

SOLITAIRETM X

UNIQUE PARAMETRIC DESIGN



ENHANCED VISUALIZATION

























CLICK TO LEARN MORE

Parametric[™] design features an overlapping stent-based design, provides revolutionary technology to restore flow, retrieve clot, and revive neurological tissue (58.2% good Neurological Outcomes) based on data from the SWIFT trial







ENHANCED VISUALIZATION

SOLITAIRE™ X INFORMATION

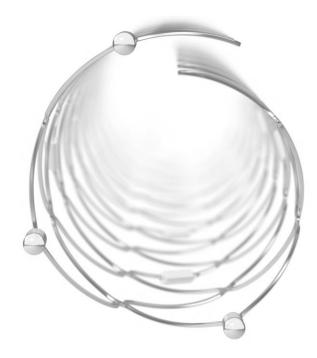








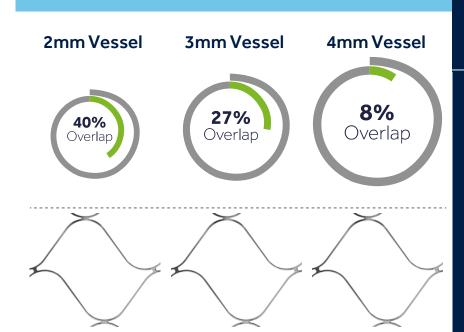








SAFETYWITH CONSISTENT & STABLE CELL AREA



Values for Solitaire[™] X and Solitaire[™] Platinum 4x40^{1,2}

Solitaire parametric design is providing a **consistent and stable cell area** in order to optimize clot retention according to varying anatomies



ENHANCED VISUALIZATION

SOLITAIRE™ X INFORMATION







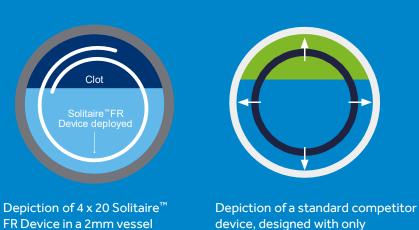








EFFICACYWITH IMPROVED CLOT RETENTION



The Solitaire[™] Platinum device is a unique stent retriever with an overlapping design **providing multiple planes of clot integration contact** and a differentiated radial outward force

one plane of contact³



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ADAPTABILITYWITH OVERLAPPING STENT-BASED DESIGN



The overlapping stent design allows the device to **expand in larger vessels and compress in smaller vessels** during deployment and retrieval²



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SOLITAIRE™ X INFORMATION

















CONFIDENCE DURING THE PROCEDURE



CLOSE VESSEL WALL APPOSITION⁵

Maintains the thrombus engaged within its struts during the retrieval Limits device elongation and foreshortening during deployment and delivery

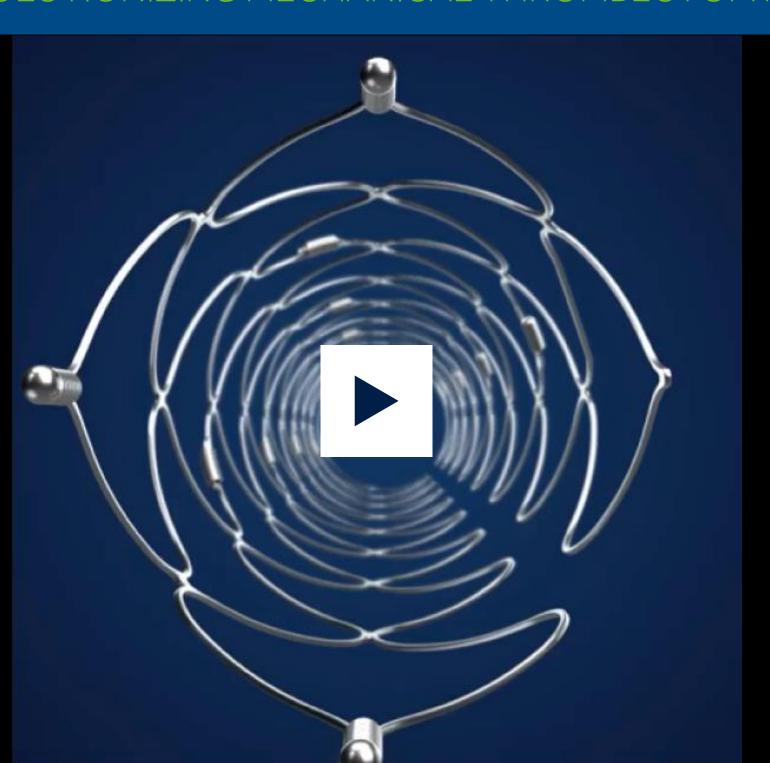


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SOLITAIRE™ X INFORMATION







UNIQUE PARÂMETRIC DESIGN

ENHANCED VISUALIZATION

SOLITAIRE™ X Information





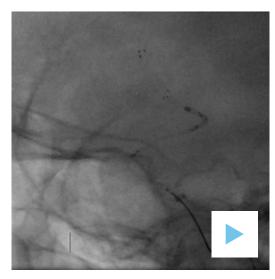
The Solitaire[™] Platinum and Solitaire [™] X devices are enhanced with distinctive, evenly spaced **platinum markers** to provide improved visualization for accurate alignment and clot retrieval. Combination of unique parametric design and enhanced visualization gives greater confidence during interventional stroke procedure

ALIGN IT

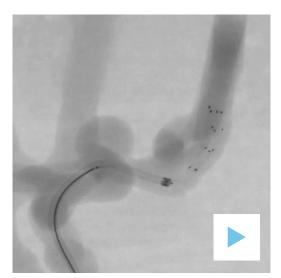


Images: Solitaire[™] Platinum

VISUALIZE IT



RETRIEVE IT















Visualize optimal working length of the Solitaire[™] Platinum or Solitaire[™] X device for **accurate stent alignment**

UNIQUE PARÂMETRIC DESIGN

ENHANCED VISUALIZATION

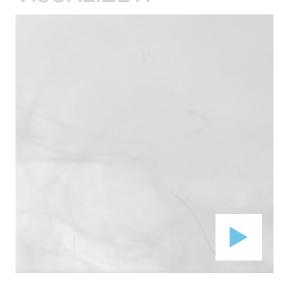
SOLITAIRE™ X INFORMATION

ALIGNIT

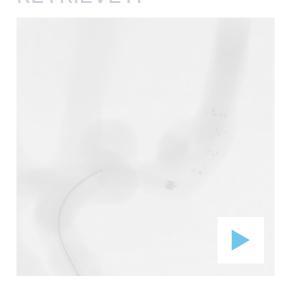


 $Images: Solitaire^{^{\text{\tiny TM}}} \ Platinum$

VISUALIZE IT



RETRIEVE IT



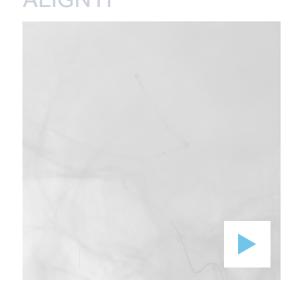






Visualize both expansion and compression of the Solitaire[™] Platinum or Solitaire[™] X device upon deployment with **unique**, **evenly spaced Platinum markers** for real-time procedural feedback

ALIGN IT



Images: Solitaire™ Platinum

VISUALIZE IT



RETRIEVE IT





ENHANCED VISUALIZATION









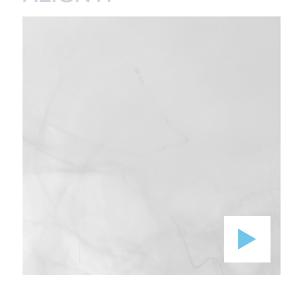
Visualize stent behavior during retrieval for optimal revascularization and **clot capture success**

UNIQUE PARAMETRIC DESIGN

ENHANCED VISUALIZATION

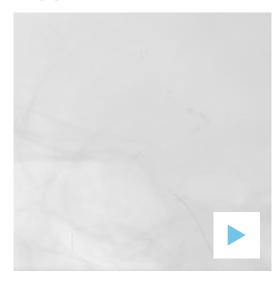
SOLITAIRE™ X Information

ALIGNIT



Images: Solitaire™ Platinum

VISUALIZE IT



RETRIEVE IT







A DIFFERENCE YOU CAN FEEL, WITH PRECISION YOU CAN SEE







CLICK TO LEARN MORE

UNIQUE PARÂMETRIC DESIGN

ENHANCED VISUALIZATION

SOLITAIRE[™]



For 10 years, Solitaire[™] Revascularization Device has supported you in helping your patients with a better chance of recovery

Now we advanced our design for optimized delivery and ease of use^{23,24}, while retaining the clinically proven²⁵ features you've come to depend on

TECHNICAL CHARACTERISTICS









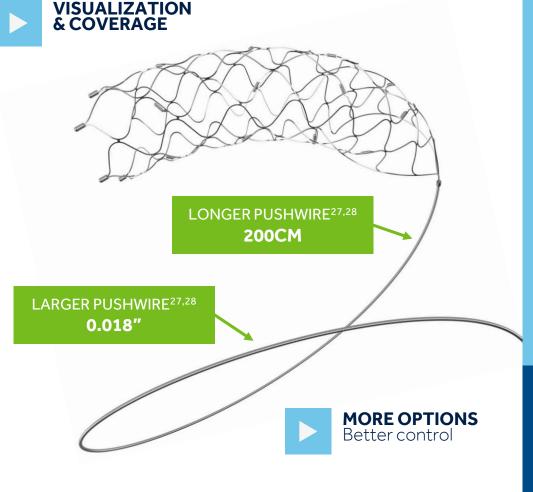


A DIFFERENCE YOU CAN FEEL, WITH PRECISION YOU CAN SEE









OPTIMIZED DELIVERY IMPROVED EFFICIENCY²⁶

Our Solitaire™ X Revascularization Devicedesigned with an **optimized delivery** system—produces lower delivery force²⁷ for improved procedural efficiency and smooth navigation through even the most complicated anatomy

47% LOWER DELIVERY FORCE^{26,27}

in a .021" Microcatheter²⁹ Size: 6-40-10

Solitaire[™] X Phenom[™] 21

Solitaire[™] Platinum Phenom[™] 27 UNIQUE PARAMETRIC DESIGN

ENHANCED VISUALIZATION

SOLITAIRETM

INFORMATION







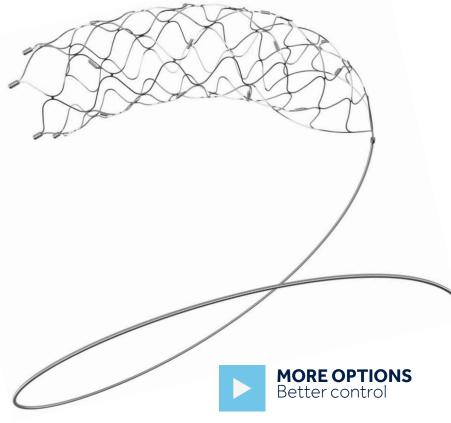
A DIFFERENCE YOU CAN FEEL, WITH PRECISION YOU CAN SEE





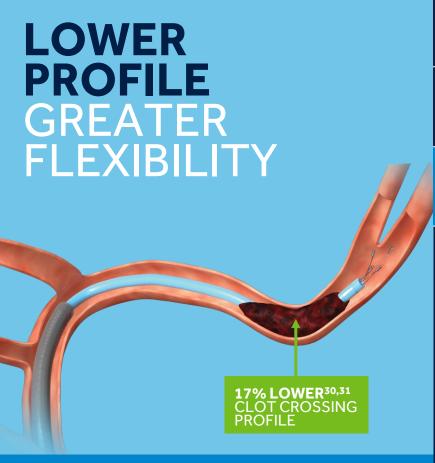












When combined with a 0.021" microcatheter, the Solitaire™ X
Revascularization Device provides smooth and adaptable deliverability with a lower clot crossing profile³2

UNIQUE PARAMETRIC DESIGN

ENHANCED VISUALIZATION

SOLITAIRE[™]

INFORMATION







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WISUALIZATION & COVERAGE

UNIQUE PARAMETRIC DESIGN

ENHANCED VISUALIZATION

SOLITAIRE™

ÎNFORMATION





Complete visualization and coverage from M2 to ICA^{33,34}

(Image courtesy of Dr Dennis Rivet)

The Solitaire™ X Revascularization Device enables reliable and effective use in **vessels** as **small as 2.0mm** so you can confidently treat distal occlusions out to M2







A DIFFERENCE YOU CAN FEEL, WITH PRECISION YOU CAN SEE







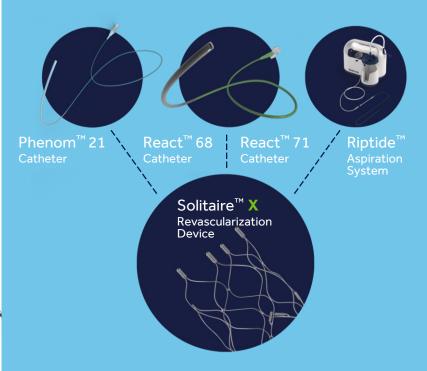








MORE OPTIONS BETTER CONTROL



The Solitaire[™] X Revascularization Device's

expanded compatibility gives you the flexibility to employ the optimal technology for each procedure UNIQUE PARAMETRIC DESIGN

ENHANCED VISUALIZATION

SOLITAIRE™ X INFORMATION



A DIFFERENCE YOU CAN FEEL, WITH PRECISION YOU CAN SEE







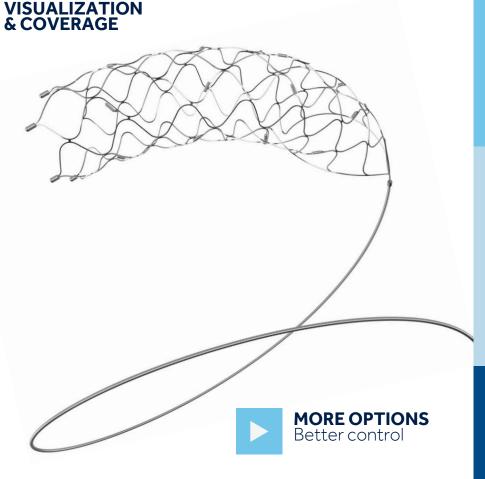
PARAMETRIC **DESIGN**

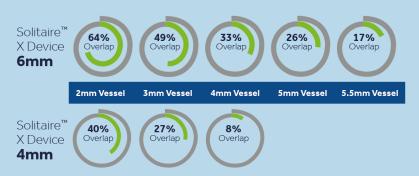
The Solitaire™ Revascularization Devices features a unique parametric design for dynamic clot integration^{35,36}

UNIQUE PARAMETRIC DESIGN

ENHANCED VISUALIZATION

SOLITAIRE™





LEARN MORE PARAMETRIC DESIGN

DIFFERENTIATED



Medtronic



PARAMETRIC

Design

⊿TH Generation





A DIFFERENCE YOU CAN FEEL, WITH PRECISION YOU CAN SEE





VISUALIZATION & COVERAGE



4th GENERATION

FEATURES & INDICATIONS

Indicated from 2MM vessels Compatible with .021" microcatheters



UNIQUE PARAMETRIC DESIGN

ENHANCED VISUALIZATION

SOLITAIRE[™]

Pushwire diameter 0.018 Pushwire length 200cm



5 rows of evenly spaced markers every 10 mm with 3 body markers/row



→ 3 or 4 distal markers

Providing meaningful real 3D visualization, for confidence and feedback during the procedure



WHAT REMAINS UNCHANGED

- Unique parametric design
- Stent design & visibility
- Diameters & Lengths
- Indications, Instructions & Warnings





MORE OPTIONS

Better control





SOLITAIRE™X A DIFFERENCE YOU CAN FEEL, WITH PRECISION YOU CAN SEE



Solitaire[™] X device ordering information

Model	Recommended Vessel Diameter^ (mm)		Minimum Microcatheter ID (inch)		Push Wire Length	Stent Diameter	Usable Length ^B	Stent Length	Length from Distal Tip to Flourosafe Marker	Radiopaque Markers		Radiopaque Stent Markers Spacing
	(min)	(max)	(min)	(max)	(cm)	(mm)	(mm)	(mm)	(cm)	Distal	Prox.	(mm)
SFR4-4-20-05	2.0	4.0	0.021	0.027	200	4.0	20.0	31.0	<130	3	1	5
SFR4-4-40-10	2.0	4.0	0.021	0.027	200	4.0	40.0	50.0	<130	3	1	10
SFR4-6-20-10	2.0	5.5	0.021	0.027	200	6.0	20.0	31.0	<130	4	1	10
SFR4-6-40-10	2.0	5.5	0.021	0.027	200	6.0	40.0	47.0	<130	4	1	10

A. Based on the smallest vessel diameter at thrombus site. B. Usable length that is at least as long as the length of the thrombus. Up to 3 retrieval passes³⁸

UNIQUE PARAMETRIC DESIGN

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SOLITAIRETM

NFORMATION



The Solitaire $^{\text{M}}$ Platinum Revascularization Device is intended to restore blood flow by removing thrombus from a large intracranial vessel in patients experiencing ischemic stroke within 8 hour of symptom onset. Patients who are ineligible for intravenous tissue plasminogen activator (IV t-PA) or who fail IV t-PA therapy are candidates for treatment.

The Solitaire[™] X Revascularization Device is indicated for use to restore blood flow in the neurovasculature by removing thrombus for the treatment of acute ischemic stroke to reduce disability in patients with a persistent, proximal anterior circulation, large vessel occlusion of the internal carotid artery (ICA) or middle cerebral artery (MCA)-M1 segments with smaller core infarcts (<70 cc by CTA or MRA, <25 cc by MR-DWI). Endovascular therapy with the device should start within 6-16 hours of time last seen well in patients who are ineligible for intravenous tissue plasminogen activator (IV t-PA) or who fail IV t-PA therapy.

Phenom[™] Catheters are intended for the introduction of interventional devices and infusion of diagnostic or therapeutic agents into the neuro, peripheral, and coronary vasculatures.

The React[™] 68 Catheter and React[™] 71 Catheter are indicated for the introduction of interventional devices into the peripheral and neuro vasculature.

The Riptide[™] Aspiration System is intended for use in the revascularization of patients with acute ischemic stroke secondary to intracranial large vessel occlusive disease (within the internal carotid, middle cerebral M1 and M2 segments, basilar, and vertebral arteries) within 8 hours of symptom onset. Patients who are ineligible for intravenous tissue plasminogen activator (IV t-PA) or who fail IV t-PA therapy are candidates for treatment. Riptide[™] is not currently CE marked and is only distributed in the United States.

See the device manual for detailed information regarding the instructions for use, indications, contraindications, warnings, precautions, and potential adverse events. For further information, contact your local Medtronic representative and/or consult the Medtronic website at medtronic.eu.

Europe

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medtronic.eu

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SAFETY WITH CONSISTENT & STABLE CELL AREA

UNIQUE PARAMETRIC DESIGN

ENHANCED VISUALIZATION

SOLITAIRE™ X Information

REFERENCES

- 1. TR-NV15666A Rev A
- 2. TR-NV13807 Rev A





ADAPTABILITY
With overlapping
stent-based design



Solitaire parametric design is providing a **consistent and stable cell area** in order to optimize clot retention according to varying anatomies









EFFICACY

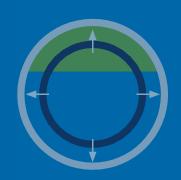


ENHANCED VISUAI IZATION

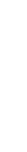
SOLITAIRE™



3. Trevo XP Provue Brochure NV00004347 (AD)



Depiction of a standard competitor one plane of contact1





The Solitaire'" Platinum device is a unique stent retriever with an overlapping design providing multiple planes of clot integration contact and a differentiated radial outward force















ADAPTABILITY
WITH OVERLAPPING
STENT-BASED DESIGN



- 2. TR-NV13807 Rev A
- **4.** TR-NV15666A Rev A







nt design allows

the device to **expand in larger vessels and compress in smaller vessels** during deployment and retrieval²



ENHANCED VISUALIZATION

SOLITAIRE™ X Information









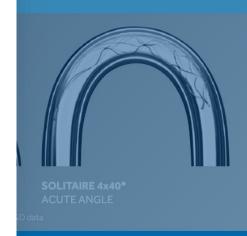




CONFIDENCE DURING THE PROCEDURE



5. Internal Data (PR-NV12554 Rev B)



L WALL



Maintains the thrombus engaged within its struts during the retrieval Limits device elongation and foreshortening during deployment and delivery

















A DIFFERENCE YOU CAN FEEL. WITH PRECISION YOU CAN SEE





OPTIMIZED DELIVERY Improved Efficiency

VISUALIZATION & COVERAGE



LOWER PROFILE greater flexibility

CLICK - TO LEARN MORE





SOLITAIRE™



REFERENCES



23. TR-NV16168 Rev A24. Compared to Solitaire™ Platinum

25. STRATIS, SWIFT PRIME, ESCAPE, Nasa Registry, THRACE, MR CLEAN, STAR, EXTEND IA, HERMES, SEER, REVASCAT, DEFUSE 3, Note: The Solitaire™ X Revascularization Device was not evaluated in these studies

e™ Revascularization ed you in helping your er chance of recovery.

ur design for and **ease of use^{23,24},** inically proven²⁵ le to depend on



CHARACTERISTICS



MORE OPTIONS
Better control





4TH Generation









VISUALIZATION & COVERAGE



OPTIMIZED



UNIQUE PARAMETRIC

ENHANCED VISUALIZATION

SOLITAIRE[™]



26. TR-NV16168 Rev A

27. Compared to Solitaire™ Platinum

28.71042-001 Rev B

29. Phenom 21 Catheter



timized delivery



200CM

MORE OPTIONS Better control

> FORCF^{26,27} in a .021"

LOWER

DELIVERY

Microcatheter²⁹

Size: 6-40-10

Solitaire[™] Platinum Phenom[™] 27



0.018"



⊿TH Generation









LOWER PROFILE



ENHANCED VISUALIZATION

SOLITAIRE[™]



REFERENCES

30. DWGSFG13XXX-YYyy-Zz Rev B

31. DWGSFG15XXX-YYyy-Zz Rev B

32. Compared to Solitaire™ Platinum





olitaire™ X

and adaptable deliverability with a lower clot crossing profile³²





MORE OPTIONS

Better control





⊿TH Generation









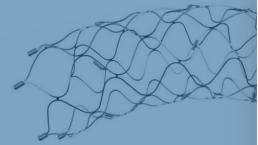
& COVERAGE

UNIQUE PARAMETRIC

ENHANCED VISUAI IZATION

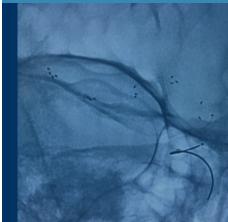
SOLITAIRE™





REFERENCES

33. Umansky, F. et al. Microsurgical anatomy of the proximal segments of the middle cerebral artery **34.** TR-NV15666A Rev A









MORE OPTIONS Better control

The Solitaire™ X Revascularization Device enables reliable and effective use in **vessels** as small as 2.0mm so you can confidently treat distal occlusions out to M2





⊿TH Generation



A DIFFERENCE YOU CAN FEEL, WITH PRECISION YOU CAN SEE





VISUALIZATION & COVERAGE



PARAMETRIC **DESIGN**



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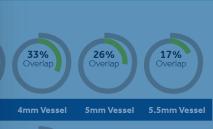
SOLITAIRE™ X INFORMATIC

REFERENCES

35. TR-NV13807

36. TR-NV15666A Rev A

37. TR-NV12180 Rev A



ascularization Devices

arametric design for

8% Overlap

ation^{35,36}

X

DIFFERENTIATED
RADIAL OUTWARD



ABOUT PARAMETRIC DESIGN





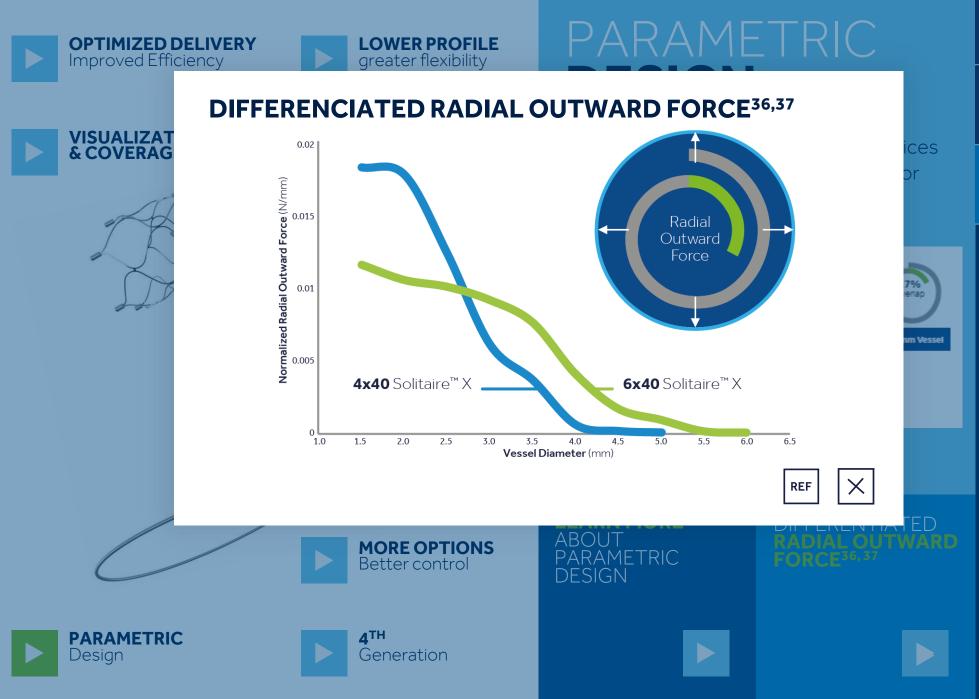






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UNIQUE PARÂMETRIC DESIGN

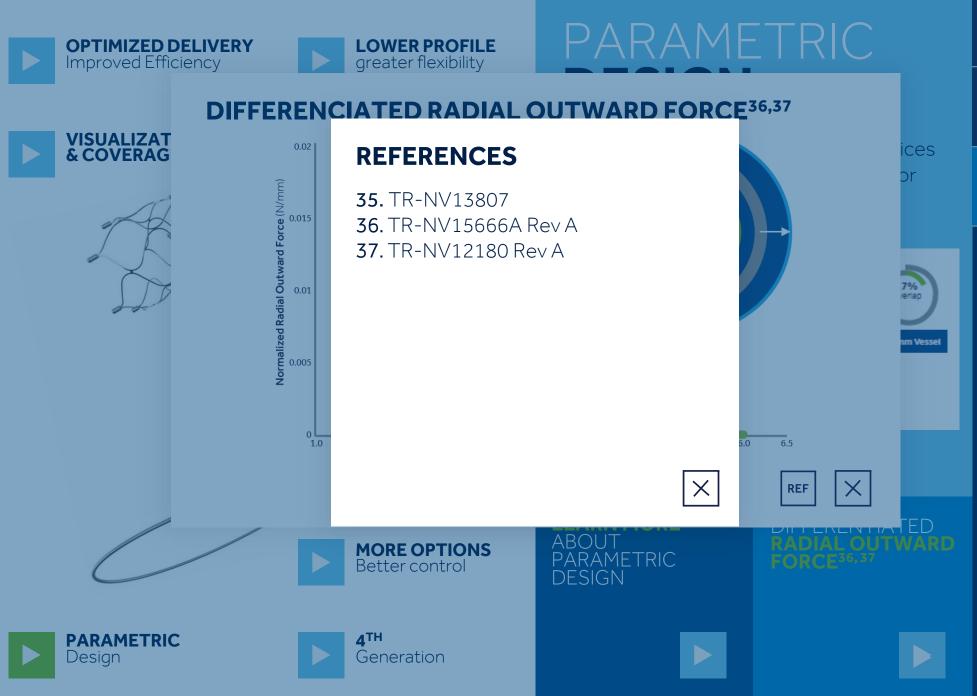
ENHANCED VISUALIZATION

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UNIQUE PARAMETRIC DESIGN

ENHANCED VISUALIZATION

SOLITAIRETM X

