

AV Access Surgery Reinvented



FLIXENE™ VASCULAR GRAFTS

FLIXENE™ represents the best in surgical excellence. FLIXENE has been engineered to surpass the toughest clinical demands required in today's AV access patients.

TRILAMINATE COMPOSITE CONSTRUCTION

Tissue Surface

Hydrostatic Protection

Membrane

- Durable Reinforced Construction
 Engineered to surpass the toughest clinical demands for dialysis needle access while allowing for the ultimate in reduced needle hole bleeding
- Unmatched Strength and Durability
 FLIXENE exhibits the highest radial tensile and burst strength even after several simulated needle cannulations

during implantation.

Superior Suture Retention
FLIXENE offers unmatched suture retention and
suture line stability, resulting in little to no needle hole bleeding to help minimize OR time and efficient
graft hemostasis following each dialysis needle access

FLIXENE™ is the best mechanical solution that provides your patients with the most durable dialysis access option available.

FLIXENE's exclusive hydrostatic protection membrane minimizes weeping through the graft wall. This hydrostatic protection membrane provides FLIXENE with the highest water entry pressure of any PTFE vascular graft commercially available, **minimizing weeping following surgical implantation**.

FLIXENE PTFE vascular grafts are available exclusively with Atrium's patented Slider™ Graft Deployment System. Atrium's easy-to-deploy tunneling system makes it easy to pull any size graft safely through the subcutaneous tissue with less drag. The low profile tunneler tip and thin wall protection sleeve minimizes trauma and allows for a tighter graft tunnel without the risk of pre-wetting or operative wound contamination





Let Atrium's FLIXENE™ vascular graft technology help minimize your central venous catheter dependence and maximize your patients dialysis treatment options.

APHECS II Trial Atrium's Prospective Hemodialysis Early Cannulation Trial with the FLIXENE™ Vascular Graft

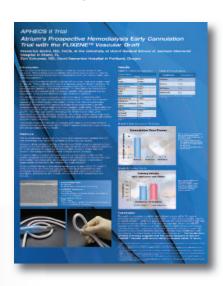
- 100% of study patients were safely cannulated within 72 hours of implantation
- The majority of complications were typical of AV access and not specific to the FLIXENE graft
- FLIXENE's patency is reported to be higher and in line with historical studies

When compared to central venous catheters, FLIXENE vascular grafts may present a more durable and lasting dialysis access option for patients who cannot receive a fistula or whose fistulas have failed to mature for needle access.

Autogenous Brachial-Brachial for Vein Access: One Year Clinical Outcomes and Comparison with Arterio-venous Grafts (FLIXENE™)

- Functional patency was similar in the FLIXENE group compared to the fistula group.
- Ocomplication rates were significantly lower in the FLIXENE arm
- Ocannulation times were significantly shorter in the FLIXENE arm

The extended reliability and durability that FLIXENE exhibits for repeat dialysis needle cannulation coupled with favorable patency and low infection rates makes it the GRAFT of CHOICE when fistulas are not an option.









What is Atrium's Graduated Wall Technology?

Atrium's FLIXENE™ Graduated Wall is a FLIXENE vascular graft that exhibits a gradual, reduced wall thickness approximately 7 cm on each end. The tapered wall thickness on each end averages 23% thinner than in the middle section of the graft. This graduated wall thickness offers surgeons improved suturability and handling without sacrificing the strength and durability needed for needle cannulation and demanding peripheral vascular applications.

Available in straight, tapered, and hooded configurations to accommodate various clinical applications

Benefits of FLIXENE™ Graduated Wall Technology

- Incredible handling, strength and durability benefits
 Designed to withstand the rigors of dialysis and reduce pseudoaneurysm formation
- Proprietary trilaminate composite construction

 Facilitates fast surgical installation, superior healing and ideal tissue incorporation
- Simplified suturability with increased conformability

Every FLIXENE Graduated Wall Configuration has a 7 cm tapered wall thickness (a 23% reduction) for improved suturability while maximizing the overall durability of the vascular implant

Physician Feedback from Market Evaluation

"Much easier to suture than regular FLIXENE with same benefits"

"Did not bleed"

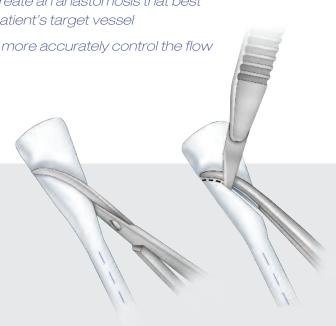
"I was surprised by the lack of needle hole bleeding"





- Atrium's customizable hood allows for surgeons to create an anastomosis that most appropriately suits each patient's vessel anatomy and/or anastomotic condition
- The reinforced three layer hood design can be customized to accommodate a more gradual anastomotic diameter for precise anatomical placement, thus maximizing flow dynamics
- The FLIXENE™ TRUMPET is available in multiple sizes and configurations to meet various anastomotic needs
- Three layer hood construction dramatically reduces the risk of unzipping of the graft material
- Customizable hood enables surgeons the flexibility to create an anastomosis that best meets the anatomical location and size needs of their patient's target vessel
- Atrium's large trumpet hood design allows surgeons to more accurately control the flow dynamics at the venous anastomosis

Customizable hood engineered for optimal anastomotic placement





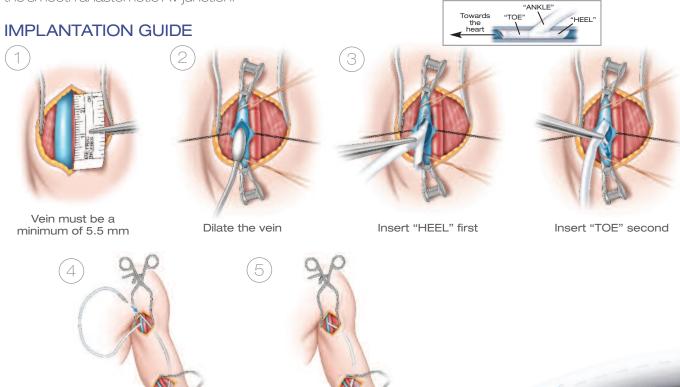
Tunnel graft

into place

FLIXENE™ IFG

(Intraluminal Flow Guard) Vascular Grafts

Specifically designed as an upper arm A-V graft, this new "T" shaped intraluminal placement concept facilitates the insertion of a compression resistant nitinol reinforced distal outflow section directly into the vein, providing a faster implantation technique and smooth flow transition into the vein. The IFG is designed to help improve flow dynamics along the distal outflow region and reduce arterialized pressure along the smooth anastomotic AV junction.



Complete

arterial

anastomosis

| EDUCATIONAL | RESOURCES

Atrium's Commitment

Atrium Medical maintains a continued focus on advancing patient care through exceptional clinical products and education. Atrium's dialysis education materials are designed to help facilitate communication among physicians and staff with their patients to improve overall dialysis care.



DIALYSIS
ANIMATION DVD
Features two
patient friendly
animations and 1
surgical video on
tunneling
techniques

FLIXENE

ATRIUM

DIALYSIS EDUCATION
BROCHURE
Designed to help educate
patients on dialysis and how
to care for their access sites

ATRIUM



DIALYSIS
EDUCATION WALL POSTER
Reinforces proper cannulation
and compression techniques as
set forth by the DOQI guidelines*

FLIXENE™ Graft Products Ordering Information

FLIXENE™ Vascular Graft

Diameter	Length	Wall Thickness	Slider GDS	Code #
6 mm	10 cm	SW		25053
7 mm	10 cm	SW		25054
8 mm	10 cm	SW		25055
6 mm	30 cm	SW	Single	25142
6 mm	50 cm	SW	Single	25052
7 mm	50 cm	SW	Single	25056
8 mm	50 cm	SW		25057

FLIXENE™ Graduated Wall

Diameter	Length	Wall Thickness	Slider GDS	Code #	
6 mm	30 cm	GW	Single	25125	
7 mm	30 cm	GW	Single	25126	
8 mm	30 cm	GW	Single	25127	
6 mm	40 cm	GW	Single	25061	
7 mm	40 cm	GW	Single	25062	
8 mm	40 cm	GW	Single	25063	
6 mm	50 cm	GW	Single	25058	
7 mm	50 cm	GW	Single	25059	
8 mm	50 cm	GW	Single	25060	
6 mm	80 cm	GW	Single	25119	
7 mm	80 cm	GW	Single	25120	
8 mm	80 cm	GW	Sinale	25121	

FLIXENE™ Graduated Wall & Graduated Wall Taper

Diameter	Length	Wall Thickness	Slider GDS	Code #
4-6 mm	30 cm	GWT-GW	Double	25140
4-7 mm	30 cm	GWT-GW	Double	25141
4-6 mm	35 cm	GWT-GW	Double	25128
4-7 mm	35 cm	GWT-GW	Double	25129
5-8 mm	35 cm	GWT-GW	Double	25130
4-6 mm	45 cm	GWT	Double	25134
4-7 mm	45 cm	GWT	Double	25135
5-8 mm	45 cm	GWT	Sinale	25109
4-6 mm	45 cm	GWT-GW	Double	25137
4-7 mm	45 cm	GWT-GW	Double	25138
5-8 mm	45 cm	GWT-GW	Double	25139

FLIXENE™ Trumpet

Diameter	Length	Wall Thickness	Slider GDS	Code #
6 mm	30 cm	GW	Single	25049
4-6 mm	30 cm	GWT	Single	25100
4-7 mm	30 cm	GWT	Single	25101
4-6 mm	35 cm	GWT	Single	25076
4-7 mm	35 cm	GWT	Single	25077
5-8 mm	35 cm	GWT	Single	25078
6 mm	45 cm	GW	Single	25050
7 mm	45 cm	GW	Single	25051
4-6 mm	45 cm	GWT	Single	25070
4-7 mm	45 cm	GWT	Single	25071
5-8 mm	45 cm	GWT	Single	25072
6 mm	80 cm	GW	Single	25064
7 mm	80 cm	GW	Single	25065
8 mm	80 cm	GW	Single	25066

FLIXENE™ IFG Vascular Graft

Diameter	Length	Wall Thickness	Slider GDS	Code #	
4-7 mm	35 cm	GWT	Single	25081	
4-7 mm	30 cm	GWT	Single	25098	
6 mm	30 cm	SW	Single	25083	
6 mm	45 cm	GW	Single	25086	
4-7 mm	45 cm	GWT	Sinale	25079	

Additional sizes may be available. Please contact Atrium Customer Service or refer to our website at www.atriummed.com for a complete listing of FLIXENE™ products.



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