

# Denssicath<sup>®</sup> Multipurpose Drainage Catheter Set - Pigtail

## Device Description

The Multi-Purpose Drainage Catheter Pigtail is flexible tube made of polyurethane, intended for percutaneous introduction into two or more abdominothoracic anatomies (nephrostomy, biliary, abscess, pleural, peritoneal, mediastinal) [i.e., multi-purpose] for intermittent or long-term drainage. The tip of the device has a pigtail shape for retention. The device is available in various sizes and lengths, standard and With Locking Mechanism variants will be introduced into the anatomies using Seldinger technique.

### Size (Fr)

6, 7, 8, 8.5, 9, 10, 12,  
14 & 16

### Length (cm)

22, 25, 30, 35 & 40

### Model

With and with out locking mechanism

## Package / Kit contents

- Radiopaque pigtail catheter (with or without locking mechanism)
- Plastic/metal cannulated stiffener
- Plastic peel away sheath
- Fascial dilators
- Amplatz Ultra Still Guidewire
- Chiba needle
- Catheter fixing disc
- Scalpel blade
- Drainage bag connector

## Intended Purpose & Duration

Multipurpose Drainage Catheter is used for percutaneous drainage in drainage applications of nephrostomy, biliary, abscess, pleural and peritoneal cavities by seldinger technique for a period of up to 30 days.

## Indications For Use & Contraindications

When diagnosed to place drainage catheter percutaneously in liver for biliary drainage / in the abdominal or thoracic cavity for drainage of clear or infected fluid collection / abscess / in kidney for renal drainage. Contraindications include bleeding Diathesis and uncontrolled hypertension, Anticoagulant use.

## Potential Complications

Bleeding (including chronic hematuria, post-procedural, intraprocedural, puncture site), Catheter dislocation/dislodgement, Catheter malposition/transcolonic catheter placement, Catheter occlusion/obstruction, Damage to adjacent organs, Urinary tract infection, Mechanical catheter damage and pain, Bile leak.

## Warnings And Precautions

- If a catheter has become malpositioned or if drainage ceases, the catheter should be promptly exchanged or removed.
- The split away Plastic Sheath, if retained, is not be used as introducer sheath any purpose.
- Do not use if product is damaged or expired and do not reuse the device.
- Use only accessories supplied along with package.
- Manipulation of the product needs ultrasound or fluoroscopic guidance.
- Retain the plastic/metal cannulated straightener to straighten the catheter loop to remove the catheter.
- Dispose off the device and its components, if any, as per institutional and local regulatory guidelines for bio-hazardous medical waste disposal.
- This device is intended for use by physicians trained and experienced in diagnostic and interventional techniques, standard techniques for placement of percutaneous drainage catheters should be employed.

- Periodic evaluation of the catheter is advised; catheter should not remain indwelled for more than 30 days after deployment.
- Do not forcefully advance any components during removal or placement of the catheter. Carefully remove the components if any resistance is occurred.
- Reuse and resterilization of the device is strictly prohibited.

## Instructions For Use

**Note: Activate the hydrophilic coating, by wetting the catheter with sterile water or saline. For best results, keep catheter surface wet during placement.**

## Seldinger Access Technique

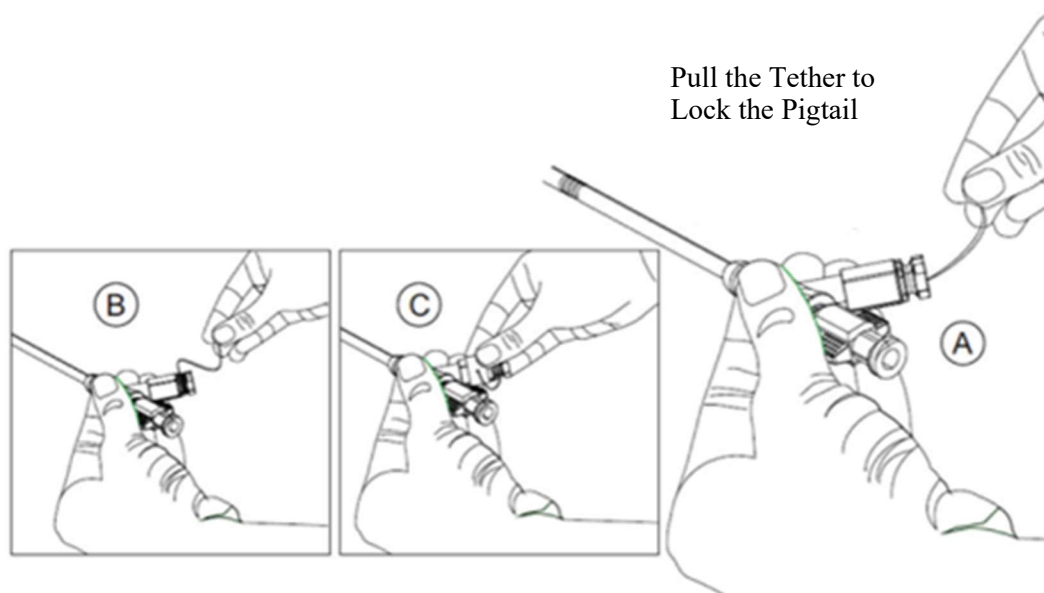
### Catheter (without locking mechanism)

- Under Ultrasound or CT scan, localize the collection system to be drained. Under fluoroscopic guidance, perform procedure using standard procedures of puncture, compatible guidewire placement and dilatation.
- After pyelogram, ultrasound or CT scan, Identify and mark the skin site overlaying the collection system. Anesthetize the marked skin site. Make a small incision, by using scalpel.
- Under fluoroscopic guidance, introduce the Chiba needle provided in the kit at right angles to the skin at the marked site exactly into the collection system. After achieving placement, remove the inner trocar of the needle. Confirm placement via aspiration.
- Then introduce guidewire through needle cannula. On reaching the desired position, remove the outer cannula of the needle while maintaining guidewire position.
- To facilitate passage of the catheter, dilate the musculofascial track using Fascial dilators in sequence from smallest to the largest.
- Use the peel away plastic sheath provided on the catheter to straight the pigtail of the catheter and then insert the plastic or metal cannulated stiffener provided and twist the hub to lock. Then remove the peel away plastic sheath.
- Load the pigtail end of the catheter over the guidewire.
- Gradually advance the pigtail end well into the collecting system and remove the stiffener.
- Confirm the pigtail position under fluoroscopic control.
- Holding the shaft of the catheter securely in position remove the guidewire carefully.
- Secure the catheter to the catheter-fixing disc or to the skin.
- Using the drainage bag connector, connect the catheter to the drainage collection bag.

**NOTE:** Retain the plastic straightener provided in the set for straightening the pigtail catheter at a later date for removal.

### Catheter with locking mechanism

- Under Ultrasound or CT scan, localize the collection system to be drained. Under fluoroscopic guidance, perform procedure using standard procedures of puncture, compatible guidewire placement and dilatation.
- After pyelogram, ultrasound or CT scan, Identify and mark the skin site overlaying the collection system. Anesthetize the marked skin site. Make a small incision, by using scalpel.
- Under fluoroscopic guidance, introduce the Chiba needle provided in the kit at right angles to the skin at the marked site exactly into the collection system. After achieving placement, remove the inner trocar of the needle. Confirm placement via aspiration.
- Then introduce guidewire through needle cannula. On reaching the desired position, remove the outer cannula of the needle while maintaining guidewire position.
- To facilitate passage of the catheter, dilate the musculofascial track using Fascial dilators in sequence from smallest to the largest.
- The catheter is supplied in ready to use state.
- Use the peel away plastic sheath provided with the catheter to straight the pigtail of the catheter.
- Then insert the metal straightener provided into the catheter and twist to lock with catheter hub.
- Remove the Peel away plastic Sheath on the catheter. When inserting the Straightener into the catheter with locking mechanism, hold the string during Straightener insertion to avoid bunching or tangling of suture. Luer lock should not be tighten along with Straightener, to do so may cause kinking of catheter
- Then pass the pigtail end of the catheter over the external end of the guidewire.
- Gradually advance the pigtail end well into the collecting system and remove the Straightener.
- Confirm the pigtail position using fluoroscopic guidance.
- Holding the shaft of the catheter securely in position remove the guidewire carefully, Confirm placement via free flow of fluid.
- On confirmation, remove the straightener. The catheter will now acquire pigtail shape.
- After that pull the locking string as shown in image A.
- After pulling the string, wind the string firmly around the locking hub as shown in image B.
- Then lock the red clip to the locking hub, therefore the pigtail locks firmly inside the body as shown in image C.
- Traction on the locking string, if present, should be sufficient to ensure adequate retention of the tip, but should not be overly tight.
- Secure the catheter to the catheter-fixing disc or to the skin.
- Using drainage connector, connect the catheter to the Drainage collection bag.



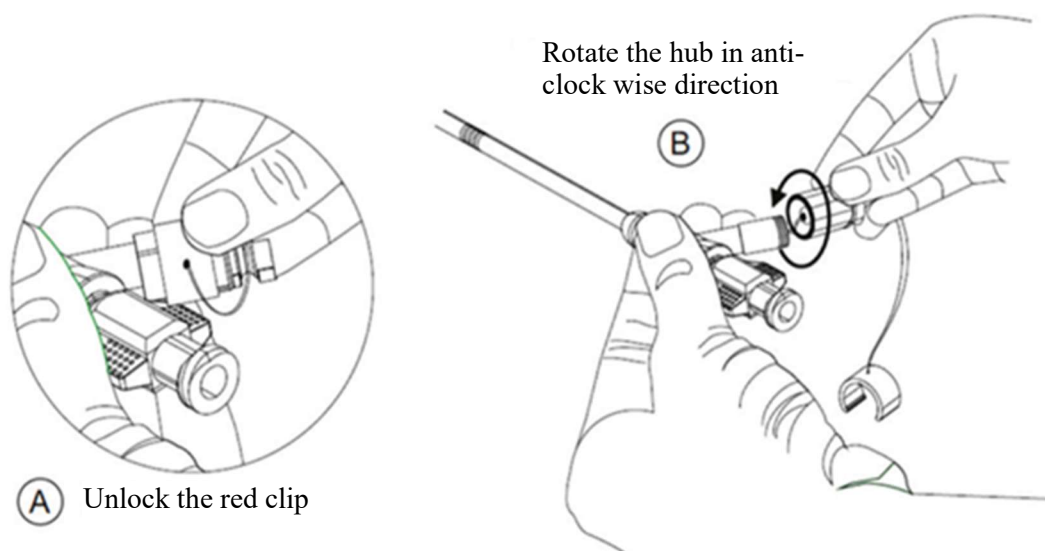
## Catheter Removal Procedure

### Catheter removal for standard type

- Detach the catheter from catheter fixing disc or skin.
- Using the plastic stiffener supplied along with the catheter make the pigtail of catheter straight and remove from body carefully.
- If necessary, place a guidewire, into the collecting system to maintain access while removing the catheter.
- Remove the catheter gently and carefully.

### Catheter removal for locking mechanism type

- For removal of Catheter from the body unlock the red clip from the locking hub of the catheter.
- Unwind the string in anti-clockwise, after that turn the locking hub in anti-clockwise direction to release the locking of the string.
- Using the plastic stiffener supplied along with the catheter make the pigtail of catheter straight and remove from body carefully.
- If necessary, place a guidewire, into the collecting system to maintain access while removing the catheter.



## Supply and Storage

The device is packed in such a way that, all the contents are assembled in tray and the secondary package made of polyethylene and Tyvek. Supplied sterilized by Ethylene Oxide gas in peel open package. Device shall be stored at temperature range from 20°C to 40°C and away from direct sunlight.

## Target Population Group

In patients who have, or might have, a urinary obstruction due to various reasons, an external drainage tube called a 'catheter' is commonly placed in the kidney in order to prevent or to temporarily relieve the obstruction

## Report Any Serious Incident

If problems occur using this device or any serious incidents or adverse events, please contact our customer relations department or call to the contact provided in our manufacturing address and competent authority of the Member State in which the user and/or patient is established.

## Symbol Glossary And Definitions

### Standard Reference:

ISO 15223-1 Medical devices — Symbols to be used with information to be supplied by the manufacturer

	Do not re-sterilize
	Do not use if package is damaged and consult instructions for use
	Consult instructions for use
	Temperature limit
	Keep away from sunlight
	Do not re-use
	Not made with natural rubber latex
	Sterilized using ethylene oxide
	Non-pyrogenic
	Keep dry
	Medical device
	Single sterile barrier system with protective packaging inside
	Does not contain DEHP
	Unique device identifier
	Date of Manufacture
	Use-by date
	Batch code

	Catalogue number
	Authorized Representative in the European Community/ European Union
	Manufacturer
	Caution
	Prescription



- This device is to be sold by/on the directions of a physician. Sterile (ETO) if package is unopened or undamaged.
- Read all the instructions before use.
- On completion of the procedure, dispose off device and its components if any as per institutional and local regulatory guidelines for bio-hazardous medical waste dispose.



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