



# Neurosurgical Catheters

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## ABOUT US

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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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# Why Choose Us?



## High-Quality Materials & Innovative Design

Our catheters are made from barium silicone, offering durability, flexibility, and excellent visibility under imaging.



## Precision & Safety

Tantalum length markings ensure accurate positioning, while multiple drainage holes optimize fluid management.



## Advanced Infection Protection

The antibiotic-impregnated option with **Clindamycin and Rifampicin** provides controlled release for 28 days, reducing the risk of infection.



## Reliable & Effective Performance

Designed for medical professionals, our catheters deliver consistent and dependable results.



## Comprehensive Kit for Convenience

Each kit includes all essential components for an efficient and seamless medical application.



# Ventricular Catheter Kit

Ventricular catheters are made of **barium silicone** material and feature **tantalum length markings** for enhanced visibility. These markings are located at each centimeter from the **5 cm to 15 cm** of the catheter.

At the **proximal end**, the catheter is designed with **six drainage holes arranged in four rows** to ensure optimal drainage.

Additionally, ventricular catheters are available with an **antibiotic-impregnated option**, featuring **Clindamycin and Rifampicin**. These antibiotics are released in a **controlled manner for up to 28 days**, providing effective infection prevention.

## Ventricular Catheter Kit Includes:

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

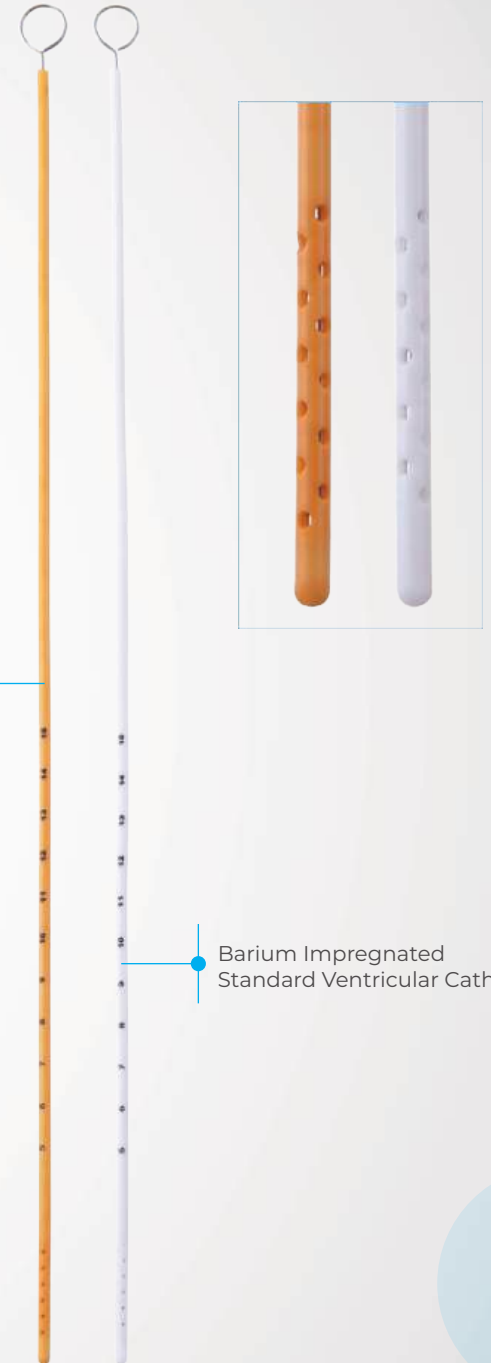


Right Angled Connector



Antibiotic Impregnated  
Ventricular Catheter

Barium Impregnated  
Standard Ventricular Catheter



# Peritoneal Catheter Kit

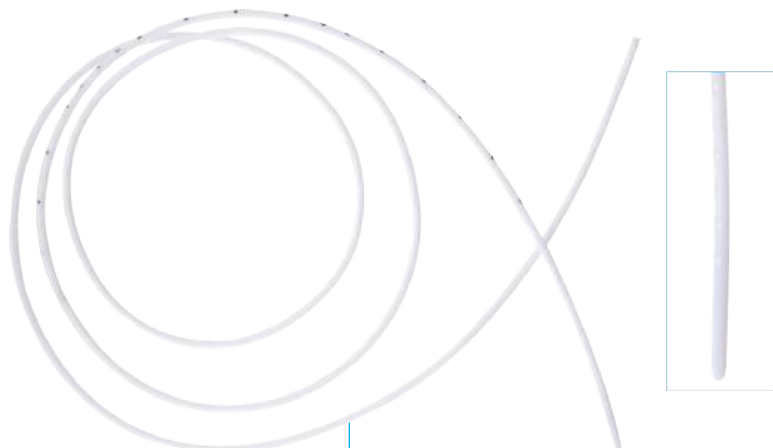
Peritoneal catheters are made of **barium silicone** material and are equipped with **tantalum length markings** for enhanced visibility. These markings are present at each centimeter from the **5 cm to 20 cm** of the catheter.

At the **proximal end**, the catheter features **six drainage holes arranged in four rows** to ensure efficient fluid drainage.

For additional protection, peritoneal catheters are available with an **antibiotic-impregnated option**, containing **Clindamycin and Rifampicin**. These antibiotics are released in a **controlled manner for up to 28 days**, providing effective infection prevention.

## Peritoneal Catheter Kit Includes:

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



Peritoneal Catheter



Antibiotic Impregnated  
Peritoneal Catheter



# Ventriculoperitoneal Catheter Kit

Ventriculoperitoneal catheters are made from **barium silicone** material, ensuring durability and enhanced visibility under imaging.

- **Tantalum length markings** are placed for precise positioning:
  - On the **Ventricular Catheter**, markings are located at each centimeter from the **5 cm to 15 cm**.
  - On the **Peritoneal Catheter**, markings are located at each centimeter from the **5 cm to 20 cm**.
- At the **proximal end**, the catheter is designed with **24 drainage holes**, arranged as **6 holes along 4 rows**, to ensure efficient fluid drainage.
- For infection prevention, an **antibiotic-impregnated option** is available. The catheter is coated with **Clindamycin and Rifampicin**, releasing in a **controlled manner for up to 28 days**.

## Ventriculoperitoneal Catheter Kit Includes:

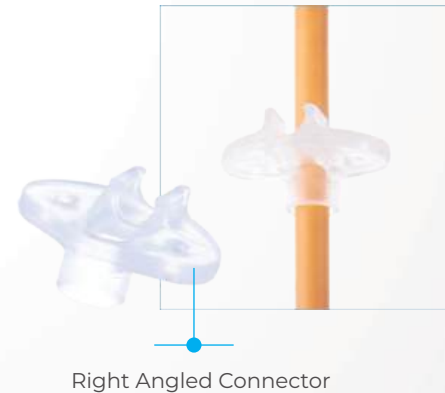
- **Ventricular Catheter** (ID: 1.3 mm | OD: 2.5 mm | L: 23 cm)
- **Peritoneal Catheter** (ID: 1.1 mm | OD: 2.5 mm | L: 120 cm)
- **Stylet**
- **Right-Angled Connector**



Antibiotic Impregnated Peritoneal Catheter



Peritoneal Catheter



Right Angled Connector

Antibiotic Impregnated Ventricular Catheter



Barium Impregnated Standard Ventricular Catheter



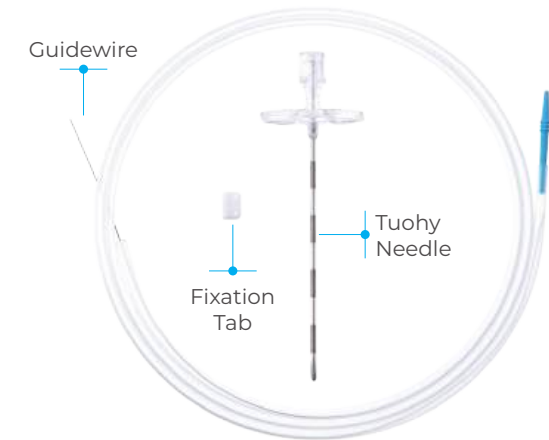
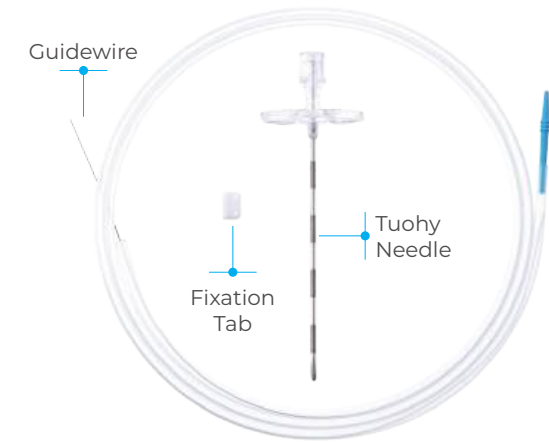
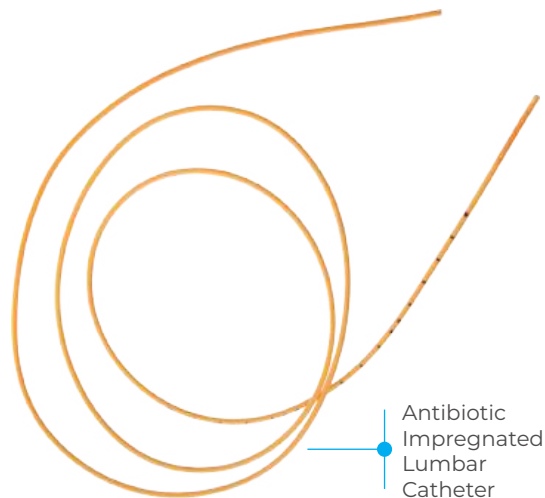
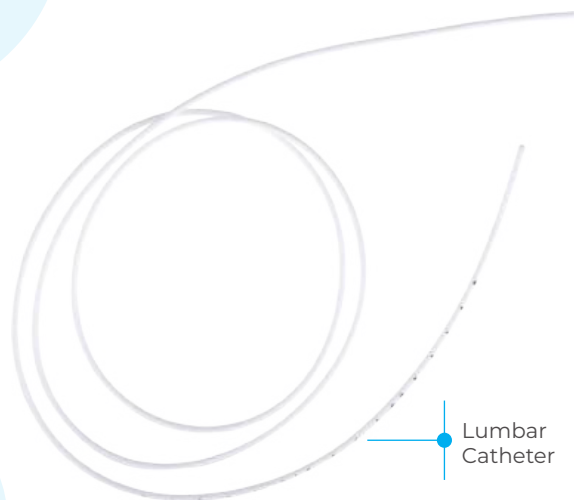
# Lumbar Catheter Kit

Lumbar catheters are crafted from **barium silicone** material, ensuring flexibility, durability, and excellent imaging visibility.

- **Tantalum length markings** are provided along the catheter, at each centimeter from the **5 cm to 20 cm**, for precise placement.
- At the **proximal end**, the catheter features **24 drainage holes**, arranged as **6 holes along 4 rows**, ensuring effective fluid drainage.

## Lumbar Catheter Kit Includes:

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



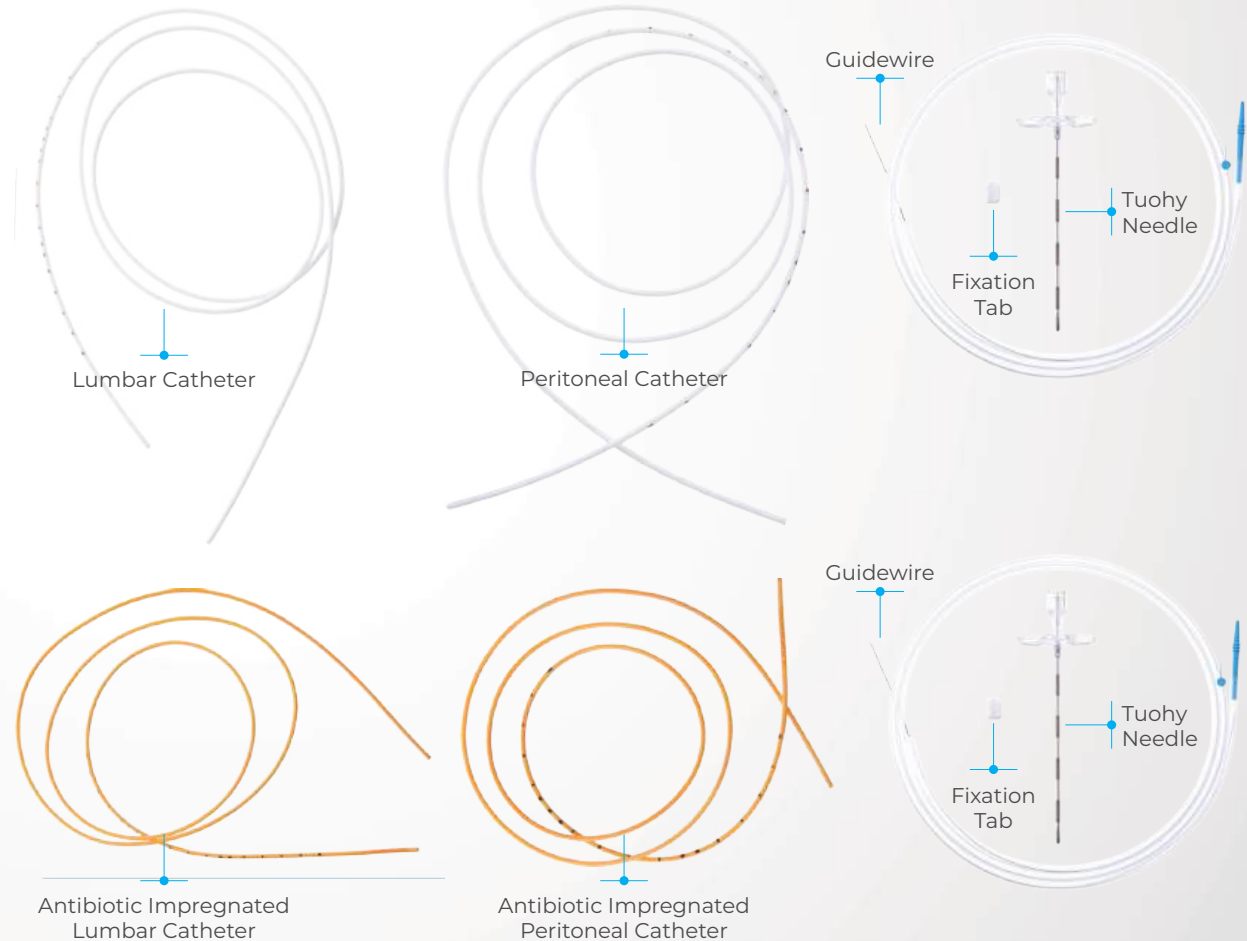
# Lumboperitoneal Catheter Kit

The **Lumboperitoneal Catheters** are constructed from high-quality barium silicon material, ensuring durability and flexibility for medical procedures. Tantalum length markings are clearly visible on the **Lumbar Catheter**, indicating every centimeter from the **5 cm to 20 cm**, and similarly, on the **Peritoneal Catheter**, from the **5 cm to 20 cm**. These markings assist with precise positioning during use.

The **catheter design** includes 24 drainage holes located at the proximal end, distributed as 6 holes along 4 rows for effective drainage.

## The Lumboperitoneal Catheter Kit includes:

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





# Ventricular Catheter Kit

The **Ventricular Catheters** are made from high-quality barium silicon material, providing flexibility and durability for medical procedures. The catheters feature **tantalum length markings** on the **Lumbar Catheter**, visible at each centimeter from the **5 cm to 15 cm**, allowing for precise measurements during placement. At the proximal end of the catheter, **24 drainage holes** are strategically arranged in 4 rows with 6 holes each to ensure optimal drainage.

An **antibiotic-impregnated** option is also available for the **Ventricular Catheters**. The catheters are impregnated with **Clindamycin** and **Rifampicin**, which are gradually released in a controlled manner over a 28-day period, helping reduce the risk of infection.

## The Ventricular Catheter Kit includes:

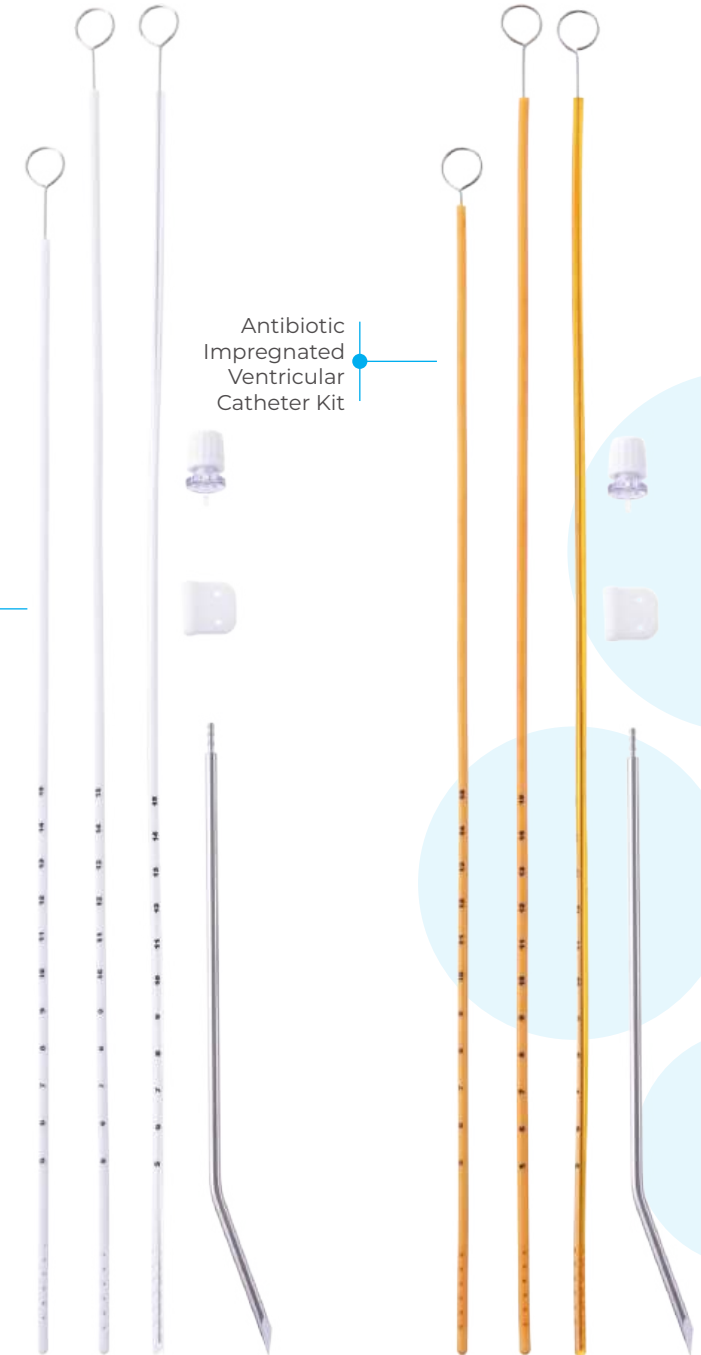
- **Ventricular Catheter**
- **Stylet**
- **Angled Trocar**
- **Luer Lock Connector**
- **Distal Cap**

This comprehensive kit is designed for safe, reliable use in ventricular procedures, offering all essential components for effective placement and management.

Ventricular Catheter Kit



Antibiotic Impregnated Ventricular Catheter Kit



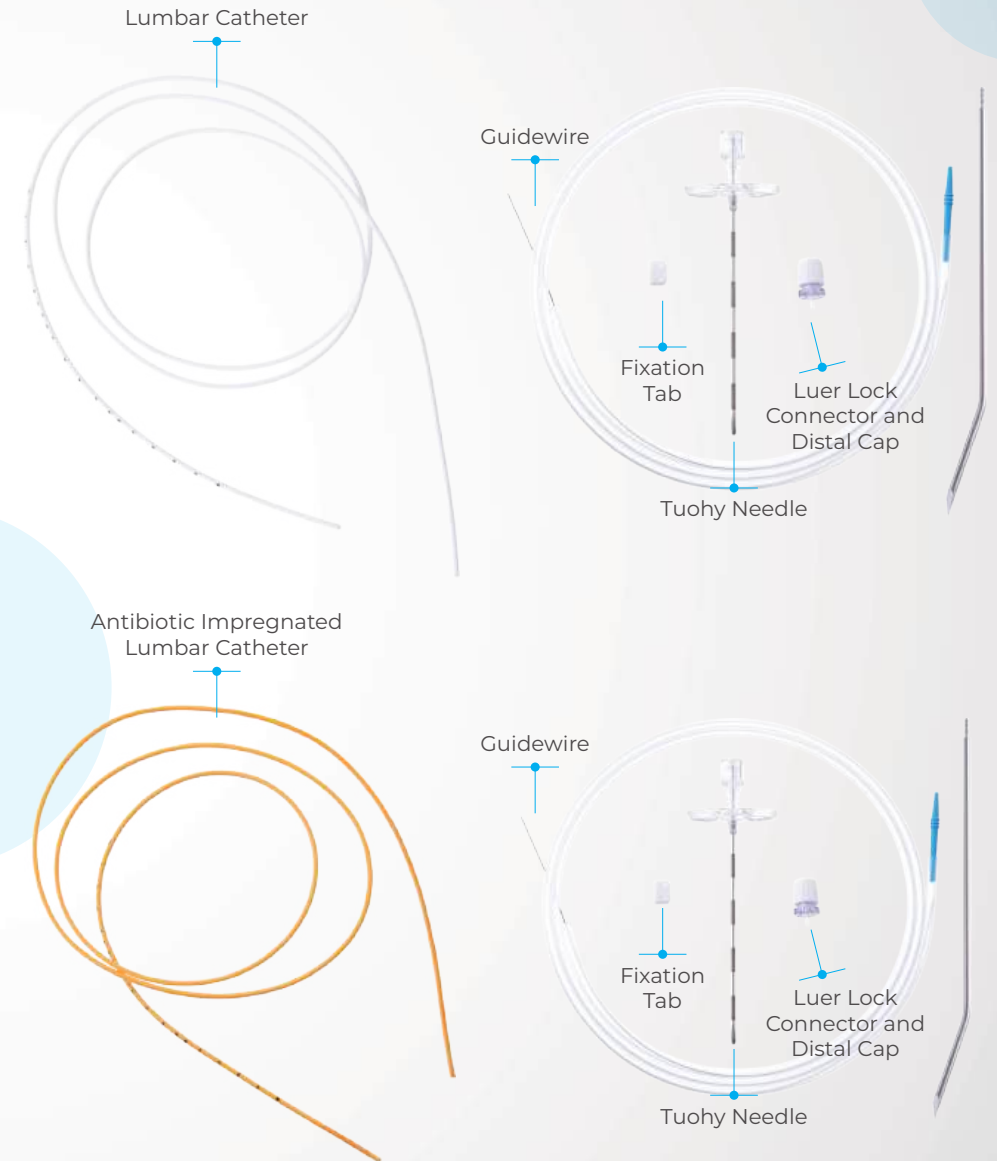
# Lumbar Catheter Kit

The **Lumbar Catheters** are made from durable barium silicon material, ensuring flexibility and reliability during medical procedures. Tantalum length markings are clearly visible on the catheter, indicating every centimeter from the **5 cm to 20 cm**, enabling precise placement. At the proximal end of the catheter, **24 drainage holes** are strategically positioned in 4 rows, with 6 holes per row, to facilitate effective drainage.

An **antibiotic-impregnated** option is available for **Lumbar Catheters**. These catheters are impregnated with **Clindamycin and Rifampicin**, which are released in a controlled manner over a 28-day period, providing continuous infection prevention.

## The Lumbar Catheter Kit includes:

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







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

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