

KIMAL

Laminate
Medical Technologies

VasQ™

Extravascular AV Fistula Support

Fortify Your Fistula



New Standard of AVF Functional Success

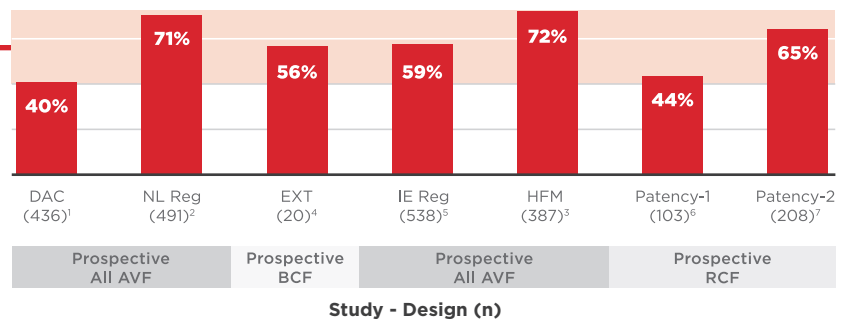
Unsupported AVFs Experience Inconsistent Functional Success

Unstable hemodynamic stress and excessive mechanical wall stress result in an inconsistent biomechanical remodeling response.

**Unsupported
AVF Functional
Success Rates***

40% - 72%

n = 2,183 (7 Major Prospective
AVF Studies since 2008)



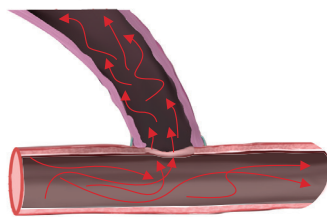
**Hemodynamic
Stress**



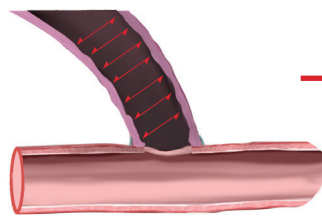
**Mechanical
Stress**



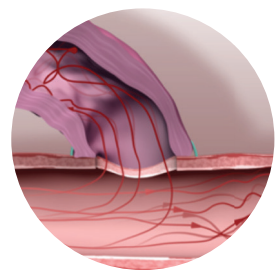
**Negative (Stenotic)
Remodeling**



Turbulent, unstable flow

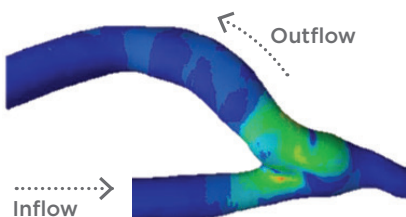


Excessive wall tension



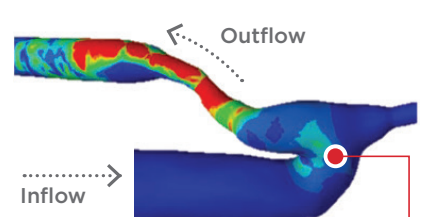
Combined effect leads to
heterogenous, uncontrolled
remodeling that may result
in failure

3 DAYS POST CREATION



Unsupported
Remodeling

1 YEAR POST CREATION



Altered Anastomotic Geometry

Example of an unsupported maturation observed in a randomised-controlled longitudinal MRI study revealed unstable flow conditions and significant geometric changes that produced a stenotic AVF within the first year post-creation.¹⁶

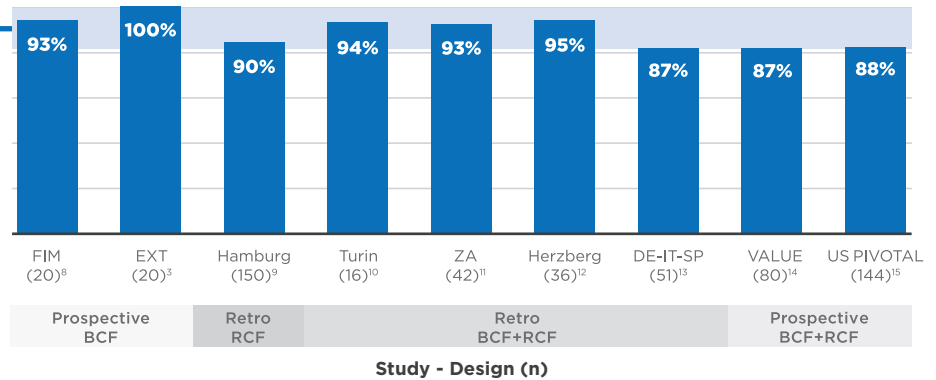


Is Designed to Support Consistent Functional Success

VasQ is the only solution currently available that addresses both hemodynamic and mechanical stress to create more functional fistulas.

**VasQ™ Supported
AVF Functional
Success Rates***
87% - 100%

n = 559 (9 VasQ Studies since First In-Man)



**Optimal
Hemodynamics**



**Mechanical
Support**



**Promotes Positive
(Dilative) Remodeling**

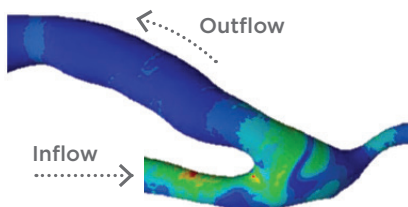
Tapered venous transition designed for a more stable flow profile

Mechanical reinforcement designed to reduce wall tension from excessive transmural pressure

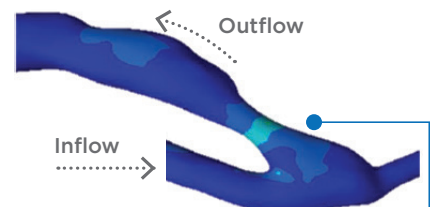
The nitinol external support guides the remodeling at the anastomosis to promote outward wall thickening downstream for eventual use in hemodialysis

3 DAYS POST CREATION

1 YEAR POST CREATION



Supported
Remolding

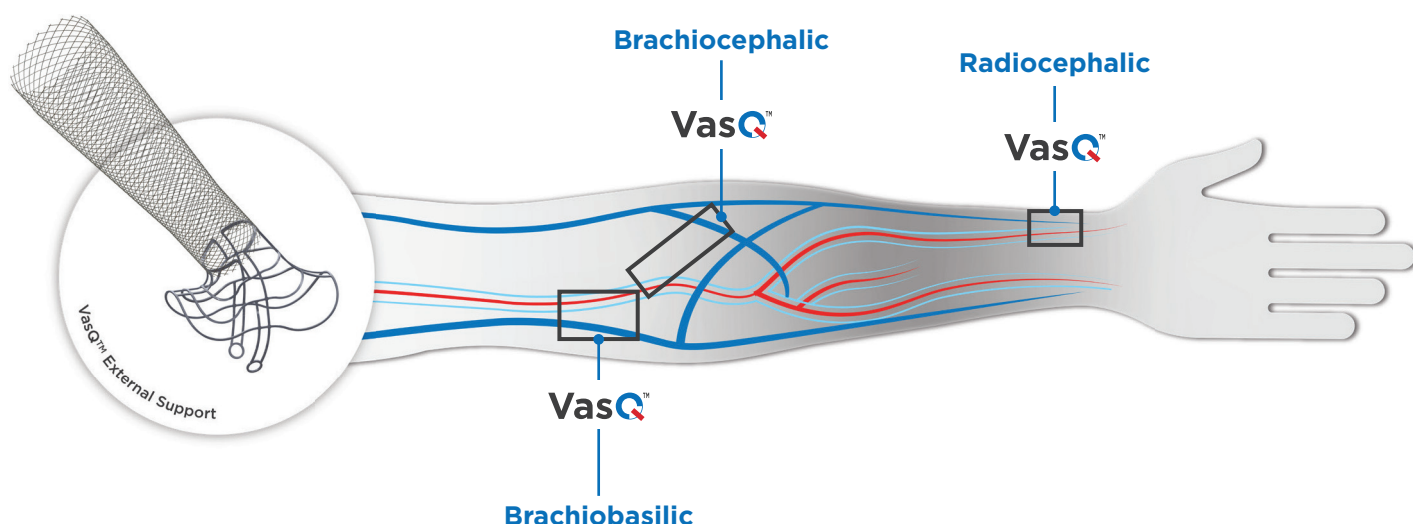


Example of a supported maturation with VasQ™ observed in a randomised-controlled, longitudinal MRI study revealed a more stable flow profile and consistent geometry of the AVF retained through the first year post-creation.¹⁶

Retained Anastomotic Geometry with Tapered Flow Transition

Time Average Wall Shear Stress (dyne/cm²)





External Support		
Model	Vessel Diameter (D) mm	P/N
2	$3.2 \leq D < 3.7$	FG0026
3	$3.7 \leq D < 4.1$	FG0027
4	$2.5 \leq D < 4.8$	FG0028
5	$4.8 \leq D < 5.5$	FG0029
6	$5.5 \leq D \leq 6.0$	FG0030

Accessories	
Description	P/N
VasQ DMST	FG0024

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*Functional success generally was defined as the proportion of active dialysis patients confirmed to be using their AVF via 2-needle cannulation

The VasQ device is intended for use as subcutaneous arteriovenous conduit support for vascular access.

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