ARROW® NEXTSTEP® RETROGRADE
The next step in dialysis catheter technology
**FEATURED KIT COMPONENTS**

**Arrow® SmartSeal® Hemostatic Peelable Dialysis Sheath**
- Designed to minimize risk of air embolism and clinicians’ exposure to bloodborne pathogens.

**Arrow Simplicity® Color-Coded Micro-Puncture Introducer Set**
- Unique system designed to simplify catheterization and facilitate optimal placement. Corresponds to color-coded packaging for Arrow® NextStep® Chronic Hemodialysis Catheters.

**ALCOHOL-COMPATIBLE CONSTRUCTION**
For use with a broad spectrum of agents, including ChloraPrep® and iodine.

**REVERSED PORTS**
To help deliver sustained high flow, the Arrow® NextStep® Retrograde Catheter’s ports are reversed. The venous port resides in the SVC, the arterial port in the right atrium.

**REPLACEABLE HUB CONNECTION**
Enables easy replacement without removing indwelling catheter.
ARROW® NEXTSTEP® HEMODIALYSIS CATHETER

STEP-TIP EASE MEETS SPLIT-TIP FLOW

THE ARROW® NEXTSTEP® CHRONIC HEMODIALYSIS CATHETER IS THE FIRST OF ITS KIND AND IS DESIGNED TO COMBINE:

- A step-tip catheter’s ease of insertion
- A split-tip catheter’s sustained high flow

EASE OF INSERTION

The Arrow® NextStep® Retrograde Catheter’s unique tip is designed for:

- Smooth transition through a sheath and over-the-wire insertion
- The benefits of retrograde tunneling

DESIGNED FOR SUSTAINED HIGH FLOW AND MINIMAL RECIRCULATION

To reduce recirculation and deliver high flow, the Arrow® NextStep® Retrograde Catheter’s tip has two unique, complementary features:

- The ports are reversed to optimize blood flow dynamics
  - The venous port releases blood in the SVC
  - The arterial port draws blood from the right atrium
  - Side holes on the tip are designed to pull blood from all sides
- The ports are significantly separated to enhance flow and minimize recirculation

TECHNIQUE TO IMPROVE OVERALL PLACEMENT ACCURACY

By placing the tip first, then tunneling back to the exit site, retrograde insertion helps deliver optimal tip placement, high flow rates and safe, reliable extended use.¹

In particular, retrograde insertion:

- Facilitates fast, precise tip placement within the right atrium
- Helps create a smooth, contoured tunnel tract that:
  - Minimizes catheter kinking
  - Inhibits catheter migration
  - Minimizes retrograde bleeding
  - Permits reproducible cuff positioning and exit site location

¹In particular, retrograde insertion:

- Facilitates fast, precise tip placement within the right atrium
- Helps create a smooth, contoured tunnel tract that:
  - Minimizes catheter kinking
  - Inhibits catheter migration
  - Minimizes retrograde bleeding
  - Permits reproducible cuff positioning and exit site location

PRESSURE VERSUS FLOW

ARTERIAL PORT
Designed to optimize flow by residing in the right atrium; side holes engineered to pull blood from all sides

VENOUS PORT
Significant separation from arterial port enhances flow and minimizes recirculation

EASY TO INSERT
Designed for smooth transition through sheath and over-the-wire insertion

VENOUS PORT
Significant separation from arterial port enhances flow and minimizes recirculation

ARTERIAL PORT
Designed to optimize flow by residing in the right atrium; side holes engineered to pull blood from all sides
THIS SET INCLUDES:

1 Catheter: 15 Fr.
1 Arrow® SmartSeal® Hemostatic Peelable Dialysis Sheath: 16 Fr.
1 Spring-Wire Guide: .038" (.97 mm) x 39-1/2" (100 cm) straight stiff tip on one end — “J” tip on other with Arrow Advancer™ Guidewire Insertion System
1 Introducer Needle:
   18 Ga. x 2-1/2” (6.35 cm)
1 Pre-Loaded Tunneler (metal): with threaded compression cap and compression sleeve
1 Hub Connection Assembly
2 Luer-Lock Caps
1 Tunnel Dilator
1 Tegaderm® Dressing: 10 cm x 12 cm
1 Tissue Dilator: 12 Fr.
1 Tissue Dilator: 14 Fr.
1 SharpsAway® II Locking Disposal Cup
1 Safety Scalpel: #11
1 Irrigation Tube with Clamp
1 Catheter Clamp
1 Patient ID Card

To learn more about retrograde insertion talk to your sales representative or visit Arrowintl.com/NextStep.
### ARROW® NEXTSTEP® RETROGRADE CHRONIC HEMODIALYSIS CATHETER SETS WITH ARROW SIMPLICITY® COLOR-CODED MICRO-PUNCTURE INTRODUCER

<table>
<thead>
<tr>
<th>COLOR CODE</th>
<th>PRODUCT #</th>
<th>DESCRIPTION</th>
<th>TIP-TO-CUFF INSERTION LENGTH (CM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>CS-15192-XM</td>
<td>Arrow 15 Fr. x 7.5” (19 cm) Radiopaque Polyurethane Catheter with Color-Coded 21 Ga. Micro-puncture Introducer Set</td>
<td>19</td>
</tr>
<tr>
<td>23</td>
<td>CS-15232-XM</td>
<td>Arrow 15 Fr. x 9” (23 cm) Radiopaque Polyurethane Catheter with Color-Coded 21 Ga. Micro-puncture Introducer Set</td>
<td>23</td>
</tr>
<tr>
<td>27</td>
<td>CS-15272-XM</td>
<td>Arrow 15 Fr. x 10.5” (27 cm) Radiopaque Polyurethane Catheter with Color-Coded 21 Ga. Micro-puncture Introducer Set</td>
<td>27</td>
</tr>
<tr>
<td>31</td>
<td>CS-15312-XM</td>
<td>Arrow 15 Fr. x 12” (31 cm) Radiopaque Polyurethane Catheter with Color-Coded 21 Ga. Micro-puncture Introducer Set</td>
<td>31</td>
</tr>
</tbody>
</table>

### ARROW® NEXTSTEP® RETROGRADE CHRONIC HEMODIALYSIS CATHETER SETS

<table>
<thead>
<tr>
<th>COLOR CODE</th>
<th>PRODUCT #</th>
<th>DESCRIPTION</th>
<th>TIP-TO-CUFF INSERTION LENGTH (CM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>CS-15192-X</td>
<td>Arrow 15 Fr. x 7.5” (19 cm) Radiopaque Polyurethane Catheter</td>
<td>19</td>
</tr>
<tr>
<td>23</td>
<td>CS-15232-X</td>
<td>Arrow 15 Fr. x 9” (23 cm) Radiopaque Polyurethane Catheter</td>
<td>23</td>
</tr>
<tr>
<td>27</td>
<td>CS-15272-X</td>
<td>Arrow 15 Fr. x 10.5” (27 cm) Radiopaque Polyurethane Catheter</td>
<td>27</td>
</tr>
<tr>
<td>31</td>
<td>CS-15312-X</td>
<td>Arrow 15 Fr. x 12” (31 cm) Radiopaque Polyurethane Catheter</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>CS-15422-X</td>
<td>Arrow 15 Fr. x 16.5” (42 cm) Radiopaque Polyurethane Catheter</td>
<td>42</td>
</tr>
<tr>
<td></td>
<td>CS-15552-X</td>
<td>Arrow 15 Fr. x 19.7” (55 cm) Radiopaque Polyurethane Catheter</td>
<td>55</td>
</tr>
</tbody>
</table>

### ARROW® NEXTSTEP® RETROGRADE CHRONIC HEMODIALYSIS CATHETER – REPLACEMENT HUBS

<table>
<thead>
<tr>
<th>PRODUCT #</th>
<th>DESCRIPTION</th>
<th>TIP-TO-CUFF INSERTION LENGTH (CM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRH-15192</td>
<td>NextStep Replacement Hub for part# CS-15192-X (Catheter)</td>
<td>19</td>
</tr>
<tr>
<td>NRH-15232</td>
<td>NextStep Replacement Hub for part# CS-15232-X (Catheter)</td>
<td>23</td>
</tr>
<tr>
<td>NRH-15272</td>
<td>NextStep Replacement Hub for part# CS-15272-X (Catheter)</td>
<td>27</td>
</tr>
<tr>
<td>NRH-15312</td>
<td>NextStep Replacement Hub for part# CS-15312-X (Catheter)</td>
<td>31</td>
</tr>
<tr>
<td>NRH-15422</td>
<td>NextStep Replacement Hub for part# CS-15422-X (Catheter)</td>
<td>42</td>
</tr>
<tr>
<td>NRH-15552</td>
<td>NextStep Replacement Hub for part# CS-15552-X (Catheter)</td>
<td>55</td>
</tr>
</tbody>
</table>

### ARROW SIMPLICITY® COLOR-CODED MICRO-PUNCTURE INTRODUCER

<table>
<thead>
<tr>
<th>PRODUCT #</th>
<th>DESCRIPTION</th>
<th>QTY/BOX</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP-04450-AS</td>
<td>Arrow Simplicity® Color-Coded Micro-Puncture Introducer Set</td>
<td>5 EA.</td>
</tr>
</tbody>
</table>

Note: Is not made with natural rubber latex. All Chronic Hemodialysis Catheters sold individually.
Caution: Federal law restricts this device to sale by or on the order of a physician.

---

**Physician’s Signature**
REFERENCES


2. Alcohol, alcohol-based solutions such as ChloraPrep®, iodine-based solutions such as Povidone-iodine, mineral oil-based ointments, hydrogen peroxide or commercially available ExSept Plus® are accepted for use with the Arrow® NextStep® Catheter.

Tegaderm is a registered trademark of 3M Company. ChloraPrep is a registered trademark of Carefusion. ExSept Plus is a registered trademark of Double Diamond Partners, LLC.

Teleflex, Arrow, Arrow Advancer, Arrow Simplicity, NextStep, SharpsAway, and SmartSeal are trademarks or registered trademarks of Teleflex Incorporated or its affiliates.

Teleflex is a global provider of medical products designed to enable healthcare providers to protect against infections and improve patient and provider safety. The company specializes in products and services for vascular access, respiratory, general and regional anesthesia, cardiac care, urology and surgery. Teleflex also provides specialty products for device manufacturers.

© 2013 Teleflex Incorporated. All rights reserved. 2013-2067