag with Hydrophobic Air Filter minimizes infection and prevents reflux.

Includes two 3-Way Stopcocks for controlled drainage and sampling.

Hydrophobic Filter maintains a sterile and closed system environment.



Drainage System ●



## ENDS-020 SERIES

# Stability, Safety and Precision.

Provides safe and precise CSF drainage for patients with elevated intracranial pressure or acute hydrocephalus.

Features a clearly graduated manometer for accurate pressure regulation (0–40 cmH<sub>2</sub>O).

Large-volume collection bag (1000 mL) with anti-reflux valve ensures uninterrupted and contamination-free drainage.

Height-adjustable support system for optimal anatomical alignment and clinical flexibility.

Sterile, closed system design minimizes infection risk—ideal for both ICU and neurosurgical settings.

Easy to set up, monitor, and manage—trusted by neurosurgeons for reliability and performance.



Drainage System ●



# External Ventricular Drainage System

With Antibiotic Impregnated Ventricular Catheter

It is presented with an antibiotic-impregnated external ventricular drainage catheter and drainage system.

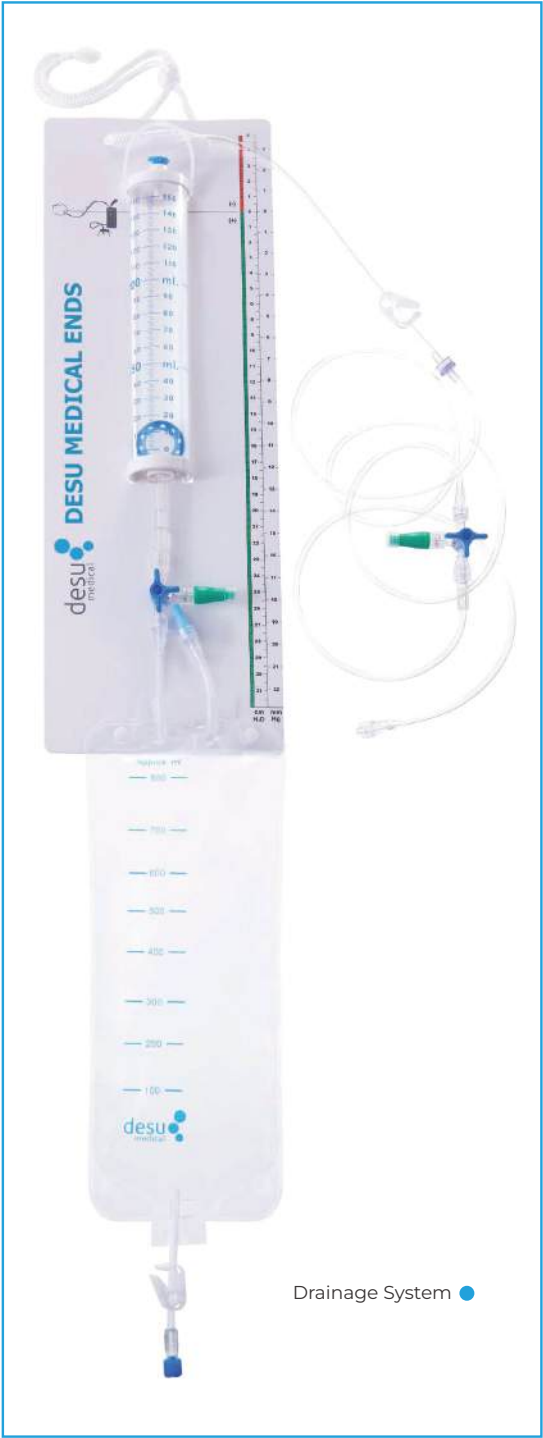
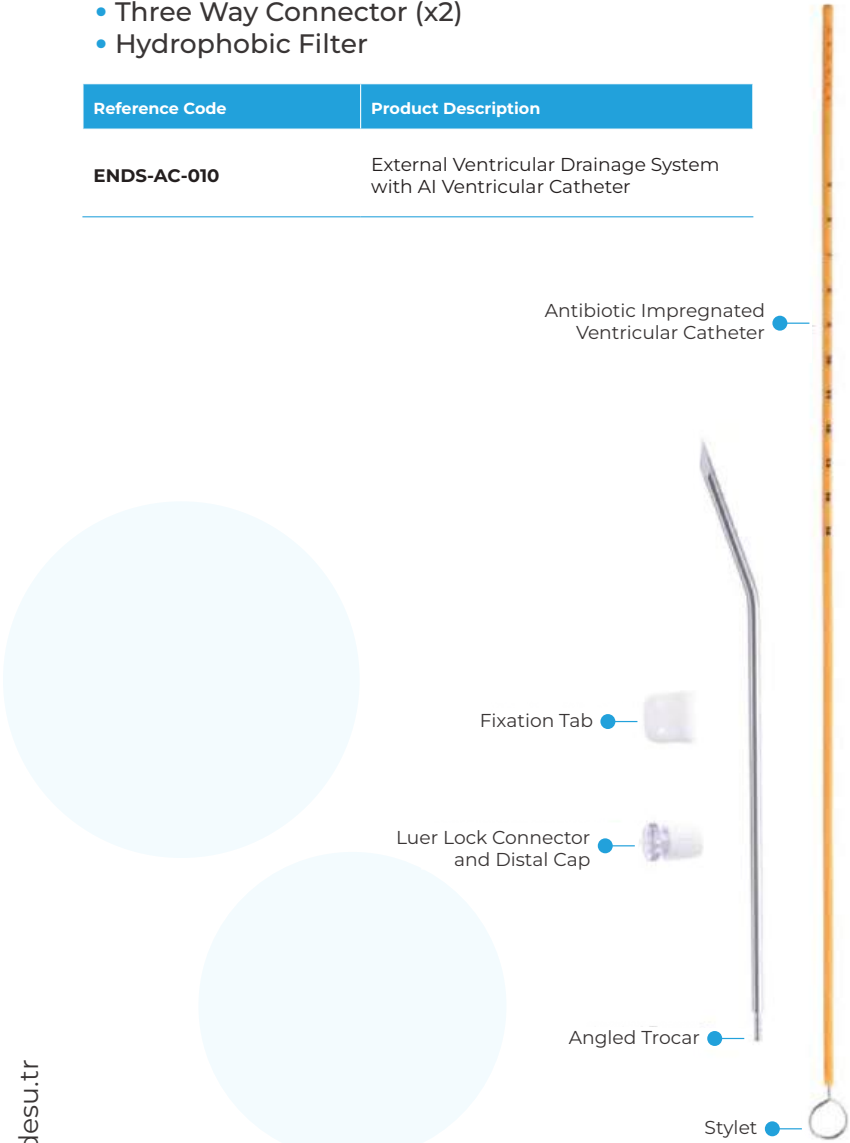
**Antibiotic Impregnated Ventricular Catheter** (ID 1,5 mm, OD 3,0 mm, L 31 cm) **with;**

- Stylet
- Fixation tab
- Luer Lock Connector and Distal Cap
- Angled Trocar

**Drainage System with;**

- 60 cm Reinforced Cord with Locking Mechanism
- 30 cm Measuring Chart to adjust the CSF pressure (mmHg / cmH<sub>2</sub>O)
- 150 ml Drip Chamber
- 800 ml Drainage Bag with Air Filter
- Three Way Connector (x2)
- Hydrophobic Filter

Reference Code	Product Description
ENDS-AC-010	External Ventricular Drainage System with AI Ventricular Catheter



# External Ventricular Drainage System

## With Ventricular Catheter

Barium Impregnated External Lumbar Drainage Catheter and Drainage System are combined to each other. System included with;

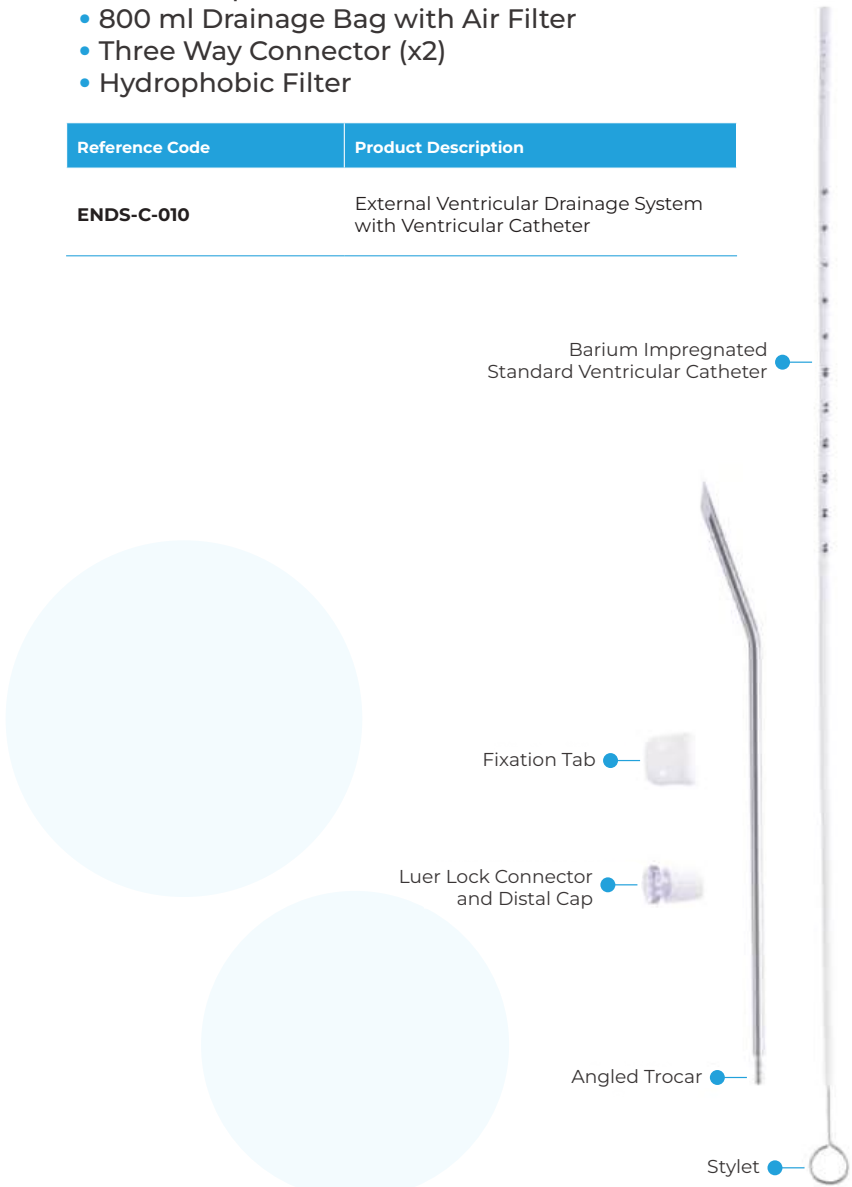
**Barium Impregnated Standard Ventricukar Catheter** (ID 1,5 mm, OD 3,0 mm, L 31 cm) **with;**

- Stylet
- Fixation tab
- Luer Lock Connector and Distal Cap
- Angled Trocar

**Drainage System with;**

- 60 cm Reinforced Cord with Locking Mechanism
- 30 cm Measuring Chart to adjust the CSF pressure (mmHg / cmH<sub>2</sub>O)
- 150 ml Drip Chamber
- 800 ml Drainage Bag with Air Filter
- Three Way Connector (x2)
- Hydrophobic Filter

Reference Code	Product Description
ENDS-C-010	External Ventricular Drainage System with Ventricular Catheter



# External Lumbar Drainage System

## With Antibiotic Impregnated Lumbar Catheter

Antibiotic Impregnated External Lumbar Drainage Catheter and Drainage System are combined to each other. System included with;

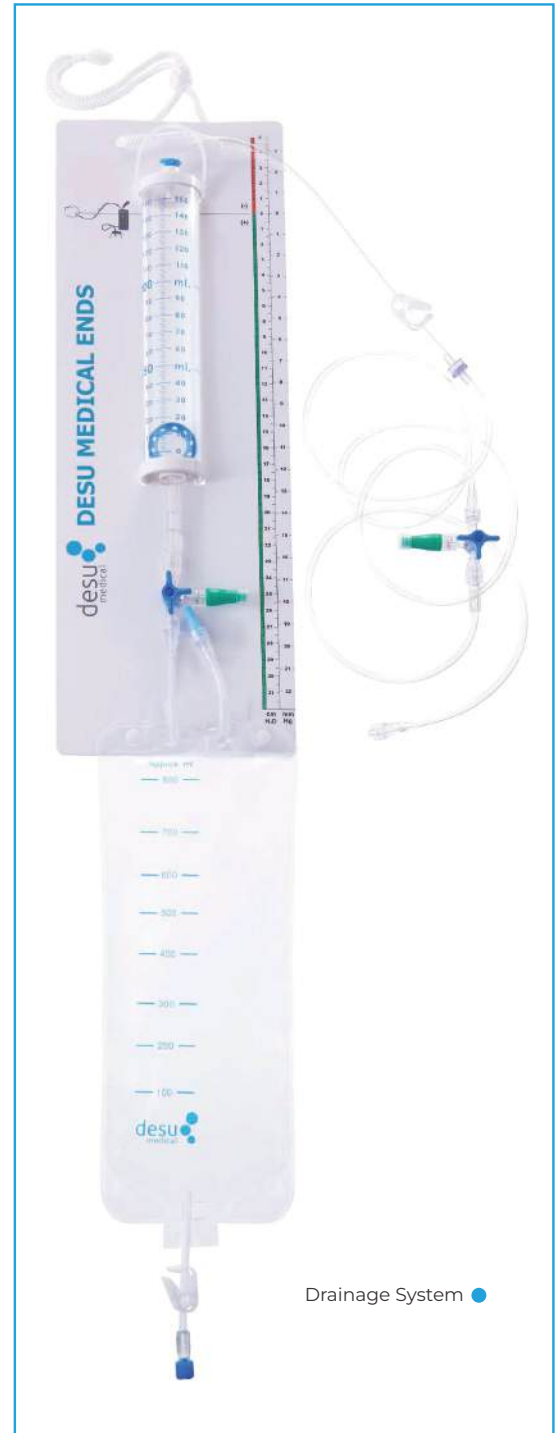
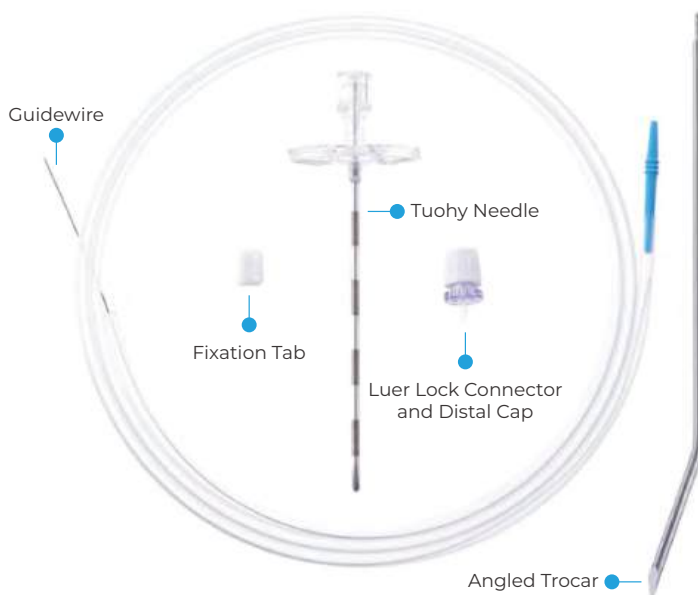
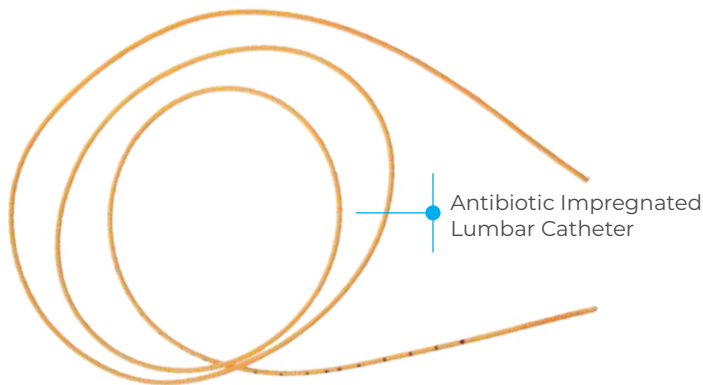
**Antibiotic Impregnated Lumbar Catheter** (ID 0,8 mm, OD 1,6 mm, L 80 cm) **with;**

- Fixation Tab
- Luer Lock Connector
- Angled Trocar
- 14G Tuohy Needle
- Guidewire

**Drainage System with;**

- 60 cm Reinforced Cord with Locking Mechanism
- 30 cm Measuring Chart to adjust the CSF pressure (mmHg / cmH<sub>2</sub>O)
- 150 ml Drip Chamber
- 800 ml Drainage Bag with Air Filter
- Three Way Connector (x2)
- Hydrophobic Filter

Reference Code	Product Description
LACK-ENDS-010	External Lumbar Drainage System with AI Lumbar Catheter



# External Lumbar Drainage System

## With Ventricular Catheter

Barium Impregnated External Lumbar Drainage Catheter and Drainage System are combined to each other. System included with;

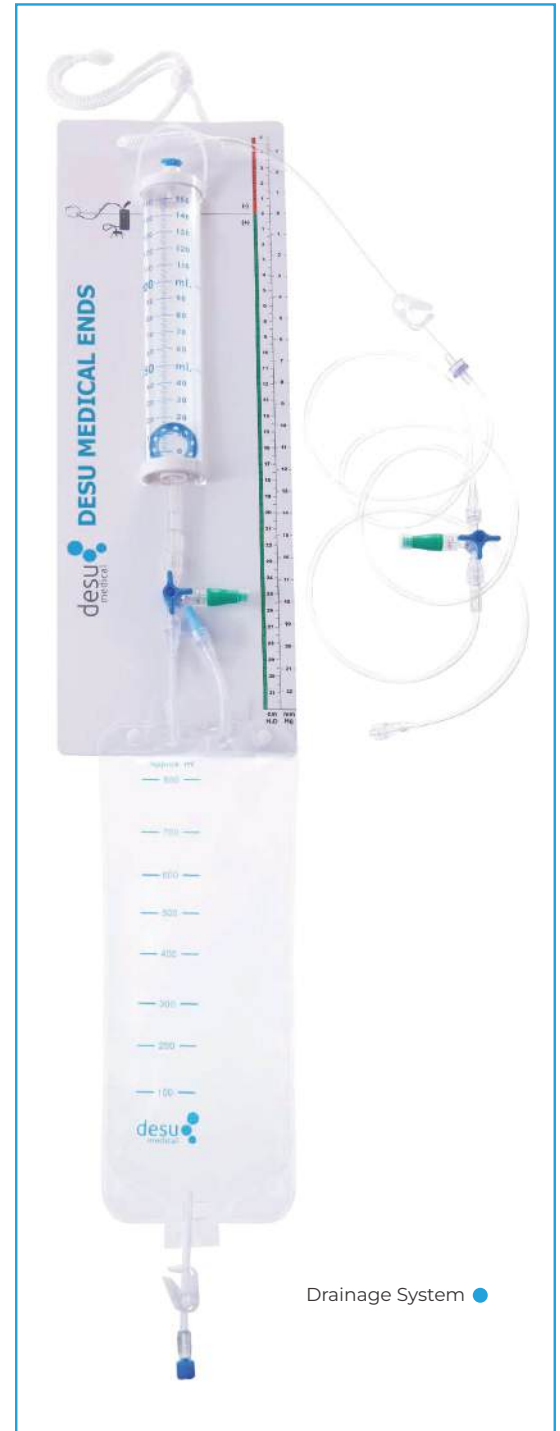
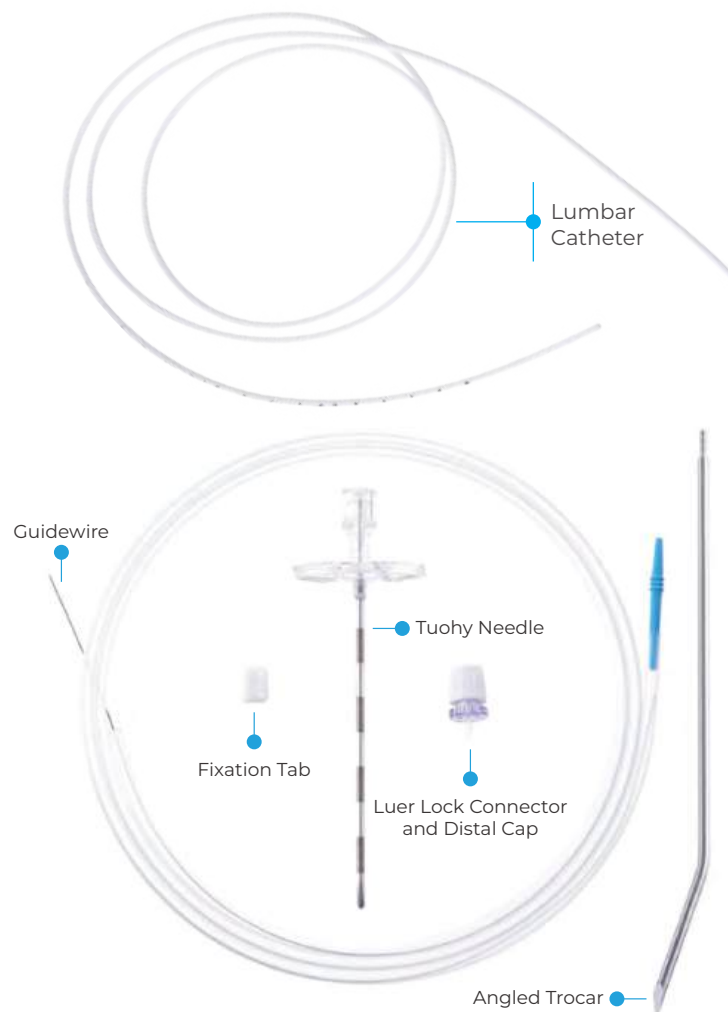
**Barium Impregnated Lumbar Catheter** (ID 0,8 mm, OD 1,6 mm, L 80 cm) **with;**

- Fixation Tab
- Luer Lock Connector
- Angled Trocar
- 14G Tuohy Needle
- Guidewire

**Drainage System with;**

- 60 cm Reinforced Cord with Locking Mechanism
- 30 cm Measuring Chart to adjust the CSF pressure (mmHg / cmH<sub>2</sub>O)
- 150 ml Drip Chamber
- 800 ml Drainage Bag with Air Filter
- Three Way Connector (x2)
- Hydrophobic Filter

Reference Code	Product Description
LCK-ENDS-010	External Lumbar Drainage System with Lumbar Catheter



# External Ventricular Drainage System

With Antibiotic-Impregnated Ventricular Catheter

The Antibiotic-Impregnated External Ventricular Drainage Catheter is offered together with a dedicated drainage system for effective and sterile cerebrospinal fluid (CSF) management.

**Antibiotic-Impregnated Ventricular Catheter** (ID 1,5 mm, OD 3,0 mm, L 80 cm) **with;**

- Stylet
- Fixation Tab
- Luer Lock Connector and Distal Tip
- Angled Trocar

**Drainage System with;**

- 60 cm reinforced cord with integrated locking mechanism
- 30 cm measurement scale for accurate CSF pressure monitoring (mmHg / cmH<sub>2</sub>O)
- 150 ml drip chamber
- 800 ml drainage bag with air filter
- Two (x2) three-way connectors
- Hydrophobic Filter

Reference Code	Product Description
ENDS-AC-020	Advanced EVD set with AI catheter



Antibiotic Impregnated Ventricular Catheter

Fixation Tab

Luer Lock Connector and Distal Cap

Angled Trocar

Stylet

Drainage System





# External Ventricular Drainage System

## With Ventricular Catheter Included

The Barium-Impregnated External Ventricular Catheter is offered together with a compatible drainage system for controlled cerebrospinal fluid (CSF) management.

**Barium Impregnated Standard Ventricular Catheter** (ID 1,5 mm, OD 3,0 mm, L 31 cm) **with;**

- Stylet
- Fixation Tab
- Luer Lock Connector and Distal Tip
- Angled Trocar

### Drainage System Components;

- 60 cm reinforced cord with locking mechanism
- 30 cm graduated measurement scale for CSF pressure adjustment (mmHg / cmH<sub>2</sub>O)
- 150 ml drip chamber
- 800 ml drainage bag with air filter
- Two (x2) three-way connectors
- Hydrophobic filter

Reference Code	Product Description
ENDS-C-020	Advanced EVD set with catheter

Ventricular Catheter

Fixation Tab

Luer Lock Connector and Distal Cap

Angled Trocar

Stylet

Drainage System



# External Lumbar Drainage System

## With Antibiotic Impregnated Lumbar Catheter

The Antibiotic Impregnated External Lumbar Drainage Catheter is provided with a special drainage system for effective and sterile cerebrospinal fluid (CSF) management.

**Antibiotic Impregnated Lumbar Catheter** (ID 0,8 mm, OD 1,6 mm, L 31 cm) **with;**

- Fixation Tab
- Luer Lock Connector
- Angled Trocar
- 14G Tuohy Needle
- Guidewire

**Drainage System with;**

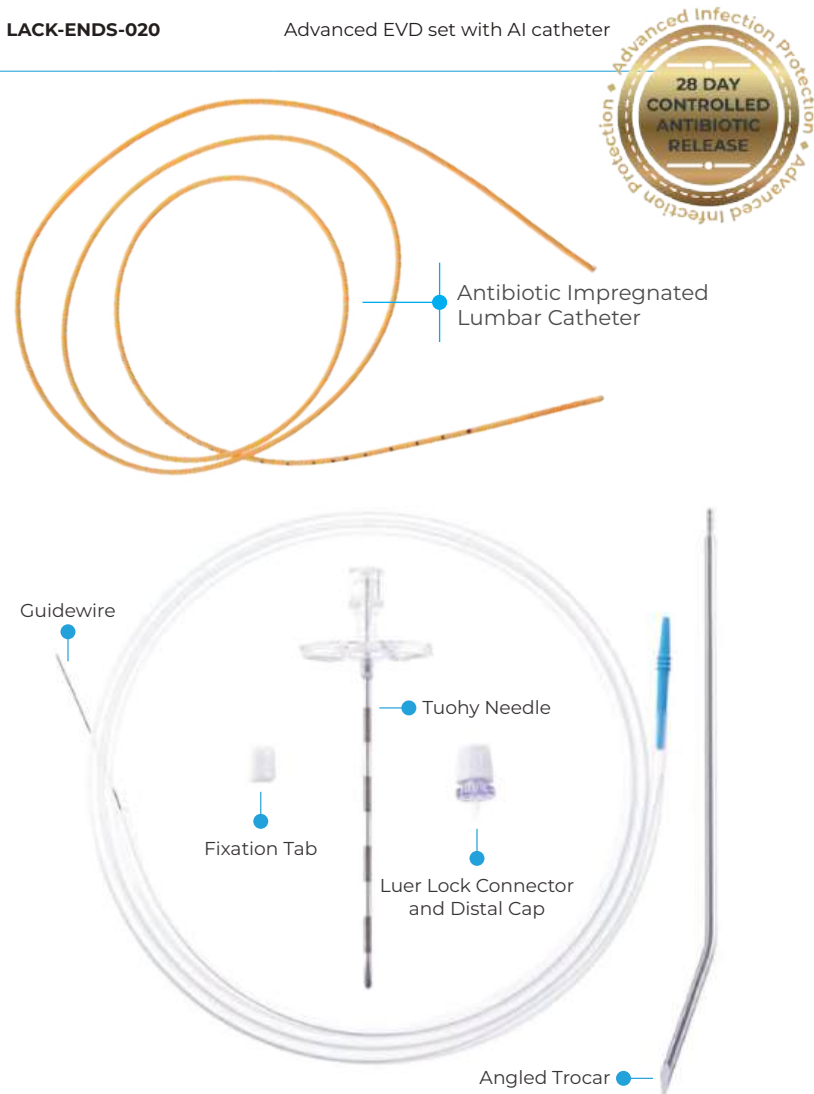
- 60 cm Reinforced Cord with Locking Mechanism
- 30 cm Measuring Chart to adjust the CSF pressure (mmHg / cmH<sub>2</sub>O)
- 150 ml Drip Chamber
- 800 ml Drainage Bag with Air Filter
- Three Way Connector (x2)
- Hydrophobic Filter

Reference Code

Product Description

LACK-ENDS-020

Advanced EVD set with AI catheter



# External Lumbar Drainage System

## With Ventricular Catheter

Barium Impregnated External Lumbar Drainage Catheter and Drainage System are combined to each other. System included with;

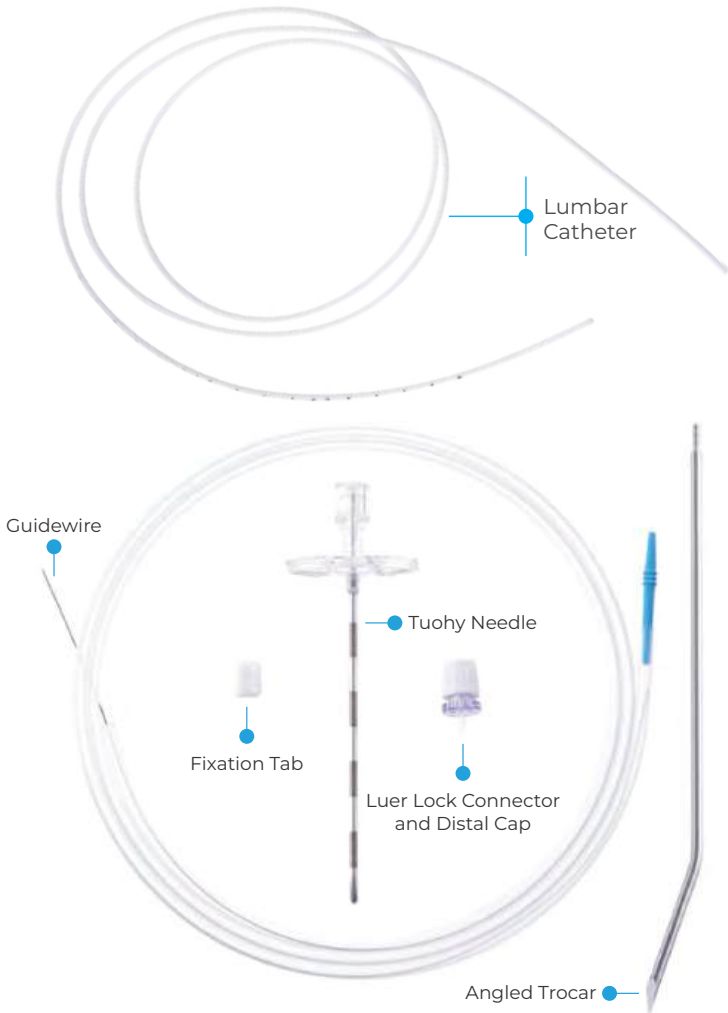
**Barium Impregnated Lumbar Catheter** (ID 0,8 mm, OD 1,6 mm, L 31 cm) **with;**

- Fixation Tab
- Luer Lock Connector
- Angled Trocar
- 14G Tuohy Needle
- Guidewire

**Drainage System with;**

- 60 cm Reinforced Cord with Locking Mechanism
- 30 cm Measuring Chart to adjust the CSF pressure (mmHg / cmH<sub>2</sub>O)
- 150 ml Drip Chamber
- 800 ml Drainage Bag with Air Filter
- Three Way Connector (x2)
- Hydrophobic Filter

Reference Code	Product Description
LCK-ENDS-020	Advanced EVD set with catheter



## Compatible Accessories for ENDS-020

Enhance your setup with precision-engineered accessories designed to complement the ENDS-020 drainage system.

Each component supports ease of use, accurate alignment, and consistent performance across clinical environments.

Select the tools that best suit your clinical routine and elevate procedural efficiency.



Reference Code

ENDS-HL



Reference Code

ENDS-LASER



Reference Code

ENDS-020

# 800 ml Air-Filtered Drainage Bag



Sterile, Reliable, and Available in Multiple Pack Options

The **800 ml air-filtered drainage bag** is specifically designed for effective cerebrospinal fluid (CSF) drainage, featuring an integrated air filter to reduce the risk of infection. Its high-volume capacity and leak-proof construction make it ideal for extended drainage needs in clinical settings.


### Key Features:

- 800 ml fluid capacity
- Integrated air filter for enhanced infection control
- Clear, durable bag for easy fluid level monitoring
- Compatible with all external drainage systems
- Sterile and single-use

### Available Packaging Options:


- **ENDS-B1** → 1 pcs. Bag
- **ENDS-B5** → 5 pcs. Bag
- **ENDS-B10** → 10 pcs. Bag

1 pcs.




Reference Code	Product Description
<b>ENDS-B1</b>	1 pcs. Bag

5 pcs.



Reference Code	Product Description
<b>ENDS-B5</b>	5 pcs. Bag

10 pcs.



Reference Code	Product Description
<b>ENDS-B10</b>	10 pcs. Bag



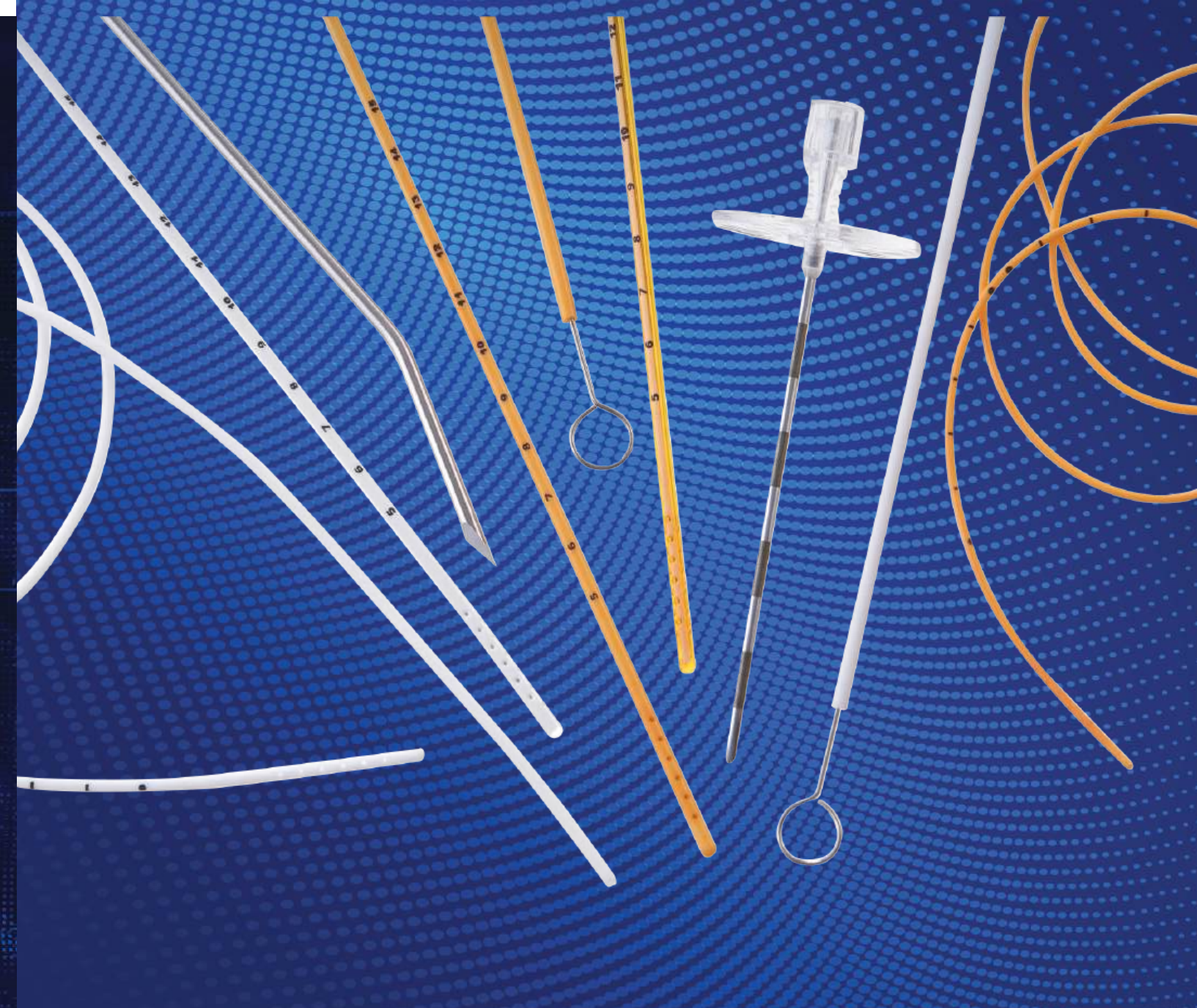


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Healthier Lives.  
**Precision.**  
**Protection.**  
**Desu.**

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# Neurosurgical Catheters

Catheter Systems are designed to be used with shunt or drainage systems for the controlled drainage of cerebrospinal fluid (CSF).



# Ventricular Catheter Kit

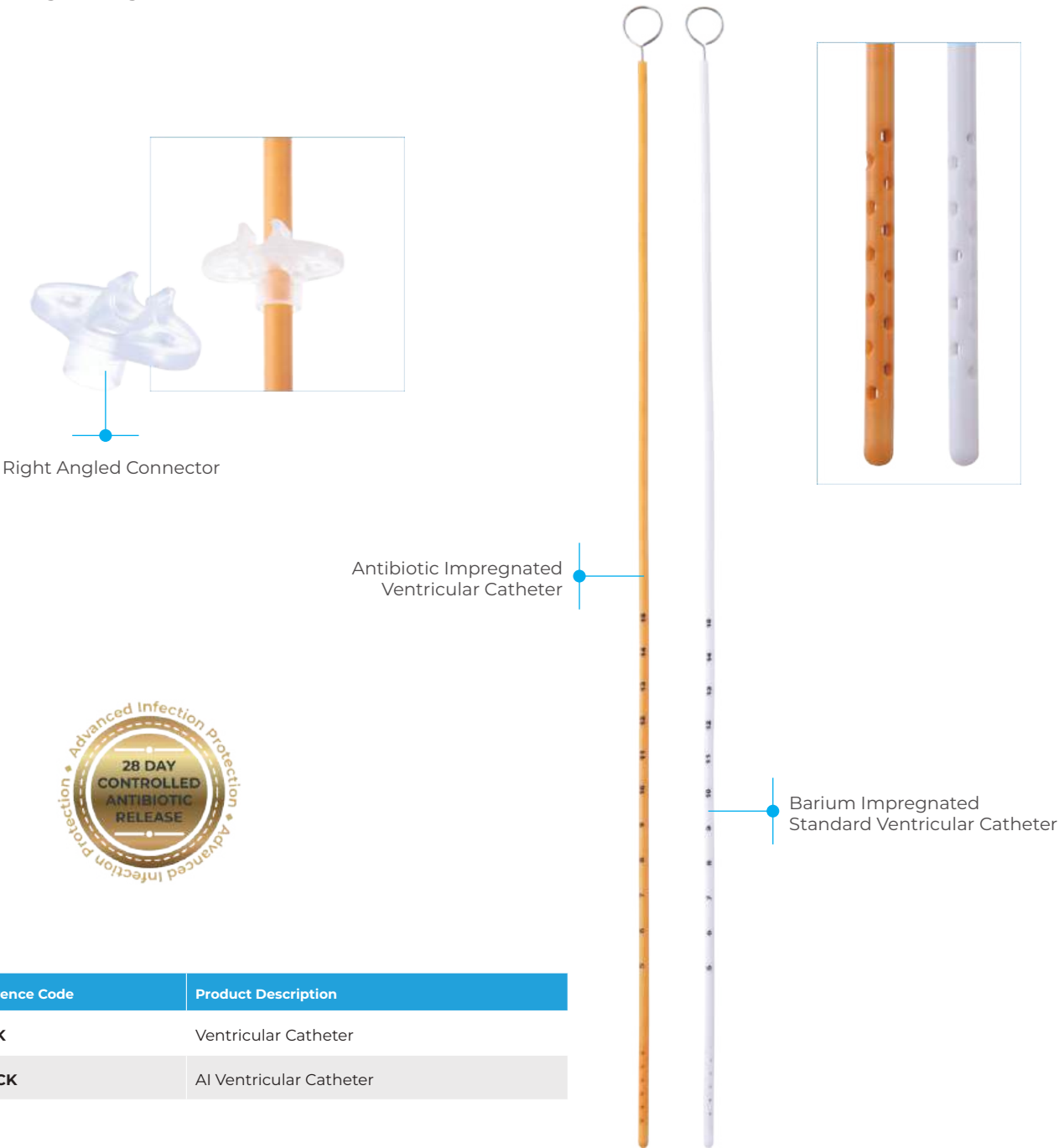


Catheters are made of barium silicon material. Tantalum length markings are located on the catheter in each centimeter from the 5th centimeter of the catheter to 15th. At the proximal end of the catheter, there are 6 drainage holes along 4 rows.

Ventricular Catheters are also available with an antibiotic-impregnated option. Clindamycin HCl and Rifampicin, which are impregnated on the catheters, are released in a controlled manner for 28 days.

Ventricular Catheter Kit included with;

- **Ventricular Catheter** (ID: 1.3 mm | OD: 2.5 mm | L: 23 cm)
- **Stylet**
- **Right-Angled Connector**



Reference Code	Product Description
SVCK	Ventricular Catheter
ASVCK	AI Ventricular Catheter



# Peritoneal Catheter Kit

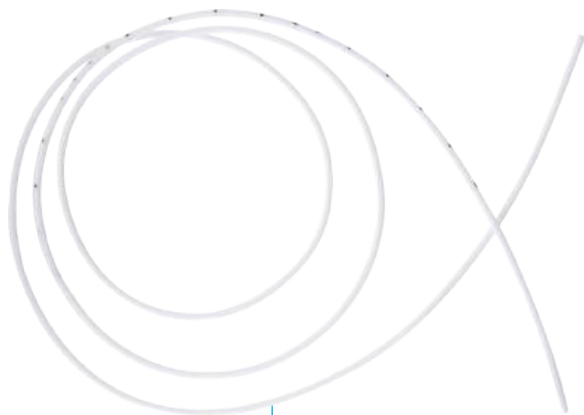


Peritoneal Catheters are made of barium silicon material. Tantalum length markings are located on the catheter in each centimeter from the 5th centimeter of the catheter to 20th. At the proximal end of the catheter, there are 6 drainage holes along 4 rows.

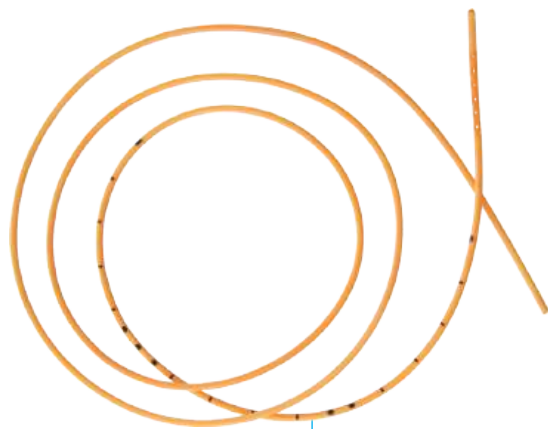
Peritoneal Catheters are also available with an antibiotic-impregnated option. Clindamycin HCl and Rifampicin, which are impregnated on the catheters, are released in a controlled manner for 28 days.

**Peritoneal Catheter Kit included with;**

- **Peritoneal Catheter** (ID: 1.1 mm | OD: 2.5 mm | L: 120 cm)



Peritoneal Catheter



Antibiotic Impregnated Peritoneal Catheter



Reference Code	Product Description
SPCK	Peritoneal Catheter
ASPCK	AI Peritoneal Catheter

# Ventriculoperitoneal Catheter Kit

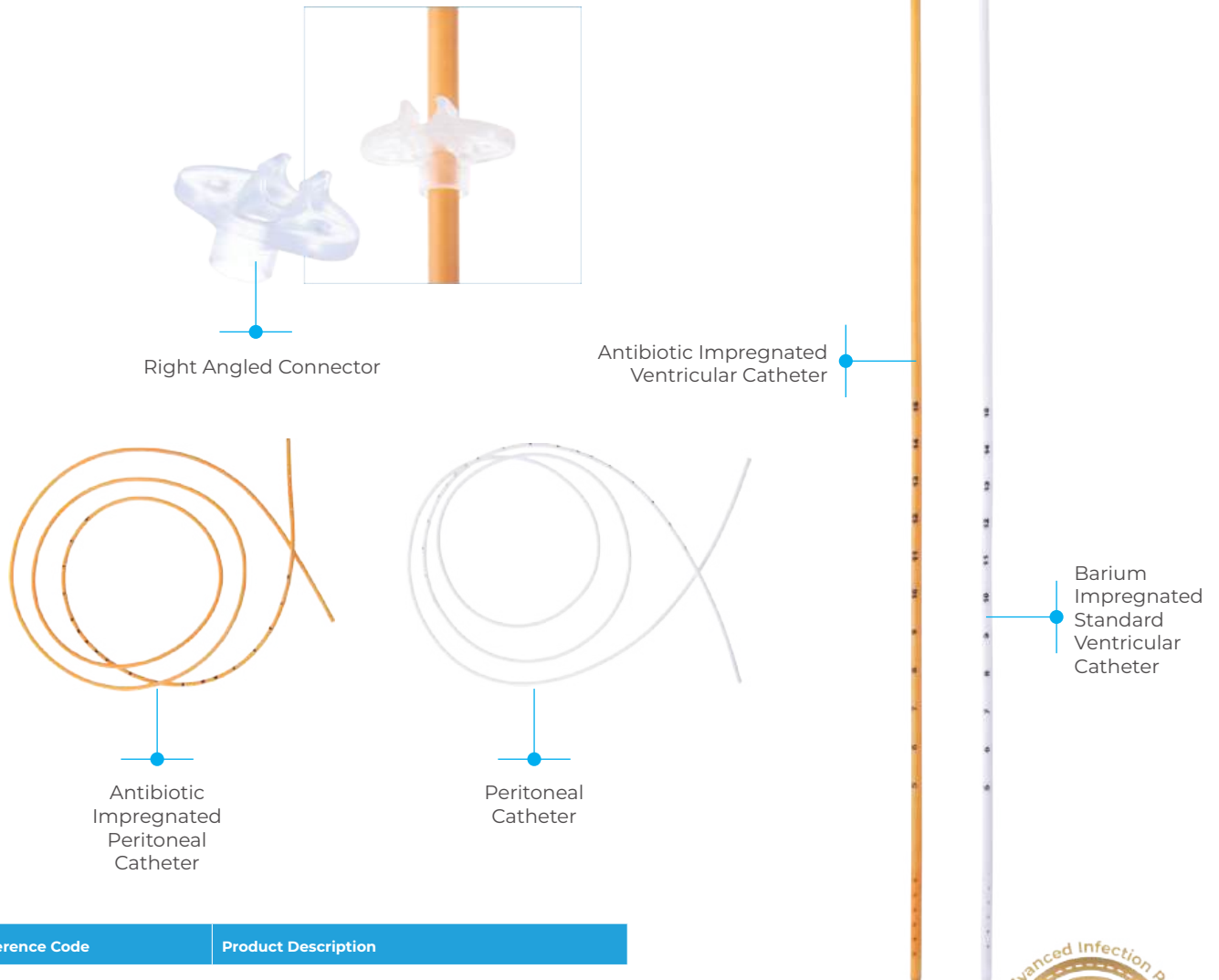


Ventriculoperitoneal Catheters are made of barium silicon material. Tantalum length markings are located on the Ventricular Catheter in each centimeter from the 5th centimeter of the catheter to 15th, on the Peritoneal Catheter in each centimeter from the 5th centimeter of the catheter to 20th. The 24 drainage holes are located at the proximal end of the catheter as 6 drainage holes along 4 rows.

Ventriculoperitoneal Catheters are also available with an antibiotic-impregnated option. Clindamycin HCl and Rifampicin, which are impregnated on the catheters, are released in a controlled manner for 28 days.

## Ventriculoperitoneal Catheter Kit Includes:

- **Ventricular Catheter** (ID: 1.3 mm | OD: 2.5 mm | L: 23 cm)
- **Peritoneal Catheter** (ID: 1.1 mm | OD: 2.5 mm | L: 120 cm)
- **Stylet**
- **Right-Angled Connector**



Reference Code	Product Description
<b>SVPCK</b>	Ventriculoperitoneal Catheter
<b>ASVPCK</b>	AI Ventriculoperitoneal Catheter



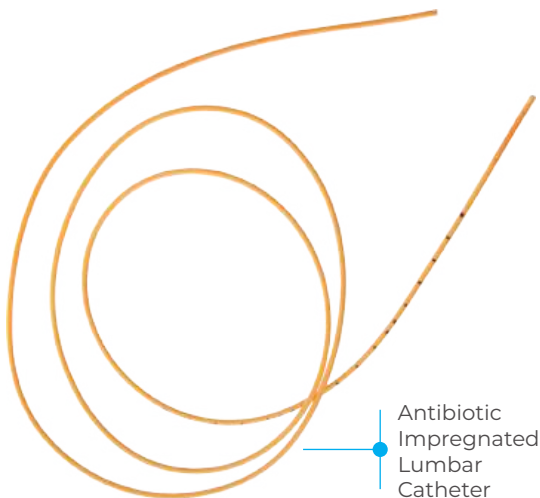
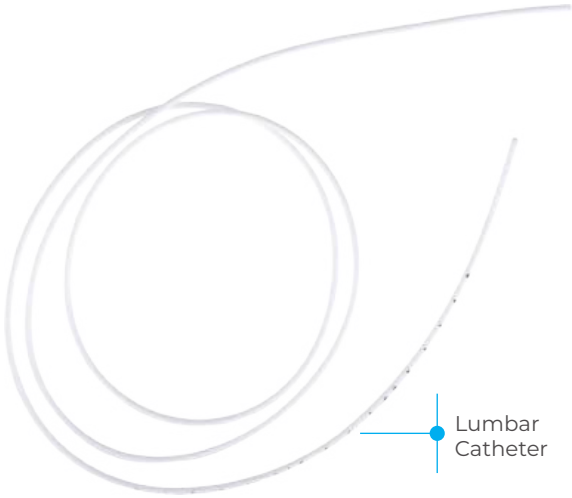
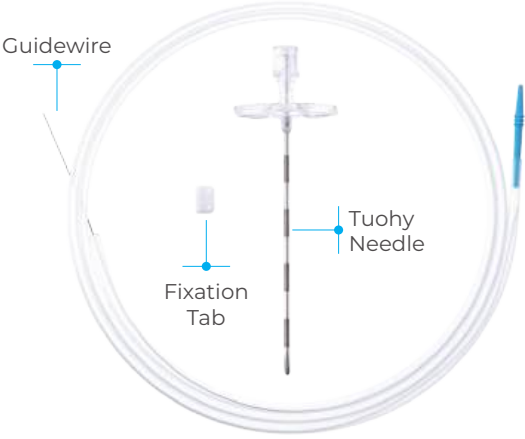
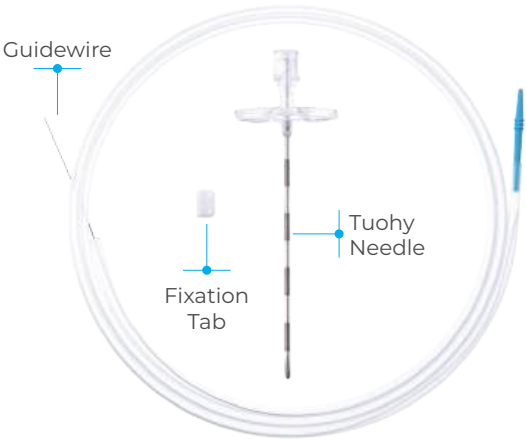
# Lumbar Catheter Kit



Lumbar catheters are made of barium silicon material. Tantalum length markings are located on the catheter in each centimeter from the 5th centimeter of the catheter to 20th. The 24 drainage holes are located at the proximal end of the catheter as 6 drainage holes along 4 rows.

**Lumbar Catheter Kit Includes:**

- **Lumbar Catheter** (ID: 0.8 mm | OD: 1.6 mm | L: 100 cm)
- **14G Tuohy Needle**
- **Guidewire**
- **Fixation Tab**



Reference Code	Product Description
LCK	Lumboperitoneal Catheter Kit
LACK	AI Lumbaperitoneal Catheter (ID:0.8 OD:1.6 mm L:100 cm)

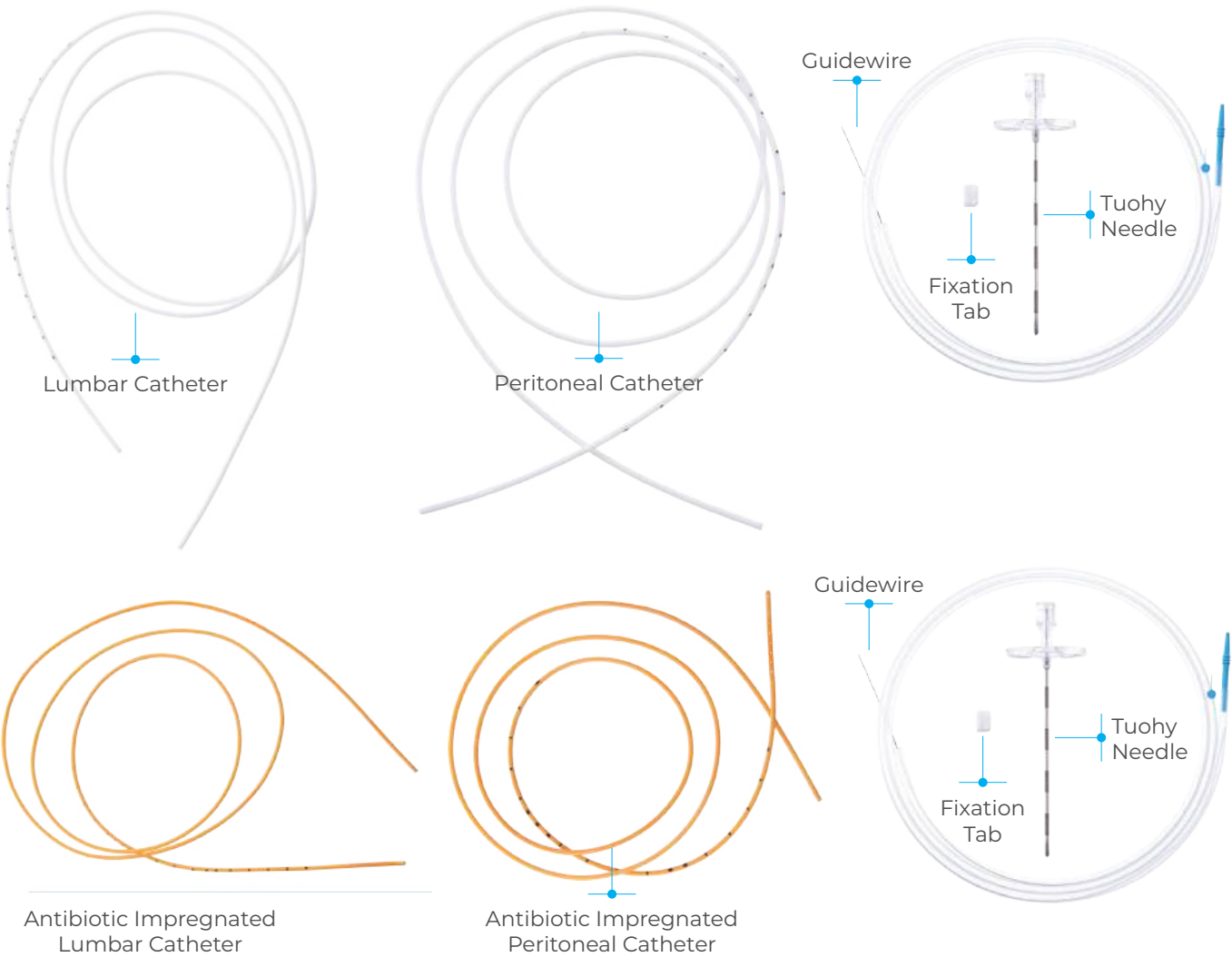
# Lumboperitoneal Catheter Kit



Lumboperitoneal Catheters are made of barium silicon material. Tantalum length markings are located on the Lumbar Catheter in each centimeter from the 5th centimeter of the catheter to 20th, on the Peritoneal Catheter in each centimeter from the 5th centimeter of the catheter to 20th. The 24 drainage holes are located at the proximal end of the catheter as 6 drainage holes along 4 rows.

Lumboperitoneal Catheter Kit included with;

- **Lumbar Catheter:** (ID: 0.8 mm OD: 1.6 mm L: 100 cm)
- **Peritoneal Catheter:** (ID: 1.1 mm OD: 2.5 mm L: 120 cm)
- **14G Tuohy Needle**
- **Guidewire**



Reference Code	Product Description
LPCK	Lumbar Catheter
LPACK	AI Lumbar Catheter



# Ventricular Catheter Kit



Catheters are made of barium silicon material. Tantalum length markings are located on the Lumbar Catheter in each centimeter from the 5th centimeter of the catheter to 15th. The 24 drainage holes are located at the proximal end of the catheter as 6 drainage holes along 4 rows.

Ventricular Catheters are also available with an antibiotic-impregnated option. Clindamycin HCl and Rifampicin, which are impregnated on the catheters, are released in a controlled manner for 28 days.

## Ventricular Catheter Kit included with;

- **Ventricular Catheter**
- **Stylet**
- **Angled Trocar**
- **Luer Lock Connector**
- **Distal Cap**



Ventricular Catheter Kit

Antibiotic Impregnated Ventricular Catheter Kit

## Ventricular Catheters

Catheter Description	Length (cm)	I.D. (mm)	O.D. (mm)
External Ventricular Catheter Standard / with AI	31	1,5	3
External Ventricular Catheter Standard / with AI	35	1,5	3
External Ventricular Catheter Standard / with AI	35	1,9	3,4
External Ventricular Clear Catheter Standard / with AI	35	1,9	3,4

Reference Code	Product Description
EVDCK-1530310	External Ventricular Drainage Catheter (ID:1.5 OD:3.0 mm L:31 cm)
EVDACK-1530310	AI External Ventricular Drainage Catheter (ID:1.5 OD:3.0 mm L:31 cm)
EVDACK-1530350	AI External Ventricular Drainage Catheter (ID:1.5 OD:3.0 mm L:35 cm)
EVDACKS-1934350	AI External Ventricular Drainage Catheter (ID:1.9 OD:3.4 mm L:35 cm)
EVDCAK-1934350	AI External Ventricular Drainage Catheter (ID:1.9 OD:3.4 mm L:35 cm)



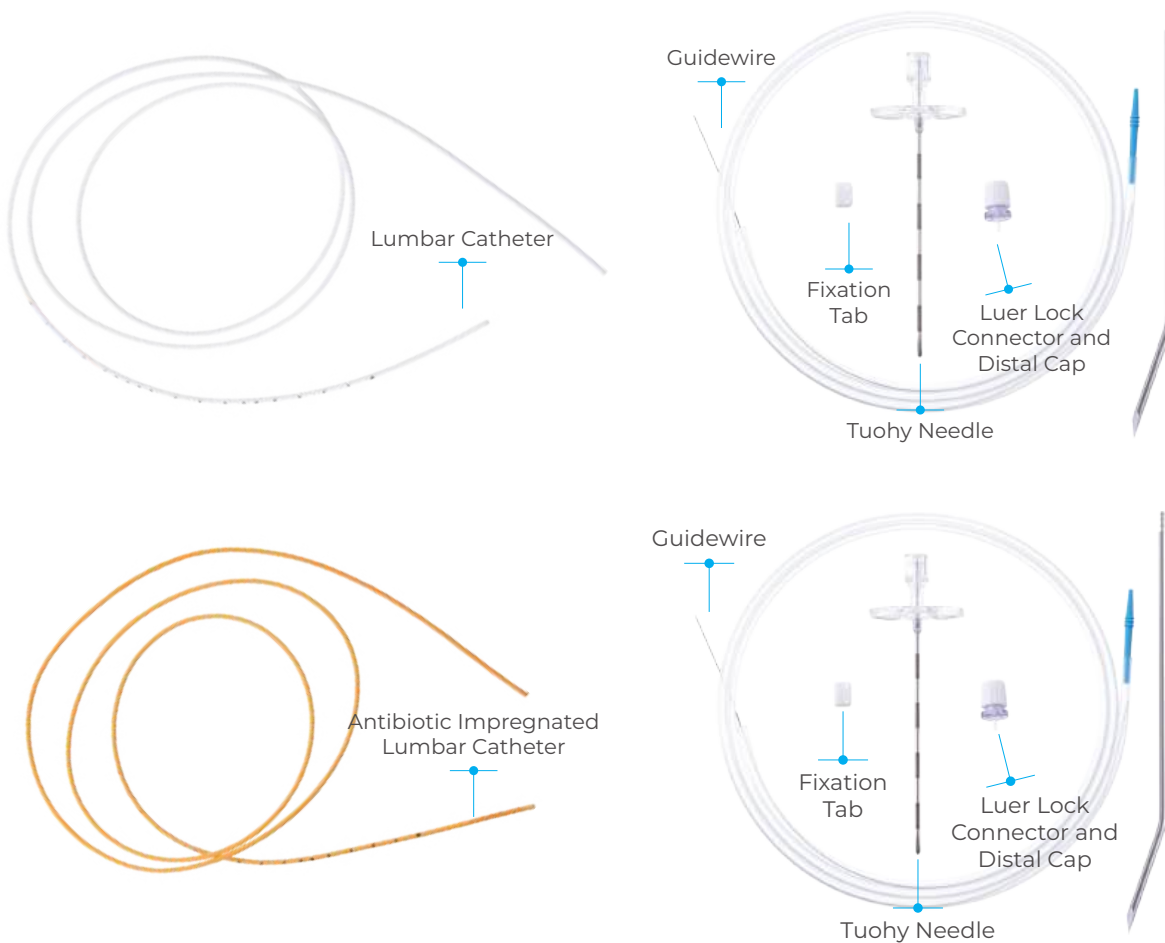
# Lumbar Catheter Kit

Lumbar Catheters are made of barium silicon material. Tantalum length markings are located on the catheter in each centimeter from the 5th centimeter of the catheter to 20th. The 24 drainage holes are located at the proximal end of the catheter as 6 drainage holes along 4 rows.

Lumbar Catheters are also available with an antibiotic-impregnated option. Clindamycin HCl and Rifampicin, which are impregnated on the catheters, are released in a controlled manner for 28 days.

## Lumbar Catheter Kit included with;

- **Lumbar Catheter:** (ID: 0.8 mm OD: 1.6 mm L: 80 cm)
- **Tuohy Needle**
- **Guidewire**
- **Angled Trocar**
- **Luer Lock Connector**
- **Fixation Tab**



Reference Code	Product Description
<b>ELCK</b>	External Lumbar Catheter
<b>ELACK-1608800</b>	AI External Lumbar Catheter





## **Neurosurgical Product Accessories**



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# Antisiphon Device

Antisiphon device is used to avoid from siphon effect that may occur when the peritoneal catheter turn to vertical position from horizontal during the drainage or shunting of the cerebrospinal fluid.

The basic principle is to create an immediate closure effect to prevent excess drainage when the siphon effect occurs.



# Straight Catheter Connector

It is a subsidiary accessory used to connect different catheter parts during surgery when needed.



# L Type Catheter Connector

It is a subsidiary accessory used to guide the Ventricular / Peritoneal Catheter when needed without causing kinking and clogging, also to connect different catheter parts together during surgery.



# Y Type Catheter Connector

It is a subsidiary accessory used to combine two shunts with a peritoneal catheter if needed, also provide output for two peritoneal catheters from a shunt, or to provide two ventricular catheter input into a shunt.



Reference Code	Product Description
ASD	Antisifon Device
PPCCO	Straight Catheter Connector
PPRAC	L Type Catheter Connector
PP3WCCO	Y Type (3-way) Catheter Connector





## **Dura Grafts**

**DECOLL<sup>®</sup>**

COLLAGEN BASED DURAL GRAFT

**DURASHEET<sup>®</sup>**

COLLAGEN BASED DURAL GRAFT MATRIX

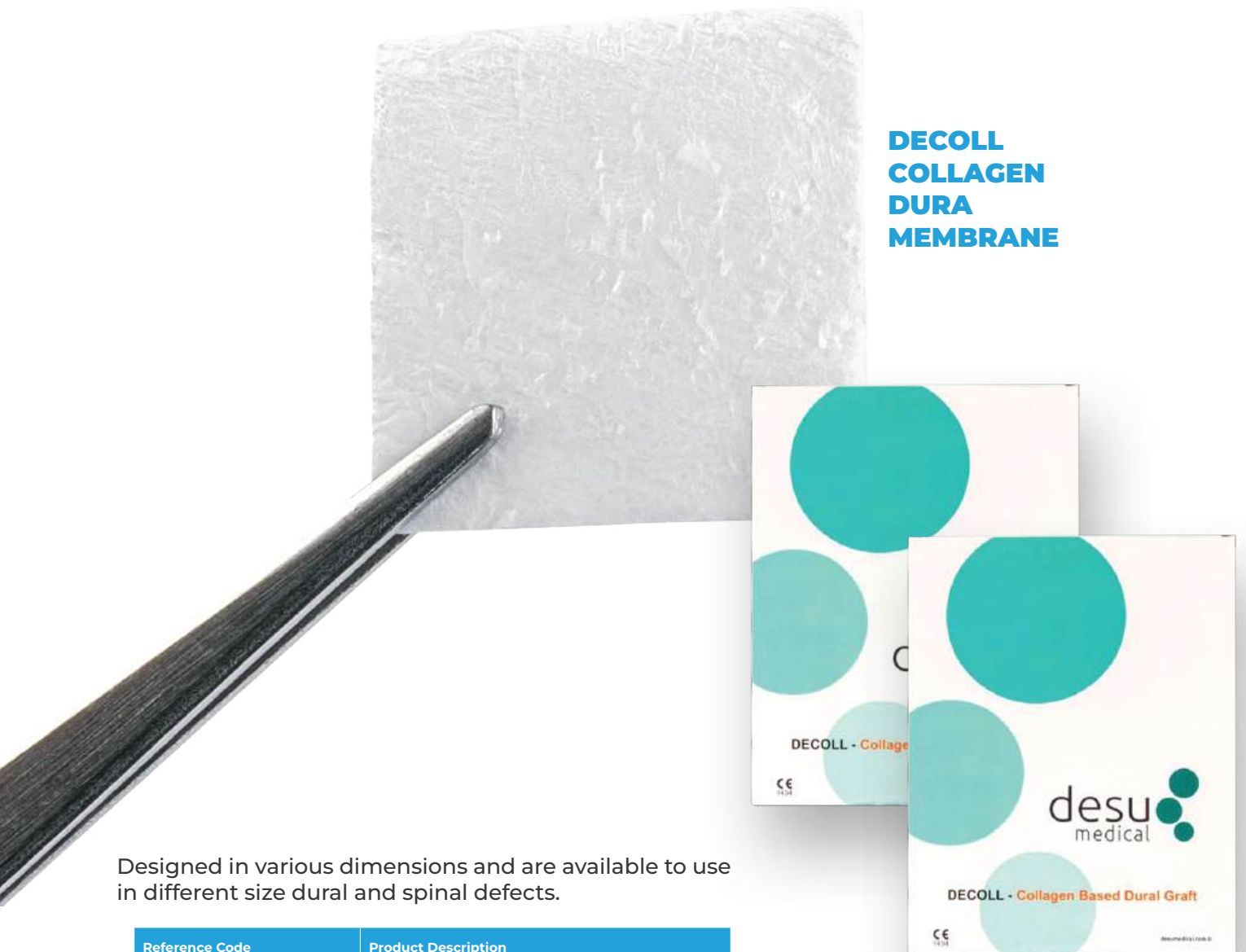
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# DECOLL

## Collagen Dura Membrane

Decoll is designed for the substitute of a dura when repairing the defects on the dura mater.

- It is a collagen barrier produced from ultra pure type-1 bovine collagen (contains > 95.5 % type-1 collagen)
- Collagen-based, biodegradable to assist in fast healing
- Usable for various CSF pressure levels so it can be applied to a wide variety of cases
- Prevent the leakage a lot better than existing devices due to its impermeable pore structure
- It can be used as onlay
- Sterilized with Gamma
- A ready-to-use product that does not require pre-processing
- It can be used to treat dural defects due to surgical operations such as spinal tumor, trauma meningocele, myelomeningocele and lipoma



Designed in various dimensions and are available to use in different size dural and spinal defects.

Reference Code	Product Description
<b>DCL2525</b>	DECOLL Collagen Dura Membrane 2.5x2.5 cm
<b>DCL5050</b>	DECOLL Collagen Dura Membrane 5x5 cm
<b>DCL7575</b>	DECOLL Collagen Dura Membrane 7.5x7.5 cm
<b>DCL100100</b>	DECOLL Collagen Dura Membrane 10x10 cm



# DURASHEET

## Collagen Dura Membrane

Durasheet is designed for the substitute of a dura when repairing the defects on the dura mater.

- It is a collagen barrier produced from ultra pure type-1 bovine collagen (contains > 95.5 % type-1 collagen)
- Collagen-based, biodegradable to assist in fast healing
- Usable for various CSF pressure levels so it can be applied to a wide variety of cases
- Prevent the leakage a lot better than existing devices due to its impermeable pore structure
- It can be used as onlay
- Sterilized with Gamma
- A ready-to-use product that does not require pre-processing
- It can be used to treat dural defects due to surgical operations such as spinal tumor, trauma meningocele, myelomeningocele and lipoma

### HIGHLIGHTS OF DURASHEET:

- More suturable
- More tensile strength
- Used in both surfaces
- High absorption capacity

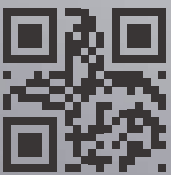


Designed in various dimensions and are available to use in different size dural and spinal defects.

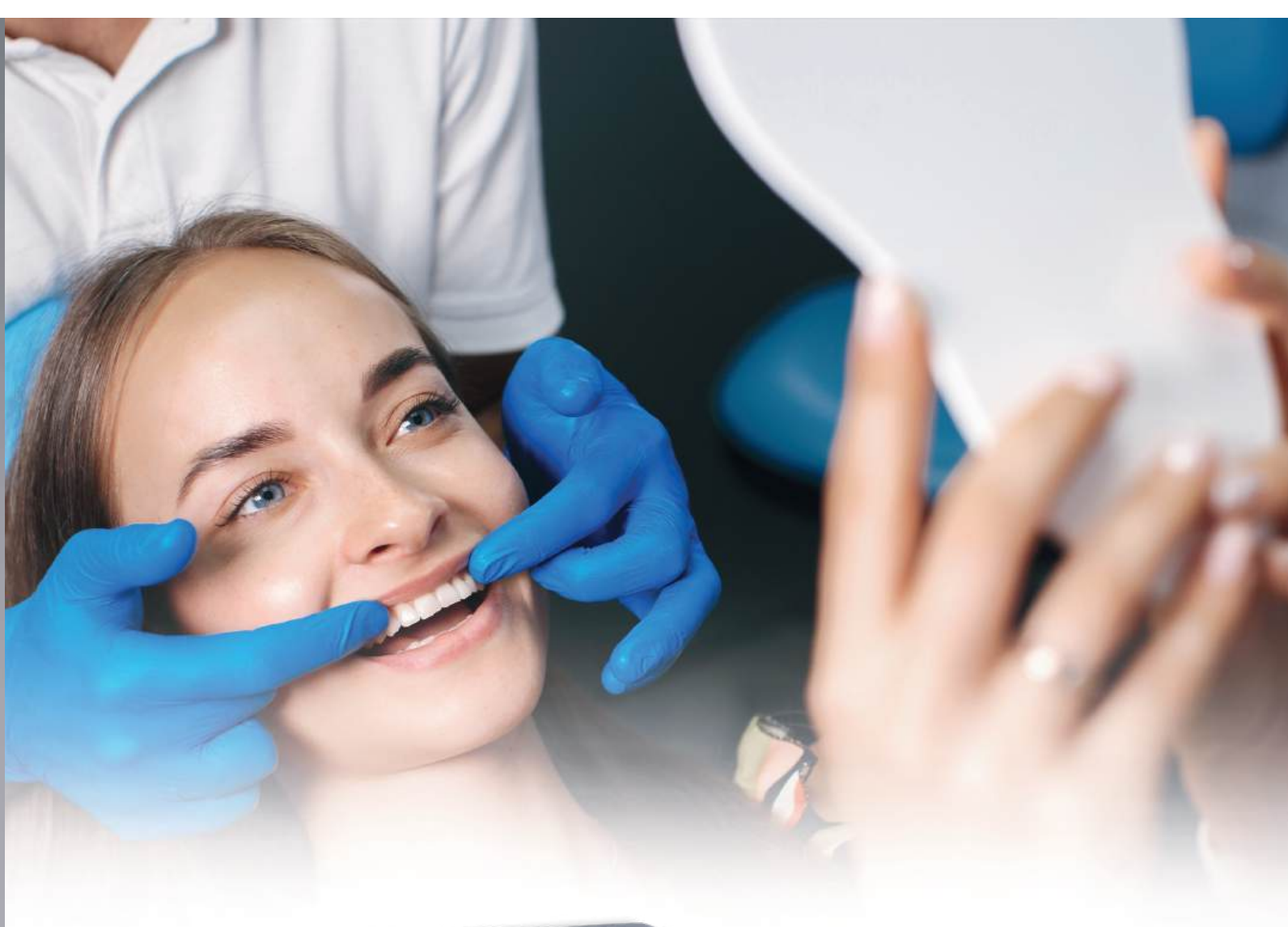
Reference Code	Product Description
<b>DRS2525</b>	DURASHEET Collagen Dura Membrane 2.5x2.5 cm
<b>DRS5050</b>	DURASHEET Collagen Dura Membrane 5x5 cm
<b>DRS7575</b>	DURASHEET Collagen Dura Membrane 7.5x7.5 cm
<b>DRS100100</b>	DURASHEET Collagen Dura Membrane 10x10 cm



**Science into Practice.  
Solutions into Lives.**



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## Collagen Based Graft Solutions

**DEBONE<sup>®</sup>**  
Collagen Based Bone Graft

**XENOBONE<sup>®</sup>**  
Collagen Bone Graft Matrix

**COLL-OS<sup>®</sup>**  
Collagen Based Dural Graft





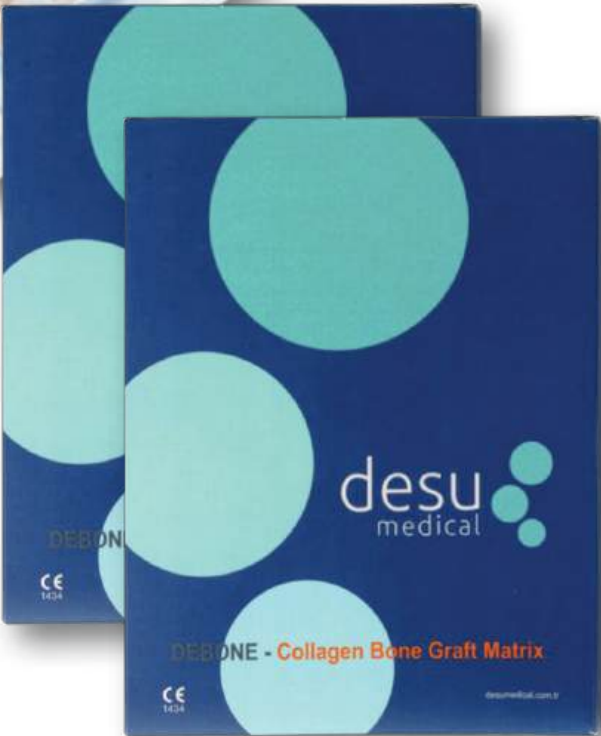
# DEBONE

## Collagen Based Bone Graft



COLLOS is designed for the substitute of a membrane when repairing the defects.

- DEBONE consists of Type 1 bovine collagen.
- B-TCP is added.
- Bioabsorbable
- It is an osteoconductive bone matrix containing more than 95% collagen.
- Supports osteinductive properties thanks to type-1 collagen molecules in its structure, • Creates a growth matrix for osteoblasts
- Contributes to bone development.
- Used to help repair all bone defects
- It is designed in two different forms as granule and sponge to adapt to different bone defects.



Reference Code	Product Description
DBN-0715W-5CC	5cc / 0.7-1.5mm
DBN-23W-5CC	5cc / 2-3mm
DBNG-5C-D03	5cc / 3-5mm
DBNG-5C-D04	5cc / 6-7mm
DBN-0715W-10CC	10cc / 0.7-1.5mm
DBN-23W-10CC	10cc / 2-3mm
DBNG-10C-D03	10cc / 4-5mm
DBNG-10C-D04	10cc / 6-7mm
DBN-0715W-15CC	15cc / 0.7-1.5mm
DBN-23W-15CC	15cc / 2-3mm
DBNG-15C-D03	15cc / 3-5mm
DBNG-15C-D04	15cc / 6-7mm
DBN-0715W-20CC	20cc / 0.7-1.5mm
DBN-23W-20CC	20cc / 2-3mm
DBNG-20C-D03	20cc / 3-5mm
DBNG-20C-D04	20cc / 6-7mm
DBN-0715W-30CC	30cc / 0.7-1.5mm
DBN-23W-30CC	30cc / 2-3mm
DBNG-30C-D03	30cc / 3-5mm
DBNG-30C-D04	30cc / 6-7mm



# XENOBONE

## Bovine-Derived Collagen Graft

It is a B-TCP supplemented, bioabsorbable osteoconductive bone matrix consisting of Xenobone type-I bovine collagen and containing more than 95% collagen. Thanks to the type-I collagen molecules in its structure, it supports osteoinductive properties, creates a growth matrix for osteoblasts and contributes to bone development.



Reference Code	Product Description
XBN-0715W-5CC	Collagen Based Animal Derived Bone Graft 0,7 - 1,5mm
XBN-23W-5CC	Collagen Based Animal Derived Bone Graft 2-3mm
XBN-45W-5CC	Collagen Based Animal Derived Bone Graft 4-5mm



# COLL-OS

## Collagen Based Graft

COLL-OS is designed for the substitute of a membrane when repairing the defects.

- It is a collagen barrier produced from ultra pure type-1 bovine collagen (contains > 95.5 % type-1 collagen)
- Collagen-based, biodegradable to assist in fast healing
- Usable for various CSF pressure levels so it can be applied to a wide variety of cases
- Prevent the leakage a lot better than existing devices due to its impermeable pore structure
- It can be used as onlay
- Sterilized with Gamma
- A ready-to-use product that does not require pre-processing
- It can be used to treat dural defects due to surgical operations such as spinal tumor, trauma meningocele, myelomeningocele and lipoma

**COLL-OS  
COLLAGEN  
BASED  
GRAFT**



Designed in various dimensions and are available to use in different size dural and spinal defects.

Reference Code	Product Description
CLS12525	Collagen-Based Dural Graft 1.25x2.5 cm
CLS152	Collagen-Based Dural Graft 1.5x2 cm
CLS23	Collagen-Based Dural Graft 2x3 cm
CLS2525	Collagen-Based Dural Graft 2.5x2.5 cm

# Kibo® Intracranial Pressure Monitoring System

The Linacol® Intracranial Pressure Measurement Kit is used when an increase or decrease in intracranial pressure needs to be observed.

KIBO® is a kit that digitally measures intracranial pressure values.

KIBO® is used with a digital measuring device and measuring sensor.

Simple installation process,

High accuracy and reliability with laser pointer, digital view,

Monitoring the intracranial pressure values in cm H<sub>2</sub>O unit.



Reference Code	Product Description
KIBO	ICP Monitor
KICP-001	EVD set with ICP sensor

# DeFix Bone Cement

DeFix® is a Radiopaque, PMMA-based bone cement with antibiotic or standard variants. It is used in a wide variety of medical procedures, such as joint replacements or cataract surgeries in the eyes.

While the prosthetic bonds the joint and bone together, it remains flexible enough to allow movement and absorb forces acting on the body. It is also used to reshape lost bone and fill gaps in bones.

DeFix® VertebroplastyBone Cement

Standard/ Antibiotic

Defix® VertobropastyBone Cement is indicated for fixation of pathological fractures of the vertebral body (vertebroplasty and kyphoplasty).

Defix® VertobropastyBone Cement is indicated for fixation of pathological fractures of the vertebral body (vertebroplasty and kyphoplasty).

- EASY TO USE
- BIOCOMPATIBLE
- HIGH RADIO-OPACITY
- APPROPRIATE WORKING TIME

Reference Code	Product Description	Content
DeFix SM40	DEFIX Standard Bone Cement	40gr / Standard
DeFix SAM40	DEFIX Standard Bone Cement	40gr / with Antibiotic
DeFix SH20	DEFIX Vertebroplasty Bone Cement	20gr / Standard
DeFix SH40	DEFIX Vertebroplasty Bone Cement	40gr / Standard





# Cranioplasty Bone Cement

Standard/ Antibiotic

Poly-methyl-methacrylate (PMMA) is the most widely used biomaterial for cranioplasty.

The product has two main components: liquid monomer and powdered polymer.

The powder contains PMMA with dibenzoyl peroxide, a bariumsulfate radiopacifier, and gentamicin as an antibiotic.

Reference Code	Product Description	Content
DeFix SL20	DEFIX Cranioplasty Bone Cement	20gr / Standard
DeFix SL40	DEFIX Cranioplasty Bone Cement	40gr / Standard





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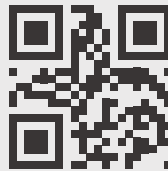
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