This is TERUMO Territory.
What challenge will you face today?
Terumo Glide Technology™ hydrophilic coating
- Unique hydrophilic coating has been imitated but never equaled
- Consistent performance gets you there faster

Superb trackability
- Tracks the guidewire to more distal and highly selective destinations, even through tortuous anatomies

Smoothly tracking the guidewire and consistently getting you to the next step in the procedure may:
- Shorten procedure time
- Reduce complications
- Decrease fluoroscopy time
- Lessen sedation

For unsurpassed performance, use the Terumo Glidewire® in combination with the Terumo Glidewire®
- There’s more than one reason that Terumo supplies more than 90% of all hydrophilic coated catheters in the U.S.
TERUMO—a global leader in medical devices

This is TERUMO Territory.™

**Terumo Introducers**
- Pinnacle® Introducer Sheaths
- Pinnacle® Destination® Guiding Sheaths
- Pinnacle® 1/0 0.035 Radiopaque Marker Introducer Sheaths
- Glidewire® Introducer Sheaths
- Glidecath® Access Systems
- GlideAccess™ Systems

**Terumo Guidewires**
- Glidewire® Hydrophilic-Coated Guidewires
- Glidewire® GT Hydrophilic-Coated Guidewires
- Glidewire® Gold Hydrophilic-Coated Guidewires
- Headliner® Neuro Hydrophilic-Coated Guidewires

**Terumo Angiographic Catheters**
- Glidecath® Hydrophilic-Coated Catheters
- Glidecath® XP Hydrophilic-Coated Catheters

**Terumo Microcatheters**
- Progreat™ Hydrophilic Coated Microcatheters
- Progreat™ Coaxial Microcatheter Systems

**Embolics**
- Bead Block™ Compressible Microspheres

**Terumo Accessories**
- Torque Device
- Obturators

For more information, call 800.862.4143 to speak to a Customer Care Representative, or visit www.terumomedical.com/interventional

Terumo Interventional Systems  •  201 Cottontail Lane  •  Somerville, NJ 08873  •  Fax: 800.411.5870

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TERUMO—a global leader in medical devices
Terumo Glidecath 4 Fr

Unprecedented smoothness and access to small peripheral vessels

- Large lumen (0.038” wire compatible) and small profile (4 Fr) is ideal for:
  - use as a guiding catheter for microcatheters, such as Progreat™ Microcatheters
  - diagnostic procedures that require high flow rates
  - Flexible construction for excellent trackability and navigation of even the most tortuous anatomies

Polyurethane jacket
- For improved flexibility

Double-braided stainless steel (32 strands)
- Provides excellent torque control

Nylon-rich inner layer
- Allows smooth passage of therapeutic and embolic materials
- Enhances trackability over the guidewire

Terumo Glide Technology™ hydrophilic coating on distal 15 cm
- Unique hydrophilic coating has been imitated but never equaled
- Enables smooth navigation and more efficient handling

Glidecath and Glidewire® together — unsurpassed performance
# Hydrophilic Coated Catheters

## Terumo Glidecath 4 Fr

Hydrophilic Coated Catheters
0.038” guidewire compatible and packed 5 per box.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Catheter Size (Fr)</th>
<th>Total Length (cm)</th>
<th>Flow Rate* (mL/sec)</th>
<th>Hydrophilic Coating Length (cm)</th>
<th>Tip Shape</th>
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<td>15</td>
<td>Angle</td>
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</tbody>
</table>

*All measurements taken at 750 psi and 37°C using Renografin® 76.
**Terumo Glidecath 5 Fr**

No other catheter tracks over a guidewire like a Terumo Glidecath

- Softer construction for superb trackability and navigation of even the most tortuous vessels

**Tapered tip**

- Smoother transition between the guidewire and Glidecath enhances trackability

**Soft**er construction

- Single-braided stainless steel (16 strands) for even better trackability

**Polyurethane jacket**

- For improved flexibility

**Terumo Glide Technology™**

hydrophilic coating on distal portion

- Unique hydrophilic coating has been imitated but never equaled
- Enables smooth navigation and more efficient handling

Glidecath and Glidewire® together — unsurpassed performance

*Compared to the Terumo Glidecath 4 Fr and Glidecath XP
# Hydrophilic Coated Catheters

**Terumo Glidecath 5 Fr**

Hydrophilic Coated Catheters

0.038" guidewire compatible and packed 5 per box.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Catheter Size (Fr)</th>
<th>Total Length (in)</th>
<th>Flow Rate* (mL/sec)</th>
<th>Hydrophilic Coating Length (cm)</th>
<th>Tip Shape</th>
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<td>Straight Taper</td>
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<td>CG509</td>
<td>5</td>
<td>100</td>
<td>18</td>
<td>40</td>
<td>MP</td>
</tr>
</tbody>
</table>

*5 Fr- All measurements taken at 1000 psi and 37°C using Renografin® 76.
Terumo Glidecath® XP 5 Fr

Durability that goes the distance

- Maintains its integrity during long procedures
- Large lumen (0.038” wire compatible) is ideal for:
  - use as a guiding catheter for microcatheters, such as Progreat™ Microcatheters
  - diagnostic procedures that require high flow rates

Double-braided stainless steel (32 strands)
- Provides excellent “pushability” and torque control

Nylon-rich inner layer
- Allows smooth passage of therapeutic and embolic materials
- Enhances trackability over the guidewire

Polyurethane jacket
- For improved flexibility

Terumo Glide Technology™ hydrophilic coating on distal 15 cm
- Unique hydrophilic coating has been imitated but never equaled
- Enables smooth navigation and more efficient handling

Glidecath and Glidewire® together — unsurpassed performance
# Hydrophilic Coated Catheters

**Terumo Glidecath® XP 5 Fr**

**Hydrophilic Coated Catheters**

0.038” guidewire compatible and packed 5 per box.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Catheter Size (Fr)</th>
<th>Flow Rate* (mL/sec)</th>
<th>Total Length (cm)</th>
<th>Hydrophilic Coating Length (cm)</th>
<th>Tip Shape</th>
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</thead>
<tbody>
<tr>
<td>RF*ZM7510GM</td>
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<td>24</td>
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<td>RF*WB15110M</td>
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<td>21</td>
<td>100</td>
<td>15</td>
<td>H1</td>
</tr>
</tbody>
</table>

*All measurements taken at 1000 psi and 37°C using Renografin® 76.
Terumo Progreat™ Microcatheters

Reliable performance that gets you there

Terumo Progreat Ω Hydrophilic Coated Microcatheters

Unique kink-resistant tungsten coil layer
- Exceptional trackability and vessel access
- Maintains lumen integrity, easing microcatheter advancement and enhancing flow
- Delivers proximal support and distal flexibility for negotiating tortuous anatomy

Shapeable tip
- Designed to conform to specific anatomies
- Facilitates navigation

Platinum marker
- Clearly indicates distal tip

Terumo Glide Technology™ hydrophilic coating
- Unmatched lubricity consistently gets you where you need to go

Dual radiopaque features promote total visibility
- Tungsten coil provides radiopacity over the entire length of the catheter
- Tightening of coil pitch at distal tip enhances radiopacity

Inner Surface Sliding Resistance

Large lumen and PTFE inner layer for virtually frictionless delivery
- Allows higher flow rates and smooth passage of coils, microspheres, PVA particles, and other therapeutic agents
- Eases advancement over the guidewire


Progreat Microcatheters require 3 times less tracking force than Renegade® Hi-Flo.¹
Hydrophilic Coated Microcatheters

### Terumo Progreat ™

**Microcatheters with R/O Marker Band**

One Progreat Microcatheter in specified size, one hemostatic valve and one shaping mandrel.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Total Length (cm)</th>
<th>Outer Diameter Distal (Fr) (mm)</th>
<th>Outer Diameter Proximal (Fr) (mm)</th>
<th>Inner Diameter Distal (in) (mm)</th>
<th>Inner Diameter Proximal (in) (mm)</th>
<th>Flexible Tip Length (cm) (in)</th>
<th>Max GW Pressure (psi)</th>
<th>Coating Length (cm)</th>
<th>Flow Rate † (mL/sec)</th>
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</thead>
<tbody>
<tr>
<td>MC*PB2811Y</td>
<td>110</td>
<td>2.8</td>
<td>0.93</td>
<td>3.0</td>
<td>1.00</td>
<td>0.027</td>
<td>0.70</td>
<td>17</td>
<td>0.021</td>
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<td>MC*PB2813Y</td>
<td>130</td>
<td>2.8</td>
<td>0.93</td>
<td>3.0</td>
<td>1.00</td>
<td>0.027</td>
<td>0.70</td>
<td>17</td>
<td>0.021</td>
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</tbody>
</table>

Progreat ™ ℰ Microcatheters have a 0.7 mm platinum marker band.

†Flow rates taken at 900 psi and 37°C using Isovue 300.

### Terumo Progreat ™

**Microcatheters**

One Progreat Microcatheter in specified size, one hemostatic valve and one shaping mandrel.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Total Length (cm)</th>
<th>Outer Diameter Distal (Fr) (mm)</th>
<th>Outer Diameter Proximal (Fr) (mm)</th>
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<th>Flexible Tip Length (cm) (in)</th>
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<th>Flow Rate † (mL/sec)</th>
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<tr>
<td>MC*PC2713Y</td>
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<td>2.7</td>
<td>0.90</td>
<td>2.9</td>
<td>0.97</td>
<td>0.025</td>
<td>0.65</td>
<td>17</td>
<td>0.021</td>
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</tbody>
</table>

†Flow rates taken at 750 psi and 37°C using Isovue 300.
Terumo Progreat™ Coaxial Microcatheter Systems

The reliable performance of two premier devices integrated for greater procedural efficiency

- Terumo Glidewire® GT—the “Gold Standard” in guidewires
- Terumo Progreat Microcatheter—reliable performance that gets you there

Enhanced procedural efficiency
- The Progreat Microcatheter is pre-loaded with the Terumo Glidewire GT
- Enables simultaneous flushing of Glidewire GT and Progreat Microcatheter lumen
- Glidewire hub can be used as a torque device
- Eliminates excess wire for easier manipulation

Tracks wire and microcatheter simultaneously
- Reduces risk of procedural problems, such as vasospasm and kinking, and may shorten procedure time

Resists kinking
- Glidewire GT’s nitinol core and Progreat’s unique tungsten coil layer help maintain device and lumen integrity

30 mm gold coil
- Optimal visibility of the Glidewire GT tip

Terumo Glide Technology™ hydrophilic coating
- Unmatched lubricity consistently gets you where you need to go

Exceptional tracking to target vessel or lesion
- 0.021” Glidewire GT provides a smoother transition between the wire and microcatheter and better proximal support of the system*
- Glidewire GT features a 42 cm distal taper for enhanced tip flexibility and a 45° reshapeable tip
- The variable pitch of the Progreat Microcatheter’s tungsten coil delivers proximal support and distal flexibility

Wire stopper controls the length of the wire protruding from the microcatheter

*Based on comparison with 0.018” guidewire
# Coaxial Microcatheter Systems

**Terumo Progreat™**

**Coaxial Microcatheter Systems with R/O Marker Band**

Each system includes one Progreat Microcatheter in specified size, one Glidewire® GT 0.021” core guidewire, one wire stopper, one guidewire introducer, one hemostatic valve, one 2.5 mL syringe and one shaping mandrel.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Total Length (cm)</th>
<th>Outer Diameter Distal (mm)</th>
<th>Proximal (mm)</th>
<th>Inner Diameter (Fr)</th>
<th>Flexible Tip (mm)</th>
<th>Max GW (in)</th>
<th>Max Pressure (psi)</th>
<th>Coating Length (cm)</th>
<th>Flow Rate † (mL/sec)</th>
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</table>

†Flow rates taken at 900 psi and 37°C using Isovue 300.

Progreat Coaxial Microcatheters have a 0.7 mm platinum marker band.

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**Coaxial Microcatheter Systems**

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<td>0.021</td>
<td>750</td>
<td>70</td>
<td>3.2</td>
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†Flow rates taken at 750 psi and 37°C using Isovue 300.

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For more information, call 800.862.4143 to speak to a Customer Care Representative, or visit www.terumomedical.com/interventional
The diagnostic arteriogram from a 66-year-old white woman was obtained from a left brachial approach and showed an occlusion of the infrarenal aorta immediately inferior to the renal arteries to the level of the inferior mesenteric artery (IMA). The celiac and superior mesenteric arteries (SMA) were widely patent, with the SMA filling the IMA. The IMA then filled the distal aorta and lower extremities. Both the common, internal, and external iliac arteries were quite small but patent, along with the common, profunda, and superficial femoral arteries. A Doppler Smart needle (Escalon Vascular Access, New Berlin, WI) was used to cannulate the common femoral artery (CFA) and a 5 Fr sheath (Terumo Medical Corporation) was introduced. A 0.035” Wholey wire (Mallinckrodt, Hazelwood, MO) was utilized initially to traverse the aortic occlusion. Because the Wholey wire can traverse “new” clot well and “old” clot poorly, this maneuver discriminates “old” versus “new” occlusions. After several failed attempts, it was apparent that the occlusion was older than anticipated based on the history. A combination of a 5 Fr, angled, Glidcath (Terumo Medical Corporation) and a 0.035” Glidewire (Terumo Medical Corporation) was used, and the wire and catheter reached the descending thoracic aorta.”

— Jason S. Carlson, RT
Bruce H. Gray, DO

“When using the 5 Fr version in a variety of shapes it is very torqueable, directional, and extremely visible.”

“The Glidecath XP has tremendous stability; it stays put during embolization cases and prolonged interventions. I can pass stainless steel coils through the lumen without fear of being kicked out. When using the 5 Fr version in a variety of shapes it is very torqueable, directional, and extremely visible. Coils, particles, and coaxial catheter systems flow transparently through this design. Where it once took extreme training and skill to perform complex embolization procedures—GI bleeders, pelvic embolizations, extremity, splenic, hepatic embolizations or distal cannulations—it is now simply and easily accomplished with the trackability and maneuverability of this device.”

— Dr. Gary Cohen
Interventional Radiologist
“The catheter is highly stable, with no need for replacement even during prolonged procedures. I enjoy the rapid deployment...”

“There is only one catheter on the market that fits my criteria: the Progreat Coaxial System. This system has replaced all other microcatheters in my IR. I use it in a wide assortment of cases, but most commonly for embolizations. In chemoembolizations it easily gains entry to the distal tumor vascularity, is highly visible, and delivers my cocktail of chemotherapeutic agents, together with particulates and ethiodol, without fear of occlusion.”

“The catheter is highly stable, with no need for replacement, even during prolonged procedures. I enjoy the rapid deployment, so that I can be the sole operator without assistants. The catheter is simply flushed with the pre-inserted Glidewire and I can begin. There is no need for tedious and cumbersome insertion of a separate long wire guide into this catheter before insertion.”

“If the included Glidewire* does not allow cannulation of difficult uterine arteries or vessels, an exchange for the Glidewire GT (with double curve) is all that is necessary to complete my cannulation and complete my case. The 10 cm extension of wire allows enough length to advance the wire into the target vessel and give stability to advance the Progreat microcatheter. This is a great improvement over competitive products and a tremendous advance for patient care.”

— Dr. Gary Cohen
Interventional Radiologist

*The Progreat™ Coaxial Microcatheter System is pre-loaded with the Terumo Glidewire® GT (shapeable tip).