

desu

# 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.



## SHUNTS

Description

**Silicone Shunts**

6	Defit Shunts, Silicone Flat-Bottom Shunts
7	Defit Shunts, Silicone Flat-Bottom Shunt Kits
10	Decurve Shunts, Silicone Burr-Hole Shunts
11	Decurve Shunts, Silicone Burr-Hole Shunt Kits

**Polysulfone Shunts**

14	Depus Shunts
15	Depus Shunts, Ventriculoperitoneal Shunt Kits
16	Depus Shunts, Lumboperitoneal Shunt Kits
17	Depus Shunts, Adjustable Ventriculoperitoneal Shunt Kits
19	Depus Adjustment Kit

## DRAINAGE SYSTEM

Description

24	External Ventricular Drainage System With Antibiotic Impregnated Ventricular Catheter
25	External Ventricular Drainage System With Ventricular Catheter
26	External Lumbar Drainage System With Antibiotic Impregnated Lumbar Catheter
27	External Lumbar Drainage System With Lumbar Catheter
28	External Ventricular Drainage System With Antibiotic Impregnated Ventricular Catheter
29	External Ventricular Drainage System With Ventricular Catheter
30	External Lumbar Drainage System With Antibiotic Impregnated Lumbar Catheter
31	External Lumbar Drainage System With Lumbar Catheter
32	Compatible Accessories for ENDS-020
33	Drainage Bag

## CATHETERS

Description

**Shunts Catheters**

36	Ventricular Catheter Kit
37	Peritoneal Catheter Kit
38	Ventriculoperitoneal Catheter Kit
39	Lumbar Catheter Kit
40	Lumboperitoneal Catheter Kit

**External Drainage Catheters**

41	Ventricular Catheter Kit
42	Lumbar Catheter Kit

## ACCESSORIES

Description

44	Antisiphon Device
44	Straight Catheter Connector
44	L Type Catheter Connector
44	Y Type Catheter Connector

## DURA GRAFTS

Description

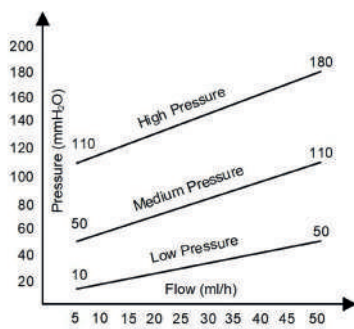
46	DECOLL Collagen Dura Membrane
47	DURASHEET Collagen Dura Membrane

## COLLAGEN BASED GRAFTS SOLUTIONS

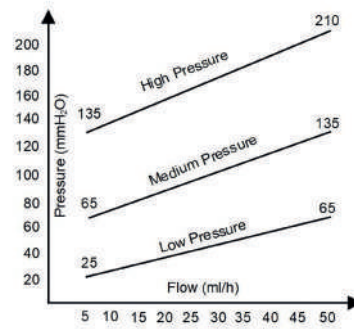
Description

50	DEBONE Collagen Based Bone Grafts
51	XENOBONE Bovine-Derived Collagen Graft
52	COLL-OS Collagen Barrier Membrane
53	Kibo® Intracranial Pressure Monitoring System
54	DeFix Bone Cement
55	Cranioplasty Bone Cement

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



Normal kit graph



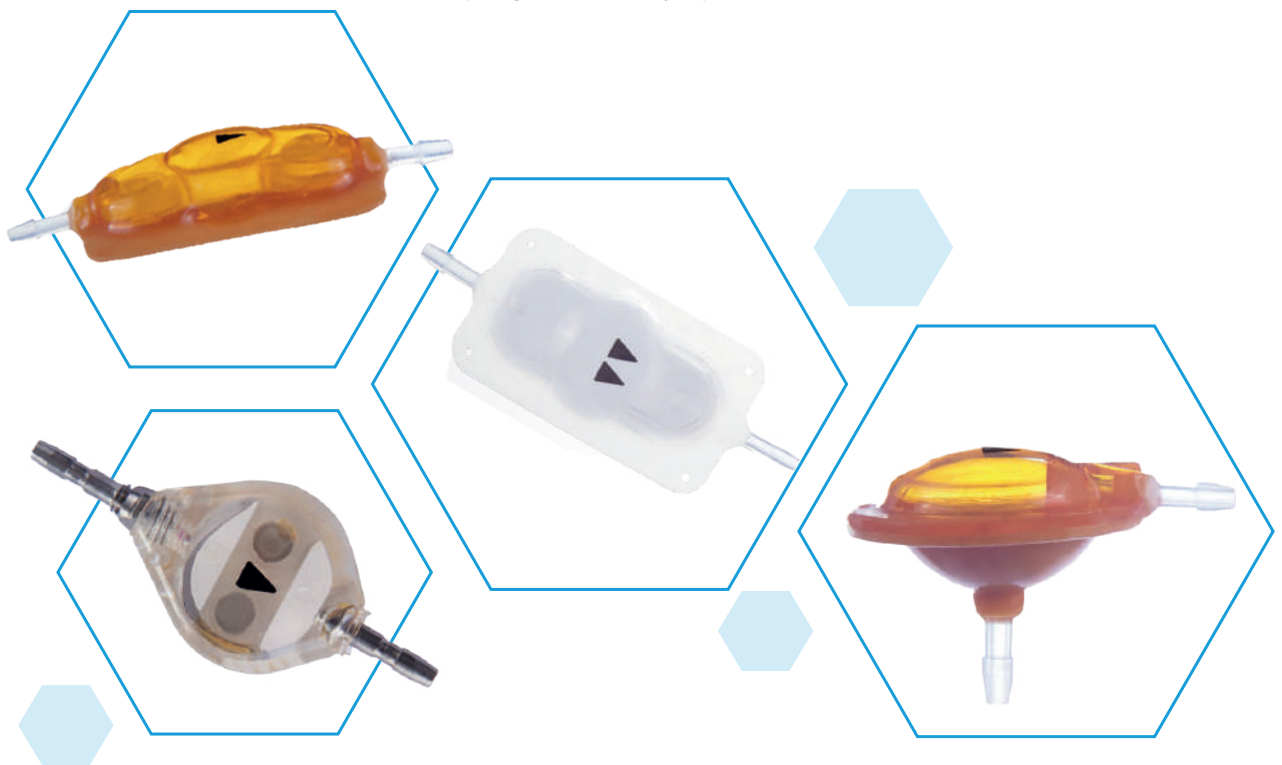
Antisiphon kit graph

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

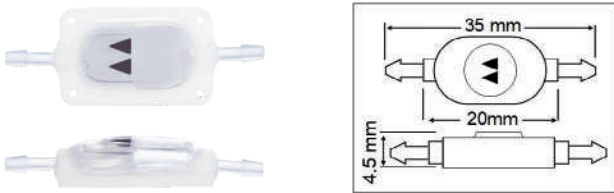
The mechanism inside the Polysulfone Shunts is triggered by positive ventricular pressure and the valve opens automatically. The ruby ball and titanium spring parts in the system are the main components of this system, which works with the hydrodynamic leverage method.

# Defit Shunts

## Silicone Flat-Bottom Shunts

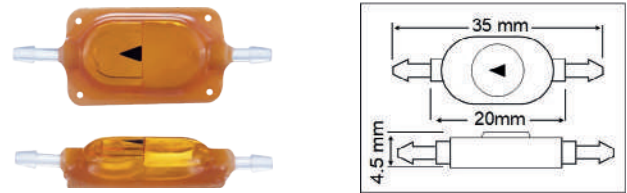
Ultra Small, Small and Regular sizes are available as valve and shunt kit.

### Ultra Small Defit Shunt



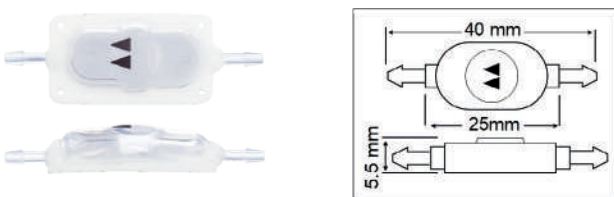
Reference Code	Pressure	Product Description
<b>DFUS-L</b>	<b>L</b>	Defit Ultra Small Silicone Shunt Low Pressure
<b>DFUS-M</b>	<b>M</b>	Defit Ultra Small Silicone Shunt Medium Pressure
<b>DFUS-H</b>	<b>H</b>	Defit Ultra Small Silicone Shunt High Pressure

### Antibiotic Impregnated Ultra Small Defit Shunt



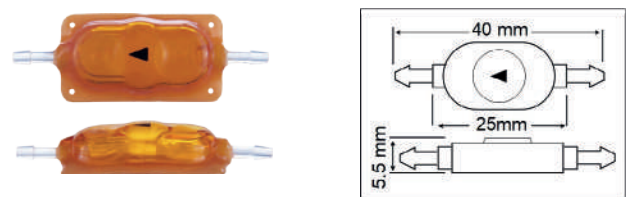
Reference Code	Pressure	Product Description
<b>ADFUS-L</b>	<b>L</b>	Antibiotic Impregnated Defit Ultra Small Silicone Shunt Low Pressure
<b>ADFUS-M</b>	<b>M</b>	Antibiotic Impregnated Defit Ultra Small Silicone Shunt Medium Pressure
<b>ADFUS-H</b>	<b>H</b>	Antibiotic Impregnated Defit Ultra Small Silicone Shunt High Pressure

### Small Defit Shunt



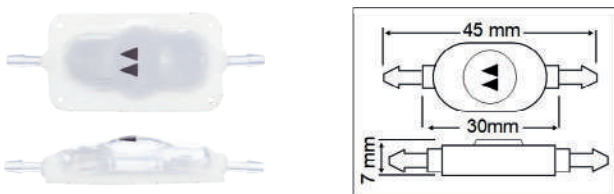
Reference Code	Pressure	Product Description
<b>DFS-L</b>	<b>L</b>	Defit Small Silicone Shunt Low Pressure
<b>DFS-M</b>	<b>M</b>	Defit Small Silicone Shunt Medium Pressure
<b>DFS-H</b>	<b>H</b>	Defit Small Silicone Shunt High Pressure

### Antibiotic Impregnated Small Defit Shunt



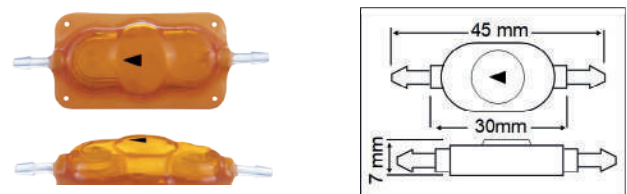
Reference Code	Pressure	Product Description
<b>ADFS-L</b>	<b>L</b>	Antibiotic Impregnated Defit Small Silicone Shunt Low Pressure
<b>ADFS-M</b>	<b>M</b>	Antibiotic Impregnated Defit Small Silicone Shunt Medium Pressure
<b>ADFS-H</b>	<b>H</b>	Antibiotic Impregnated Defit Small Silicone Shunt High Pressure

### Regular Defit Shunt



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

### Antibiotic Impregnated Regular Defit Shunt



Reference Code	Pressure	Product Description
<b>ADFR-L</b>	<b>L</b>	Antibiotic Impregnated Defit Regular Silicone Shunt Low Pressure
<b>ADFR-M</b>	<b>M</b>	Antibiotic Impregnated Defit Regular Silicone Shunt Medium Pressure
<b>ADFR-H</b>	<b>H</b>	Antibiotic Impregnated Defit Regular Silicone Shunt High Pressure

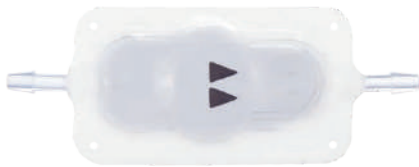
# Ultra Small Defit Shunts

## 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



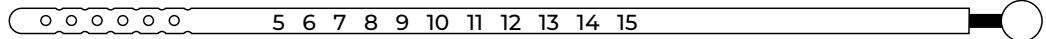
Defit Shunt



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
DFUS-L-VCK		Defit Ultra Small Silicone Shunt Low Pressure with Ventriculoperitoneal Catheter Kit
DFUS-L-VCK-ASD	L	Defit Ultra Small Silicone Shunt Low Pressure with Ventriculoperitoneal Catheter Kit and Antisiphone Device
DFUS-M-VCK		Defit Ultra Small Silicone Shunt Medium Pressure with Ventriculoperitoneal Catheter Kit
DFUS-M-VCK-ASD	M	Defit Ultra Small Silicone Shunt Medium Pressure with Ventriculoperitoneal Catheter Kit and Antisiphone Device
DFUS-H-VCK		Defit Ultra Small Silicone Shunt High Pressure with Ventriculoperitoneal Catheter Kit
DFUS-H-VCK-ASD	H	Defit Ultra Small Silicone Shunt High Pressure with Ventriculoperitoneal Catheter Kit and Antisiphone Device

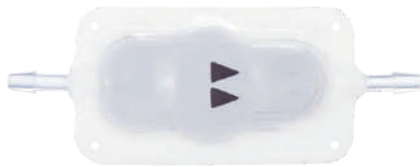
# Small Defit Shunt

## 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)

### Small Defit Shunt



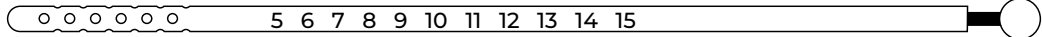
Defit Shunt



ASD (Optional)

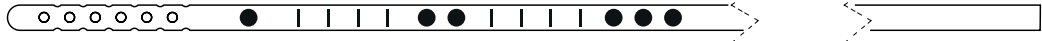
Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm

#### Ventricular Catheter



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

#### Peritoneal Catheter



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

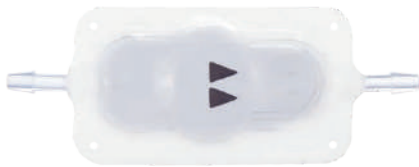
# Regular Defit Shunt

## 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)

### Regular Defit Shunt



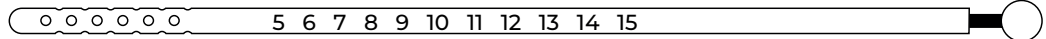
Defit Shunt



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
DFR-L-VCK		Defit Regular Silicone Shunt Low Pressure with Ventriculoperitoneal Catheter Kit
DFR-L-VCK-ASD	L	Defit Regular Silicone Shunt Low Pressure with Ventriculoperitoneal Catheter Kit and Antisiphone Device
DFR-M-VCK		Defit Regular Silicone Shunt Medium Pressure with Ventriculoperitoneal Catheter Kit
DFR-M-VCK-ASD	M	Defit Regular Silicone Shunt Medium Pressure with Ventriculoperitoneal Catheter Kit and Antisiphone Device
DFR-H-VCK		Defit Regular Silicone Shunt High Pressure with Ventriculoperitoneal Catheter Kit
DFR-H-VCK-ASD	H	Defit Regular Silicone Shunt High Pressure with Ventriculoperitoneal Catheter Kit and Antisiphone 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



Defit Shunt

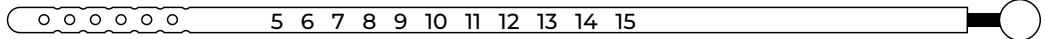


ASD (Optional)

#### Ventricular Catheter

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

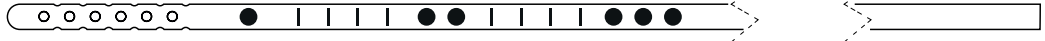
#### Ventricular Catheter



#### Peritoneal Catheter

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

#### Peritoneal Catheter



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



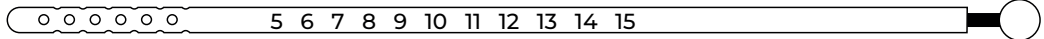
Antibiotic Impregnated Defit Shunt



ASD (Optional)

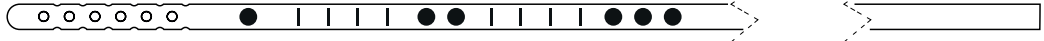
Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm

Ventricular Catheter



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

Peritoneal Catheter



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

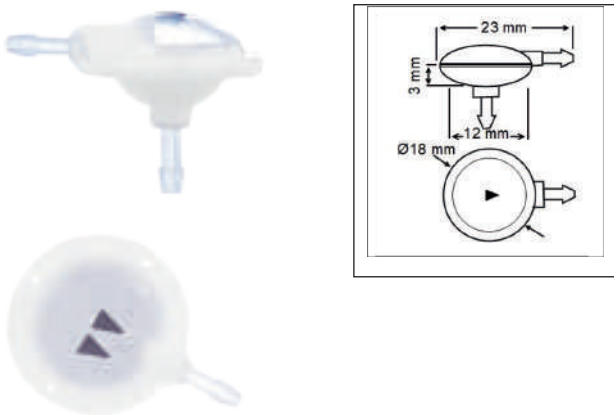
# Decurve Shunts

## Silicone Burr-Hole Shunts

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

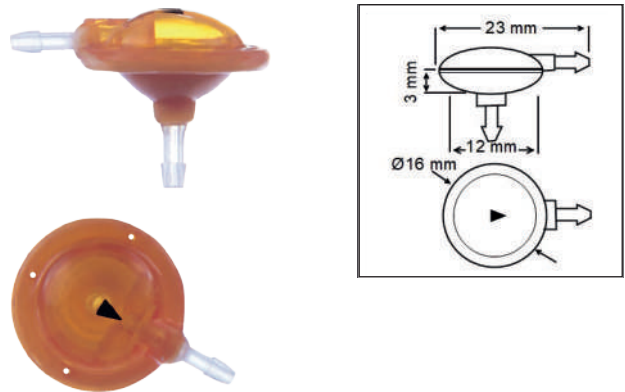
SILICONE SHUNTS

### Pediatric Decurve Shunt



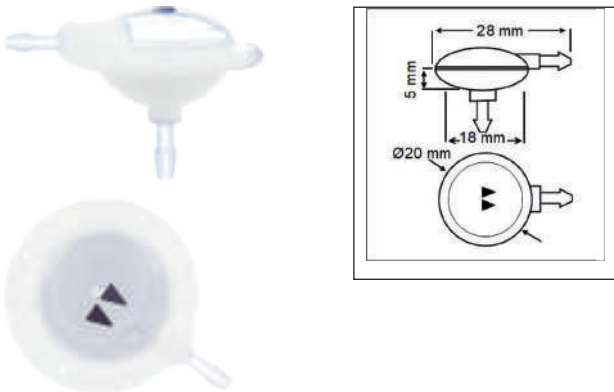
Reference Code	Pressure	Product Description
DCP-L	L	Decurve Pediatric Silicone Shunt Low Pressure
DCP-M	M	Decurve Pediatric Silicone Shunt Medium Pressure
DCP-H	H	Decurve Pediatric Silicone Shunt High Pressure

### Antibiotic Impregnated Pediatric Decurve Shunt



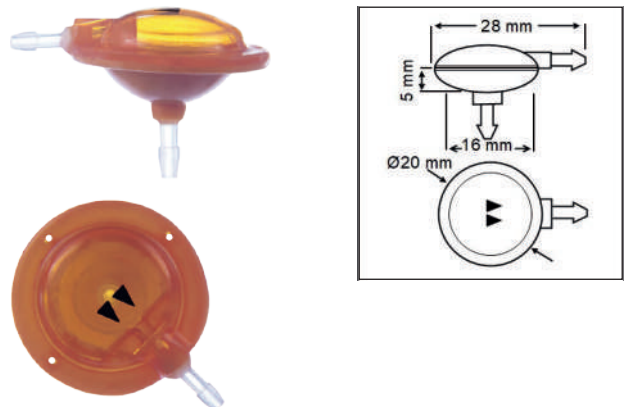
Reference Code	Pressure	Product Description
ADCP-L	L	Antibiotic Impregnated Decurve Pediatric Silicone Shunt Low Pressure
ADCP-M	M	Antibiotic Impregnated Decurve Pediatric Silicone Shunt Medium Pressure
ADCP-H	H	Antibiotic Impregnated Decurve Pediatric Silicone Shunt High Pressure

### 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	Antibiotic Impregnated Decurve Adult Silicone Shunt Low Pressure
ADCA-M	M	Antibiotic Impregnated Decurve Adult Silicone Shunt Medium Pressure
ADCA-H	H	Antibiotic Impregnated 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



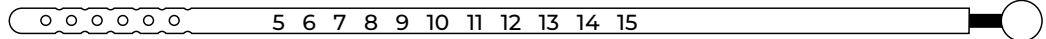
Decurve Shunt



ASD (Optional)

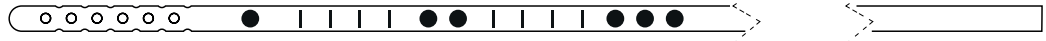
Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm

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 Antibiotic Impregnated Ventriculoperitoneal Catheter Kit
DCP-L-VCK-ASD		Decurve Pediatric Silicone Shunt Low Pressure with Ventriculoperitoneal Catheter Kit and Antisiphone Device
DCP-L-VACK-ASD		Decurve Pediatric Silicone Shunt Low Pressure with Antibiotic Impregnated Ventriculoperitoneal Catheter Kit and Antisiphone 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 Antibiotic Impregnated Ventriculoperitoneal Catheter Kit
DCP-M-VCK-ASD		Decurve Pediatric Silicone Shunt Medium Pressure with Ventriculoperitoneal Catheter Kit and Antisiphone Device
DCP-M-VACK-ASD		Decurve Pediatric Silicone Shunt Medium Pressure with Antibiotic Impregnated Ventriculoperitoneal Catheter Kit and Antisiphone 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 Antibiotic Impregnated Ventriculoperitoneal Catheter Kit
DCP-H-VCK-ASD		Decurve Pediatric Silicone Shunt High Pressure with Ventriculoperitoneal Catheter Kit and Antisiphone Device
DCP-H-VACK-ASD		Decurve Pediatric Silicone Shunt High Pressure with Antibiotic Impregnated Ventriculoperitoneal Catheter Kit and Antisiphone 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



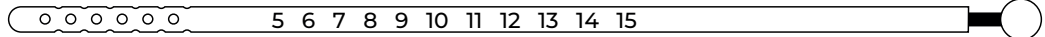
Decurve Shunt



ASD (Optional)

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

#### Ventricular Catheter



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

#### Peritoneal Catheter



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 Antibiotic Impregnated 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 Antibiotic Impregnated 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 Antibiotic Impregnated 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 Antibiotic Impregnated 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 Antibiotic Impregnated 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 Antibiotic Impregnated 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



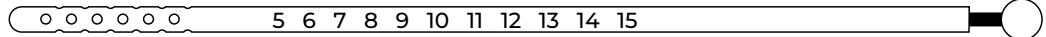
Antibiotic Impregnated Decurve Shunt



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	Antibiotic Impregnated Decurve Pediatric Silicone Shunt Low Pressure with Antibiotic Impregnated Ventriculoperitoneal Catheter Kit
ADCP-L-VACK-ASD		Antibiotic Impregnated Decurve Pediatric Silicone Shunt Low Pressure with Antibiotic Impregnated Ventriculoperitoneal Catheter Kit and Antisiphone Device
ADCA-L-VACK		Antibiotic Impregnated Decurve Adult Silicone Shunt Low Pressure with Antibiotic Impregnated Ventriculoperitoneal Catheter Kit
ADCA-L-VACK-ASD		Antibiotic Impregnated Decurve Adult Silicone Shunt Low Pressure with Antibiotic Impregnated Ventriculoperitoneal Catheter Kit and Antisiphone Device
ADCP-M-VACK	M	Antibiotic Impregnated Decurve Pediatric Silicone Shunt Medium Pressure with Antibiotic Impregnated Ventriculoperitoneal Catheter Kit
ADCP-M-VACK-ASD		Antibiotic Impregnated Decurve Pediatric Silicone Shunt Medium Pressure with Antibiotic Impregnated Ventriculoperitoneal Catheter Kit and Antisiphone Device
ADCA-M-VACK		Antibiotic Impregnated Decurve Adult Silicone Shunt Medium Pressure with Antibiotic Impregnated Ventriculoperitoneal Catheter Kit
ADCA-M-VACK-ASD		Antibiotic Impregnated Decurve Adult Silicone Shunt Medium Pressure with Antibiotic Impregnated Ventriculoperitoneal Catheter Kit and Antisiphone Device
ADCP-H-VACK	H	Antibiotic Impregnated Decurve Pediatric Silicone Shunt High Pressure with Antibiotic Impregnated Ventriculoperitoneal Catheter Kit
ADCP-H-VACK-ASD		Antibiotic Impregnated Decurve Pediatric Silicone Shunt High Pressure with Antibiotic Impregnated Ventriculoperitoneal Catheter Kit and Antisiphone Device
ADCA-H-VACK		Antibiotic Impregnated Decurve Adult Silicone Shunt High Pressure with Antibiotic Impregnated Ventriculoperitoneal Catheter Kit
ADCA-H-VACK-ASD		Antibiotic Impregnated Decurve Adult Silicone Shunt High Pressure with Antibiotic Impregnated Ventriculoperitoneal Catheter Kit and Antisiphone Device

# Depus Shunts

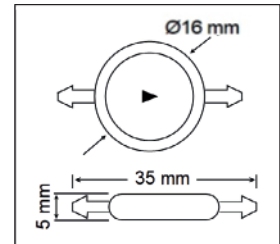
The mechanism inside the shunt is triggered by positive ventricular pressure and the valve opens automatically. The ruby ball and titanium spring parts in the system are the main components of this system, which works with the hydrodynamic leverage method.



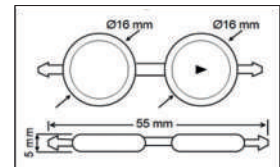
Depus Shunt



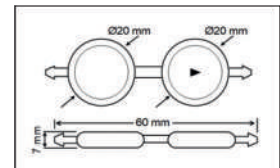
Adjustable Depus Shunt



## Depus Shunt with Flat-Bottom Reservoir

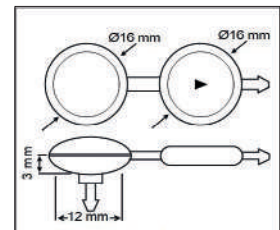


Pediatric

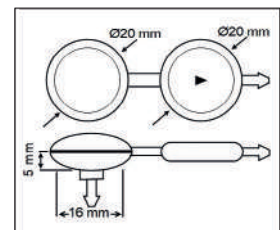


Adult

## 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

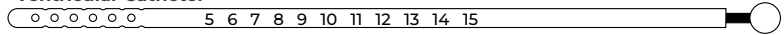
### Standard Depus Shunt Kit



Depus Valve

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

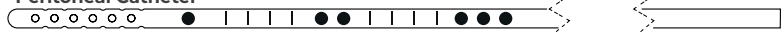
Ventricular Catheter



ASD (Optional)

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

Peritoneal Catheter



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 Antisiphone 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 Antisiphone 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 Antisiphone Device

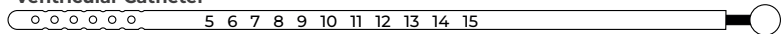
### Semi Antibiotic Depus Shunt Kit



Depus Valve

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

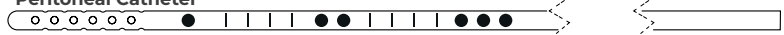
Ventricular Catheter



ASD (Optional)

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

Peritoneal Catheter



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

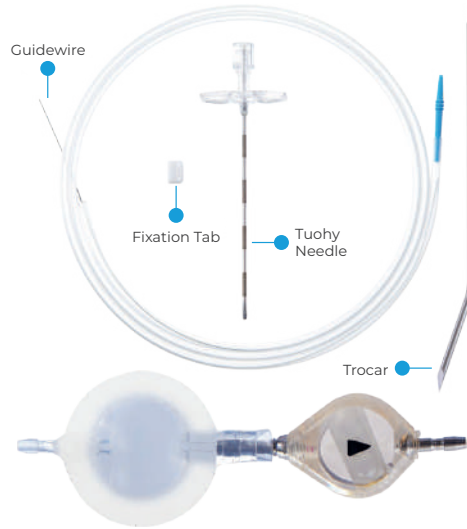
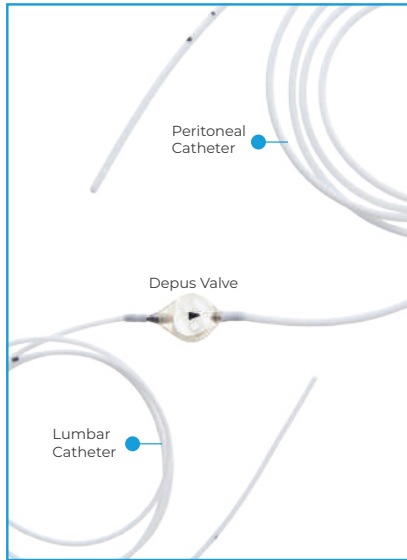
# Depus Shunts

## 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

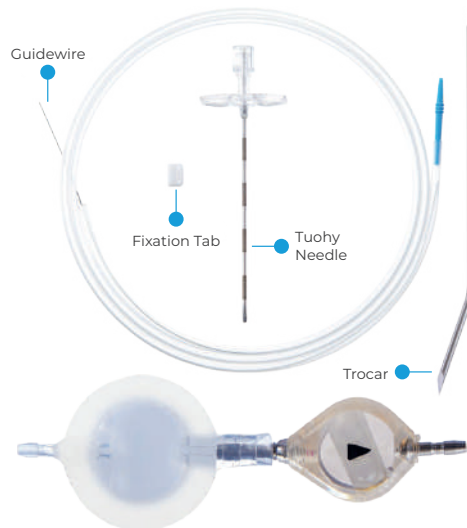
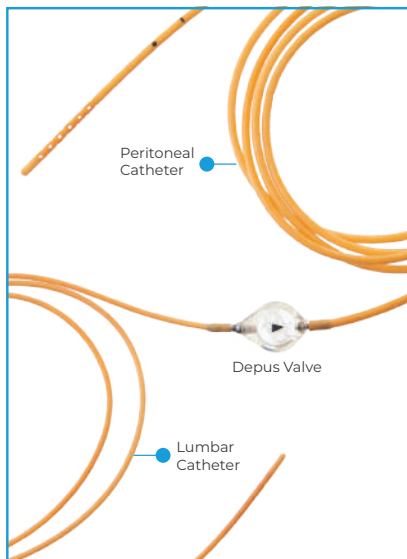


Peritoneal Catheter	
I.D.	1.1mm
O.D.	2.5mm
Length	120cm

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 Antibiotic Impregnated Lumboperitoneal Catheter
LPDP-M-LTACK	M	Depus Lumboperitoneal Polysulfone Shunt Medium Pressure with Antibiotic Impregnated Lumboperitoneal Catheter
LPDP-H-LTACK	H	Depus Lumboperitoneal Polysulfone Shunt High Pressure with Antibiotic Impregnated 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

Referans Kodu	3 Pressure
<b>DP-A</b>	DEPUS Adjustable Pediatric Shunt
<b>ADP-A</b>	DEPUS Adjustable Pediatric Shunt with Antibiotic Impregnated Body
<b>DP-A-VCK</b>	DEPUS Adjustable Pediatric Shunt with Ventriculoperitoneal Catheter Kit
<b>DP-A-VACK</b>	DEPUS Adjustable Pediatric Shunt with Antibiotic Impregnated Ventriculoperitoneal Catheter Kit
<b>ADP-A-VCK</b>	Antibiotic Impregnated Body DEPUS Adjustable Pediatric Shunt with Ventriculoperitoneal Catheter Kit
<b>ADP-A-VACK</b>	Antibiotic Impregnated Body DEPUS Adjustable Pediatric Shunt with Antibiotic Impregnated Ventriculoperitoneal Catheter Kit
<b>DP-A-VCK-ASD</b>	DEPUS Adjustable Pediatric Shunt, Ventriculoperitoneal Catheter Kit with Antisiphon Device
<b>DP-A-VACK-ASD</b>	DEPUS Adjustable Pediatric Shunt, Antibiotic Impregnated Ventriculoperitoneal Catheter Kit with Antisiphon Device
<b>ADP-A-VCK-ASD</b>	Antibiotic Impregnated Body DEPUS Adjustable Pediatric Shunt with Ventriculoperitoneal Catheter Kit and Antisiphon Device
<b>ADP-A-VACK-ASD</b>	Antibiotic Impregnated Body DEPUS Adjustable Pediatric Shunt, Antibiotic Impregnated Ventriculoperitoneal Catheter Kit with Antisiphon Device

### Standard Depus Shunt Kit



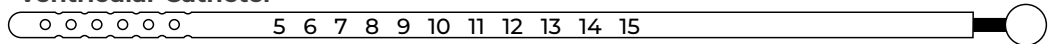
Adjustable Depus Valve



ASD (Optional)

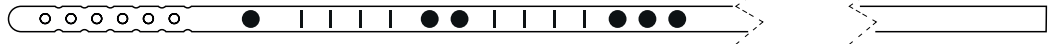
Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm

#### Ventricular Catheter



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

#### Peritoneal Catheter



### Semi Antibiotic Depus Shunt Kit



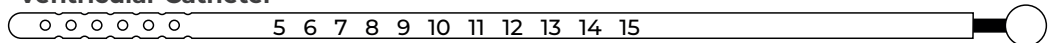
Adjustable Depus Valve



ASD (Optional)

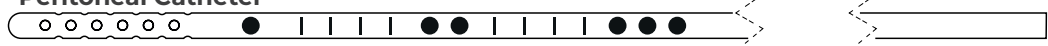
Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm

#### 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

Referans Kodu	5 Pressure
DPA-A	DEPUS Adjustable Adult Shunt
ADPA-A	DEPUS Adjustable Adult Shunt with Antibiotic Impregnated Body
DPA-A-VCK	DEPUS Adjustable Adult Shunt with Ventriculoperitoneal Catheter Kit
DPA-A-VACK	DEPUS Adjustable Adult Shunt with Antibiotic Impregnated Ventriculoperitoneal Catheter Kit
ADPA-A-VCK	Antibiotic Impregnated Body DEPUS Adjustable Adult Shunt with Ventriculoperitoneal Catheter Kit
ADPA-A-VACK	Antibiotic Impregnated Body DEPUS Adjustable Adult Shunt with Antibiotic Impregnated Ventriculoperitoneal Catheter Kit
DPA-A-VCK-ASD	DEPUS Adjustable Adult Shunt, Ventriculoperitoneal Catheter Kit with Antisiphon Device
DPA-A-VACK-ASD	DEPUS Adjustable Adult Shunt, Antibiotic Impregnated Ventriculoperitoneal Catheter Kit with Antisiphon Device
ADPA-A-VCK-ASD	Antibiotic Impregnated Body DEPUS Adjustable Adult Shunt, Ventriculoperitoneal Catheter Kit with Antisiphon Device
ADPA-A-VACK-ASD	Antibiotic Impregnated Body DEPUS Adjustable Adult Shunt, Antibiotic Impregnated Ventriculoperitoneal Catheter Kit with Antisiphon Device

### Standard Depus Shunt Kit



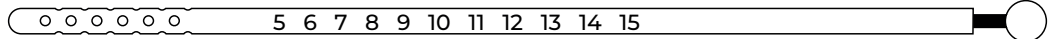
Adjustable Depus Valve



ASD (Optional)

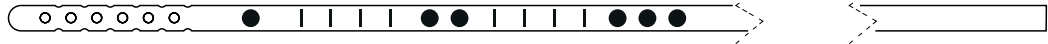
Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm

#### Ventricular Catheter



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

#### Peritoneal Catheter



### Semi Antibiotic Depus Shunt Kit



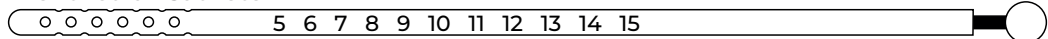
Adjustable Depus Valve



ASD (Optional)

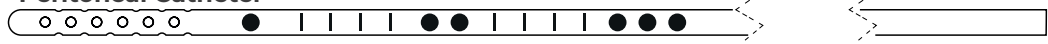
Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm

#### 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

desu 

**PRECISION IN PURPOSE.  
EXCELLENCE IN HEALING.**

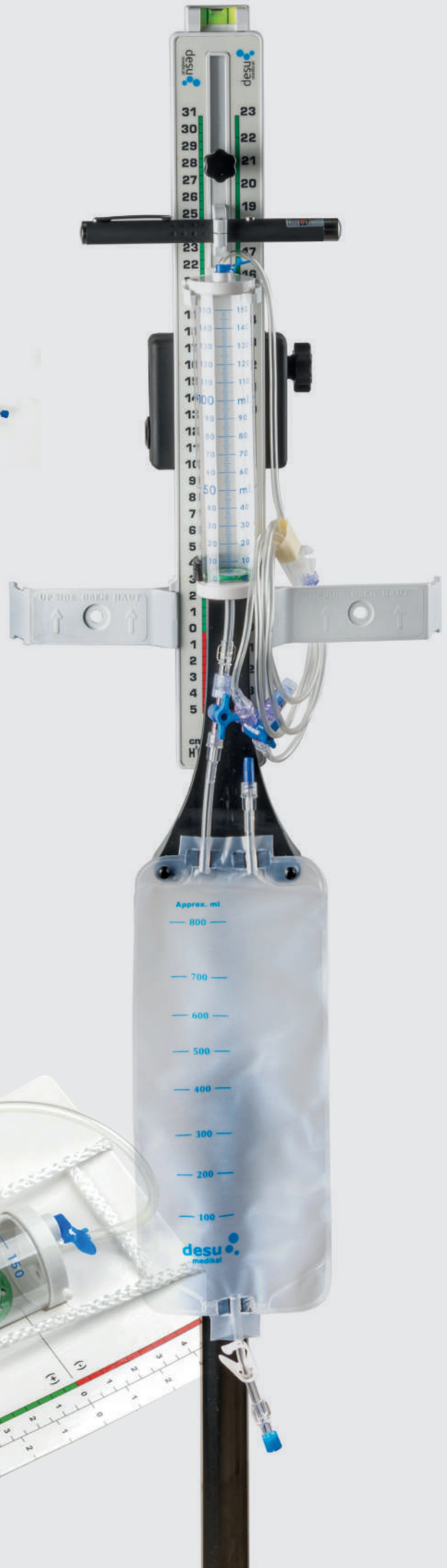


[www.desu.tr](http://www.desu.tr)



# 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.

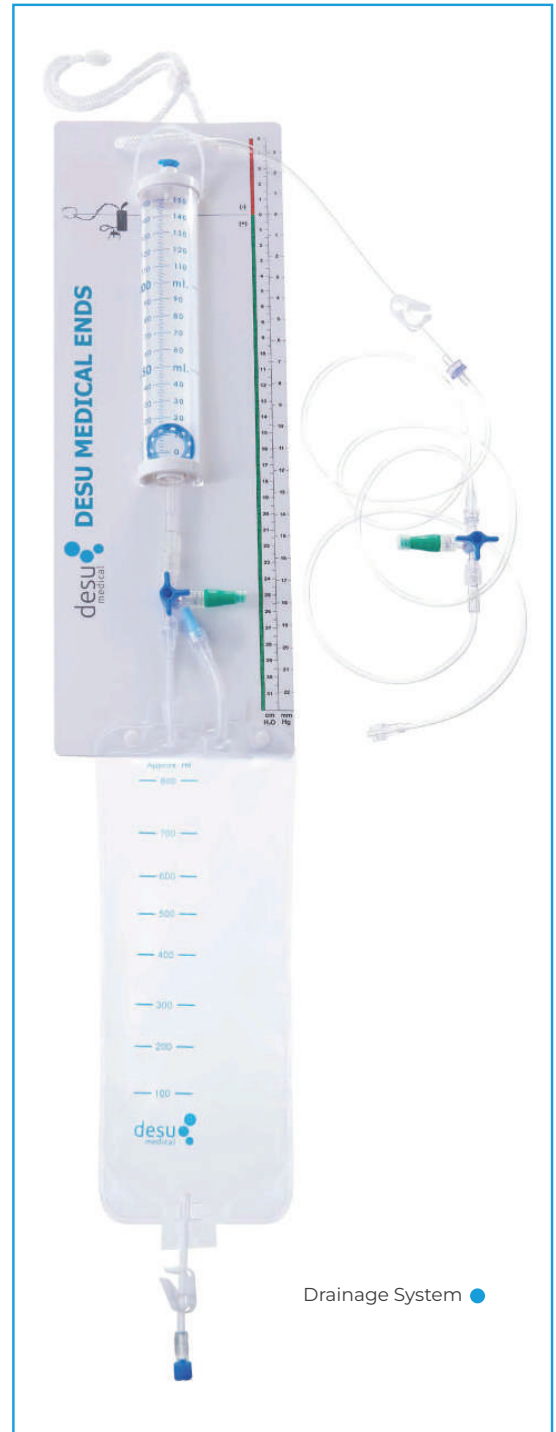
**Antibiotic Impregnated Ventricular Catheter** (ID 1,5 mm, OD 3,0 mm, L 31 cm) **with;**

- 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 Antibiotic Impregnated Ventricular 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

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

**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 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

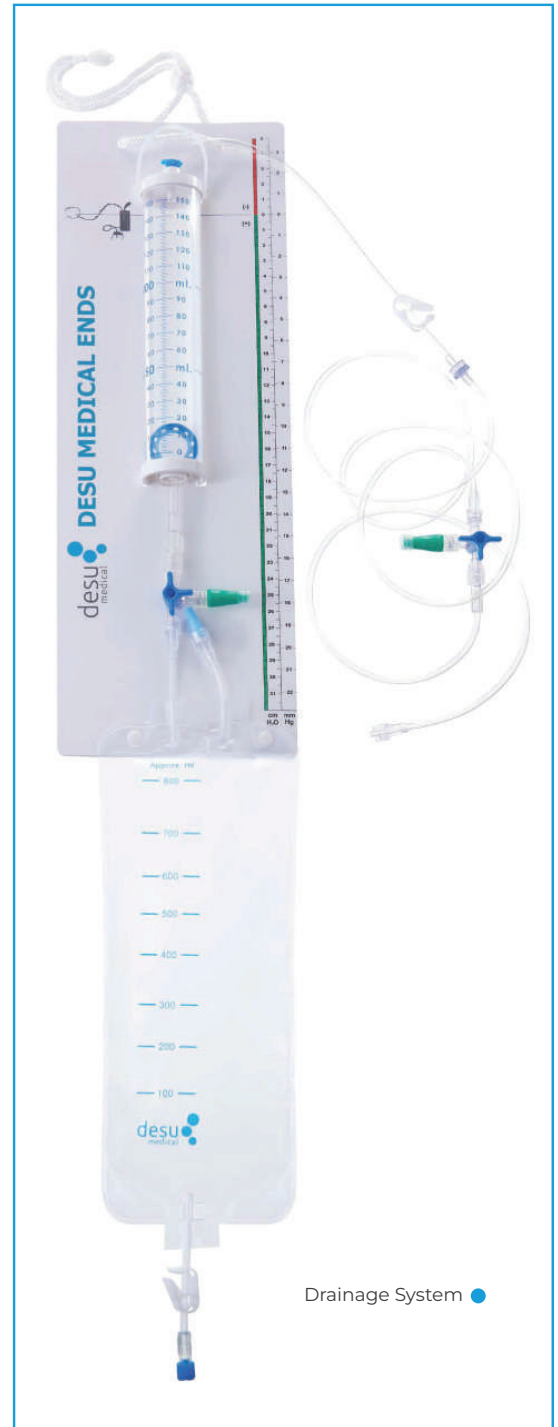
Barium Impregnated Standard Ventricular Catheter

Fixation Tab

Luer Lock Connector and Distal Cap

Angled Trocar

Stylet



Drainage System

# 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;

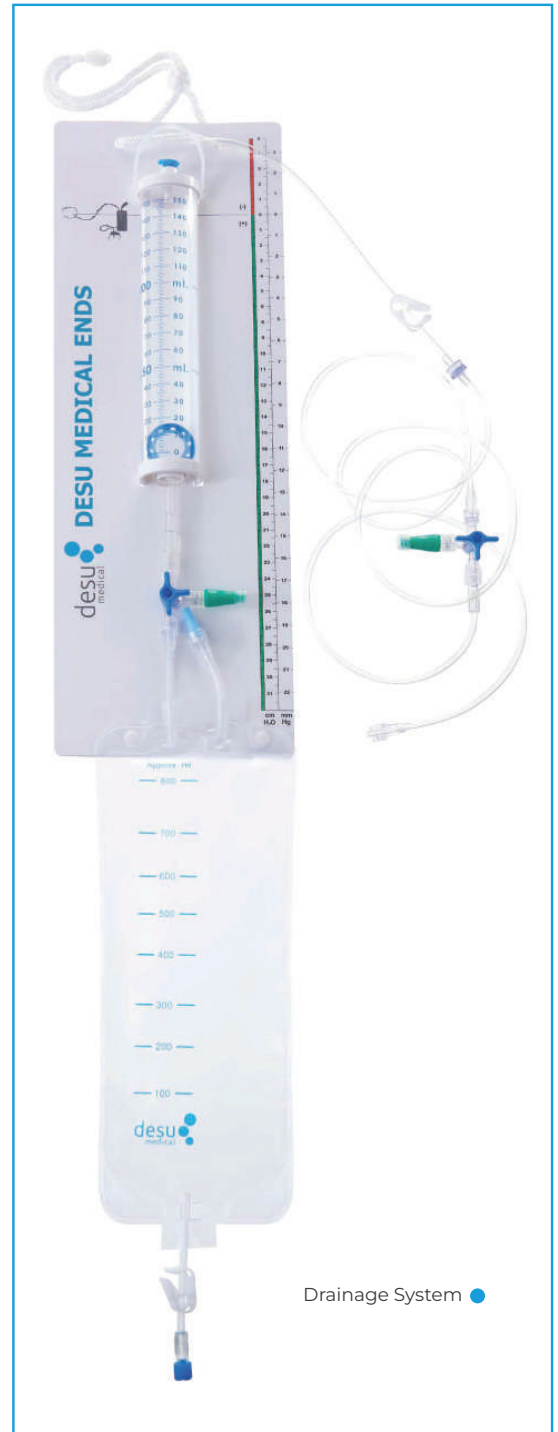
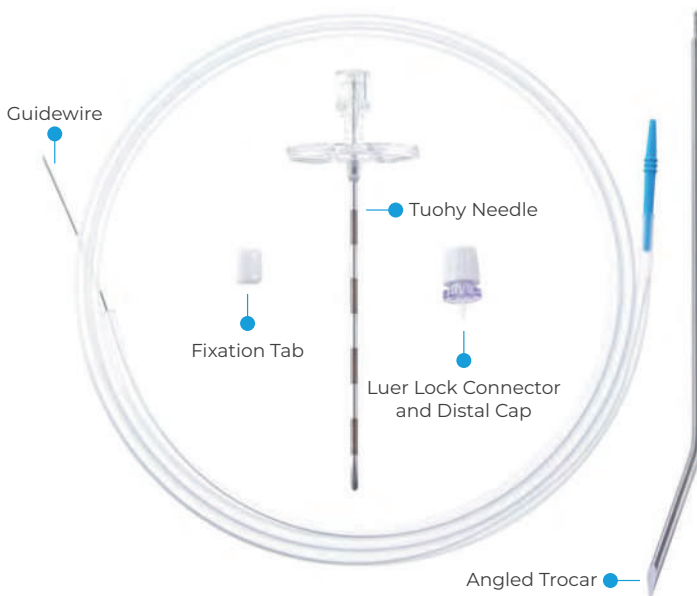
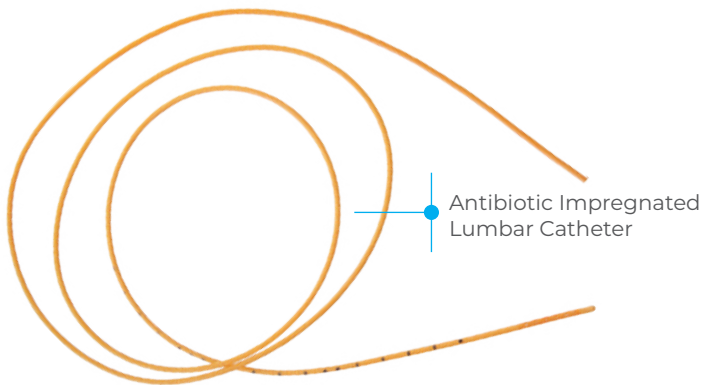
**Antibiotic Impregnated Lumbar Catheter** (ID 0,8 mm, OD 1,6 mm, L 80 cm) **with;**

- 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 Antibiotic Impregnated 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;

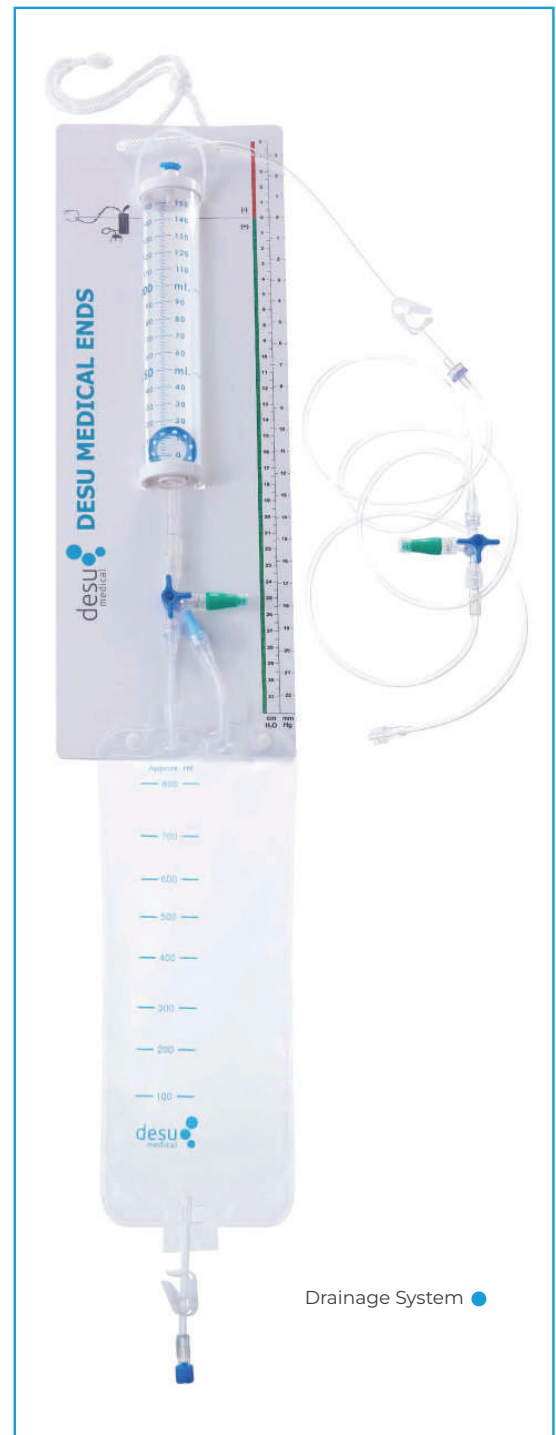
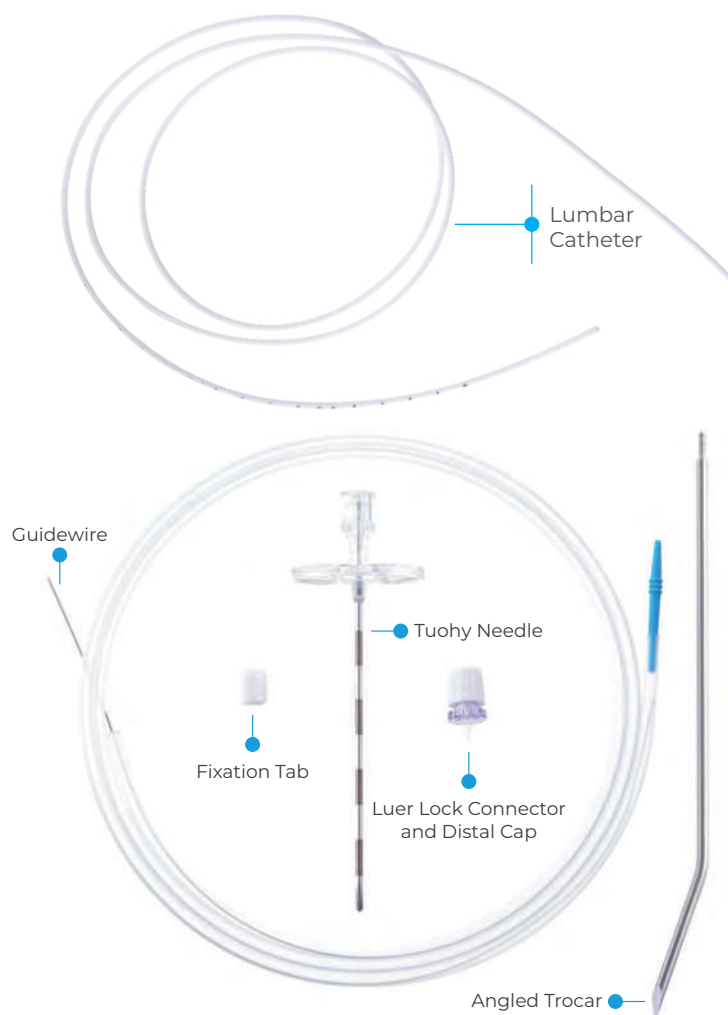
**Barium Impregnated Lumbar Catheter** (ID 0,8 mm, OD 1,6 mm, L 80 cm) **with;**

- 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 Antibiotic Impregnated catheter



Antibiotic Impregnated Ventricular Catheter

Fixation Tab

Luer Lock Connector and Distal Cap

Angled Trocar

Stylet



# 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.

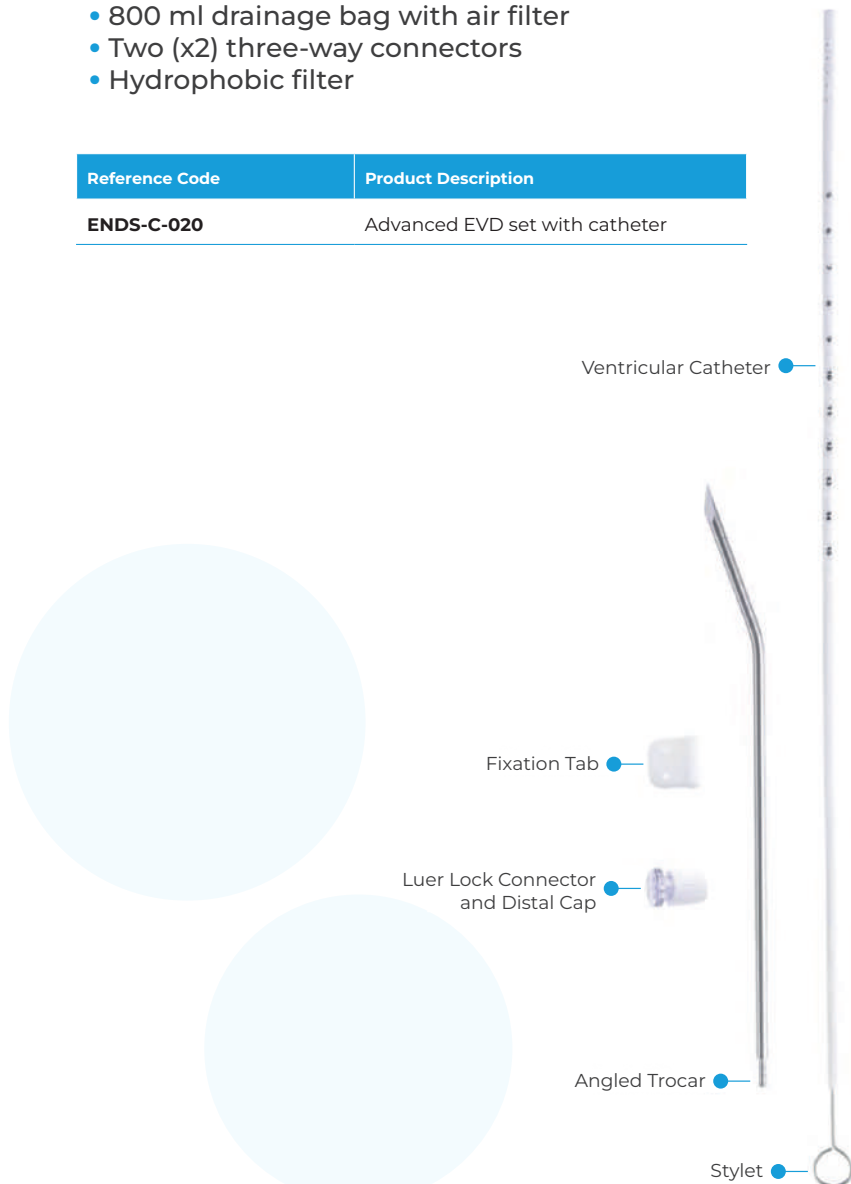
**Barium Impregnated Standard Ventricular Catheter** (ID 1,5 mm, OD 3,0 mm, L 31 cm) **with;**

- 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



# 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

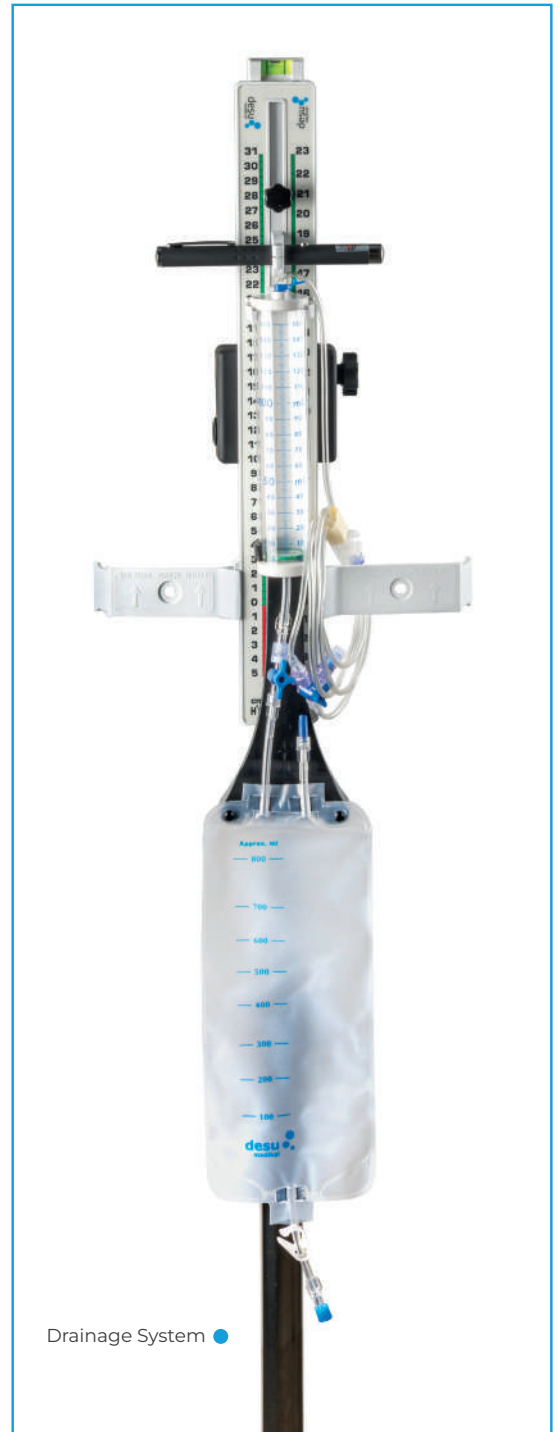
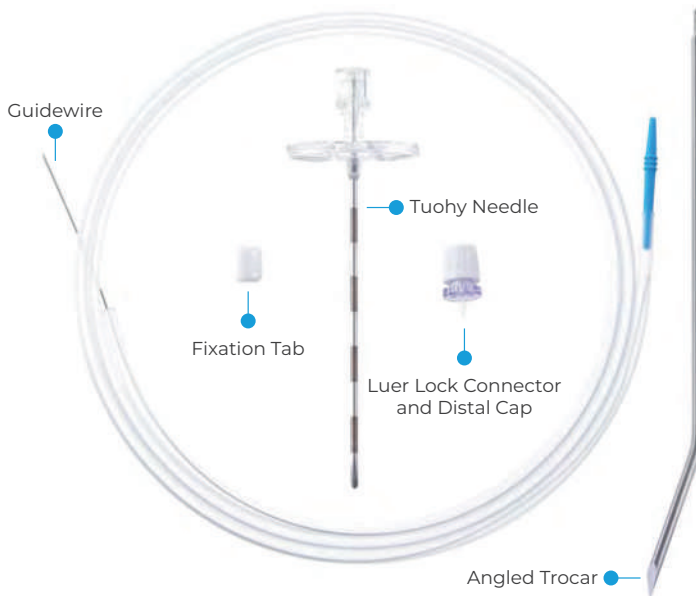
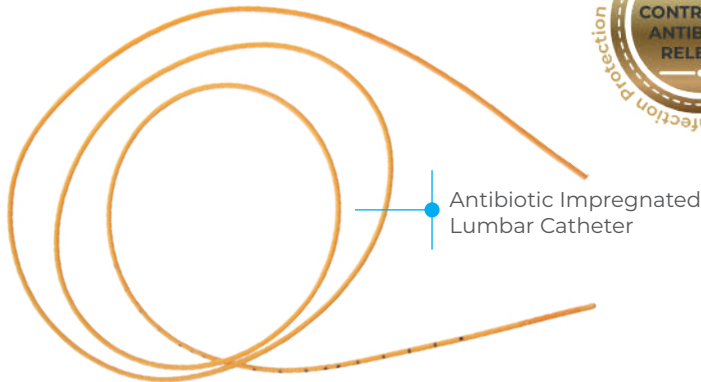
**Drainage System with;**

- 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
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LACK-ENDS-020

Advanced EVD set with Antibiotic Impregnated catheter



# External Lumbar Drainage System

## With Lumbar Catheter

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

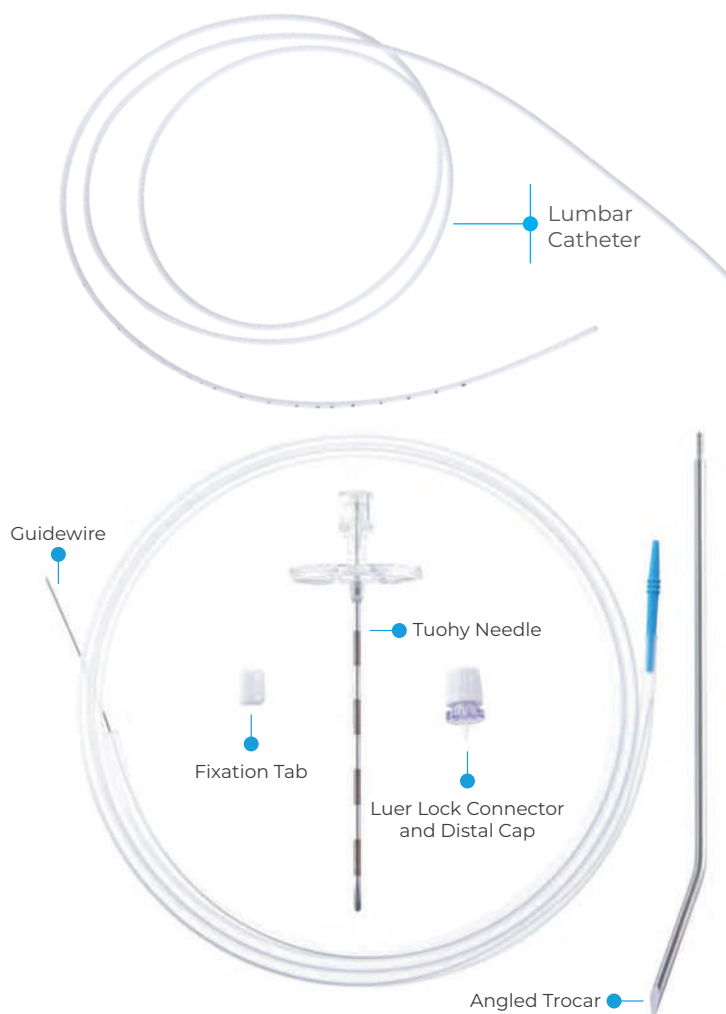
**Barium Impregnated Lumbar Catheter** (ID 0,8 mm, OD 1,6 mm, L 100 cm) **with;**

- 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.



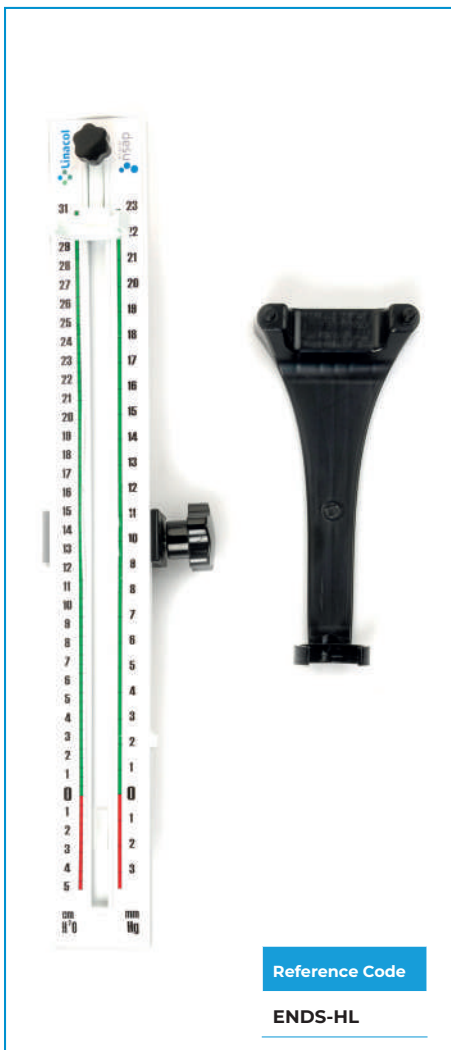
Reference Code

ENDS-020



Reference Code

ENDS-LASER



Reference Code

ENDS-HL

# 800 ml Air-Filtered Drainage Bag

Sterile, Reliable, and Available in Multiple Pack Options

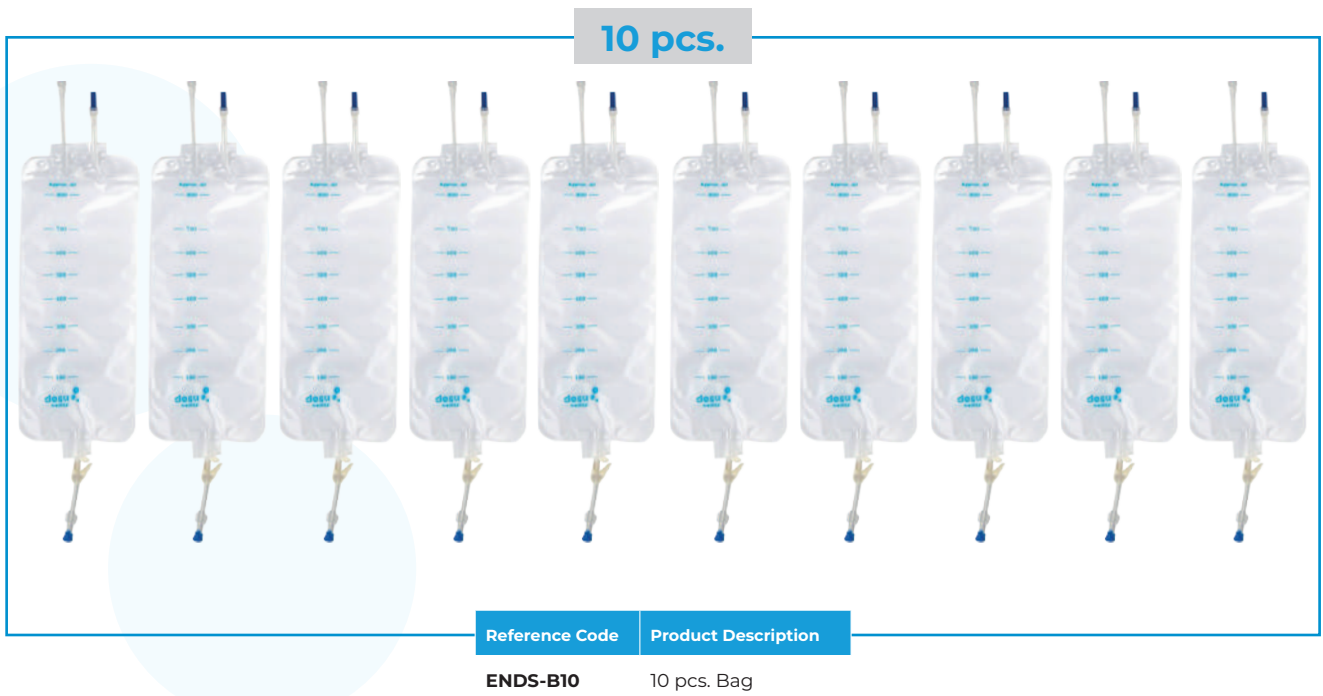
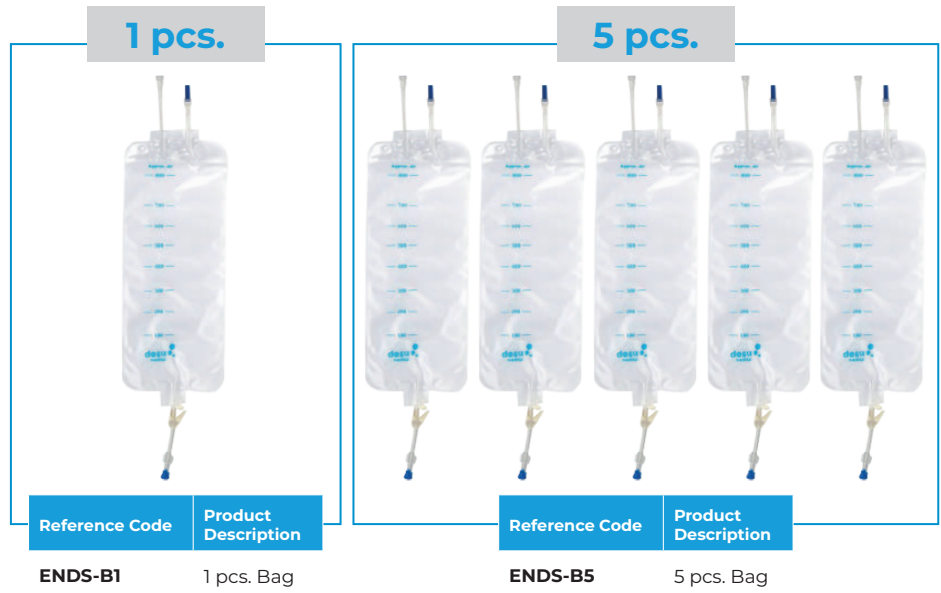
The **800 ml air-filtered drainage bag** is specifically designed for effective cerebrospinal fluid (CSF) drainage, featuring an integrated air filter to reduce the risk of infection. Its high-volume capacity and leak-proof construction make it ideal for extended drainage needs in clinical settings.

## 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

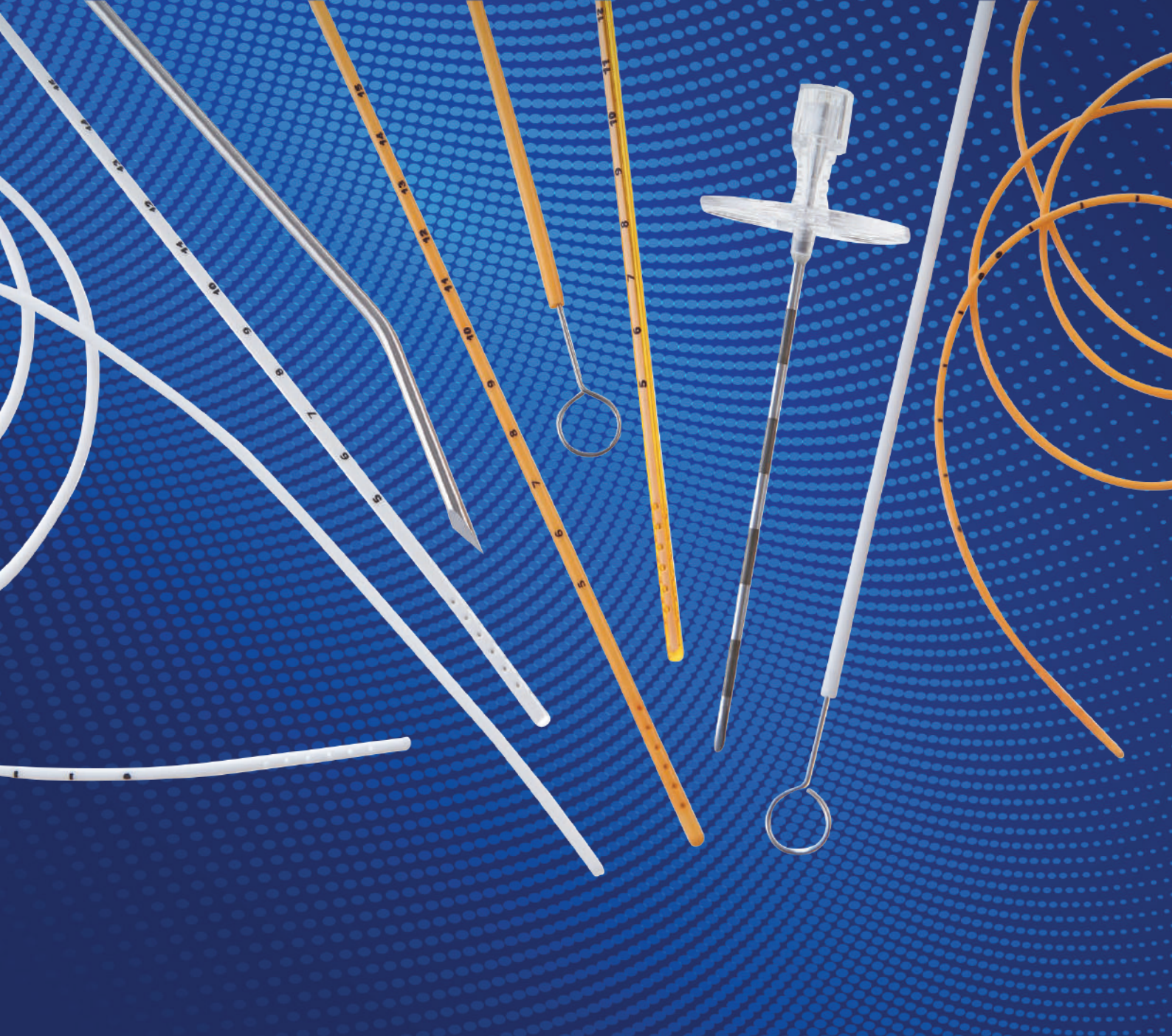


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Smart Solutions.  
Healthier Lives.  
**Precision.**  
**Protection.**  
**Desu.**

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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).



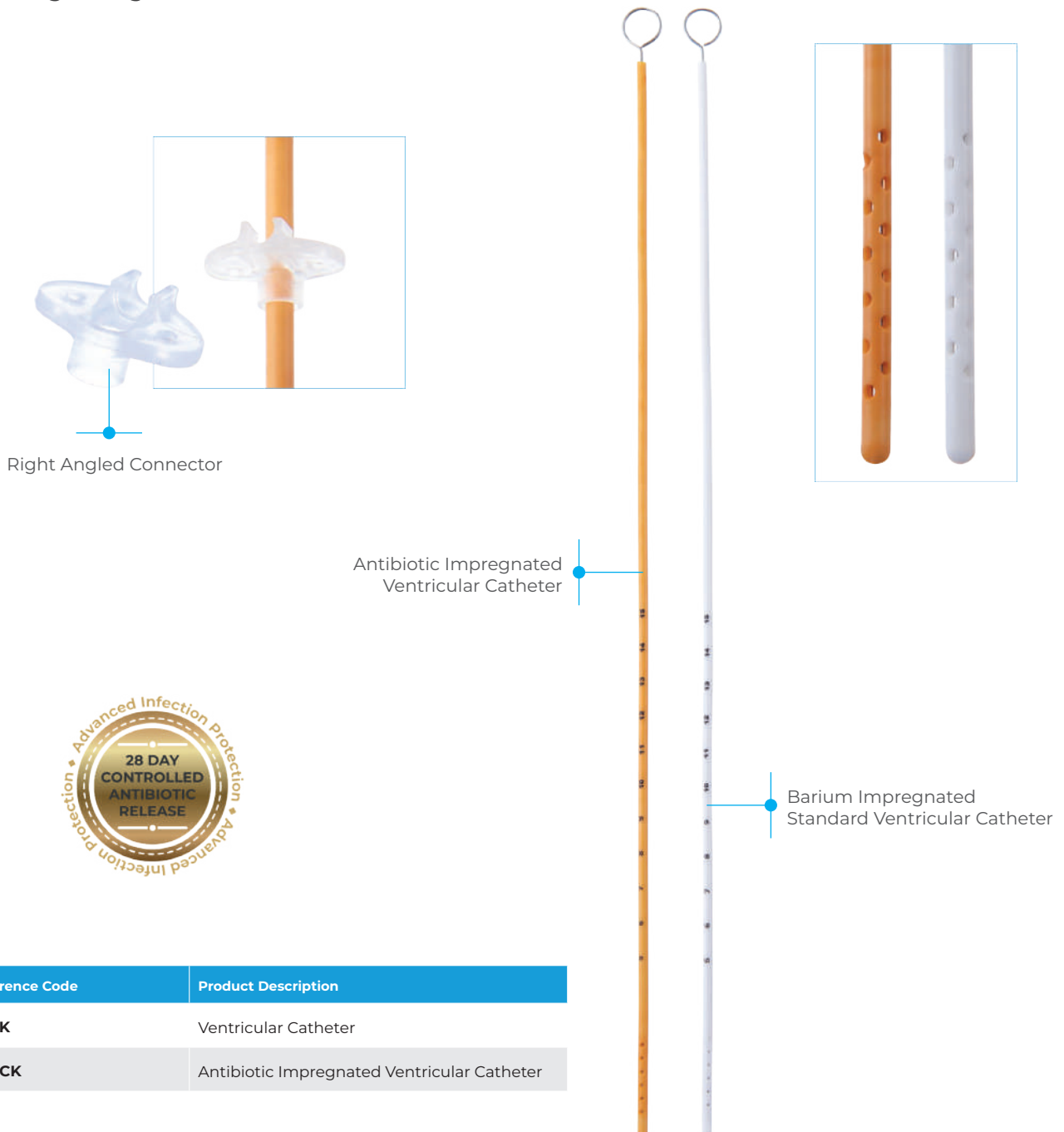
# Ventricular Catheter Kit

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	Antibiotic Impregnated Ventricular Catheter

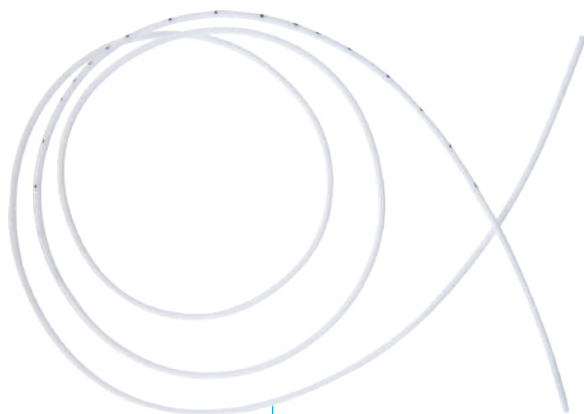
# Peritoneal Catheter Kit

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	Antibiotic Impregnated Peritoneal Catheter

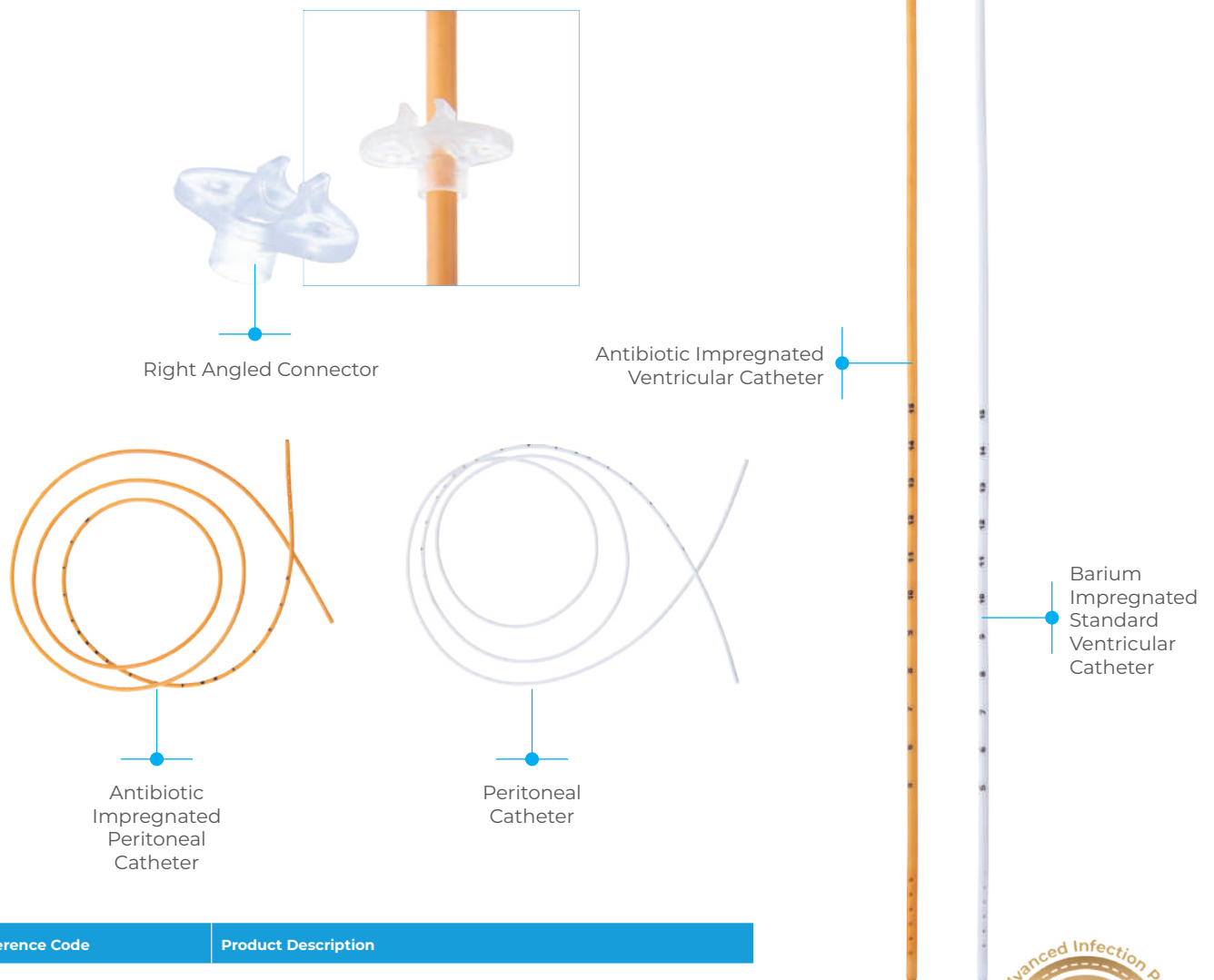
# Ventriculoperitoneal Catheter Kit

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
SVPCK	Ventriculoperitoneal Catheter
ASVPCK	Antibiotic Impregnated Ventriculoperitoneal Catheter

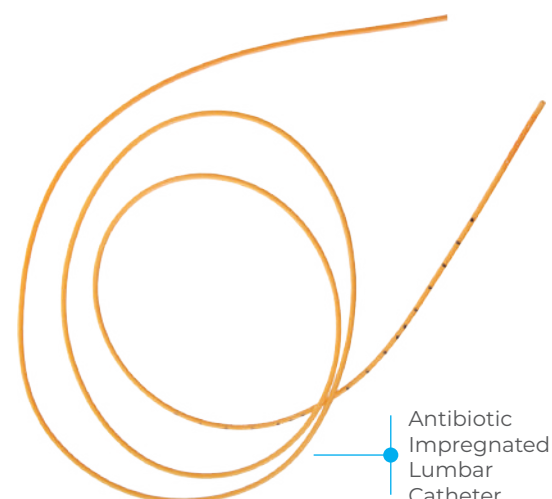
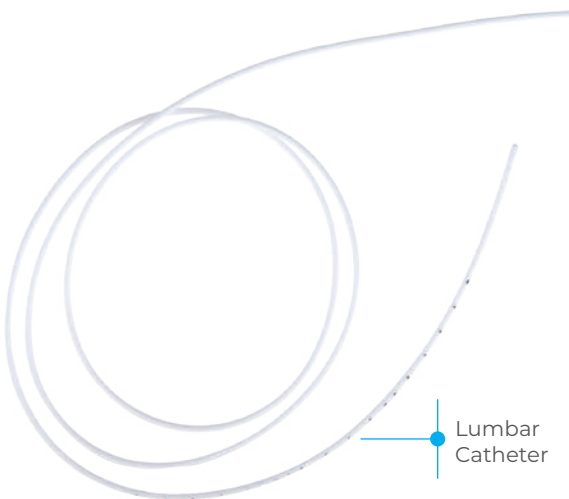
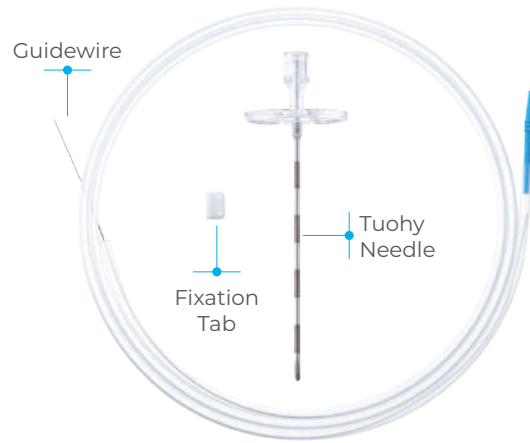
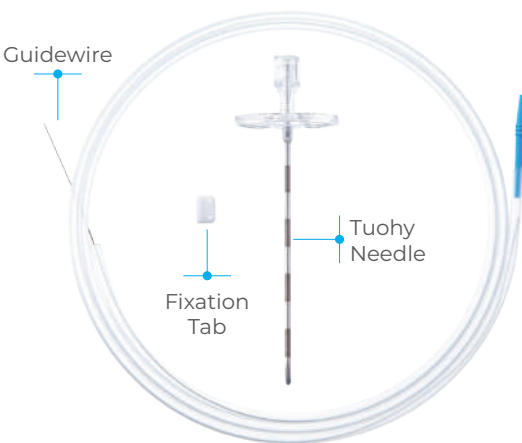


# Lumbar Catheter Kit

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**



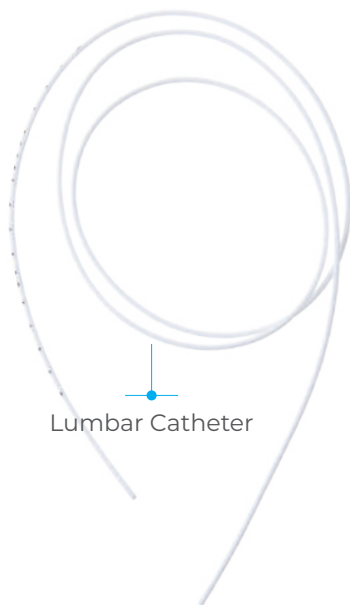
Reference Code	Product Description
LCK	Lumboperitoneal Catheter Kit
LACK	Antibiotic Impregnated Lumbaperitoneal Catheter (ID:0.8 OD:1.6 mm L:100 cm)

# Lumboperitoneal Catheter Kit

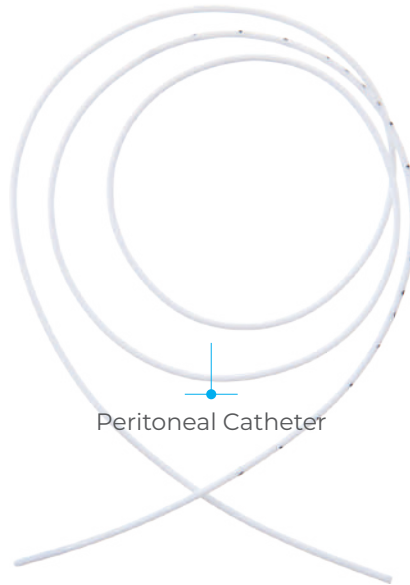
Lumboperitoneal Catheters are made of barium silicon material. Tantalum length markings are located on the Lumbar Catheter in each centimeter from the 5th centimeter of the catheter to 20th, on the Peritoneal Catheter in each centimeter from the 5th centimeter of the catheter to 20th. The 24 drainage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

**Lumboperitoneal Catheter Kit included with;**

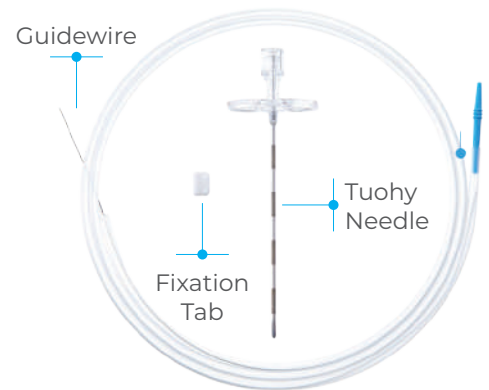
- **Lumbar Catheter:** (ID: 0.8 mm OD: 1.6 mm L: 100 cm)
- **Peritoneal Catheter:** (ID: 1.1 mm OD: 2.5 mm L: 120 cm)
- **14G Tuohy Needle**
- **Guidewire**



Lumbar Catheter



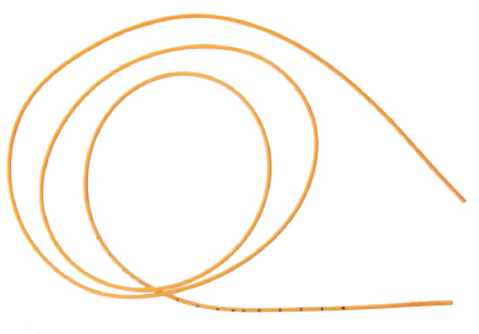
Peritoneal Catheter



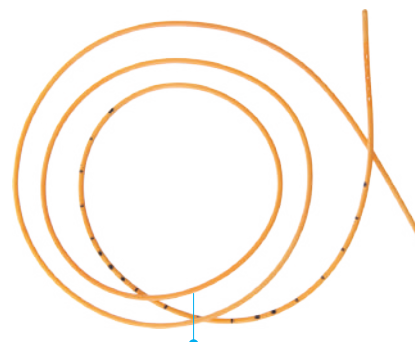
Guidewire

Fixation Tab

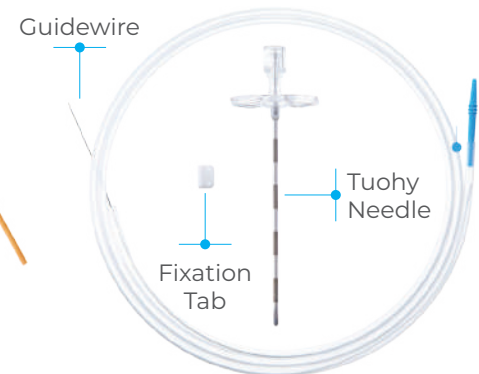
Tuohy Needle



Antibiotic Impregnated Lumbar Catheter



Antibiotic Impregnated Peritoneal Catheter



Guidewire

Fixation Tab

Tuohy Needle

Reference Code	Product Description
LPCK	Lumbar Catheter
LPACK	Antibiotic Impregnated 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.

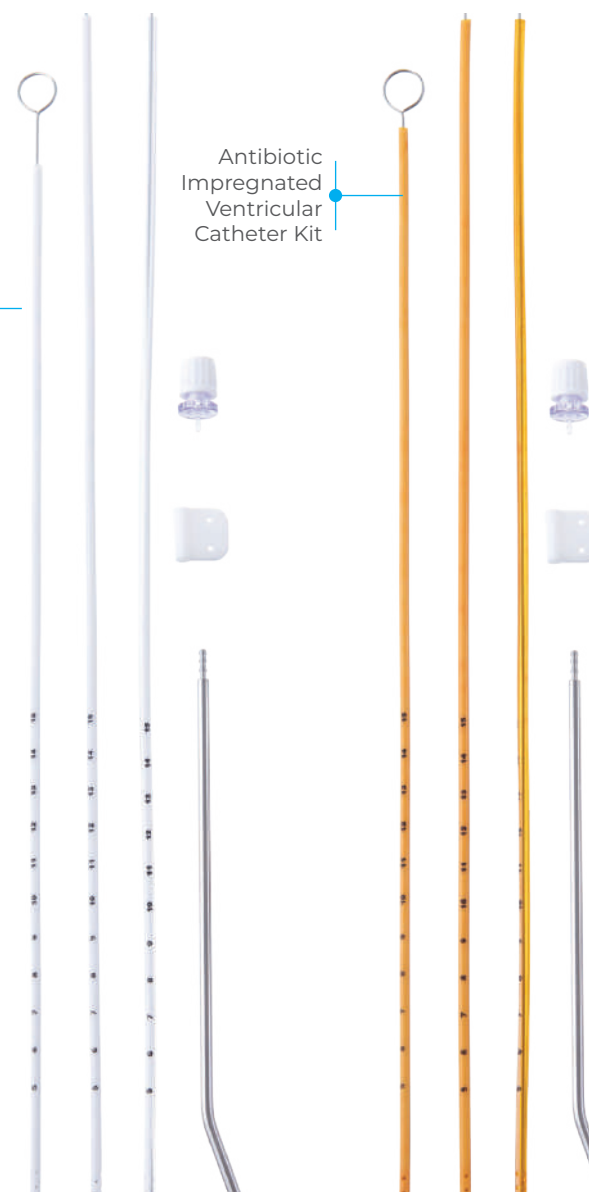
### Ventricular Catheter Kit included with;

- 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 Antibiotic Impregnated	31	1,5	3
External Ventricular Catheter Standard with Antibiotic Impregnated	35	1,5	3
External Ventricular Catheter Standard with Antibiotic Impregnated	35	1,9	3,4
External Ventricular Clear Catheter Standard with Antibiotic Impregnated	35	1,9	3,4

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



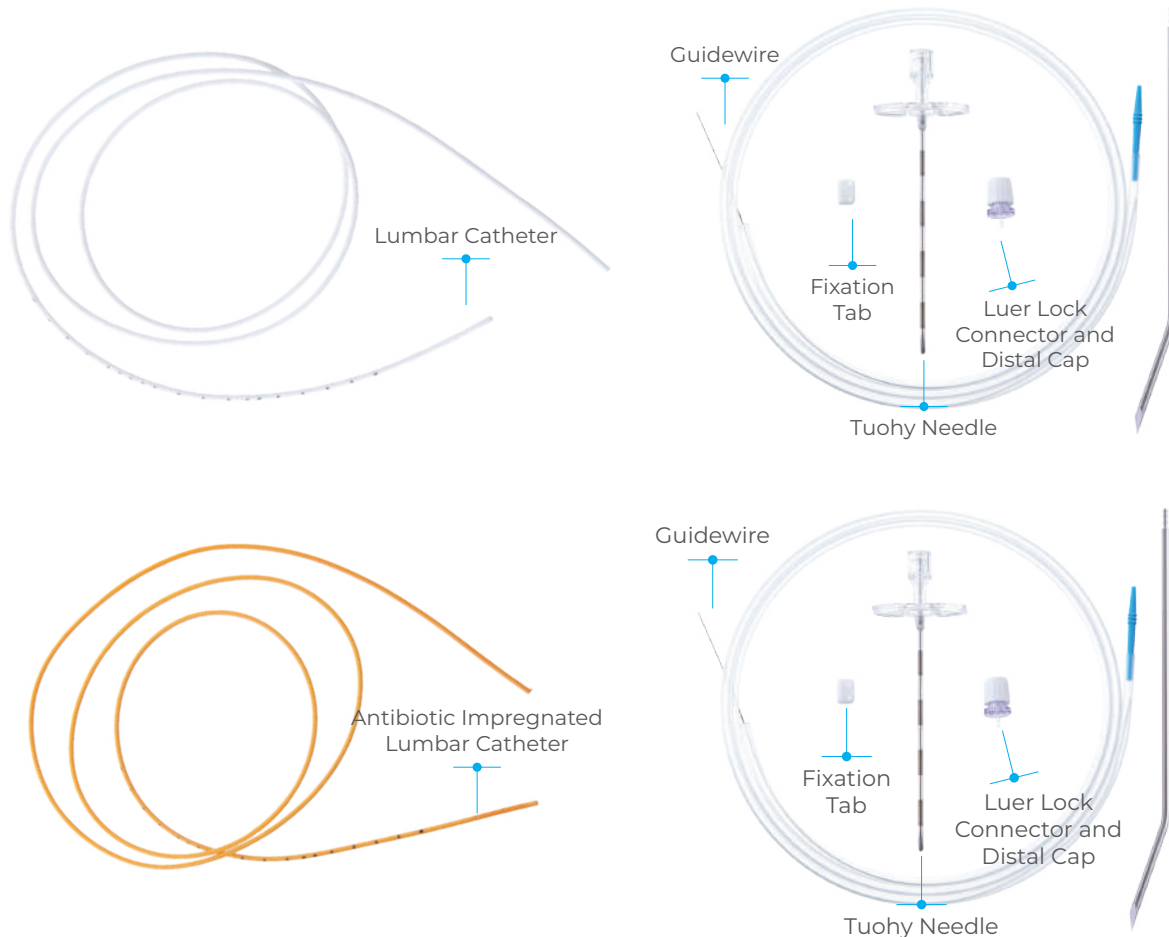
# Lumbar Catheter Kit

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
ELCK	External Lumbar Catheter
ELACK-1608800	Antibiotic Impregnated External Lumbar Catheter





# Neurosurgical Product Accessories



## Antisiphon Device

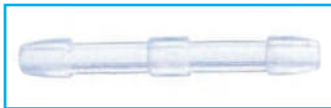
Antisiphon device is used to avoid from siphon effect that may occur when the peritoneal catheter turn to vertical position from horizontal during the drainage or shunting of the cerebrospinal fluid.

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

desu 

# 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



**DECOLL  
COLLAGEN  
DURA  
MEMBRANE**



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

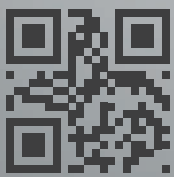


Designed in various dimensions and are available to use in different size dural and spinal defects.

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



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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 Barrier Membrane



# DEBONE

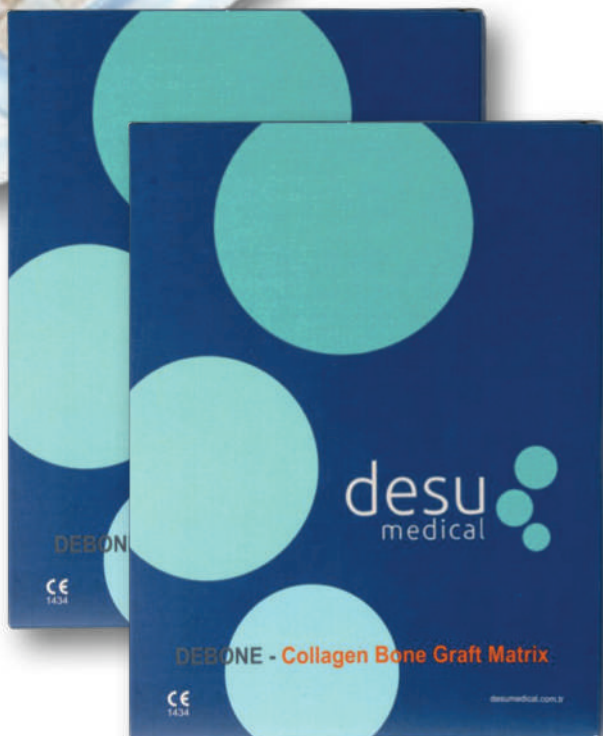
## Collagen Based Bone Graft

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 osteoinductive 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
<b>DBNG-5C-D04</b>	5cc / 6-7mm
<b>DBNG-10C-D04</b>	10cc / 6-7mm
<b>DBNG-20C-D04</b>	20cc / 6-7mm
<b>DBNG-35C-D04</b>	30cc / 6-7mm



# XENOBONE

## Bovine-Derived Collagen Graft

It is a B-TCP supplemented, bioabsorbable osteoconductive bone matrix consisting of Xenobone type-1 bovine collagen and containing more than 95% collagen. Thanks to the type-1 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 Barrier Membrane

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

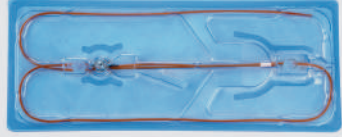
**COLL-OS  
COLLAGEN  
BARRIER  
MEMBRANE**



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

Reference Code	Product Description
<b>CLS12525</b>	Collagen Barrier Membrane 1.25x2.5 cm
<b>CLS152</b>	Collagen Barrier Membrane 1.5x2 cm
<b>CLS23</b>	Collagen Barrier Membrane 2x3 cm
<b>CLS2525</b>	Collagen Barrier Membrane 2.5x2.5 cm

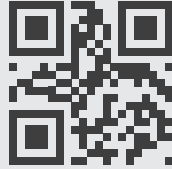
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06830 Ankara, Türkiye



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