

## SLIP-LOCK PERCUTANEOUS NEPHROSTOMY CATHETERS

### Device Description:

**AMECATH SLIP-LOCK Percutaneous Nephrostomy Catheter** is a catheter that perforates the skin, passes through the body wall and renal parenchyma, and terminates in the renal pelvis or a calyx.

**AMECATH SLIP-LOCK Percutaneous Nephrostomy Catheter** has multiple functions but is used most frequently to provide urinary drainage when the ureter is obstructed and retrograde access is inadvisable or impossible.

**AMECATH SLIP-LOCK Percutaneous Nephrostomy Catheter** placement is a prime interventional procedure used mainly in the decompression of the renal collecting system (Percutaneous Nephrostomy Catheter placement has been the prime procedure for the temporary drainage of an obstructed collecting system).

**AMECATH SLIP-LOCK Percutaneous Nephrostomy Catheters** are single lumen for adult and pediatric use, 25-30-35 Cm in standard length and 6 - 18 range FR in diameters. Hydrophilic coating added is an option.

**AMECATH SLIP-LOCK Percutaneous Nephrostomy Catheter** is supplied either single catheter or in kits.

**AMECATH SLIP-LOCK Percutaneous Nephrostomy Catheter and its accessories: AMECATH SLIP-LOCK Percutaneous Nephrostomy Catheter is available in different designs and Kit configurations to cover all customer needs.**

### Device construction:

#### Catheter Types

- SLIP-LOCK Nephrostomy Catheter J type (Pigtail)
- SLIP-LOCK Nephrostomy Catheter Malecot
- SLIP-LOCK One step Nephrostomy Catheter J type and Malecot type

### List of Accessories:

#### The basic kits contain the following accessories:

- Connection Tube (12Fr or 16Fr).
- Puncture Trocar, Cannula.
- Chiba Needle.
- Fascial Dilators.
- Scalpel.
- J- End Guide Wire.
- Fixation Wings.

#### The Optional accessories:

- Stopcock.
- Urine Bag
- Lunderquist guide wire (only in Nephrostomy catheters kit with Lunderquist guide wire)

### Intended Use:

**AMECATH SLIP-LOCK Percutaneous Nephrostomy Catheters** are used for temporary urinary diversion due to urinary obstruction secondary to calculi.

Other common indications include the following:

- Diversion of urine from the renal collecting system in an attempt to heal fistulas or leaks due to traumatic or iatrogenic injury, malignant or inflammatory fistulas, or hemorrhagic cystitis.
- Treatment for non-dilated obstructive uropathy.
- Treatment for urinary tract obstruction related to pregnancy.
- Treatment for complications related to renal transplants.
- Access for interventions such as direct infusion of substances for dissolving stones, chemotherapy, and antibiotic or antifungal therapy.
- Access for other procedures (e.g., benign stricture dilatation, antegrade ureteral stent placement, stone retrieval, pyeloureteroscopy, endopyelotomy).
- Decompression of nephric or perinephric fluid collections (eg, abscesses, urinomas).

### Contraindications:

- Bleeding diathesis (most commonly uncontrollable coagulopathy) and an uncooperative patient.
- Severe hyperkalemia (>7 mEq/L) should be corrected with hemodialysis prior to the procedure.

### Warnings and Precautions

- For single product and patient only.
- Do not use if any sign of product damage is visible.
- Do not re-use, reprocess or re-sterilize. Re-use may lead to infection and Pyrogenicity. Reprocessing or Re-sterilization may damage the product and affect its integrity which when re-used may lead to possible deterioration in health and safety of patients.
- The methods of application are variable, and could be modified by the physician according to his own experience.
- Short term catheter should not be left inside the body for more than 30 days.
- The proper size selection for the catheter size and length is the responsibility of the physician considering the patient's anatomy.
- HCP must be experienced or trained on the proper use of the device.
- Do not use absolute alcohol or acetone based product on the catheter. 2% chlorhexidine or Iodine based solution is recommended as antiseptic solution.
- It is not recommended to use ointments on catheters as it may cause its degradation.

### Complications:

#### □ Common:

- Bleeding
- Sepsis
- Injury to an adjacent organ
- Microscopic hematuria
- Inability to remove Nephrostomy Catheter due to crystallization around the catheter site
- Pain

### ❑ Rare:

- Massive hemorrhage requiring transfusion, surgery, or embolization
- Urine extravasation
- Sepsis

### ❑ Very Rare:

- Death
- Pneumothorax

### How Supplied:

- **AMECATH SLIP-LOCK Percutaneous Nephrostomy Catheters** is a sterile, single-use Medical device
- Each carton box includes 10 **AMECATH SLIP-LOCK Percutaneous Nephrostomy Catheters** kits packed in PETG hard blister covered with Tray Cover.

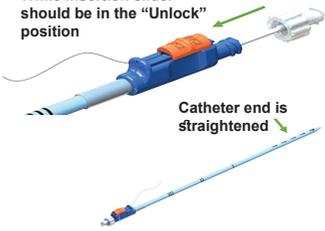
### AMECATH SLIP-LOCK Percutaneous Nephrostomy Catheter method of application

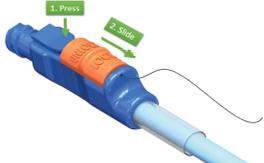
1. The patient is commonly placed in a prone or prone-oblique position, the side to be punctured is elevated. The body site where the device will be inserted should be evaluated with sonography, CT, or fluoroscopy and also should be marked. This body site should then be prepared (e.g., cleansed with Betadine solution) and draped in the usual manner. The patient is given an appropriate medication for conscious sedation (e.g., fentanyl and Versed) and a local anaesthetic, usually 1% lidocaine to anesthetize the skin.
2. A small skin incision is made to facilitate passage of the needle into the skin.
3. Puncture site selection is crucial in minimizing the risk of haemorrhage. The best route for needle entry into the renal collecting system is through an oblique posterolateral approach along the Brödel line and into the end of a posterior calix. This line is near the posterior axillary line and is about 2-3 cm below the 12th rib. A percutaneous nephrostomy tract that approaches along Brödel line has the smallest risk of causing substantial arterial injury and subsequent haemorrhage.
4. The needle is angled toward a posterior lower or middle pole calix. Once the needle is inserted into the calix and into the collecting system, the stylet is removed, and urine is returned if an obstruction is present. If no urine is present, a few manoeuvres can be used. A 10-mL syringe should be attached to the needle hub, and the needle and syringe should be retracted slightly. If urine is aspirated, the tip is likely within the collecting system. Otherwise, a 0.018" wire can be used to probe the region, or a small amount of contrast agent can be injected to check the position.
5. Contrast material should be gently injected into the collecting system to confirm the location. Over distension of the system with contrast material or the withdrawal of too much urine for culturing should be avoided. In commonly practice, the amount of contrast agent to inject is the same as the amount of urine removed.
6. Once access into the collecting system is obtained, successful wire exchanges should occur until a 0.035" J-tip wire is placed into the renal pelvis or down the ureter.

7. The tract should be dilated with dilators.
8. The drainage catheter should be flushed, and the Straightener that comes with the kit should be used.
9. The catheter should be advanced into the proximal renal parenchyma over a 0.035" guide wire, the trocar should be loosened, and the catheter should be slipped off the trocar into the renal pelvis. The internal wire should be pulled to lock the pigtail catheter, and the catheter should be seated appropriately within the renal pelvis. The catheter position should be confirmed with the use of contrast material, and the catheter should be fixed with the fixation wings and tied to the skin with suture and attached to an external drainage bag.
- 9.1 **N.B.** For One Step nephrostomy application the most dilated portion of the kidney is assessed ultrasonographically and with its puncture needle is applied on the puncture line to the kidney in only one step then with removal of the trocar and passage of urine to be sure that the catheter is in the renal pelvis, then the cannula is removed and the catheter will re-coil to take its original pig tail shape.
10. It's more rapid easy procedure for rapid access to the renal pelvis in urgent cases with obstructed kidney that in need for rapid urinary diversion or can't withstand major procedure up to improving the general condition of the patient.

**\* N.B for further information on luer connections, please refer to latest version of BS EN ISO 80369-7**

### \*Slip Lock use instructions

<p>1. Ensure that the slider is in the unlock position</p>	
<p>2. Straighten the catheter using its cover and Insert the straightener</p>	<p>While insertion slider should be in the "Unlock" position</p>  <p>Catheter end is straightened</p>
<p>3. Lock the straightener</p>	

<p>4. Remove the straightener after catheter insertion</p>	
<p>5. Pull the suture so the catheter retains to its original shape</p>	<p>Catheter end returns to its original shape</p> 
<p>6. To ensure the catheter fixation, slider should be in the lock position (to ensure movement from the unlock to lock position, you should hear a click)</p>	 <p>1. Press 2. Slide</p>
<p>7. To remove the catheter, Move the slider to the unlock position by pressing on the transparent hub then cut the suture at the nearest point to the silicon valve</p>	 <p>1. Slide 2. Cut</p>

### Product Variants:

For variants of **AMECATH SLIP-LOCK Percutaneous Nephrostomy Catheter**, Kindly refer to the catalogue, visit our website on: “ [www.amecathgroup.com](http://www.amecathgroup.com) ”, or contact your nearest **AMECATH** representative.”

### Code Key

<b>NEP:</b>	Nephrostomy Catheter
<b>XX:</b>	Size in Fr
<b>LL:</b>	Catheter Length 25cm Or 30 Cm and 35cm
<b>T:</b>	Type of Catheter Tip. (M) For Malecot, (J) J type (Pigtail)
<b>K:</b>	For Complete kit.
<b>H:</b>	For Hydrophilic coated catheter
<b>OS:</b>	For One Step Catheter.
<b>x/ XX</b>	Re Entry Tube Size In Fr/Catheter Size In Fr. for Re-entry Nephrostomy Catheter
<b>Q</b>	Lunderquist Guide Wire
<b>L</b>	For string Lock

**Add (SB) at the code end in case of Stopcock + Urine Bag.**

### SLIP-LOCK PERCUTANEOUS NEPHROSTOMY CATHETER

Referenc	Fr. Size	Length	Contents
NEP-XX-LL-J-SL	XX	LL	<ul style="list-style-type: none"> <li>● Slip-Lock NEPHROSTOMY Catheter J type.</li> <li>● Fixation Wings.</li> <li>● Connection Tube.</li> </ul>
NEP-XX-LL-J-H-SL	XX	LL	<ul style="list-style-type: none"> <li>● Slip-Lock NEPHROSTOMY Catheter J type Hydrophilic Coated.</li> <li>● Fixation Wings.</li> <li>● Connection Tube.</li> </ul>
NEP-XX-LL-M-SL	XX	LL	<ul style="list-style-type: none"> <li>● Slip-Lock NEPHROSTOMY Catheter Malecot type.</li> <li>● Fixation Wings.</li> <li>● Connection Tube.</li> </ul>
NEP-XX-LL-M-H-SL	XX	LL	<ul style="list-style-type: none"> <li>● Slip-Lock NEPHROSTOMY Catheter Malecot type Hydrophilic Coated.</li> <li>● Fixation Wings.</li> <li>● Connection Tube.</li> </ul>
NEP-XX-LL-J-OS-SL	XX	LL	<ul style="list-style-type: none"> <li>● Slip-Lock One Step NEPHROSTOMY Catheter J type.</li> <li>● Connection tube.</li> <li>● Fixation Wings.</li> <li>● Scalpel.</li> </ul>
NEP-XX-LL-J-OS-H-SL	XX	LL	<ul style="list-style-type: none"> <li>● Slip-Lock One step NEPHROSTOMY Catheter J type Hydrophilic Coated.</li> <li>● Connection Tube.</li> <li>● Fixation Wings.</li> <li>● Scalpel.</li> </ul>
NEP-XX-LL-M-OS-SL	XX	LL	<ul style="list-style-type: none"> <li>● Slip-Lock One step NEPHROSTOMY Catheter Malecot type .</li> <li>● Connection Tube.</li> <li>● Fixation Wings.</li> <li>● Scalpel.</li> </ul>
NEP-XX-LL-M-OS-H-SL	XX	LL	<ul style="list-style-type: none"> <li>● Slip-Lock One Step NEPHROSTOMY Catheter Malecot type Hydrophilic Coated.</li> <li>● Connection Tube.</li> <li>● Fixation Wings.</li> <li>● Scalpel.</li> </ul>
NEP-XX-LL-J-OS-SL-SB	XX	LL	<ul style="list-style-type: none"> <li>● Slip-Lock NEPHROSTOMY Catheter J type</li> <li>● Connection Tube</li> <li>● Fixation Wings</li> <li>● Scalpel</li> <li>● 3-Way Stopcock</li> <li>● Urine Bag</li> </ul>
NEP-XX-LL-J-OS-H-SL-SB	XX	LL	<ul style="list-style-type: none"> <li>● Slip-Lock NEPHROSTOMY Catheter J type Hydrophilic Coated.</li> <li>● Connection tube.</li> <li>● Fixation Wings</li> <li>● Scalpel</li> <li>● 3-Way Stopcock</li> <li>● Urine Bag</li> </ul>
NEP-XX-LL-M-OS-SL-SB	XX	LL	<ul style="list-style-type: none"> <li>● Slip-Lock NEPHROSTOMY Catheter Malecot type</li> <li>● Connection tube.</li> <li>● Fixation Wings</li> <li>● Scalpel</li> <li>● 3-Way Stopcock</li> <li>● Urine Bag</li> </ul>
NEP-XX-LL-M-OS-H-SL-SB	XX	LL	<ul style="list-style-type: none"> <li>● Slip-Lock NEPHROSTOMY Catheter Malecot type Hydrophilic Coated.</li> <li>● Connection tube.</li> <li>● Fixation Wings</li> <li>● Scalpel</li> <li>● 3-Way Stopcock</li> <li>● Urine Bag</li> </ul>

### SLIP-LOCK PERCUTANEOUS NEPHROSTOMY CATHETER KIT

Referenc	Fr. Size	Length	Contents
NEP-XX-LL-J-K-SL	XX	LL	<ul style="list-style-type: none"> <li>● Slip-Lock NEPHROSTOMY Catheter J type.</li> <li>● Connection Tube</li> <li>● Puncture Trocar, Cannula</li> <li>● Chiba Needle</li> <li>● Fascial Dilators</li> <li>● Scalpel</li> <li>● J-End Guide Wire</li> <li>● Fixation Wings</li> </ul>
NEP-XX-LL-J-K-H-SL	XX	LL	<ul style="list-style-type: none"> <li>● Slip-Lock NEPHROSTOMY Catheter J type Hydrophilic Coated</li> <li>● Connection Tube</li> <li>● Puncture Trocar, Cannula</li> <li>● Chiba Needle</li> <li>● Fascial Dilators</li> <li>● Scalpel</li> <li>● J-End Guide Wire</li> <li>● Fixation Wings</li> </ul>
NEP-XX-LL-M-K-SL	XX	LL	<ul style="list-style-type: none"> <li>● Slip-Lock NEPHROSTOMY Catheter Malecot Type</li> <li>● Connection Tube</li> <li>● Puncture Trocar, Cannula</li> <li>● Chiba Needle</li> <li>● Fascial Dilators</li> <li>● Scalpel</li> <li>● J-End Guide Wire</li> <li>● Fixation Wings</li> </ul>
NEP-XX-LL-M-K-H-SL	XX	LL	<ul style="list-style-type: none"> <li>● Slip-Lock NEPHROSTOMY Catheter Malecot Hydrophilic Coated</li> <li>● Connection Tube</li> <li>● Puncture Trocar, Cannula</li> <li>● Chiba Needle</li> <li>● Fascial Dilators</li> <li>● Scalpel</li> <li>● J-End Guide Wire</li> <li>● Fixation Wings</li> </ul>
NEP-XX-LL-J-K-SL-SB	XX	LL	<ul style="list-style-type: none"> <li>● Slip-Lock NEPHROSTOMY Catheter J type</li> <li>● Connection Tube</li> <li>● Puncture Trocar, Cannula</li> <li>● Chiba Needle</li> <li>● Fascial Dilators</li> <li>● Scalpel</li> <li>● J-End Guide Wire</li> <li>● Fixation Wings</li> <li>● 3-Way Stopcock</li> <li>● Urine Bag</li> </ul>
NEP-XX-LL-J-K-H-SL-SB	XX	LL	<ul style="list-style-type: none"> <li>● Slip-Lock NEPHROSTOMY Catheter J type Hydrophilic Coated</li> <li>● Connection Tube</li> <li>● Puncture Trocar, Cannula</li> <li>● Chiba Needle</li> <li>● Fascial Dilators</li> <li>● Scalpel</li> <li>● J-End Guide Wire</li> <li>● Fixation Wings</li> <li>● 3-Way Stopcock</li> <li>● Urine Bag</li> </ul>

NEP-XX-LL-M-K-SL-SB	XX	LL	<ul style="list-style-type: none"> <li>● Slip-Lock NEPHROSTOMY Catheter Malecot type.</li> <li>● Connection Tube</li> <li>● Puncture Trocar, Cannula</li> <li>● Chiba Needle</li> <li>● Fascial Dilators</li> <li>● Scalpel</li> <li>● J-End Guide Wire</li> <li>● Fixation Wings</li> <li>● 3-Way Stopcock</li> <li>● Urine Bag</li> </ul>
NEP-XX-LL-M-K-H-SL-SB	XX	LL	<ul style="list-style-type: none"> <li>● Slip-Lock NEPHROSTOMY Catheter Malecot type Hydrophilic Coated</li> <li>● Connection Tube</li> <li>● Puncture Trocar, Cannula</li> <li>● Chiba Needle</li> <li>● Fascial Dilators</li> <li>● Scalpel</li> <li>● J-End Guide Wire</li> <li>● Fixation Wings</li> <li>● 3-Way Stopcock</li> <li>● Urine Bag</li> </ul>
NEP-XX-LL-J-K-SL-Q	XX	LL	<ul style="list-style-type: none"> <li>● Slip-Lock NEPHROSTOMY Catheter J type.</li> <li>● Connection Tube</li> <li>● Puncture Trocar, Cannula</li> <li>● Chiba Needle</li> <li>● Fascial Dilators</li> <li>● Scalpel</li> <li>● Lunderquist Guide Wire</li> <li>● Fixation Wings</li> </ul>
NEP-XX-LL-J-K-H-SL-Q	XX	LL	<ul style="list-style-type: none"> <li>● Slip-Lock NEPHROSTOMY Catheter J type Hydrophilic Coated</li> <li>● Connection Tube</li> <li>● Puncture Trocar, Cannula</li> <li>● Chiba Needle</li> <li>● Fascial Dilators</li> <li>● Scalpel</li> <li>● Lunderquist Guide Wire</li> <li>● Fixation Wings</li> </ul>
NEP-XX-LL-M-K-SL-Q	XX	LL	<ul style="list-style-type: none"> <li>● Slip-Lock NEPHROSTOMY Catheter Malecot type.</li> <li>● Connection Tube</li> <li>● Puncture Trocar, Cannula</li> <li>● Chiba Needle</li> <li>● Fascial Dilators</li> <li>● Scalpel</li> <li>● Lunderquist Guide Wire</li> <li>● Fixation Wings</li> </ul>
NEP-XX-LL-M-K-H-SL-Q	XX	LL	<ul style="list-style-type: none"> <li>● Slip-Lock NEPHROSTOMY Catheter Malecot Hydrophilic Coated.</li> <li>● Connection Tube</li> <li>● Puncture Trocar, Cannula</li> <li>● Chiba Needle</li> <li>● Fascial Dilators</li> <li>● Scalpel</li> <li>● Lunderquist Guide Wire</li> <li>● Fixation Wings</li> </ul>

NEP-XX-LL-J-K-SL-Q <sub>5</sub> SB	XX	LL	<ul style="list-style-type: none"> <li>● Slip-Lock NEPHROSTOMY Catheter J type .</li> <li>● Connection Tube</li> <li>● Puncture Trocar, Cannula</li> <li>● Chiba Needle</li> <li>● Fascial Dilators</li> <li>● Scalpel</li> <li>● Lunderquist Guide Wire</li> <li>● Fixation Wings</li> <li>● 3-Way Stopcock</li> <li>● Urine Bag</li> </ul>
NEP-XX-LL-J-K-H-SL-Q <sub>5</sub> SB	XX	LL	<ul style="list-style-type: none"> <li>● Slip-Lock NEPHROSTOMY Catheter J type Hydrophilic Coated.</li> <li>● Connection Tube</li> <li>● Puncture Trocar, Cannula</li> <li>● Chiba Needle</li> <li>● Fascial Dilators</li> <li>● Scalpel</li> <li>● Lunderquist Guide Wire</li> <li>● Fixation Wings</li> <li>● 3-Way Stopcock</li> <li>● Urine Bag</li> </ul>
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NEP-XX-LL-M-K-SL-Q <sub>5</sub> SB	XX	LL	<ul style="list-style-type: none"> <li>● Slip-Lock NEPHROSTOMY Catheter Malecot type.</li> <li>● Connection Tube</li> <li>● Puncture Trocar, Cannula</li> <li>● Chiba Needle</li> <li>● Fascial Dilators</li> <li>● Scalpel</li> <li>● Lunderquist Guide Wire</li> <li>● Fixation Wings</li> <li>● 3-Way Stopcock</li> <li>● Urine Bag</li> </ul>

NEP-XX-LL-M-K-H-SL-Q-SB	XX	LL	<ul style="list-style-type: none"> <li>● Slip-Lock NEPHROSTOMY Catheter Malecot type</li> <li>● Hydrophilic Coated</li> <li>● Connection Tube</li> <li>● Puncture Trocar, Cannula</li> <li>● Chiba Needle</li> <li>● Fascial Dilators</li> <li>● Scalpel</li> <li>● Lunderquist Guide Wire</li> <li>● Fixation Wings</li> <li>● 3-Way Stopcock</li> <li>● Urine Bag</li> </ul>
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### Storage and Product Safe Disposal

- Store between 5°C to 30°C.
  - Do not expose to organic solvents, ionizing radiation or ultraviolet light.
  - Rotate inventory so that catheters are used prior to expiration date on the package label.
  - Used product should be disposed in sanitary container to prevent possible contamination and cross infection.
  - Use a sharps bin to dispose of used needles, scalpels or sharps.
- N.B. please provide patients by the instructions of home care attached to this document.**
- In case of any questions or queries, Kindly contact the local Authorised Representative or visit **AMECATH** website on : “ [www.amecathgroup.com](http://www.amecathgroup.com) ”
- You can find a copy of this IFU in a PDF format on **AMECATH** website on : “ [www.amecathgroup.com](http://www.amecathgroup.com) ”
- In case of any Adverse event, Contact your local Health Authority immediately.**
- Any serious incident that has occurred in relation to the device should be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established**



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