

DIREXION™ • **RENEGADE™** • **TRUSELECT™** • **FATHOM™**

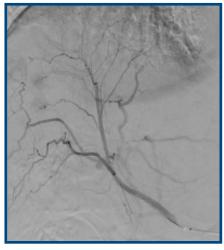
MICROCATHETERS AND GUIDEWIRES



DIREXION[™] and DIREXION HI-FLO[™] Torqueable Microcatheters

DIREXION AND DIREXION HI-FLO

- Slotted nitinol hypotube maximizes torque transmission in the catheter shaft allowing repositioning without a wire
- Braided liner allows power injections up to 1200 PSI enabling higher flow rates and improved imaging
- Available in a variety of tip shapes and pre-loaded systems with Fathom Guidewire
- Radial lengths up to 155 cm, including pre-loaded system with 200 cm Fathom Guidewire



0.021" ID, 4.0ML/S @ 1200 PSI



Diverse tip shapes facilitate access to challenging treatment sites









RENEGADE[™] Microcatheters

RENEGADE™ HI-FLO™ MICROCATHETER

- Designed for balance of pushability and flexibility
- Metal and fiber braided layer provides excellent visualization without compromising kink resistance
- Available in a pre-loaded system with Fathom[™]-16 Guidewire or in a Kit with Transend[™]-18 Guidewire



RENEGADE™ STC 18 MICROCATHETER

- Designed specifically for 0.018" coil deployment
- 1,000 PSI burst pressure rating provides excellent flow rates
- Angled and straight tip shapes with 20 and 30 cm distal tip length options, providing the ability to customize for individual performance preference



RENEGADE™ FIBER BRAIDED MICROCATHETER

- VORTEC[™] fiber braided material intended to provide ultra soft atraumatic flexibility
- Compatible with 0.018" coils, up to 700 micron spherical particles, and up to 500 micron non-spherical particles
- 300 PSI rated burst pressure



TRUSELECTTM

The unique 2.0 F microcatheter with a 0.021" inner diameter lets you go further, without sacrificing the superior flow rates and embolic compatibility you need



HIGHER FLOW RATES

TruSelect provides flow rates comparable to conventional 2.4 F microcatheters, maintaining visualization even in small distal anatomy



MORE EMBLOIC COMPATIBILITY

TruSelect is compatible with all 0.018" coils, spherical embolics up to 700 μm and Y-90 products, including TheraSphere[™]



EXTENDED RADIAL LENGTHS

TruSelect introduces the first ever 175 cm length microcatheter, ideal for radial access



ENHANCED TRACKABILITY

TruSelect is designed with a balance of pushability and flexibility for tracking through tortuous anatomy

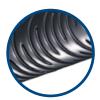


FATHOM™ and **TRANSEND™** Steerable Guidewires

Platinum/tungsten alloy coil tip provides exceptional radiopacity

> Inner stainless steel core wire for shapeability





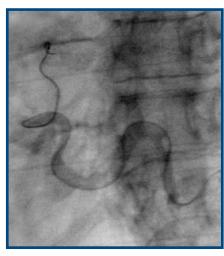
Hydrophilic coating on distal segment for smooth tracking within vessels



Laser-cut Nitinol maximizes torque transmission



Alternating pattern of microscopic channels designed to provide outstanding flexibility



AVAILABLE IN BOTH 0.014" AND 0.016" PLATFORMS AND LENGTH OPTIONS UP TO 300 CM

TRANSEND GUIDEWIRE

- Shapeable Tungsten tip enables physicians to customize guidewire tips
- Engineered to provide torque control and flexibility
- Available in both 0.014" and 0.018" platforms

DIREXION MAND DIREXION HI-FLO

Torqueable Microcatheter Family

| Direxion Microcatheter | | | | | | | | | | |
|------------------------|-----------------|--------------------------|---------------------------------|--------------|--------------|---------------|--|--|--|--|
| UPN | Order Number | Usable Length (cm) | Proximal/ Distal O.D. (F) | I.D. (in) | Tip Shape | RO Markers | | | | |
| M001195200 | 19-520 | 105 | 2.7/2.4 | 0.021 | Straight | 1 | | | | |
| M001195210 | 19-521 | 130 | 2.7/2.4 | 0.021 | Straight | 1 | | | | |
| M001195220 | 19-522 | 155 | 2.7/2.4 | 0.021 | Straight | 1 | | | | |
| M001195230 | 19-523 | 105 | 2.7/2.4 | 0.021 | Bern | 1 | | | | |
| M001195240 | 19-524 | 130 | 2.7/2.4 | 0.021 | Bern | 1 | | | | |
| M001195250 | 19-525 | 155 | 2.7/2.4 | 0.021 | Bern | 1 | | | | |
| M001195260 | 19-526 | 105 | 2.7/2.4 | 0.021 | J | 1 | | | | |
| M001195270 | 19-527 | 130 | 2.7/2.4 | 0.021 | J | 1 | | | | |
| M001195280 | 19-528 | 155 | 2.7/2.4 | 0.021 | J | 1 | | | | |
| M001195290 | 19-529 | 105 | 2.7/2.4 | 0.021 | Swan | 1 | | | | |
| M001195300 | 19-530 | 130 | 2.7/2.4 | 0.021 | Swan | 1 | | | | |
| M001195310 | 19-531 | 155 | 2.7/2.4 | 0.021 | Swan | 1 | | | | |
| M001195320 | 19-532 | 130 | 2.7/2.4 | 0.021 | Straight | 2 | | | | |
| M001195330 | 19-533 | 155 | 2.7/2.4 | 0.021 | Straight | 2 | | | | |
| M001195340 | 19-534 | 130 | 2.7/2.4 | 0.021 | Bern | 2 | | | | |
| M001195350 | 19-535 | 155 | 2.7/2.4 | 0.021 | Bern | 2 | | | | |

| Direxion HI-FLO Microcatheter | | | | | | | | | | |
|-------------------------------|-----------------|--------------------------|---------------------------------|--------------|--------------|---------------|--|--|--|--|
| UPN | Order Number | Usable Length (cm) | Proximal/ Distal O.D. (F) | I.D. (in) | Tip Shape | RO Markers | | | | |
| M001195400 | 19-540 | 105 | 3.0/2.8 | 0.027 | Straight | 1 | | | | |
| M001195410 | 19-541 | 130 | 3.0/2.8 | 0.027 | Straight | 1 | | | | |
| M001195420 | 19-542 | 155 | 3.0/2.8 | 0.027 | Straight | 1 | | | | |
| M001195430 | 19-543 | 105 | 3.0/2.8 | 0.027 | Bern | 1 | | | | |
| M001195440 | 19-544 | 130 | 3.0/2.8 | 0.027 | Bern | 1 | | | | |
| M001195450 | 19-545 | 155 | 3.0/2.8 | 0.027 | Bern | 1 | | | | |
| M001195470 | 19-547 | 130 | 3.0/2.8 | 0.027 | J | 1 | | | | |
| M001195480 | 19-548 | 155 | 3.0/2.8 | 0.027 | J | 1 | | | | |
| M001195500 | 19-550 | 130 | 3.0/2.8 | 0.027 | Swan | 1 | | | | |
| M001195510 | 19-551 | 155 | 3.0/2.8 | 0.027 | Swan | 1 | | | | |

$\textbf{DIREXION}^{\text{\tiny{TM}}}$

Microcatheters Systems and Kits

| Direxion Microcat | Direxion Microcatheter Pre-Loaded System with Fathom™-16 Guidewire | | | | | | | | | |
|-------------------|--|-----------------------------------|-----------------------|-----------------------------|--|--|--|--|--|--|
| UPN | Order Number | Direxion Usable Length (cm) | Direxion Tip Shape | Guidewire Length (cm) | | | | | | |
| M001195610 | 19-561 | 130 | Straight | 180 | | | | | | |
| M001195620 | 19-562 | 155 | Straight | 180 | | | | | | |
| M001195640 | 19-564 | 130 | Bern | 180 | | | | | | |
| M001195650 | 19-565 | 155 | Bern | 180 | | | | | | |
| M001195660 | 19-566 | 130 | Straight (2RO) | 180 | | | | | | |
| M001195670 | 19-567 | 130 | Bern (2RO) | 180 | | | | | | |
| M001195980* | 19-598 | 155 | Straight | 200 | | | | | | |
| M001195990* | 19-599 | 155 | Bern | 200 | | | | | | |

| Direxion HI-FLO Microcatheter Pre-Loaded System with Fathom-16 Guidewire | | | | | | | | | |
|--|-----------------|-----------------------------------|-----------------------|-----------------------------|--|--|--|--|--|
| UPN | Order Number | Direxion Usable Length (cm) | Direxion Tip Shape | Guidewire Length (cm) | | | | | |
| M001195710 | 19-571 | 130 | Straight | 180 | | | | | |
| M001195720 | 19-572 | 155 | Straight | 180 | | | | | |
| M001195740 | 19-574 | 130 | Bern | 180 | | | | | |
| M001195750 | 19-575 | 155 | Bern | 180 | | | | | |
| M001195960* | 19-596 | 155 | Straight | 200 | | | | | |
| M001195970* | 19-597 | 155 | Bern | 200 | | | | | |
| Direxion Microcat | heter Pre-Loa | aded System wi | th Transend™-14 | 4 Guidewire | | | | | |
| M001195810 | 19-581 | 130 | Straight | 165 | | | | | |
| M001195840 | 19-584 | 130 | Bern | 165 | | | | | |
| M001195850 | 19-585 | 155 | Bern | 190 | | | | | |
| Direxion HI-FLO M | icrocatheter | Pre-Loaded Syst | tem with Transe | nd-18 Guidewire | | | | | |
| M001195910 | 19-591 | 130 | Straight | 165 | | | | | |
| M001195940 | 19-594 | 130 | Bern | 165 | | | | | |

*New radial length pre-loaded system

All Direxion and Direxion HI-FLO Torqueable Microcatheters are compatible with most chemotherapy agents, alcohol, and DMSO. All Direxion and Direxion HI-FLO Torqueable Microcatheters have dynamic burst pressures of 1200 PSI.

RENEGADE[™] **AND RENEGADE**[™] **HI-FLO**[™] Microcatheter Family

| Renegad | Renegade Fiber Braided Microcatheters | | | | | | | | | | |
|---------|---------------------------------------|-----------------|--------------------------|---------------------------------|--------------|------------------------------|--|--|--|--|--|
| UPN | | Order Number | Usable Length (cm) | Proximal/ Distal O.D. (F) | I.D. (in) | Distal Tip Length (cm) | | | | | |
| M001182 | 2510 | 18-251 | 150 | 3.0/2.5 | 0.021 | 10 | | | | | |
| M001182 | 520 | 18-252 | 130 | 3.0/2.5 | 0.021 | 20 | | | | | |
| M001182 | 530 | 18-253 | 150 | 3.0/2.5 | 0.021 | 20 | | | | | |

Renegade STC 18 Microcatheters

| UPN | Order Number | Usable Length (cm) | Proximal/ Distal O.D. (F) | I.D. (in) | Distal Tip Length (in) | Tip Shape |
|------------|-----------------|--------------------------|---------------------------------|--------------|------------------------------|--------------|
| M001181250 | 18-125 | 105 | 3.0/2.4 | 0.021 | 20 | Straight |
| M001181260 | 18-126 | 105 | 3.0/2.4 | 0.021 | 30 | Straight |
| M001181270 | 18-127 | 105 | 3.0/2.4 | 0.021 | 20 | Angled |
| M001181280 | 18-128 | 105 | 3.0/2.4 | 0.021 | 30 | Angled |
| M001181310 | 18-131 | 130 | 3.0/2.4 | 0.021 | 20 | Straight |
| M001181320 | 18-132 | 130 | 3.0/2.4 | 0.021 | 30 | Straight |
| M001181330 | 18-133 | 130 | 3.0/2.4 | 0.021 | 20 | Angled |
| M001181340 | 18-134 | 130 | 3.0/2.4 | 0.021 | 30 | Angled |
| M001181370 | 18-137 | 150 | 3.0/2.4 | 0.021 | 20 | Straight |
| M001181380 | 18-138 | 150 | 3.0/2.4 | 0.021 | 30 | Straight |
| M001181390 | 18-139 | 150 | 3.0/2.4 | 0.021 | 20 | Angled |
| M001181400 | 18-140 | 150 | 3.0/2.4 | 0.021 | 30 | Angled |

RENEGADE™ AND RENEGADE HI-FLO™

Microcatheter Family

| Renegade HI-FLO Microcatheters | | | | | | | | | | |
|--------------------------------|-----------------|--------------------------|---------------------------------|--------------|------------------------------|--|--|--|--|--|
| UPN | Order Number | Usable Length (cm) | Proximal/ Distal O.D. (F) | I.D. (in) | Distal Tip Length (cm) | | | | | |
| M001182840 | 18-284 | 105/10 | 3.0/2.8 | .027 | 10 | | | | | |
| M001182850 | 18-285 | 105/20 | 3.0/2.8 | .027 | 20 | | | | | |
| M001182860 | 18-286 | 115/10 | 3.0/2.8 | .027 | 10 | | | | | |
| M001182870 | 18-287 | 115/20 | 3.0/2.8 | .027 | 20 | | | | | |
| M001182880 | 18-288 | 135/10 | 3.0/2.8 | .027 | 10 | | | | | |
| M001182890 | 18-289 | 135/20 | 3.0/2.8 | .027 | 20 | | | | | |
| M001182900 | 18-290 | 150/80 | 3.0/2.8 | .027 | 10 | | | | | |
| M001182910 | 18-291 | 150/80 | 3.0/2.8 | .027 | 20 | | | | | |

RENEGADE™

Microcatheters Systems and Kits

| Renegade HI-FLO Microcatheter Pre-Loaded System with Fathom™-16 Guidewire | | | | | | | | | | |
|---|-----------------|--|--|-----------------------------|--|--|--|--|--|--|
| UPN | Order Number | Microcatheter Usable Length (cm) | Microcatheter Distal Tip Length (cm) | Guidewire Length (cm) | | | | | | |
| M001184500 | 18-450 | 105 | 10 | 140 | | | | | | |
| M001184510 | 18-451 | 105 | 20 | 140 | | | | | | |
| M001184520 | 18-452 | 115 | 10 | 140 | | | | | | |
| M001184530 | 18-453 | 115 | 20 | 140 | | | | | | |
| M001184540 | 18-454 | 135 | 10 | 180 | | | | | | |
| M001184550 | 18-455 | 135 | 20 | 180 | | | | | | |
| M001184560 | 18-456 | 150 | 10 | 180 | | | | | | |
| M001184570 | 18-457 | 150 | 20 | 180 | | | | | | |

| Renegade HI-FLO Transend™ Kits with Transend-18 Guidewires | | | | | | | | | | |
|--|-----------------|--|--|-----------------------------|--|--|--|--|--|--|
| UPN | Order Number | Microcatheter Usable Length (cm) | Microcatheter Distal Tip Length (cm) | Guidewire Length (cm) | | | | | | |
| M001182980 | 18-298 | 105 | 10 | 135 | | | | | | |
| M001182990 | 18-299 | 105 | 20 | 135 | | | | | | |
| M001183000 | 18-300 | 115 | 10 | 135 | | | | | | |
| M001183010 | 18-301 | 115 | 20 | 135 | | | | | | |
| M001183020 | 18-302 | 135 | 10 | 165 | | | | | | |
| M001183030 | 18-303 | 135 | 20 | 165 | | | | | | |

TruSelect[™] Microcatheters

| TruSelect Microcatheters | | | | | | | | | | |
|--------------------------|--------------------------|---------------------------------|--------------|------------------------------|--------------|--|--|--|--|--|
| UPN | Usable Length (cm) | Proximal/ Distal O.D. (F) | I.D. (in) | Distal Tip Length (in) | Tip Shape | | | | | |
| M001394101050 | 105 | 2.8/2.0 | 0.021 | 30 | Straight | | | | | |
| M001394111050 | 105 | 2.8/2.0 | 0.021 | 30 | Bern | | | | | |
| M001394101300 | 130 | 2.8/2.0 | 0.021 | 30 | Straight | | | | | |
| M001394111300 | 130 | 2.8/2.0 | 0.021 | 30 | Bern | | | | | |
| M001394101550 | 155 | 2.8/2.0 | 0.021 | 30 | Straight | | | | | |
| M001394111550 | 155 | 2.8/2.0 | 0.021 | 30 | Bern | | | | | |
| M001394101750 | 175 | 2.8/2.0 | 0.021 | 30 | Straight | | | | | |
| M001394111750 | 175 | 2.8/2.0 | 0.021 | 30 | Bern | | | | | |

FATHOM™

Steerable Guidewires

| Fathom-16 Steerable Guidewires | | | | | | | | | | |
|--------------------------------|-----------------|-------------------------|-------------------------------|-------------------------------------|--------------|--------------|--|--|--|--|
| UPN | Order Number | Total Length (cm) | Nitinol Tip Length (cm) | Distal Floppy Tip Length (cm) | O.D. (in) | Tip Shape | | | | |
| M001509000 | 50-900 | 140 | 25 | 10 | 0.016 | Straight | | | | |
| M001509010 | 50-901 | 140 | 35 | 20 | 0.016 | Straight | | | | |
| M001509100 | 50-910 | 180 | 25 | 10 | 0.016 | Straight | | | | |
| M001509110 | 50-911 | 180 | 35 | 20 | 0.016 | Straight | | | | |
| M001509120 | 50-912 | 180 | 25 | 10 | 0.016 | Angled | | | | |
| M001509200 | 50-920 | 200 | 25 | 10 | 0.016 | Straight | | | | |
| M001509210 | 50-921 | 200 | 25 | 10 | 0.016 | Angled | | | | |
| M001509300 | 50-930 | 215 | 25 | 10 | 0.016 | Straight | | | | |
| M001509310 | 50-931 | 215 | 25 | 10 | 0.016 | Angled | | | | |
| Fathom-14 Stee | rable Guide | ewires | | | | | | | | |
| M001508100 | 50-810 | 200 | 35 | 10 | 0.014 | Straight | | | | |
| M001508110 | 50-811 | 200 | 35 | 10 | 0.014 | Angled | | | | |
| M001508140 | 50-814 | 300 | 35 | 10 | 0.014 | Straight | | | | |
| M001508150 | 50-815 | 300 | 35 | 10 | 0.014 | Angled | | | | |

$\textbf{TRANSEND}^{\text{\tiny{TM}}}$

Steerable Guidewires

| Transend-14 Stee | Transend-14 Steerable Guidewires | | | | | | | | | | |
|------------------|----------------------------------|-------------------------|-----------------------------------|----------------------------------|----------------------------------|--|--|--|--|--|--|
| UPN | Order Number | Total Length (cm) | Shapeable Total Length (cm) | Proximal/ Distal O.D. (in) | Proximal/ Distal O.D. (in) | | | | | | |
| M001468100 | 46-810 | 135 | 2 | 0.014 | 0.014 | | | | | | |
| M001468110 | 46-811 | 165 | 2 | 0.014 | 0.014 | | | | | | |
| M001468010 | 46-801 | 190 | 2 | 0.014 | 0.014 | | | | | | |
| Transend-18 Stee | Transend-18 Steerable Guidewires | | | | | | | | | | |
| M001468120 | 46-812 | 135 | 2 | 0.018 | 0.018 | | | | | | |
| M001468130 | 46-813 | 165 | 2 | 0.018 | 0.018 | | | | | | |

DIREXION™ AND DIREXION HI-FLO™ TORQUEABLE MICROCATHETERS

CAUTION: Federal law (USA) restricts this device to sale by or on the order of a physician. Rx only. Prior to use, please see the complete "Directions for Use" for more information on Indications, Contraindications, Warnings, Precautions, Adverse Events, and Operator's Instructions. INTENDED USE/INDICATIONS FOR USE: The Direxion and Direxion HI-FLO Torqueable Microcatheters are intended for peripheral vascular use. The pre-loaded Fathom and Transend Guidewires can be used to selectively introduce and position the microcatheter in the peripheral vasculature. The microcatheter can be used for controlled and selective infusion of diagnostic, embolic, or therapeutic materials into the vessel, CONTRAINDICATIONS: None known. WARNINGS: • Never advance or withdraw an intravascular device against resistance until the cause of resistance is determined by fluoroscopy. Movement of the microcatheter or guidewire against resistance may result in damage or separation of the microcatheter or guidewire tip, or vessel perforation. • This Direxion Microcatheter family is not intended for use in the coronary vasculature or neurovasculature. • The Direxion HI-FLO Microcatheter is not designed for the delivery of embolic coils. • Use of excessive force to manipulate the microcatheter against resistance can cause a fracture in the nitinol shaft. Take care not to over-torque the microcatheter, and to relieve any tension before withdrawal by rotating the microcatheter in the opposite direction. PRECAUTIONS: • This device should be used only by physicians thoroughly trained in percutaneous, intravascular techniques and procedures. • Do not introduce the microcatheter without guidewire support as this may cause damage to the proximal shaft of the catheter.

Because the microcatheter may be advanced into narrow sub-selective vasculature, repeatedly assure that the microcatheter has not been advanced so far as to interfere with its removal. **ADVERSE EVENTS:** The Adverse Events include, but are not limited to: • Allergic reaction • Death • Embolism • Hemorrhage/Hematoma • Infection • Pseudoaneurysm • Stroke Vascular thrombosis
 Vessel occlusion
 Vessel spasm
 Vessel trauma (dissection, perforation, rupture)

FATHOM-14 STEERABLE GUIDEWIRE

90960724 Rev/Ver AB.6

CAUTION: Federal law (USA) restricts this device to sale by or on the order of a physician. Rx only. Prior to use, please see the complete "Directions for Use" for more information on Indications, Contraindications, Warnings, Precautions, Adverse Events, and Operator's Instructions. INTENDED USE/INDICATIONS FOR USE: The FATHOM-14 Steerable Guidewire is intended for general intravascular use in the peripheral vasculature. It can be used to selectively introduce and position catheters and other interventional devices within the peripheral asculature. This device should be used only by physicians trained in percutaneous, intravasculature and procedures. CONTRAINDICATIONS: None known. WARNINGS: The FATHOM Steerable Guidewire is not intended for use in the coronary vasculature or the neuro vasculature. ADVERSE EVENTS: Complications attributed to endovascular procedures are the following: • Vessel trauma • Vessel damage • Embolism (catheter/device, air bubble, plaque, thrombus, air embolism, thromboembolism) • Pseudoaneurysm • Seizure/stroke • Vessel dissection • Hematoma at the puncture site • Nerve injury • Infection • Perforation of the vessel • Vessel spasm • Hemorrhage • Vascular thrombosis • Vessel occlusion • Death • Bleeding • Failed treatment • Inability to position guidewire • Damage to the catheter. 92289647 Rev/Ver A.1

FATHOM-16 STEERABLE GUIDEWIRE

CAUTION: Federal law (USA) restricts this device to sale by or on the order of a physician. Rx only. Prior to use, please see the complete "Directions for Use" for more information on Indications, Contraindications, Warnings, Precautions, Adverse Events, and Operator's Instructions, INTENDED USE/INDICATIONS FOR USE: The FREADUNIS, AUGUSTICS EVENTS, and operator's instructions in translated user in the peripheral vasculature. It can be used to selectively introduce and position catheters and other interventional devices within the peripheral vasculature. This device should be used only by physicians trained in percutaneous, intravascular techniques and procedures. CONTRAINDICATIONS: None known. WARNINGS: The FATHOM Steerable Guidewire is not intended for use in the coronary vasculature or the neuro vasculature. ADVERSE EVENTS: Complications attributed to endovascular procedures are the following: • Vessel trauma • Vessel damage • Embolism (catheter/device, air bubble, plaque, thrombus, air embolism, thromboembolism) • Pseudoaneurysm • Seizure/stroke • Vessel dissection • Hematoma at the puncture site • Nerve injury • Infection • Perforation of the vessel • Vessel spasm • Hemorrhage • Vascular thrombosis • Vessel occlusion • Death • Bleeding • Failed treatment • Inability to position guidewire • Damage to the catheter 92289650 Rev/Ver A.1

RENEGADE FIBER BRAIDED MICROCATHETER and RENEGADE HI-FLO MICROCATHETER

CAUTION: Federal law (USA) restricts this device to sale by or on the order of a physician. Rx only. Prior to use, please see the complete "Directions for Use" for more information on Indications, Contraindications, use, please see the Complete Unificions to use for information of indications, containfocations, Warnings, Precautions, Adverse Events, and Operator's Instructions. INTENDED USE/INDICATIONS FOR USE: The Renegade STC 18 Microcatheter, Renegade Fiber Braided Microcatheter, and the Renegade HI-FLO Microcatheter are intended for peripheral vascular use. The microcatheter can be coaxially tracked over a steerable quidewire in order to access distal, tortuous vasculature. Once the subselective region has been accessed, the microcatheter can be used for the controlled and selective infusion of diagnostic, embolic, or therapeutic materials into vessels. Diagnostic, embolic, therapeutic agents to be used in accordance with specifications outlined by the manufacturer. CONTRAINDICATIONS: None Known, WARNING: The Renegade STC 18 Microcatheter, Renegade Fiber Braided Microcatheter, and the Renegade HI-FLO Microcatheter are not intended for use in the coronary vasculature or the neurovasculature. PRECAUTIONS: • This device should be used only by physicians thoroughly trained in percutaneous, intravascular techniques and procedures. • Never advance or withdraw an intravascular device against resistance until the cause of the resistance is determined by fluoroscopy. Movement of the microcatheter or guidewire against resistance may result in separation of the microcatheter or guidewire tip, damage to the microcatheter or guidewire tip, or vessel perforation. Because the microcatheter may be advanced into narrow subselective vasculature, repeatedly assure that the microcatheter has not been advanced so far as to interfere with its removal. ADVERSE EVENTS: The

Adverse Events include, but are not limited to: • Vessel trauma • Embolism • Hemorrhage/Hematoma Vasospasm • Infection • Air embolism • Allergic reaction 91059028 Rev/Ver AB.3

RENEGADE HI-FLO FATHOM KIT

CAUTION: Federal law (USA) restricts this device to sale by or on the order of a physician, Rx only, Prior to use, please see the complete "Directions for Use" for more information on Indications, Contraindications Warnings, Precautions, Adverse Events, and Operator's InstructionsI INTENDED USE/INDICATIONS FOR USE: The Renegade HI-FLO FATHOM Kit is intended for peripheral vascular use. The FATHOM Guidewire can be used to selectively introduce and position the Renegade HI-FLO Microcatheter in the peripheral vasculature. The microcatheter can be used for controlled and selective infusion of diagnostic, embolic, or therapeutic materials into vessels. CONTRAINDICATIONS: None Known, WARNINGS: Never advance or withdraw an intravascular device against resistance until the cause of resistance is determined by fluoroscopy. Movement of the microcatheter or guidewire may result in damage or separation of the microcatheter or guidewire may result in damage or separation of the microcatheter or guidewire tip, or vessel perforation. Renegade™ HI-FLO™ FATHOM™ Kit is not intended for use in the coronary vasculature or the neurovasculature. The Renegade HI-FLO microcatheter is not designed for delivery of embolic coils. PRECAUTIONS: This device should be used only by physicians thoroughly trained in percutaneous, intravascular techniques and procedures. Because the microcatheter may be advanced into narrow subselective vasculature, repeatedly assure that the microcatheter has not been advanced so far as to interfere with its removal. ADVERSE EVENTS: The Adverse Events include, but are not limited to: • Allergic reaction Death • Embolism • Hemorrhage/Hematoma • Infection • Pseudoaneurysm • Stroke • Vascular thrombosis

TRANSEND™ GUIDEWIRE WITH ICE™ HYDROPHILIC COATING

CAUTION: Federal law (USA) restricts this device to sale by or on the order of a physician, Rx only, Prior to use, please see the complete "Directions for Use" for more information on Indications. Contraindications. Warnings, Precautions, Adverse Events, and Operator's Instructions, INTENDED USE/INDICATIONS FOR USE: The Transend Guidewire is intended for general intravascular use, including the peripheral vasculature. The wire can be torqued to facilitate the selective placement of diagnostic or therapeutic catheters. **CONTRAINDICATIONS:** This device is not intended for use in coronary arteries. **PRECAUTIONS:** • This device should be used only by physicians thoroughly trained in percutaneous, intravascular techniques

Vessel occlusion
 Vessel spasm
 Vessel trauma (dissection, perforation, rupture)
 90960756 Rev/Ver AB.4

- and procedures. ADVERSE EVENTS: Complications attributed to guidewire applications are the following: embolism, thromboembolism • Post embolization syndrome (abdominal pain, fever, and nausea/vomiting)
- Hematoma at the puncture site Infection Perforation of the vessel Vessel spasm Hemorrhage
- Vascular thrombosis
 Death
 Bleeding
 Failed treatment
 Inability to position guidewire
- Damage to catheter Excessive force against resistance may result in separation of the guidewire tip 90960885 Rev/Ver AB.4

TRUSELECT™ MICROCATHETER

CAUTION: Federal law (USA) restricts this device to sale by or on the order of a physician. Rx only. Prior to use, please see the complete "Instructions for Use" for more information on Indications, Contraindications, Warnings, Precautions, Adverse Events, and Operator's Instructions INTENDED USE: The TRUSELECT Microcatheters are intended for peripheral vascular use. The microcatheter can be used for selective infusion of diagnostic, embolic, or therapeutic materials into the vessel. CONTRAINDICATIONS: None known. **WARNINGS:** • Never advance or withdraw an intravascular device against resistance until the cause of resistance is determined by fluoroscopy. Movement of the microcatheter or guidewire against resistance may result in damage or separation of the microcatheter or guidewire tip, or vessel perforation. • TRUSELECT Microcatheter is not intended for use in the coronary vasculature or neurovasculature. **PRECAUTIONS:** • This device should be used only by physicians thoroughly trained in percutaneous, intravascular techniques and procedures. • Diagnostic, embolic, or therapeutic agents are to be used in accordance with specifications outlined by the manufacturer. • Because the microcatheter may be advanced into narrow sub-selective vasculature, repeatedly assure that the microcatheter has not been advanced so far as to interfere with its removal. ADVERSE EVENTS: The Adverse Events include, but are not limited to: • Allergic reaction (to drug. contrast, device or other) • Cerebrovascular accident (CVA), stroke, transient ischemic attack (TIA) • Death
• Embolism (air, plaque, thrombus, device or other) • Hemorrhage/Hematoma • Infection/sepsis • Need for urgent intervention or surgery • Thrombus/thrombosis • Vasospasm • Vessel occlusion • Vessel trauma (perforation, injury, rupture, dissection, pseudoaneurysm) 92567338 A.1

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