

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.



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SHUNTS

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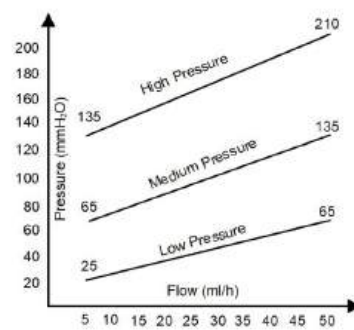
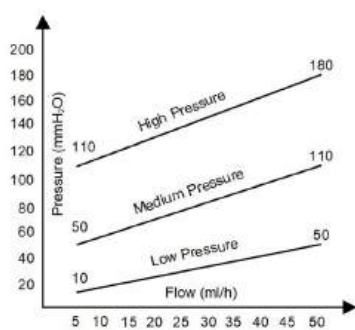
COLLAGEN BASED GRAFTS SOLUTIONS

Description

50	DEBONE Collagen Based Bone Grafts
51	XENOBONE Bovine-Derived Collagen Graft
52	COLL-OS Collagen Based Grafts
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.



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

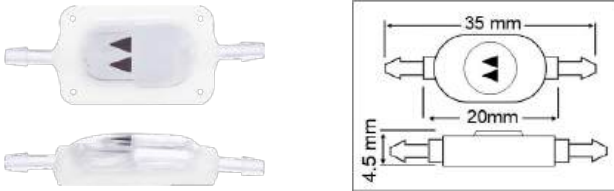
The mechanism inside the Polysulfone Shunts is triggered by positive ventricular pressure and the valve opens automatically. The ruby ball and titanium spring parts in the system are the main components of this system, which works with the hydrodynamic leverage method.

Defit Shunts

Silicone Flat-Bottom Shunts

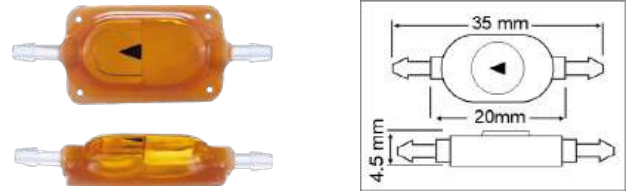
Ultra Small, Small and Regular sizes are available as valve and shunt kit.

Ultra Small Defit Shunt



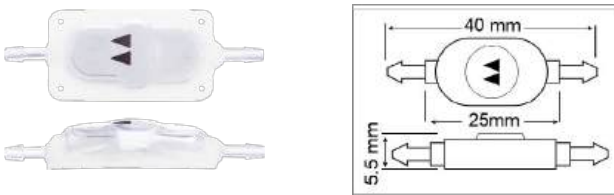
Reference Code	Pressure	Product Description
DFUS-L-PEB	L	Defit Ultra Small Silicone Shunt Low Pressure with Reinforced Base
DFUS-M-PEB	M	Defit Ultra Small Silicone Shunt Medium Pressure with Reinforced Base
DFUS-H-PEB	H	Defit Ultra Small Silicone Shunt High Pressure with Reinforced Base

Antibiotic Impregnated Ultra Small Defit Shunt



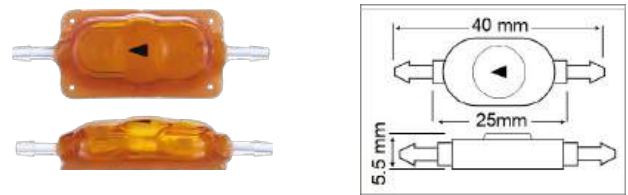
Reference Code	Pressure	Product Description
ADFUS-L-PEB	L	Antibiotic Impregnated Defit Ultra Small Silicone Shunt Low Pressure with Reinforced Base
ADFUS-M-PEB	M	Antibiotic Impregnated Defit Ultra Small Silicone Shunt Medium Pressure with Reinforced Base
ADFUS-H-PEB	H	Antibiotic Impregnated Defit Ultra Small Silicone Shunt High Pressure with Reinforced Base

Small Defit Shunt



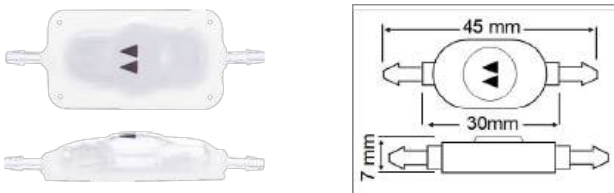
Reference Code	Pressure	Product Description
DFS-L-PEB	L	Defit Small Silicone Shunt Low Pressure with Reinforced Base
DFS-M-PEB	M	Defit Small Silicone Shunt Medium Pressure with Reinforced Base
DFS-H-PEB	H	Defit Small Silicone Shunt High Pressure with Reinforced Base

Antibiotic Impregnated Small Defit Shunt



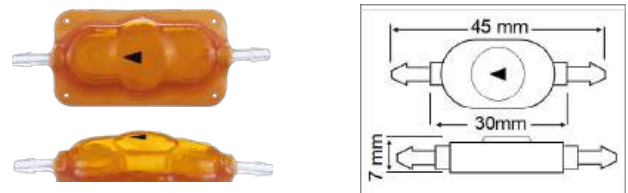
Reference Code	Pressure	Product Description
ADFS-L-PEB	L	Antibiotic Impregnated Defit Small Silicone Shunt Low Pressure with Reinforced Base
ADFS-M-PEB	M	Antibiotic Impregnated Defit Small Silicone Shunt Medium Pressure with Reinforced Base
ADFS-H-PEB	H	Antibiotic Impregnated Defit Small Silicone Shunt High Pressure with Reinforced Base

Regular Defit Shunt



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

Antibiotic Impregnated Regular Defit Shunt



Reference Code	Pressure	Product Description
ADFR-L-PEB	L	Antibiotic Impregnated Defit Regular Silicone Shunt Low Pressure with Reinforced Base
ADFR-M-PEB	M	Antibiotic Impregnated Defit Regular Silicone Shunt Medium Pressure with Reinforced Base
ADFR-H-PEB	H	Antibiotic Impregnated 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



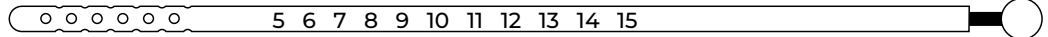
Defit Shunt



ASD (Optional)

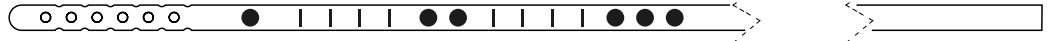
Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm

Ventricular Catheter



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

Peritoneal Catheter



Reference Code	Pressure	Product Description
DFUS-L-VCK-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



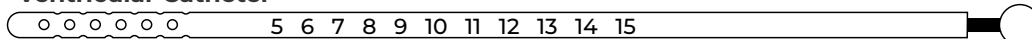
Defit Shunt



ASD (Optional)

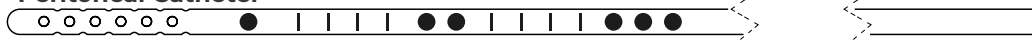
Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm

Ventricular Catheter



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

Peritoneal Catheter



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



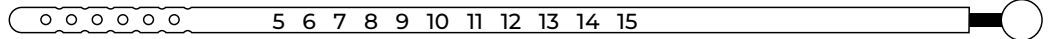
Antibiotic
Impregnated
Defit Shunt



ASD (Optional)

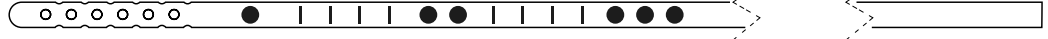
Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm

Ventricular Catheter



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

Peritoneal Catheter



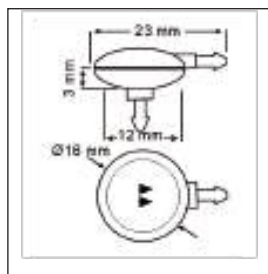
Reference Code	Pressure	Product Description
ADFR-L-VACK-PEB	L	Defit Regular Silicone Shunt Low Pressure with Antibiotic Impregnated Ventriculoperitoneal Catheter Kit
ADFR-L-VACK-PEB-ASD		Defit Regular Silicone Shunt Low Pressure with Antibiotic Impregnated Ventriculoperitoneal Catheter Kit and Antisiphon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

Decurve Shunts

Silicone Burr-Hole Shunts

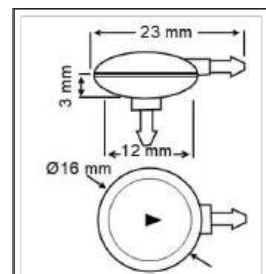
Pediatric and Adult sizes are available as valve and shunt kit.

Pediatric Decurve Shunt



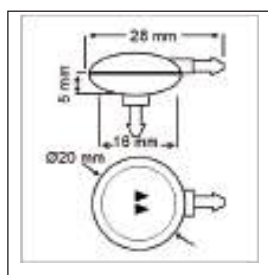
Reference Code	Pressure	Product Description
DCP-L	L	Decurve Pediatric Silicone Shunt Low Pressure
DCP-M	M	Decurve Pediatric Silicone Shunt Medium Pressure
DCP-H	H	Decurve Pediatric Silicone Shunt High Pressure

Antibiotic Impregnated Pediatric Decurve Shunt



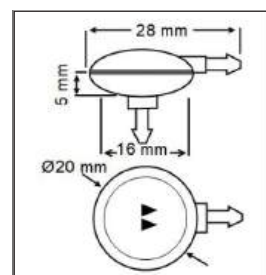
Reference Code	Pressure	Product Description
ADCP-L	L	Antibiotic Impregnated Decurve Pediatric Silicone Shunt Low Pressure
ADCP-M	M	Antibiotic Impregnated Decurve Pediatric Silicone Shunt Medium Pressure
ADCP-H	H	Antibiotic Impregnated Decurve Pediatric Silicone Shunt High Pressure

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



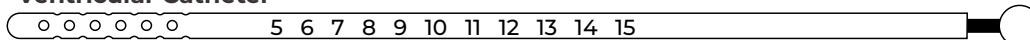
Decurve Shunt



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 Antisiphon Device
DCP-L-VACK-ASD		Decurve Pediatric Silicone Shunt Low Pressure with Antibiotic Impregnated 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 Antibiotic Impregnated 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 Antibiotic Impregnated 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 Antibiotic Impregnated 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 Antibiotic Impregnated 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



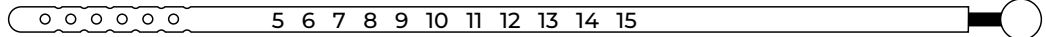
Decurve Shunt



ASD (Optional)

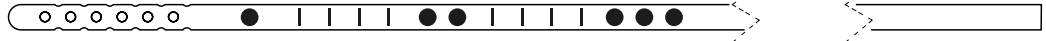
Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm

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



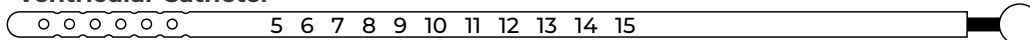
Antibiotic
Impregnated
Decurve Shunt



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 Antisiphon 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 Antisiphon 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 Antisiphon 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 Antisiphon 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 Antisiphon 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 Antisiphon Device

Depus Shunts

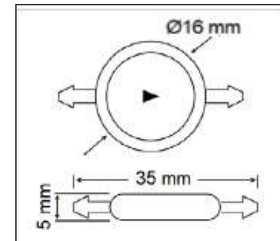
The mechanism inside the shunt is triggered by positive ventricular pressure and the valve opens automatically. The ruby ball and titanium spring parts in the system are the main components of this system, which works with the hydrodynamic leverage method.



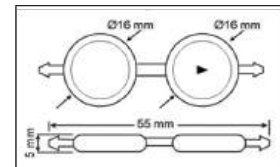
Depus Shunt



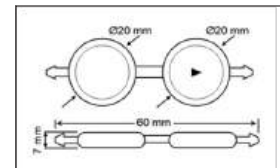
Adjustable Depus Shunt



Depus Shunt with Flat-Bottom Reservoir

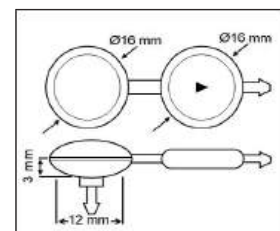


Pediatric

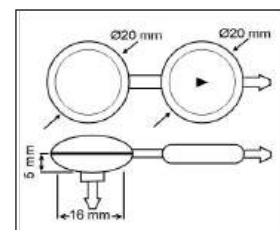


Adult

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



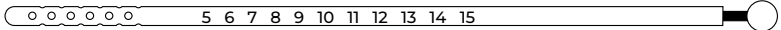
Depus Valve



ASD (Optional)

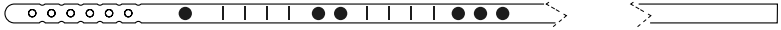
Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm

Ventricular Catheter



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

Peritoneal Catheter



Reference Code	Pressure	Product Description
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



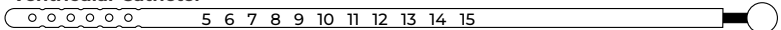
Depus Valve



ASD (Optional)

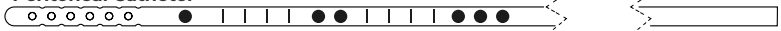
Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm

Ventricular Catheter



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

Peritoneal Catheter



Reference Code	Pressure	Product Description
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 Antisiphon 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 Antisiphon 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 Antisiphon Device

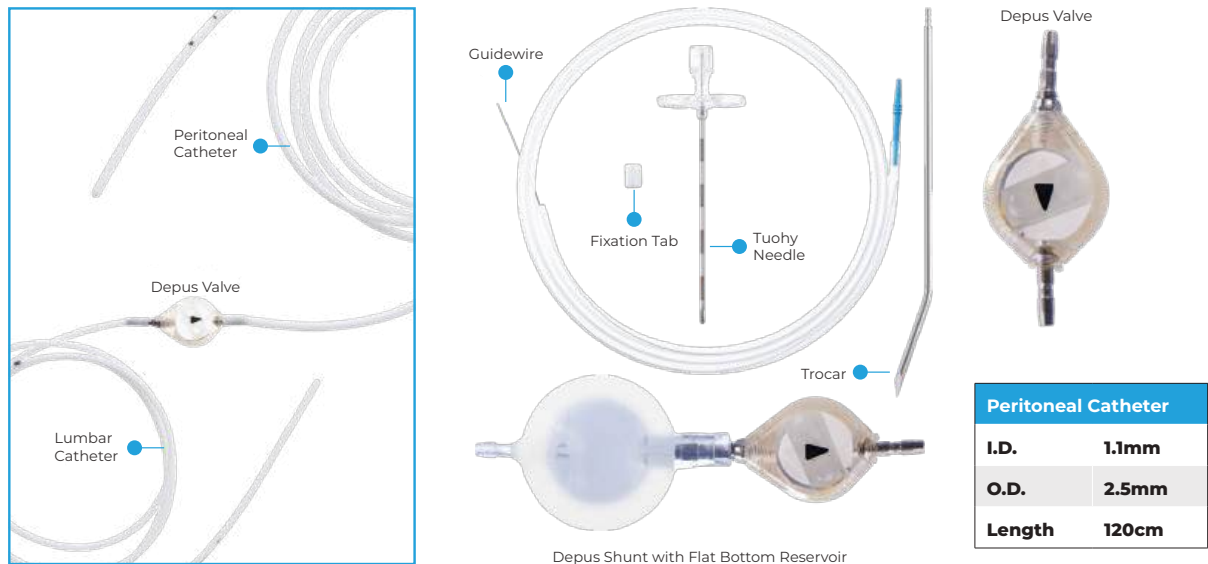
Depus Shunts

Lumboperitoneal Shunt Kits

The valve size is suitable to use in both pediatric and adult patients.

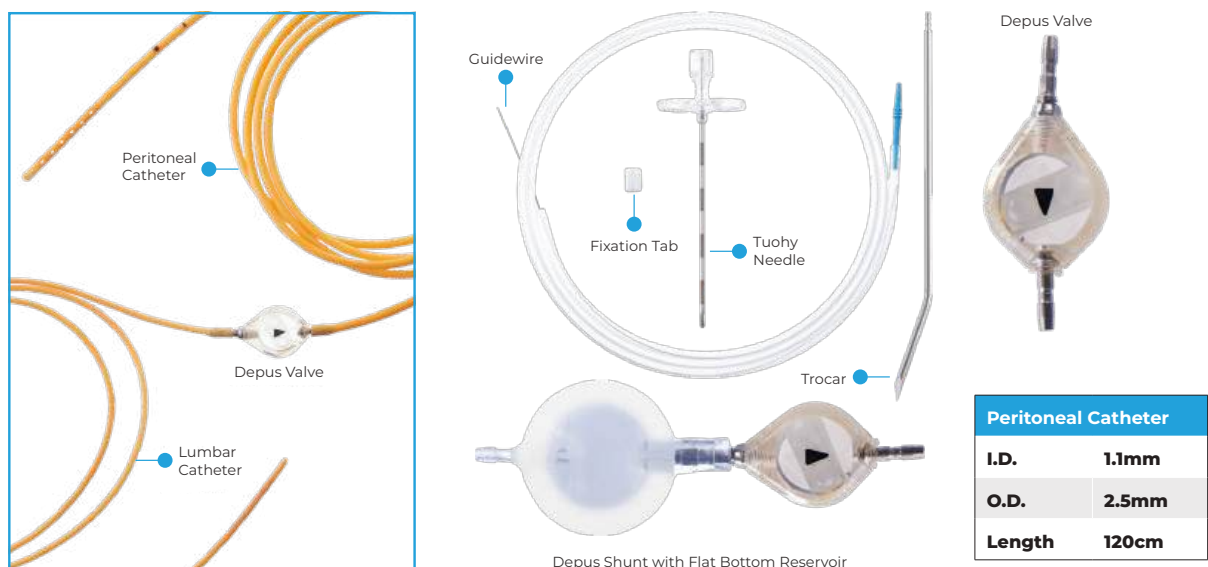
Depus Shunt Kit included with; Depus Valve, Lumbar Catheter, Peritoneal Catheter, 14 G Tuohy Needle, 0,018" Guidewire, ASD (Optional), Reservoir (Optional).

Standard Depus Shunt Kit



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



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
DP-A	DEPUS Adjustable Pediatric Shunt
ADP-A	DEPUS Adjustable Pediatric Shunt with Antibiotic Impregnated Body
DP-A-VCK	DEPUS Adjustable Pediatric Shunt with Ventriculoperitoneal Catheter Kit
DP-A-VACK	DEPUS Adjustable Pediatric Shunt with Antibiotic Impregnated Ventriculoperitoneal Catheter Kit
ADP-A-VCK	Antibiotic Impregnated Body DEPUS Adjustable Pediatric Shunt with Ventriculoperitoneal Catheter Kit
ADP-A-VACK	Antibiotic Impregnated Body DEPUS Adjustable Pediatric Shunt with Antibiotic Impregnated Ventriculoperitoneal Catheter Kit
DP-A-VCK-ASD	DEPUS Adjustable Pediatric Shunt, Ventriculoperitoneal Catheter Kit with Antisiphon Device
DP-A-VACK-ASD	DEPUS Adjustable Pediatric Shunt, Antibiotic Impregnated Ventriculoperitoneal Catheter Kit with Antisiphon Device
ADP-A-VCK-ASD	Antibiotic Impregnated Body DEPUS Adjustable Pediatric Shunt with Ventriculoperitoneal Catheter Kit and Antisiphon Device
ADP-A-VACK-ASD	Antibiotic Impregnated Body DEPUS Adjustable Pediatric Shunt, Antibiotic Impregnated Ventriculoperitoneal Catheter Kit with Antisiphon Device

Standard Depus Shunt Kit



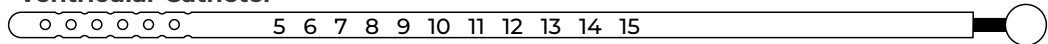
Adjustable Depus Valve



ASD (Optional)

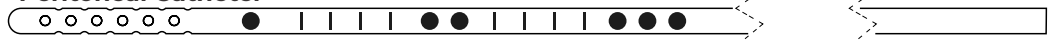
Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm

Ventricular Catheter



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

Peritoneal Catheter



Semi Antibiotic Depus Shunt Kit



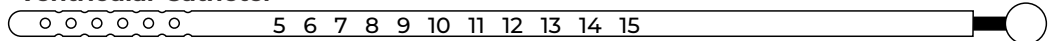
Adjustable Depus Valve



ASD (Optional)

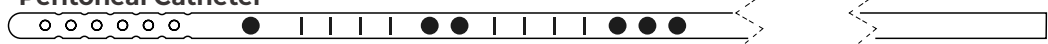
Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm

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



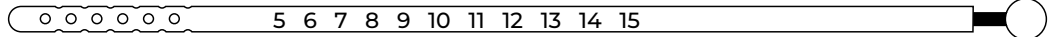
Adjustable Depus Valve



ASD (Optional)

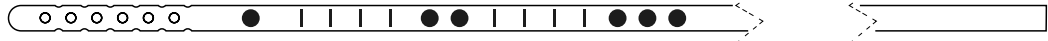
Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm

Ventricular Catheter



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

Peritoneal Catheter



Semi Antibiotic Depus Shunt Kit



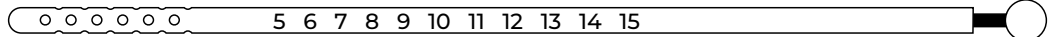
Adjustable Depus Valve



ASD (Optional)

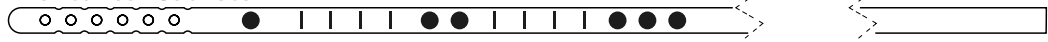
Ventricular Catheter	
I.D.	1.3mm
O.D.	2.5mm
Length	23cm

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

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





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.

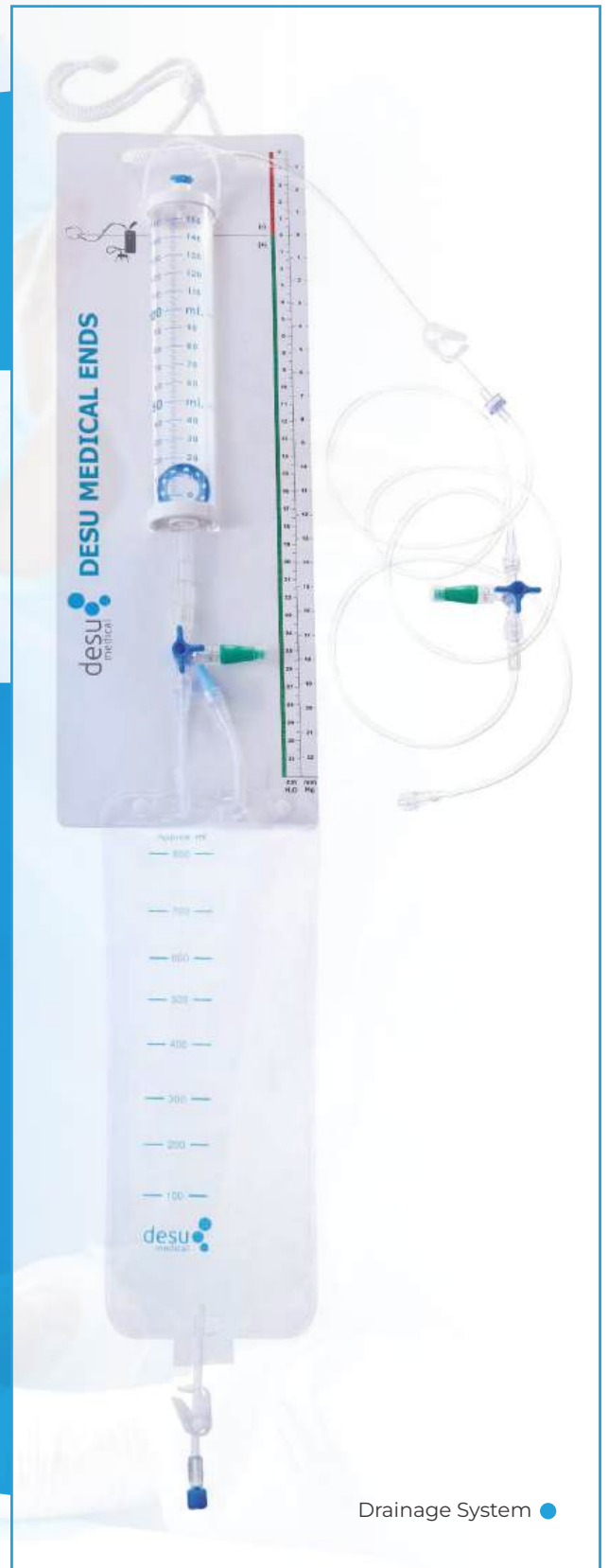
30 cm Measurement Rod enables precise adjustment of CSF pressure (mmHg/cmH₂O).

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 cmH₂O).

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.

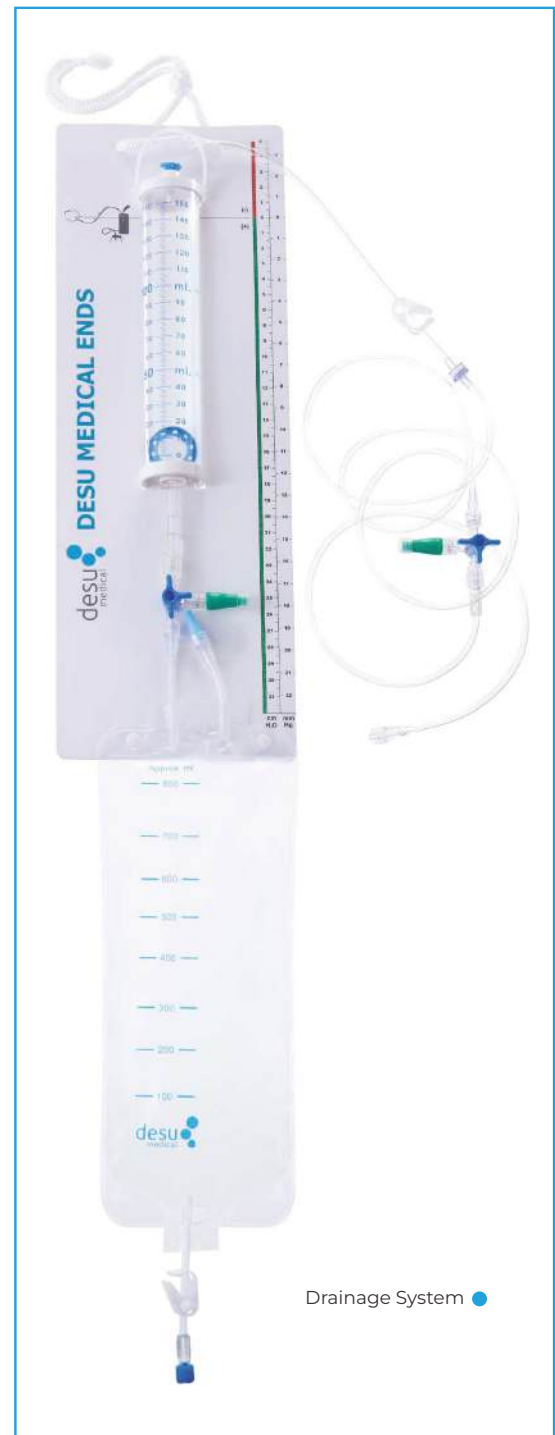
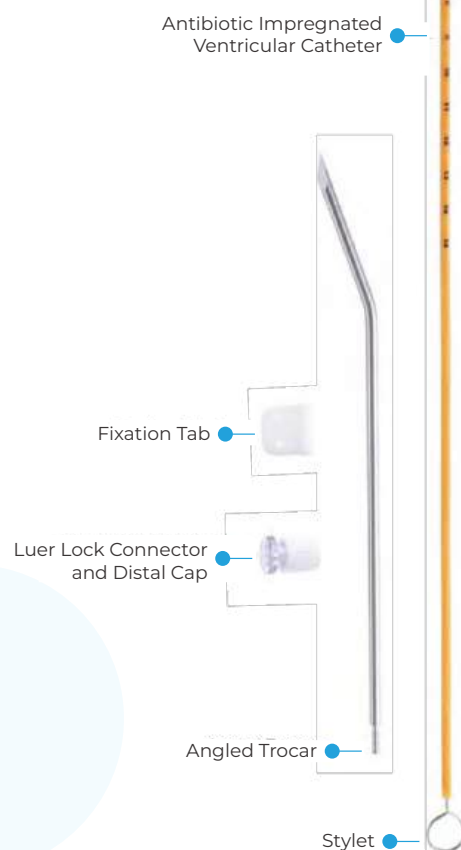
Antibiotic Impregnated Ventricular Catheter (ID 1,5 mm, OD 3,0 mm, L 31 cm) **with;**

- 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 / cmH₂O)
- 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



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 / cmH₂O)
- 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

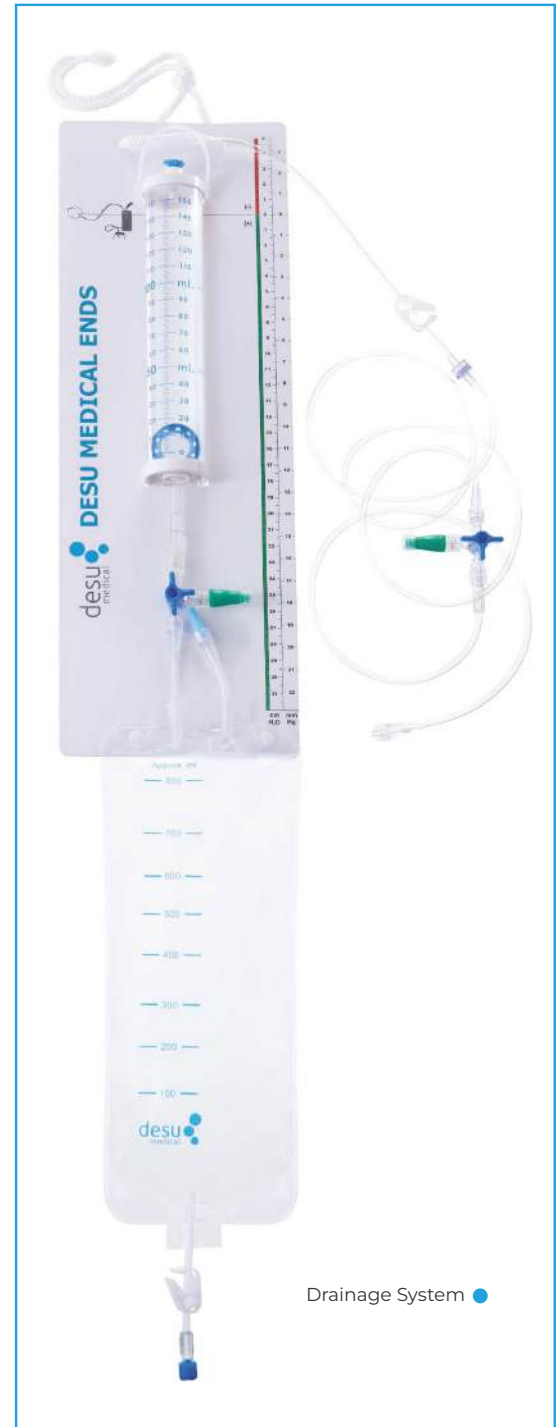
Fixation Tab

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;

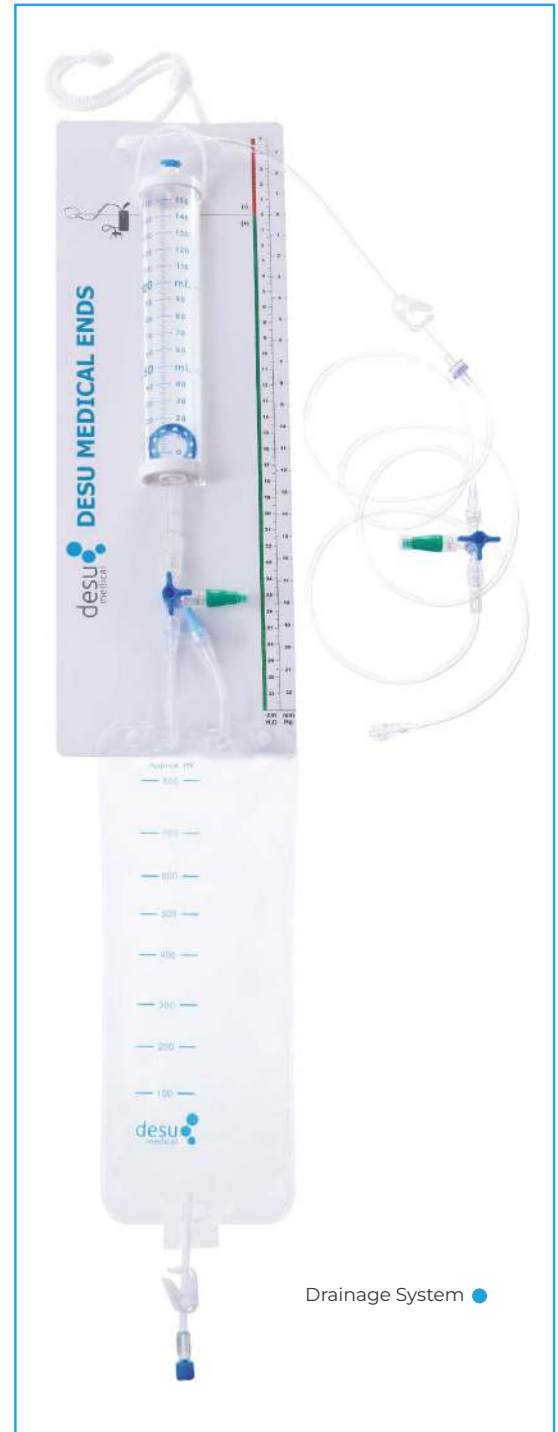
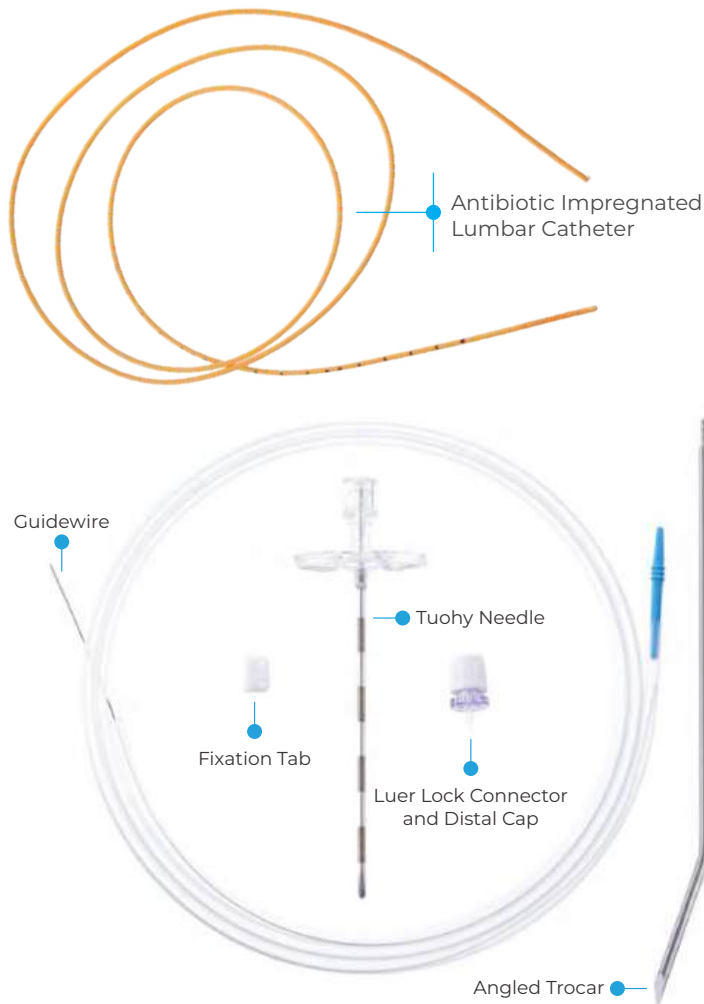
Antibiotic Impregnated Lumbar Catheter (ID 0,8 mm, OD 1,6 mm, L 80 cm) **with;**

- 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 / cmH₂O)
- 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;

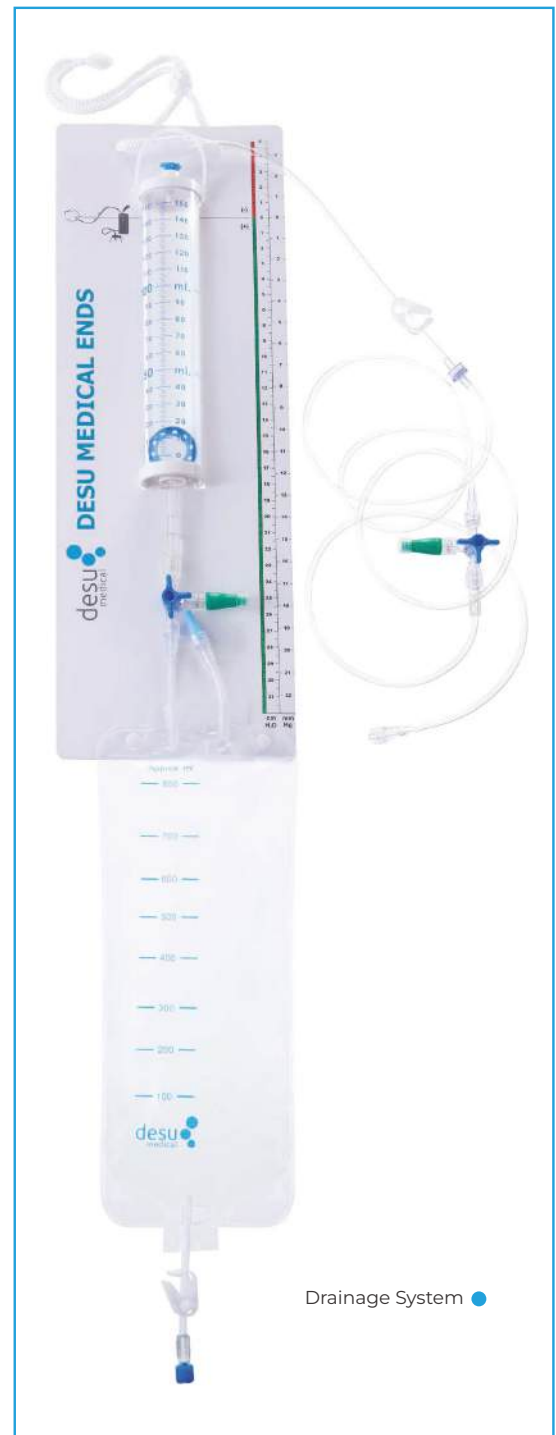
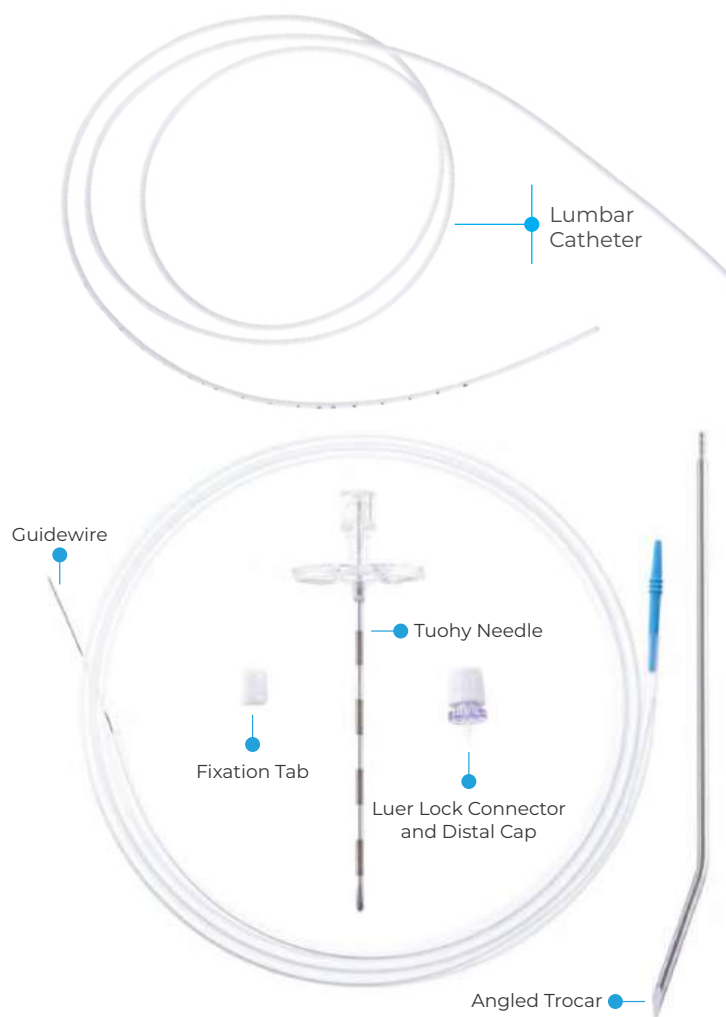
Barium Impregnated Lumbar Catheter (ID 0,8 mm, OD 1,6 mm, L 80 cm) **with;**

- 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 / cmH₂O)
- 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 / cmH₂O)
- 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 / cmH₂O)
- 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



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.

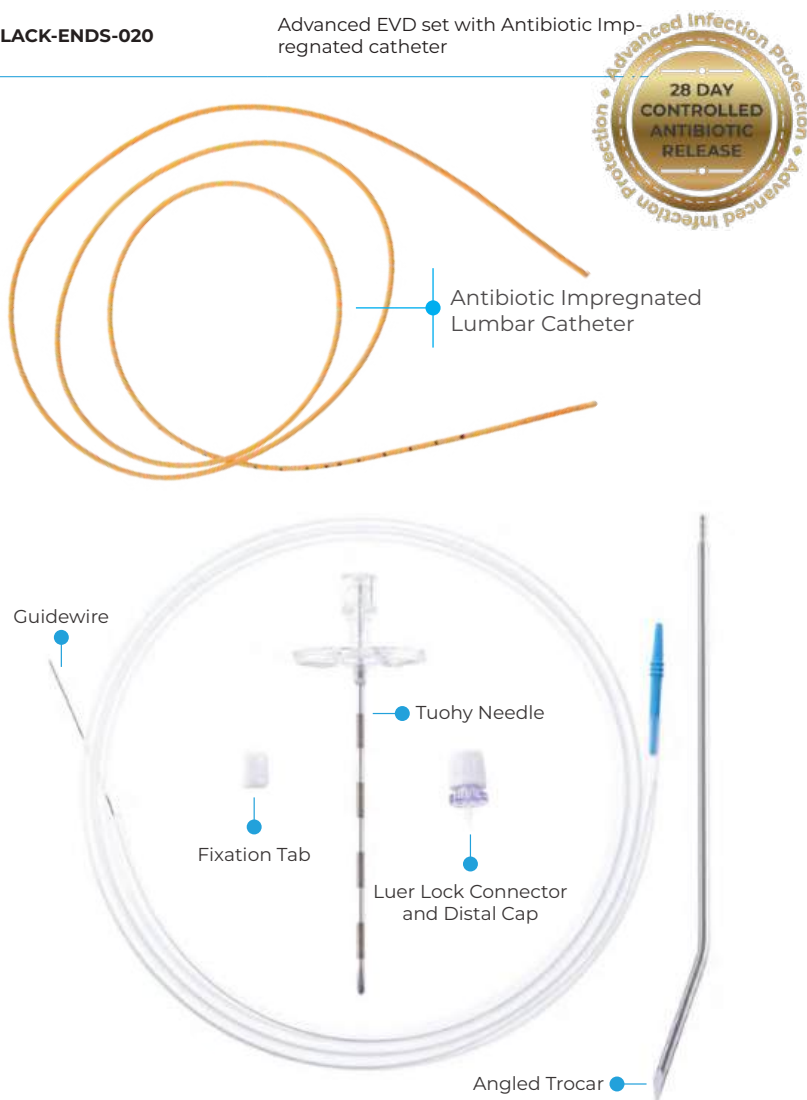
Antibiotic Impregnated Lumbar Catheter (ID 0,8 mm, OD 1,6 mm, L 31 cm) **with;**

- 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 / cmH₂O)
- 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 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

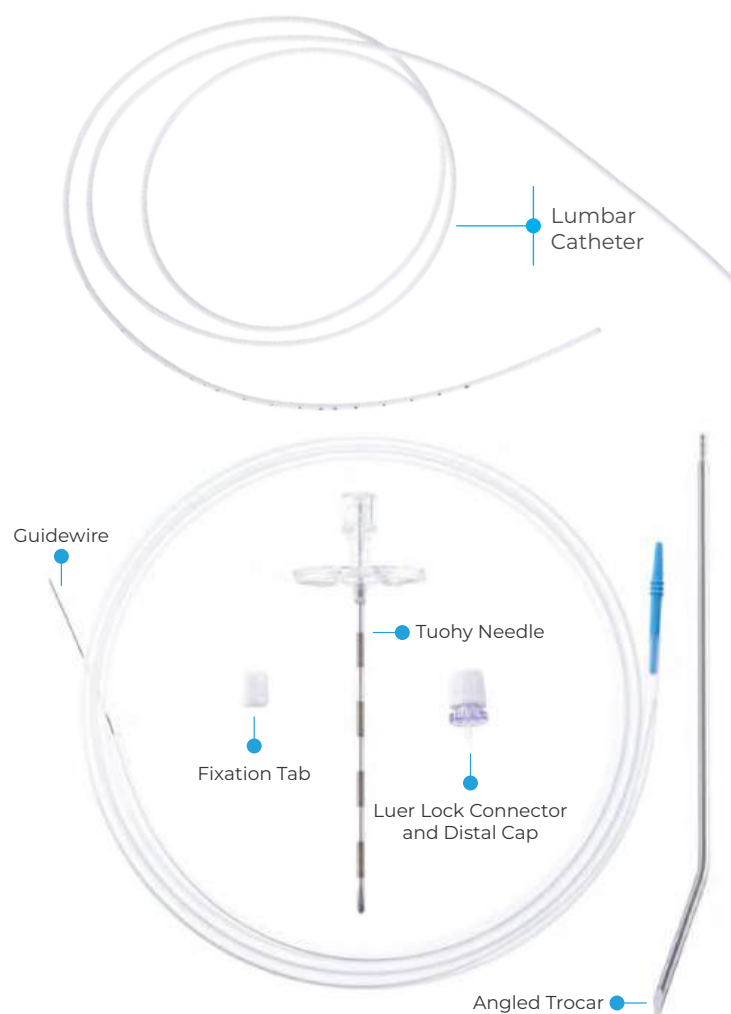
Drainage System with;

- 60 cm Reinforced Cord with Locking Mechanism
- 30 cm Measuring Chart to adjust the CSF pressure (mmHg / cmH₂O)
- 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
ENDS-B1	1 pcs. Bag

5 pcs.



Reference Code	Product Description
ENDS-B5	5 pcs. Bag

10 pcs.



Reference Code	Product Description
ENDS-B10	10 pcs. Bag



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

www.desu.tr





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**



Right Angled Connector

Antibiotic Impregnated Ventricular Catheter



Barium Impregnated Standard Ventricular Catheter

Reference Code	Product Description
SVCK	Ventricular Catheter
ASVCK	Antibiotic Impregnated Ventricular Catheter

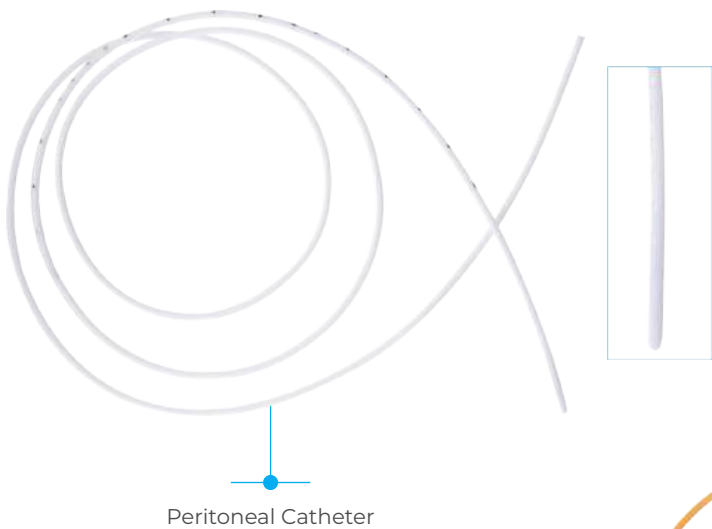
Peritoneal Catheter Kit

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.

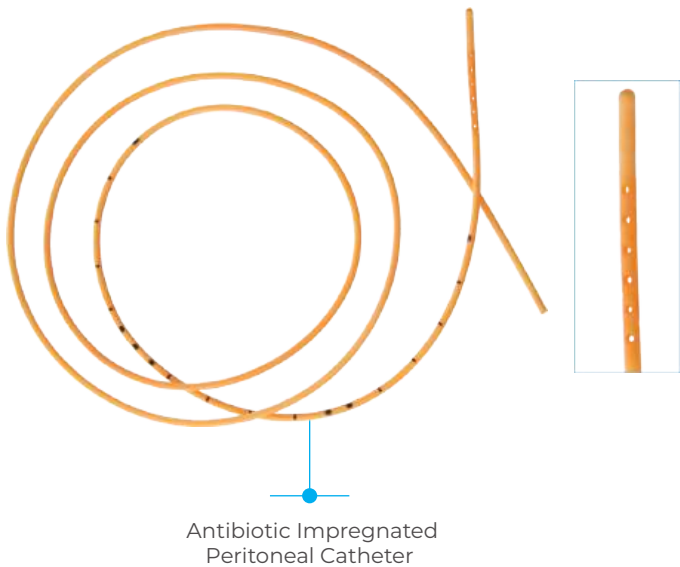
Peritoneal Catheters are also available with an antibiotic-impregnated option. Clindamycin HCl and Rifampicin, which are impregnated on the catheters, are released in a controlled manner for 28 days.

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

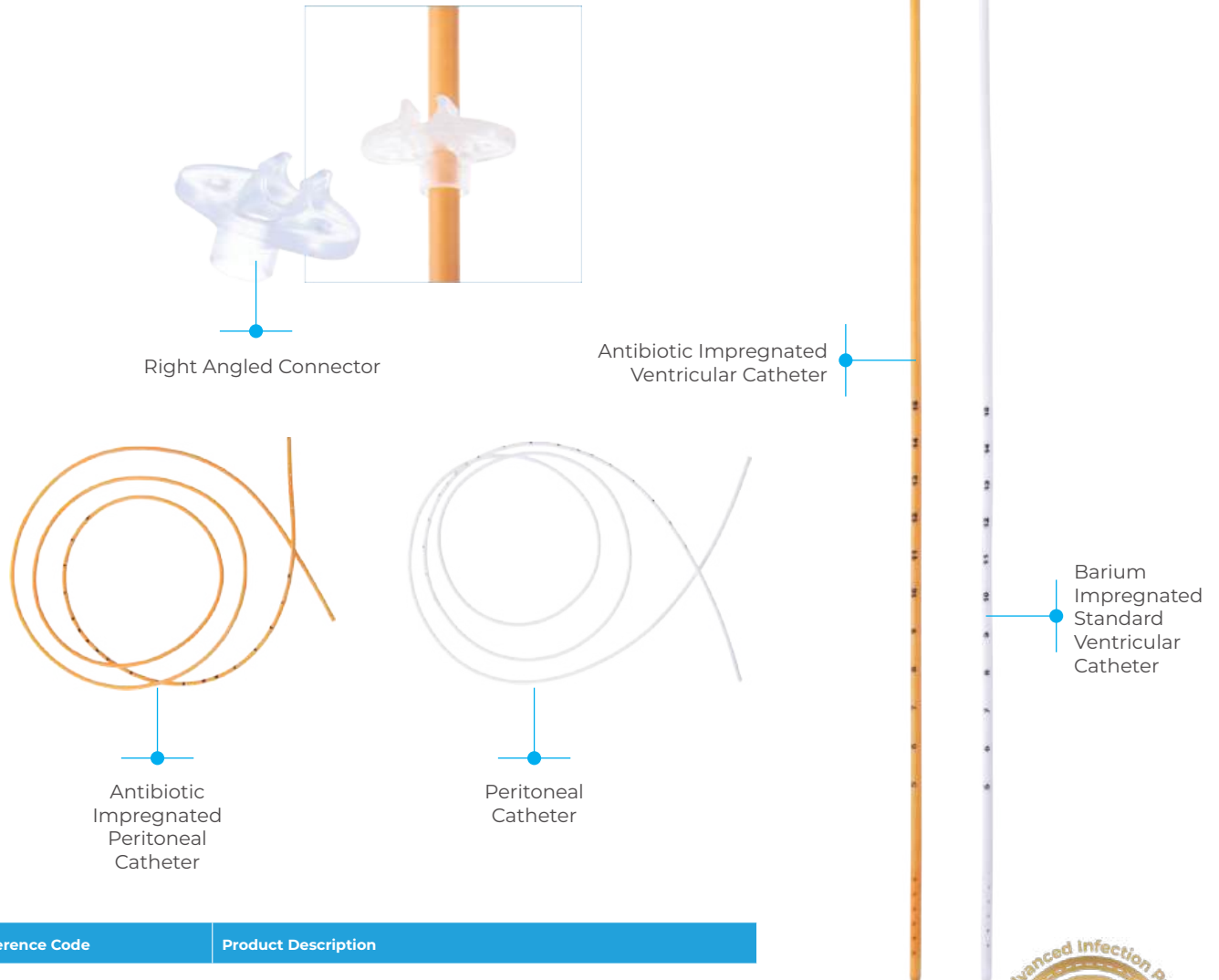
Ventriculoperitoneal Catheter Kit

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
SVPCCK	Ventriculoperitoneal Catheter
ASVPCK	Antibiotic Impregnated Ventriculoperitoneal Catheter

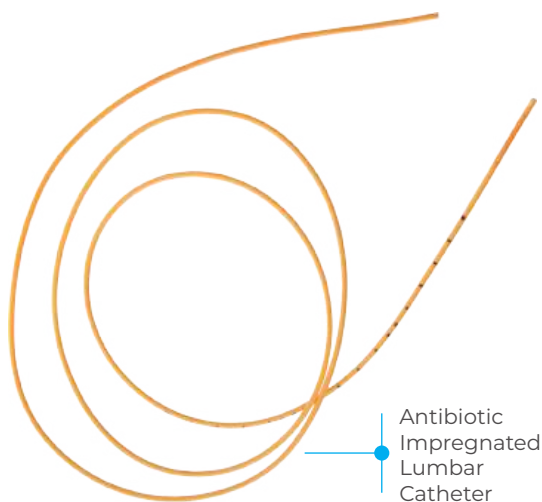
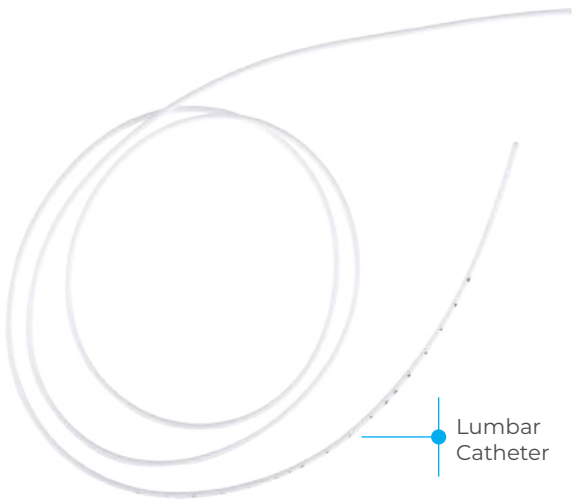
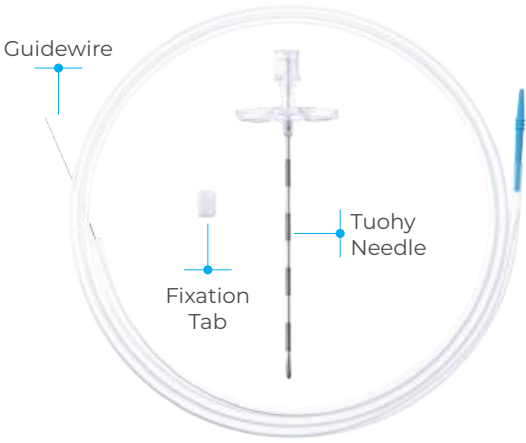
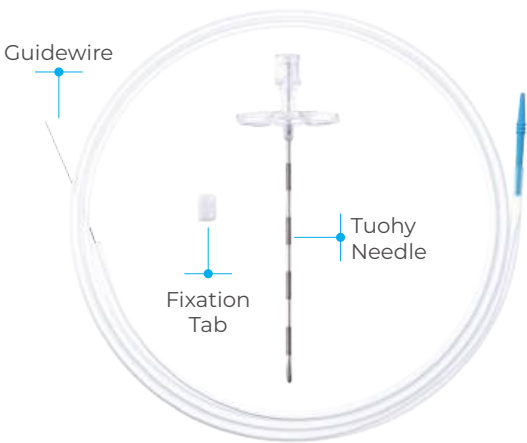


Lumbar Catheter Kit

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**



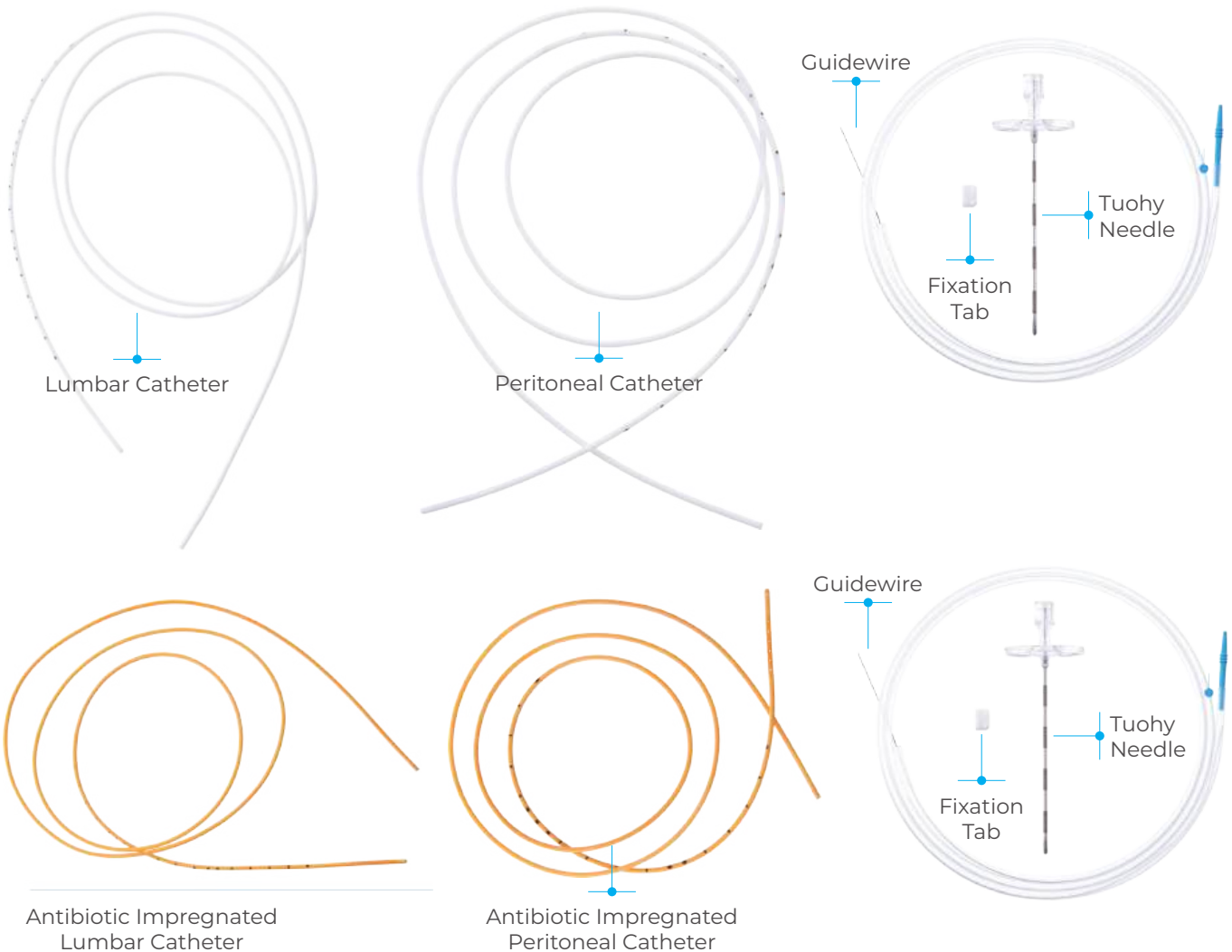
Reference Code	Product Description
LCK	Lumboperitoneal Catheter Kit
LACK	Antibiotic Impregnated Lumbaperitoneal Catheter (ID:0.8 OD:1.6 mm L:100 cm)

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**



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
EVDCK-1530310	External Ventricular Drainage Catheter (ID:1.5 OD:3.0 mm L:31 cm)
EVDACK-1530310	Antibiotic Impregnated External Ventricular Drainage Catheter (ID:1.5 OD:3.0 mm L:31 cm)
EVDACK-1530350	Antibiotic Impregnated External Ventricular Drainage Catheter (ID:1.5 OD:3.0 mm L:35 cm)
EVDACKS-1934350	Antibiotic Impregnated External Ventricular Drainage Catheter (ID:1.9 OD:3.4 mm L:35 cm)
EVDCACK-1934350	Antibiotic Impregnated External Ventricular Drainage Catheter (ID:1.9 OD:3.4 mm L:35 cm)



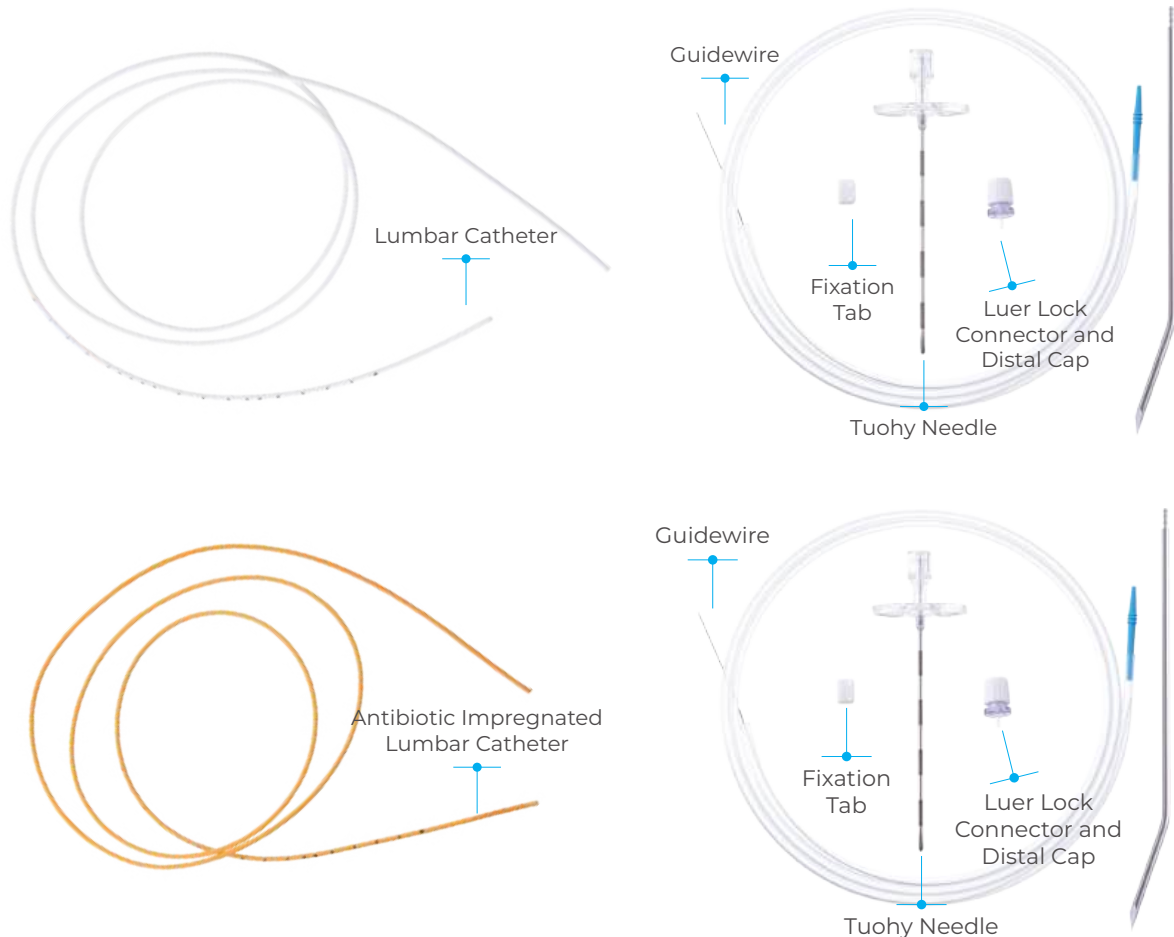
Lumbar Catheter Kit

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





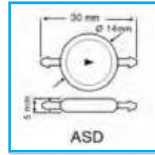
Neurosurgical Product Accessories



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[®]

COLLAGEN BASED DURAL GRAFT

DURASHEET[®]

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
DCL2525	DECOLL Collagen Dura Membrane 2.5x2.5 cm
DCL5050	DECOLL Collagen Dura Membrane 5x5 cm
DCL7575	DECOLL Collagen Dura Membrane 7.5x7.5 cm
DCL100100	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
DRS2525	DURASHEET Collagen Dura Membrane 2.5x2.5 cm
DRS5050	DURASHEET Collagen Dura Membrane 5x5 cm
DRS7575	DURASHEET Collagen Dura Membrane 7.5x7.5 cm
DRS100100	DURASHEET Collagen Dura Membrane 10x10 cm



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



www.desu.tr



Collagen Based Graft Solutions

DEBONE[®]

Collagen Based Bone Graft

XENOBONE[®]

Collagen Bone Graft Matrix

COLL-OS[®]

Collagen Barrier Membrane



DEBONE

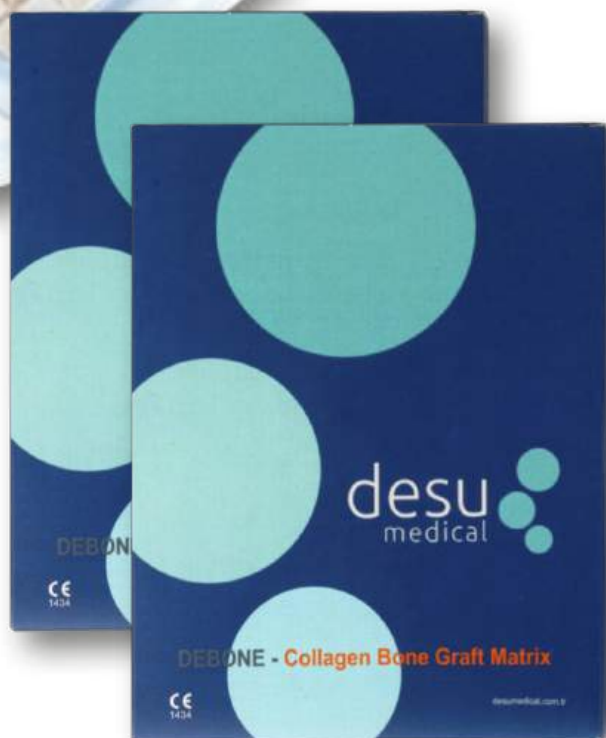
Collagen Based Bone Graft

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
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-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
CLS12525	Collagen Barrier Membrane 1.25x2.5 cm
CLS152	Collagen Barrier Membrane 1.5x2 cm
CLS23	Collagen Barrier Membrane 2x3 cm
CLS2525	Collagen Barrier Membrane 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 H₂O unit.



**LASER
LASER
LASER**

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.

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

EASY TO USE
BIOCOMPATIBLE



HIGH RADIO-OPACITY
APPROPRIATE WORKING TIME

DeFix® Vertebroplasty Bone Cement

Standard / Antibiotic

DeFix® Vertebroplasty Bone Cement is indicated for fixation of pathological fractures of the vertebral body (vertebroplasty and kyphoplasty).

DeFix® Vertebroplasty Bone Cement is indicated for fixation of pathological fractures of the vertebral body (vertebroplasty and kyphoplasty).

Cranioplasty Bone Cement

Standard

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 and a bariumsulfate radiopacifier.

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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