
Integrating proven catheter design principles, the patented RetrO* Catheter was developed to improve vascular access and enhance therapy for dialysis patients.

Precise Placement
- Precise tip placement in the right atrium or the junction of the SVC/RA due to retrograde tunnel insertion
- Eliminate sheath dilator with SafeTrac* dual wire insertion technique

Unique Design
- Bench test demonstrated 500 mL/min flow rates on average due to optimally shaped double-round lumen design²
- Bench test demonstrated recirculation of approximately 1% on average in forward and reverse due to split tips with 360° side holes which provide alternate flow paths²
- Customizable extension leg length

Safety and Longevity
- Kink-resistant design – permits catheter to follow tortuous path
- Convenient repair with replaceable extension adapters
- Excellent biocompatibility and patient comfort with radiopaque silicone material

Prior to treatment, physician should discuss with patient the risks and benefits of and alternatives to catheterization (if any).
Featuring SafeTrac® Dual Wire Insertion Technique

The SafeTrac® Dual Wire Insertion Technique eliminates the need for a sheath dilator and reduces the potential risk of air embolism, excess bleeding and vessel trauma due to sheath dilator insertion.

Optimal Flow

Innovative retrograde tunneling permits insertion and precise catheter placement in the right atrium which allows for optimal flow.

Double-0 lumen geometry offers high flow rates and is highly kink resistant.

Flow vs. Pressure Characteristics

The RetrO® Catheter lumenal design provides high flow rates within the K/DOQI pressure guidelines of +/-250 mmHg (Tests were conducted using a glycerin-water mixture with a viscosity simulating blood.)

RetrO* Catheter and SafeTrac* Dual Wire Insertion Technique Combo Kit (Case of 5)

Product Ordering & Specifications:

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Implant Length</th>
<th>Body Length</th>
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<tbody>
<tr>
<td>RS19SH24</td>
<td>19 cm</td>
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<td>RS23SH28</td>
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<tr>
<td>RS50SH55</td>
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</table>

Combo Kits contains: RetrO* Catheter, 18-gauge introducer needle, 12 mL syringe, 2 J/Straight 0.038-inch guidewires, 12 F dilator, 14 F dilator, 16 F dilator, 6 F Sheath/dilator, (2) 5 F SafeTrac* intracatheter dilators, #11 scalpel, tunneler rod, tunneling sheath, 2 injection adapter/tunnelers, attachable suture wings, 4 gauze sponges, wound dressing, 2 injection-sealing caps, 2 extension adapters, and 4 flat clamps.

Physician's Signature

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RetrO* Catheter Accessories

Product Ordering & Specifications:

<table>
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<tr>
<th>Product Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>PRRK5</td>
<td>RetrO* Catheter Repair Kit (Case of 5)</td>
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<tr>
<td></td>
<td>2 extension adapters (one red and one blue), 2 flat clamps, and 2 injection-sealing caps</td>
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<tr>
<td>RT100</td>
<td>RetrO* Catheter Alternative Tunneler</td>
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<td>(sold individually)</td>
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Please consult product labels and inserts for any indications, contraindications, hazards, warnings, cautions and instructions for use.

For more information on the RetrO* Catheter, please contact your Bard Access Systems representative. Call toll-free at 1-800-545-0890, or visit us on the web at www.bardaccess.com.