

MIMICS RCT Two-Year Results

Summary

A randomised study comparing safety and effectiveness of the BioMimics 3D Vascular Stent System to a straight stent control. The study evaluated the performance of the BioMimics 3D Vascular Stent System in the treatment of diseased SFA/proximal popliteal arteries.

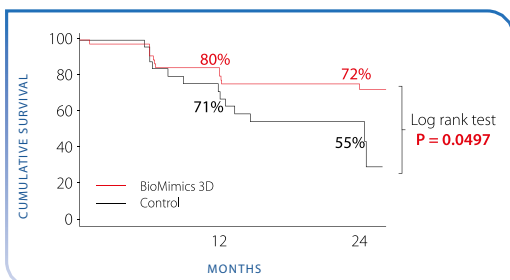
Baseline Patient Demographics		BioMimics 3D (N=50)	Control Stent (N=26)	P value
Age	Mean ± SD (N)	68 ± 10.4	67 ± 8.9	0.66
Gender	Male	66%	65%	1.0
Risk Factors	Diabetes Type 2	26%	42%	0.16
	Insulin-dependent	14%	19%	1.00
	Hypertension	88%	85%	0.73
	Smoking current	42%	50%	0.63
Medical History	Carotid artery disease	10%	8%	1.00
	Iliac disease	18%	15%	1.00
Previous Interventions	Previous PTA	16%	12%	0.74
	Previous Stent	2%	8%	0.27
Rutherford category	1	6% (3/50)	4% (1/26)	1.00
	2	14% (7/50)	4% (1/26)	0.74
	3	74% (37/50)	88% (23/26)	0.27
	4	6% (3/50)	4% (1/26)	1.00
Ankle Brachial Index	Mean ± SD (N)	0.60 ± 0.23 (N=45)	0.59 ± 0.17	0.83

Lesion Characteristics		BioMimics 3D (N=50)	Control Stent (N=26)	P value
Lesion Location	SFA	92%	77%	0.08
	SFA/Popliteal	6%	12%	0.41
	Popliteal	2%	12%	0.11
TASC II	A	42%	42%	1.00
	B	56%	58%	1.00
	C	2%	0%	1.00
Lesion Length	mm	66 ± 29	63 ± 28	0.66
Stent Length	mm	99 ± 30	88 ± 22	0.08
Occlusion	Total	44%	46%	1.00
Calcification	Moderate to Severe	52%	58%	0.81

2 Year Results

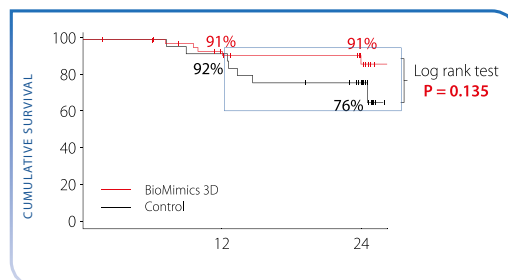
Patency

Significantly better primary patency (PSVR ≤2.0) through 2 years (P = 0.05)
 • **72%** for BioMimics 3D at 2 years



CDTLR

Freedom from CDTLR *
 • **91%** for BioMimics 3D maintained out to 2 years



Study Principal Investigator:

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Enrolment: N=76

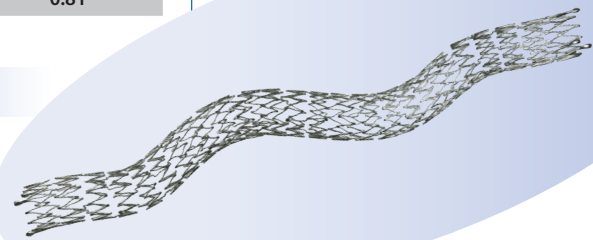
Clinical Sites: 8 Germany

Follow Up: 2 Years

Primary Endpoints:

Safety - Freedom from major adverse events (MAE) defined as death, amputation and target lesion revascularisation (TLR) at 30 Days.

Effectiveness - Freedom from clinically driven target lesion revascularisation (CDTLR) at 6 months.

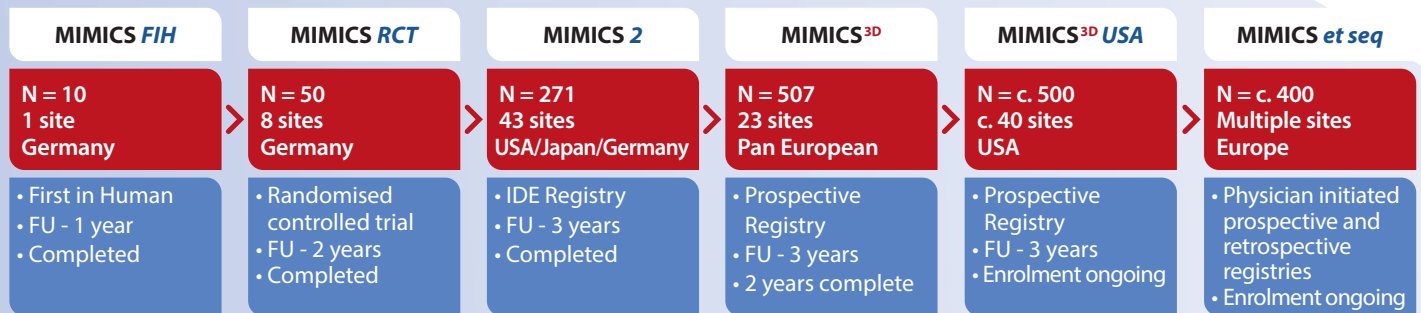


*CDTLR determined through event adjudication

1750+
patients and
growing

The MIMICS Clinical Programme: An evolving database of the safety and effectiveness of the BioMimics 3D Vascular Stent System.

Gathering clinical evidence from a “real world” patient population from single de novo to complex, long and severely calcified lesions.



MIMICS *RCT*

A randomised study comparing safety and effectiveness of the BioMimics 3D Vascular Stent System to a straight stent control. Freedom from loss of primary patency through 2 years for BioMimics 3D Vascular Stent System was superior (P = 0.05) to straight control stents (72% vs 55%). There were no stent fractures at 2 years for patients treated with the BioMimics 3D Vascular Stent System.⁶

MIMICS *2*

A multicentre, international (USA, Japan and Germany) IDE study. At 3 years follow-up BioMimics 3D demonstrated continuing benefit with CDTLR showing comparable outcomes to DES/DCB. Core Lab X-ray imaging review confirmed 0% stent fracture in any MIMICS-2 subject treated with BioMimics. MIMICS-2 represents a more challenging patient population than in DES/DCB pivotal trials.^{7,8}

MIMICS^{3D}

A prospective observational registry evaluating the BioMimics 3D Vascular Stent System in a real-world clinical population with a dedicated subgroup analysis of device performance as a complementary treatment in procedures involving drug-coated balloons. MIMICS-3D enrolled 507 patients across 23 clinical sites in Europe.

MIMICS^{3D} *USA*

A prospective, multicentre observational study evaluating the safety, effectiveness and device performance of the BioMimics 3D Vascular Stent System within a real-world clinical population of patients undergoing femoropopliteal intervention. MIMICS-3D USA will enrol a minimum of 500 patients in up to 40 sites across the United States.

** Straight control stents = 24/26 Bard LifeStent™; 1/26 Terumo Misago™; 1/26 Biotronik Pulsar

1,2,4,5 Data on file at Veryan Medical. Zeller T et al; Circ Cardiovasc Interv. 2016;9

3 Zeller T. Oral Presentation VIVA 2014

6 Zeller T et al; Circ Cardiovasc Interv. 2016;9

7. Kenneth Rosenfield et al : N Engl J Med 2015;373:145-53. DOI: 10.1056/NEJMoa1406235

8. Michael D. Dake et al : Circ Cardiovasc Interv. 2011;4:495-504

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

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Indications, contraindications, warnings and Instructions for Use can be found in the product labelling supplied with each device.

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