

MeRes100TM

Sirolimus Eluting BioResorbable Vascular Scaffold System

Simply Sublime.

Meril

Cardiovascular

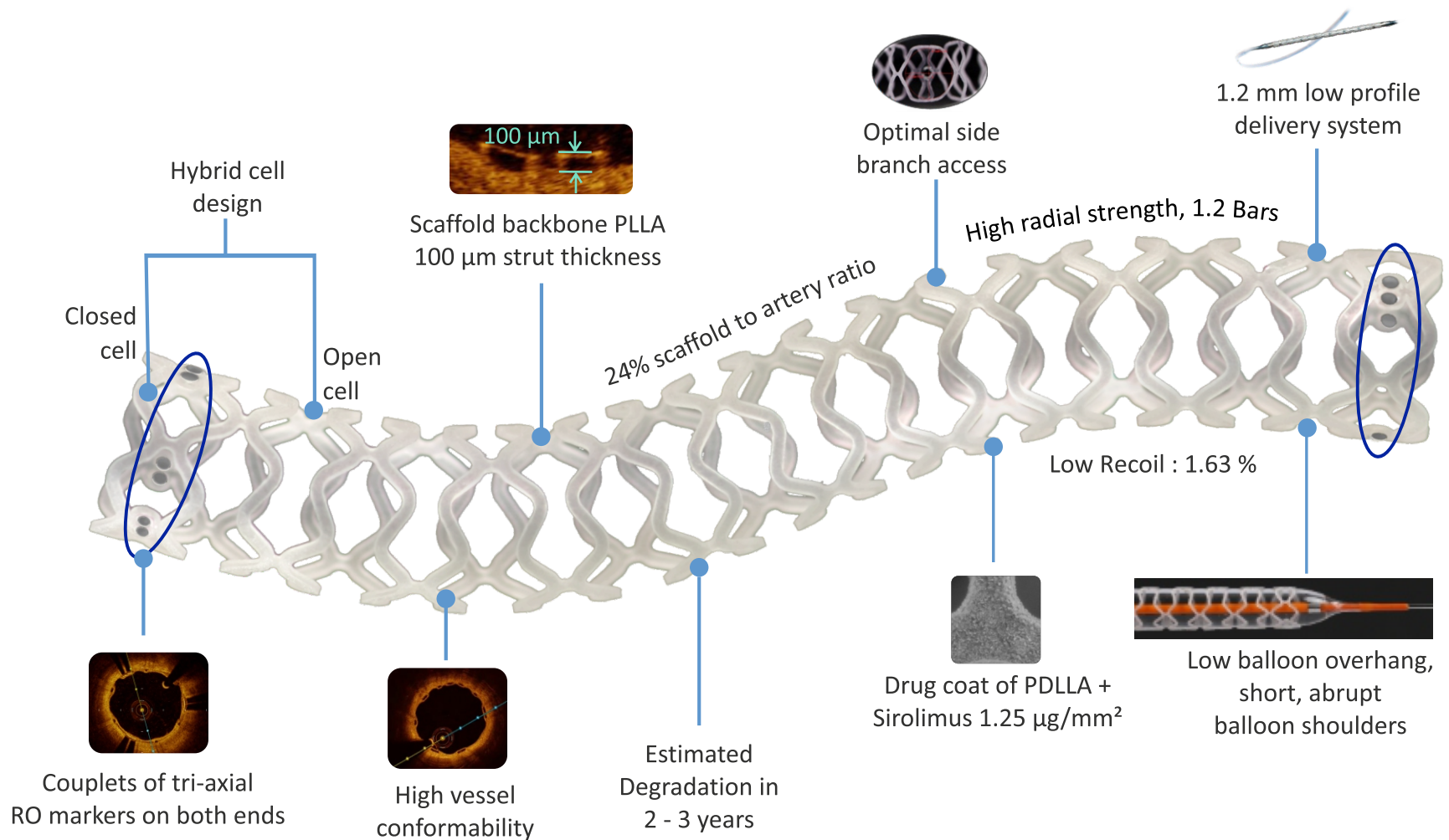


MeRes100TM

Sirolimus Eluting BioResorbable Vascular Scaffold System

Simply Sublime.

Next Generation BioResorbable Scaffold.



Size Matrix

Diameters: 2.75, 3.00, 3.25, 3.50, 4.00 mm

Lengths: 16, 19, 24, 29, 32, 40 mm



MeRes-1 FiM Study: Safety and Efficacy of BRS in 108 Patients with Single, De-novo Coronary Lesions (in up to 2 vessels)

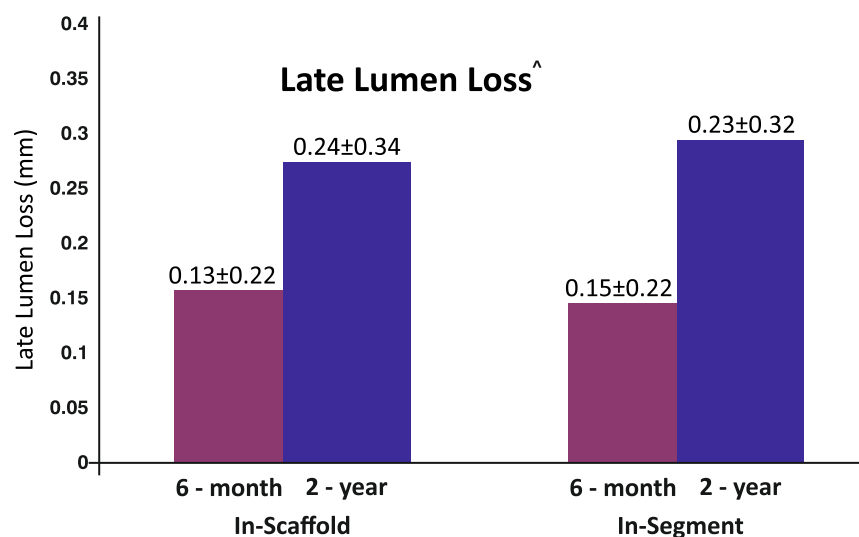
Clinical follow-up results

3-Year Follow-up

0% Scaffold Thrombosis
Cardiac Death
Myocardial Infarction

Events, n (%)	In-hospital N=108	1-month N=108	6-month N=108	1-year* N=107	2-year^ N=107	3-year^ N=107
MACE	0 (0%)	0 (0%)	0 (0%)	1 (0.93%)	2 (1.87%)	2 (1.87%)
Cardiac death	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Myocardial infarction [#]	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Ischemia-driven TLR	0 (0%)	0 (0%)	0 (0%)	1 (0.93%)	2 (1.87%)	2 (1.87%)
Scaffold thrombosis[§]	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

[#] Myocardial Infarction defined as per WHO criteria; [§]ARC defined criteria.



Angiographic Core lab - CRC, Sao Paulo, Brazil

Paired assessment of OCT[^]

N=9	Post-Procedure	6-month	2-years
Mean abluminal scaffold area(mm ²)	8.06	8.64	8.39
Mean strut core area (mm ²)	0.14	0.11	0.06
% Covered struts	-	98.99%	99.24%

[^]OCT analysis done by Cardialysis BV, Rotterdam, The Netherlands

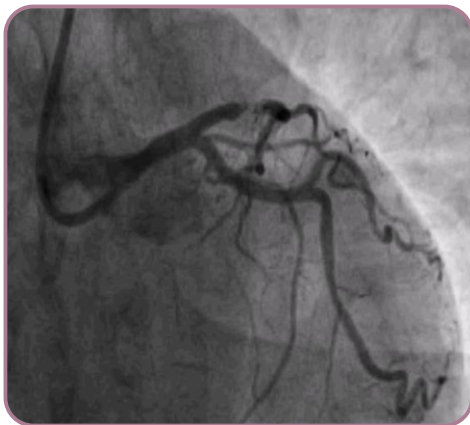
[^] Seth A, et al. Three-year clinical and two-year multimodality imaging outcomes of a thin-strut sirolimus-eluting bioresorbable vascular scaffold: MeRes-1 trial. EuroIntervention. 2019 Sep 20;15(7):607-614.

* Seth A, et al. First-in-human evaluation of a novel poly-L-lactide based sirolimus-eluting bioresorbable vascular scaffold for the treatment of de novo native coronary artery lesions: MeRes-1 trial. EuroIntervention. 2017 Jul;13(4):415-23.

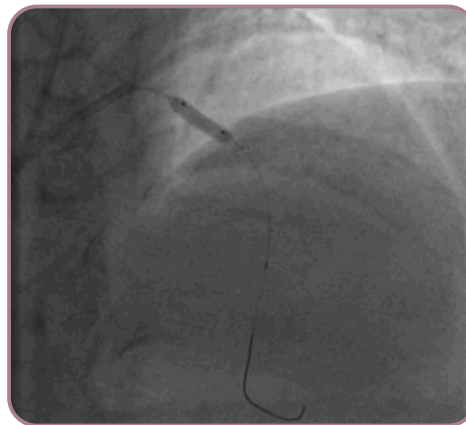
MeRes100 BRS Implantation

53 Years | Male | Diabetic | Hypertensive | No family history | Non-smoker | Stable angina

Diagnostic Angio



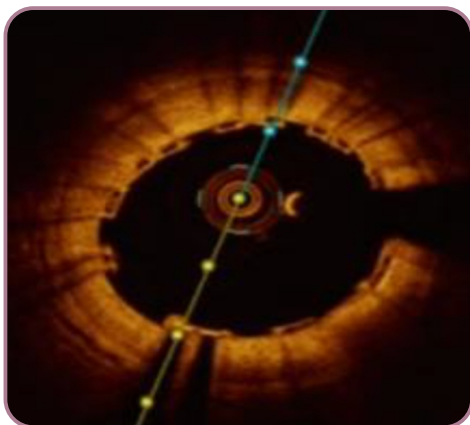
MeRes100 3.50 x 19 mm



Final Result



Baseline OCT



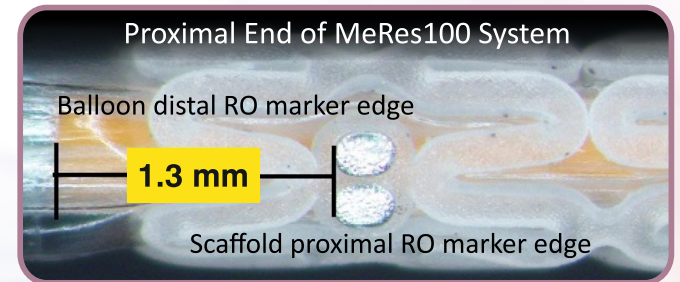
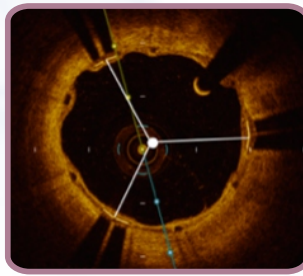
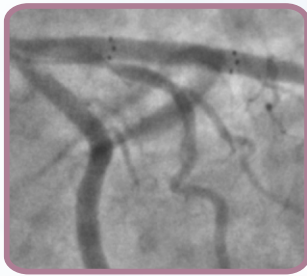
6-Months f/up



6-Months OCT f/up



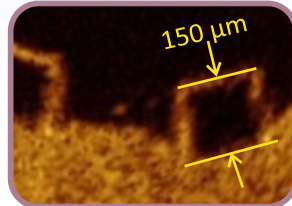
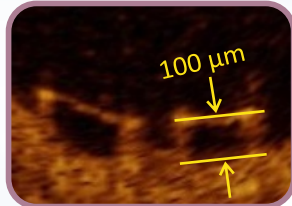
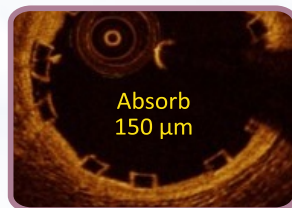
MeRes100- BRS with Enhanced Radiopacity



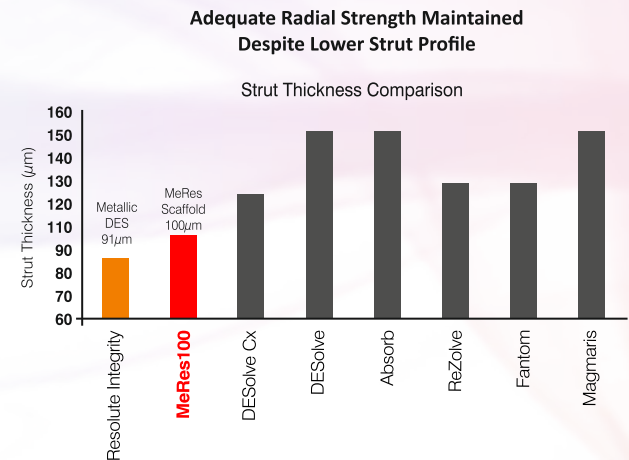
MeRes100 couplets of tri-axial RO markers on both ends of the scaffold, gives a sense of virtual tubing and high operator comfort.

Distance from edge of Balloon RO marker (both proximal & distal) to edge of Scaffold RO = 1.3 mm

MeRes100 - BRS with Best-in-Class Strut Thickness

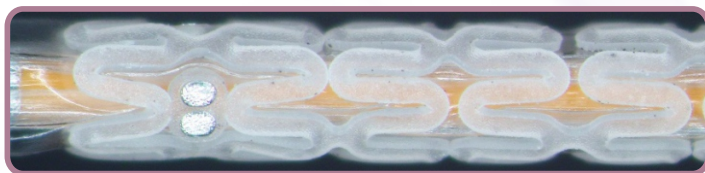


MeRes100 is a 100 µm strut thickness scaffold with a propensity to minimize vascular injury & ensure early endothelialization.

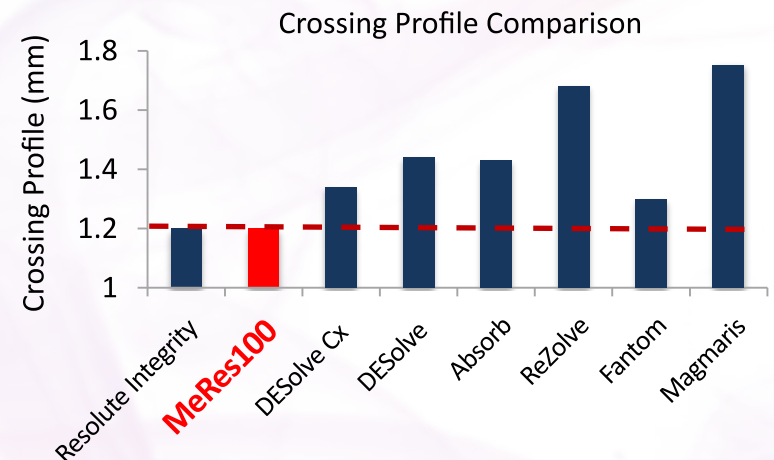


Unique manufacturing process, novel hybrid design concept incorporating strut width variability allows for best-in-class, **DES-like strut thickness** in MeRes100.

MeRes100 - BRS with Best-in-Class Crossing Profile



Average crossing profile of 1.2 mm for Ø 3.00 mm



Unique crimping process, novel hybrid design concept incorporating low strut thickness allows for best-in-class, **DES-like crossing profile** in MeRes100.



MeRes100 - BRS TECHNICAL SPECIFICATIONS

SCAFFOLD BACKBONE

Scaffold Material	: BioResorbable PLLA (Poly L-lactide)
Scaffold Strut Thickness	: 100 µm
Scaffold Diameters	: 2.75, 3.00, 3.25, 3.50, 4.00 mm
Scaffold Lengths	: 16, 19, 24, 29, 32, 40 mm

SCAFFOLD RO MARKERS

Tri-axial RO Markers	: Platinum (Couplets of tri-axial RO markers on both ends, 120° apart from each other)
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TOP COAT-DRUG+POLYMER

Drug	: Sirolimus
Equivalent Drug Dose	: 1.25 µg / mm ²
Polymer	: Bioresorbable PDLLA (Poly D, L-lactide)

DELIVERY SYSTEM

Delivery System	: Rapid Exchange
Nominal Pressure (NP)	: 9 atm (Refer labels for more details)
Rated Burst Pressure (RBP)	: 16 atm (Refer labels for more details)
Balloon Overhang	: < 1 mm
Shaft Outer Diameter	: (Refer IFU for more details) Proximal: 2.13F, Distal: 2.7F for lineage delivery system
Radiopaque Markers	: 2 - Platinum / Iridium
Usable Catheter Length	: 142 cm (Refer IFU for more details)
Guide Catheter Compatibility	: 6 F (Min. I D 0.070" / 1.8 mm)
Max. Guidewire	: 0.014" (0.36 mm)

MeRes100 - BRS ORDERING INFORMATION

Diameter / Lengths	16 mm	19 mm	24 mm	
2.75 mm	MRS27516	MRS27519	MRS27524	
3.00 mm	MRS30016	MRS30019	MRS30024	
3.25 mm	MRS32516	MRS32519	MRS32524	
3.50 mm	MRS35016	MRS35019	MRS35024	
4.00 mm	MRS40016	MRS40019	MRS40024	

Diameter / Lengths	29 mm	32 mm	37 mm	40 mm
2.75 mm	MRS27529	MRS27532	-	MRS27540
3.00 mm	MRS30029	MRS30032	MRS30037	MRS30040
3.25 mm	MRS32529	MRS32532	-	MRS32540
3.50 mm	MRS35029	MRS35032	MRS35037	MRS35040
4.00 mm	MRS40029	-	-	-

MeRes100 is not approved by USFDA and not available for sale in USA.
Information for the use only in countries with applicable health authority product registrations.
Absorb is a product of Abbott Laboratories, Resolute Integrity is a product of Medtronic, DESolve and DESolve CX are products of Elixir Medical, ReZolve and Fantom are product of REVA Medical, Magmaris is a product of Biotronik AG.



More to Life

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