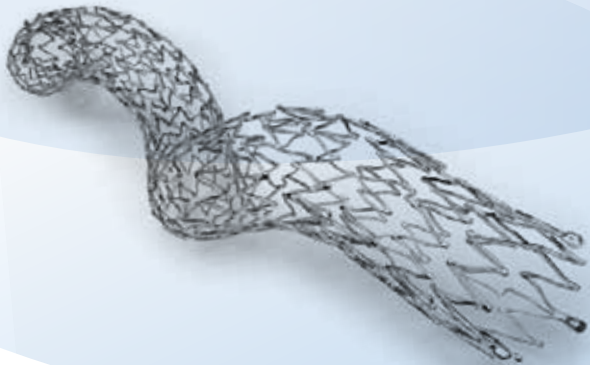




Swirling Flow[®]
Inspired by Nature, shaped by Veryan



CREATED WITH
DESIGN
INTELLIGENCE

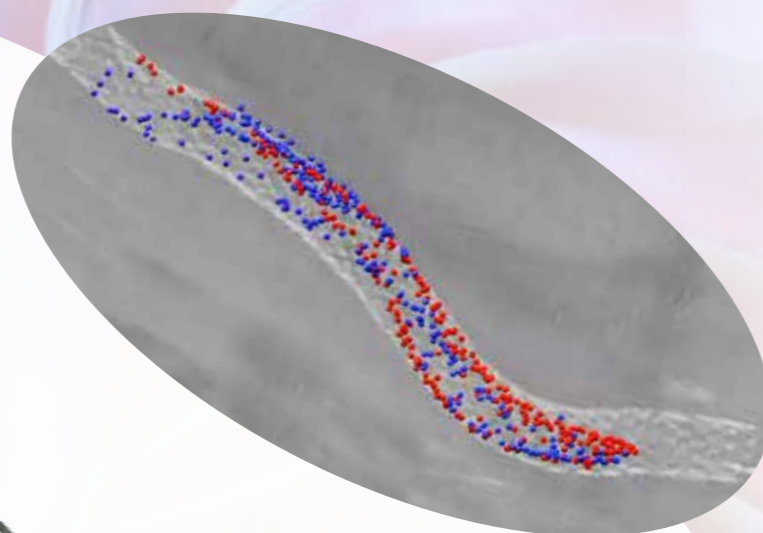


AN OTSUKA MEDICAL DEVICES COMPANY

Swirling flow

Nature's way of protecting patency, engineered by Veryan to improve stenting outcomes as demonstrated in the MIMICS clinical programme.¹

The **BioMimics 3D stent** has a unique 3D helical geometry which imparts a gentle helical shape to the stented artery², provoking swirling flow-mediated increase in wall shear stress that has been shown to reduce intimal hyperplasia.³



Computational fluid dynamics representation.*



Improved patency

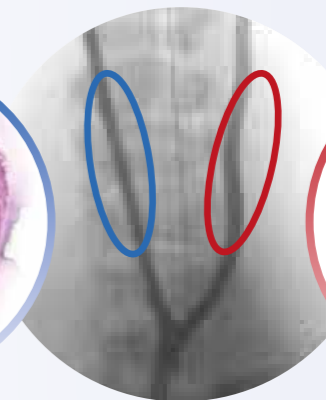
45% reduction in neointimal thickness at 30 days (P<0.001)³

Veryan's pre-clinical programme provides confirmatory evidence of the potential benefit of **swirling flow** generated by a stent with 3D helical geometry.

Arterial straightening and reduced wall shear stress may be important contributors to adverse clinical outcomes with straight stents in the femoropopliteal arteries.



Straight Stent
Pre-clinical model: 30-day histology³



3D Helical Stent
Pre-clinical model: 30-day histology³

Improved biomechanical performance⁵ and excellent fracture resistance⁶

Unstented vessel

As the leg bends, the native femoropopliteal artery shortens under axial compression.⁷



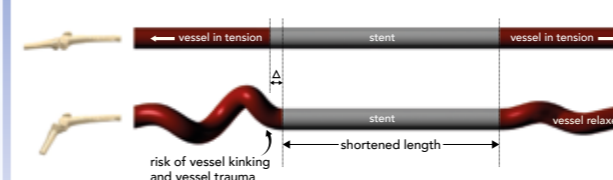
0% Fracture in the **MIMICS RCT** and **MIMICS 2** Studies^{8,9}

Straight stent

resists compression, risking damage to stent and vessel.¹⁰



Impact of **straight stent** on femoropopliteal artery

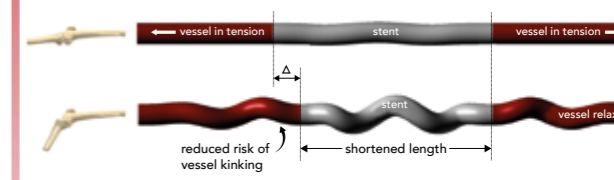


Unique BioMimics 3D stent

design accommodates shortening and stress is distributed across entire stent, reducing risk of stent fracture and associated vascular injury.



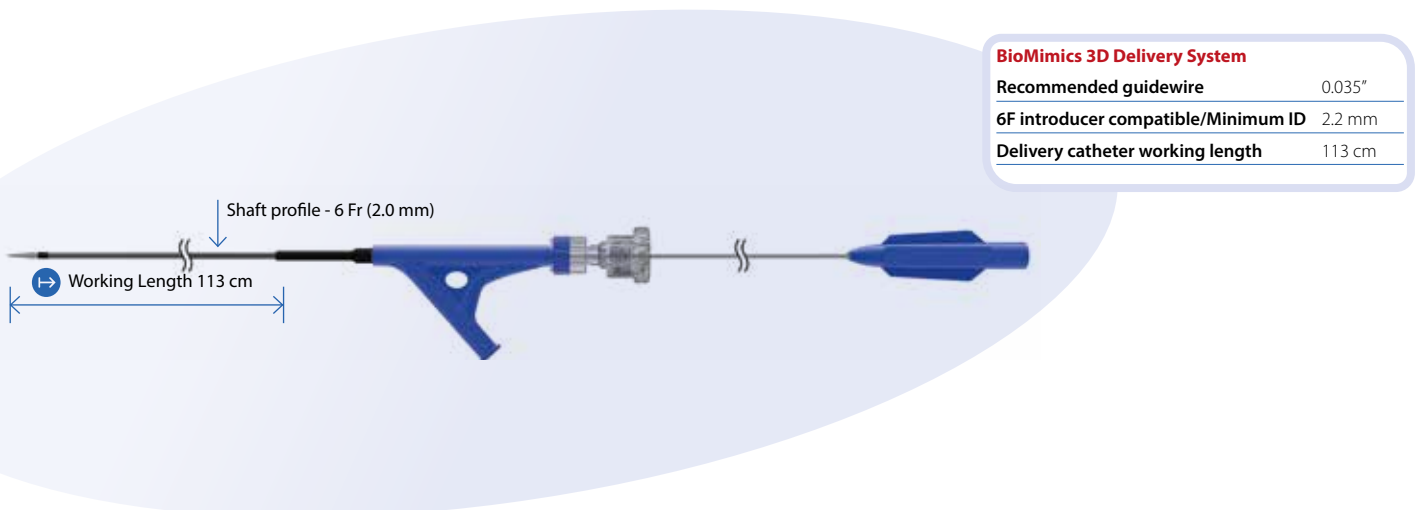
Impact of **BioMimics 3D stent** on femoropopliteal artery



Computational fluid dynamics representation of in-stent swirling flow in an X-ray image.

Ordering information

Quick order reference	Catalogue number	Stent diameter (mm)	Reference vessel diameter (mm)	Stent length (mm)	Sheath compatibility*: Fr/Minimum ID (mm)	Guidewire compatibility (mm)
5x60	131816-01	5	3.5-4.0	60	6 / 2.2	0.035
5x80	131816-05	5	3.5-4.0	80	6 / 2.2	0.035
5x100	131816-09	5	3.5-4.0	100	6 / 2.2	0.035
5x125	131816-13	5	3.5-4.0	125	6 / 2.2	0.035
5x150	145276-05	5	3.5-4.0	150	6 / 2.2	0.035
6x60	131816-02	6	4.0-5.0	60	6 / 2.2	0.035
6x80	131816-06	6	4.0-5.0	80	6 / 2.2	0.035
6x100	131816-10	6	4.0-5.0	100	6 / 2.2	0.035
6x125	131816-14	6	4.0-5.0	125	6 / 2.2	0.035
6x150	145276-12	6	4.0-5.0	150	6 / 2.2	0.035
7x60	131816-03	7	5.0-6.0	60	6 / 2.2	0.035
7x80	131816-07	7	5.0-6.0	80	6 / 2.2	0.035
7x100	131816-11	7	5.0-6.0	100	6 / 2.2	0.035
7x125	131816-15	7	5.0-6.0	125	6 / 2.2	0.035
7x150	145276-19	7	5.0-6.0	150	6 / 2.2	0.035
8x60	131816-04	8	6.0-7.0	60	6 / 2.2	0.035
8x80	131816-08	8	6.0-7.0	80	6 / 2.2	0.035
8x100	131816-12	8	6.0-7.0	100	6 / 2.2	0.035



* Evaluated with 6Fr Cordis[®] Brite Tip and 6Fr Terumo[®] Radifocus Introducer II sheath introducers
 1,4,5,6,9- Data on file at Veryan Medical
 2- Zeller T. Oral Presentation VIVA 2014
 3- Caro et al. 2013 J R Soc Interface 10: 20130578b
 7,10- BH Smouse et al, Endovasc. Today, vol 4, no. 6, pp. 60-66, 200
 8- Zeller T. et al; Circ Cardiovasc Interv. 2016;9

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The BioMimics 3D Vascular Stent System has CE Mark approval.

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