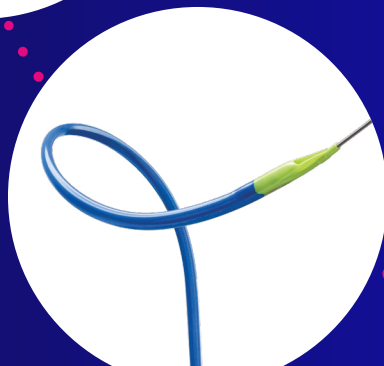


Medtronic



From everyday cases to the most complex, our **coronary catheter portfolio** is built to deliver.

# Medtronic

## Diagnostic and guide catheters

- DxTerity™ diagnostic and universal transradial catheters
- Launcher™ and Sherpa NX™ guide catheters

## Guide extension and aspiration catheters

- Telescope™ guide extension catheters
- Export Advance™ aspiration catheter
- Export™ AP aspiration catheter

## Full-wall technology

The foundation of our coronary catheter portfolio

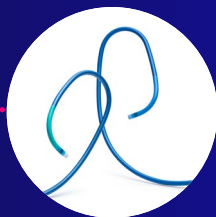
# Built to deliver.

## What does it mean?

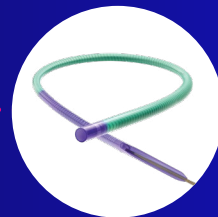
Every intricacy of our catheter design is built to be an **extension of your hands – intuitive, responsive, agile.**<sup>1-3</sup> Feel the difference in every procedure as you deliver transformative care and meaningful outcomes for your patients.



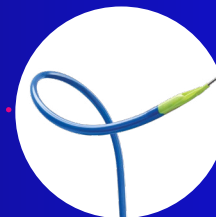
DxTerity diagnostic and TRA catheters



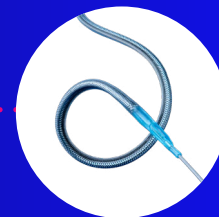
Launcher and Sherpa NX guide catheters



Telescope guide extension catheter



Export Advance aspiration catheter



Export AP aspiration catheter

1. Based on internal bench test report (10839897DOC), Telescope competitor evaluation report, n = 8 of each guide extension catheter.  
2. Based on internal bench test data (CO10091869), Aspiration Catheter Competitive Testing.  
3. Based on internal position paper (PP5183), 6 F Competitive Testing Statistical Analysis. N = 5 guide catheter of each tested.



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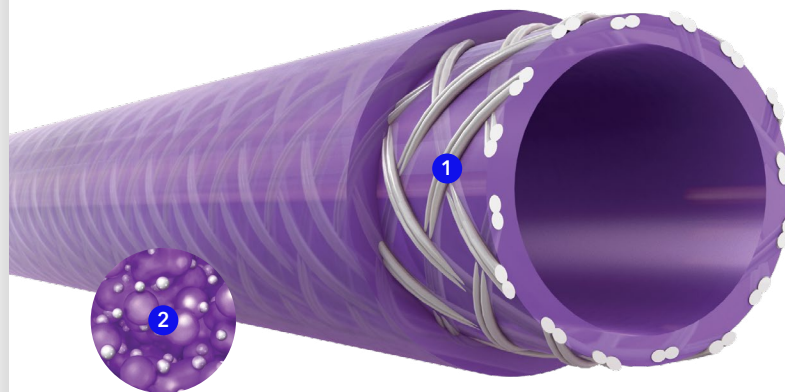
The foundation of our coronary catheter portfolio



## DxTerity diagnostic and universal transradial catheters

### Enhanced deliverability – precise manipulation†,1

DxTerity diagnostic catheter is built with **full-wall technology** and offers **superior torque** and **lubricity**.†,1



#### 1. Enhanced torque and support

Double-braid wire applied from hub to tip forms the backbone of the catheter shaft, enhancing torque and support for precise manipulation.†,1

#### 2. Superior lubricity

Our InSlide™ polymer additive is incorporated into the outer layer, providing superior lubricity for enhanced deliverability.†,1

™\* Third-party brands are trademarks of their respective owners.

† May not be indicative of clinical performance.

1. Based on internal position paper (10254609DOC), Position paper DxTerity angiography catheter Supporting device deliverability.

2. Based on internal bench test data (10255350DOC), DxTerity competitive testing report, n = 3 of each 5 F and 6 F JL 4.0 diagnostic catheter.

## Diagnostic and guide catheters

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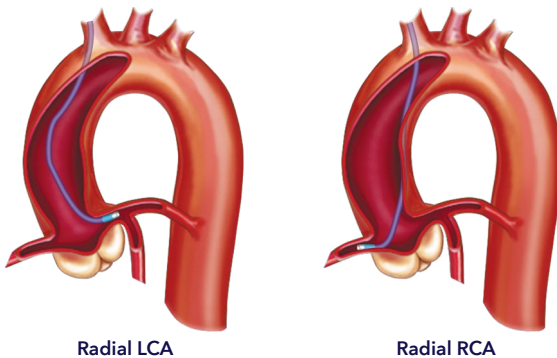
The foundation of our coronary catheter portfolio



## DxTerity diagnostic and universal transradial catheters

### Minimize exchanges with universal radial curve shapes<sup>†,1</sup>

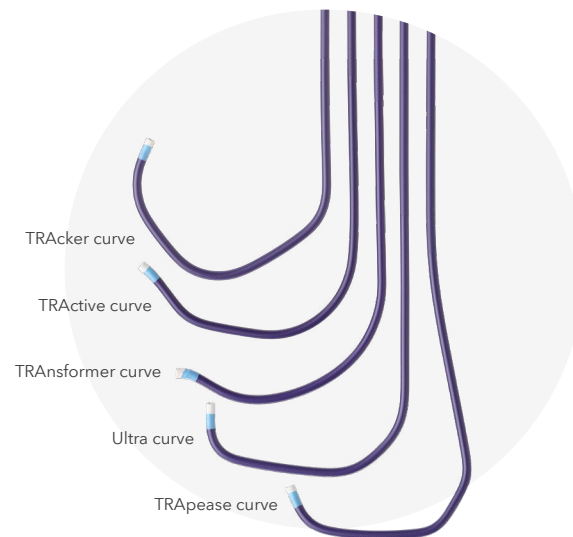
DxTerity TRA diagnostic catheters are specifically adapted for radial use to access **both coronaries without catheter exchange**<sup>†,1</sup>



Radial LCA

Radial RCA

- Simple clockwise and counter clockwise rotations to **engage the RCA**<sup>‡</sup>
- A **relaxed secondary curve** allows for easy engagement of the coronary ostia<sup>‡</sup>



<sup>†</sup> May not be indicative of clinical performance.

<sup>‡</sup> The curve shape and size recommendation in this context are a general reference and not meant to replace patient specific clinical judgement.

1. Based on internal preclinical research report (PS681), Acute physician evaluation of Medtronic radial access kit and diagnostic catheter prototypes in the porcine model, n = 2 Medtronic diagnostic catheter, compared to Cordis Infiniti (n = 6) and Terumo Optitorque (n = 6).

## Diagnostic and guide catheters

- DxTerity™ diagnostic and universal transradial catheters
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## Full-wall technology

The foundation of our coronary catheter portfolio



DxTerity diagnostic catheter		
Specifications	5 F	6 F
Catheter length (cm) <sup>1</sup>	100, 110, 125	100, 110, 125
I.D. (in) <sup>1</sup>	0.047	0.056
O.D. (in) <sup>1</sup>	0.068	0.078
Braiding <sup>2</sup>	Hub-to-tip with double braid wire stainless steel	
Coating <sup>2</sup>	InSlide™ polymer additive	
Curve types (Standard)	JL, JR, AL, AR, Multi, Pigtail	
Curve types (Specialty)	NOTO, 3DRC, RCB, LCB, IMA	
Universal transradial curve types	TRacker, TRapease, TRAnsformer, TRActive, Ultra	
Dye flow rate at: (mL/sec) <sup>1</sup>	600 psi 15 mL/sec	1200 psi 21 mL/sec

1. Based on internal bench test data (10184072DOC), Product performance specification report: DxTerity Diagnostic Catheter.

2. Based on internal design verification report (10252455DOC). DxTerity 5F and 6F Coronary curve diagnostic catheter design verification.

## Diagnostic and guide catheters

- DxTerity™ diagnostic and universal transradial catheters
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## Guide extension and aspiration catheters

- Telescope™ guide extension catheters
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## Full-wall technology

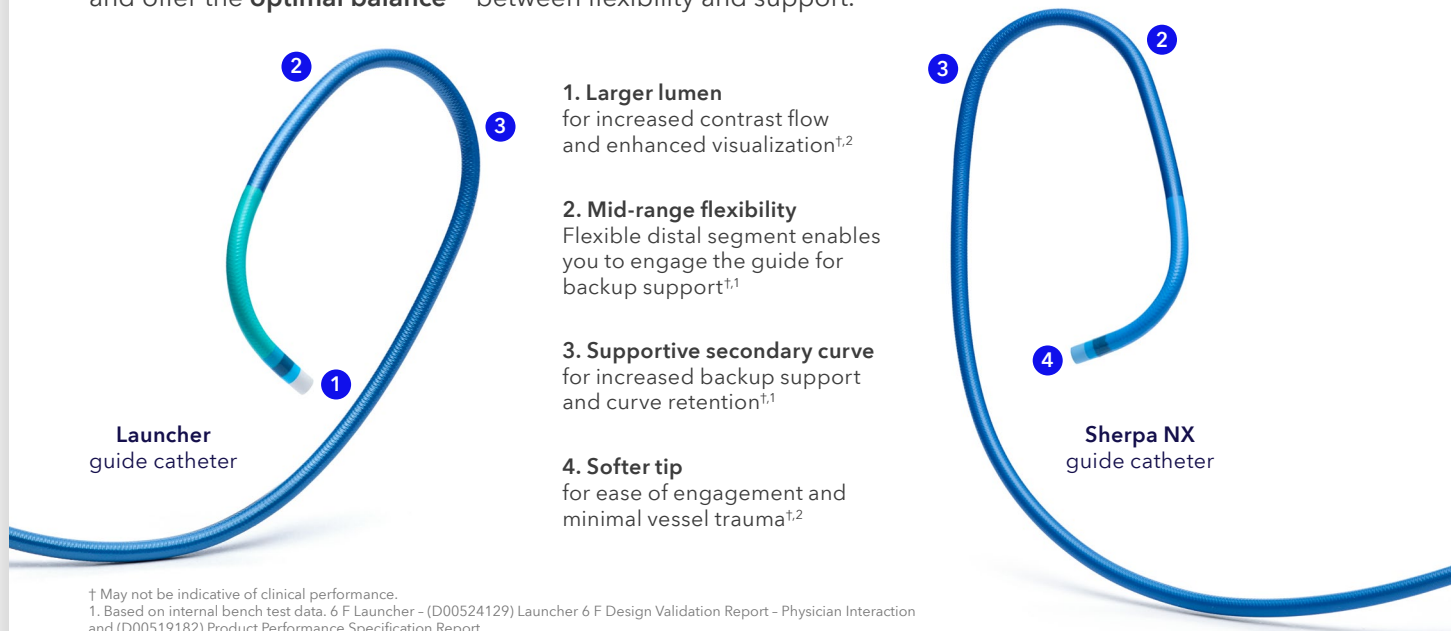
The foundation of our coronary catheter portfolio



## Launcher and Sherpa NX guide catheters

### Balanced performance that's ahead of the curve†,1

Launcher and Sherpa NX guide catheters are built with **full-wall technology** and offer the **optimal balance**†,1 between flexibility and support.



† May not be indicative of clinical performance.

1. Based on internal bench test data. 6 F Launcher - (D00524129) Launcher 6 F Design Validation Report - Physician Interaction and (D00519182) Product Performance Specification Report.

2. Based on internal position paper (PP5183), 6 F Competitive Testing Statistical Analysis. N = 5 guide catheter of each tested.

## Diagnostic and guide catheters

- DxTerity™ diagnostic and universal transradial catheters
- Launcher™ and Sherpa NX™ guide catheters

## Guide extension and aspiration catheters

- Telescope™ guide extension catheters
- Export Advance™ aspiration catheter
- Export™ AP aspiration catheter

## Full-wall technology

The foundation of our coronary catheter portfolio



Launcher and Sherpa NX guide catheters				
Specifications	5 F	6 F	7 F	8 F
Catheter length (cm) <sup>1</sup>	55, 60, 80, 90, 100, 110, 118 (with or without sideholes)			
Launcher I.D. (in) <sup>1</sup>	0.058	0.071	0.081	0.090
Sherpa NX I.D. (in) <sup>2</sup>	–	0.070	0.080	–
Launcher O.D. (in) <sup>1</sup>	0.0695	0.082	0.094	0.10
Sherpa NX O.D. (in) <sup>2</sup>	–	0.082	0.094	–
Braiding <sup>3</sup>	Hub-to-tip with single flat stainless steel			
Coating <sup>3</sup>	Vest Tech Nylon™*/Pebax™* outer polymer			
Curve types (Standard)	JL, JR, JCL, JCR, AL, AR, SAL, SAR, FL, FR			
Curve types (Specialty)	EBU, MAC, Bypass, Champ, ECR, ERD, RBU, ALR12, SCR, Peripheral, Radial, NOTO, El GAMAL, 3DRC, 3DRIGHT, Multipurpose, etc.			
Universal transradial curve types	PAPA, PAPA1, MAC3030, MRESS, MRADIAL			

**Note:** Sherpa Balanced guide catheters are available in 6 F and 7 F sizes.

™\* Third-party brands are trademarks of their respective owners.

1. Based on internal bench test data (D00519182), Launcher Product performance specification report.

2. Based on internal bench test data (D00558545), Sherpa NX product performance specification report.

3. Based on internal bench test report (MVP10142), Master validation plan and report.

## Diagnostic and guide catheters

- DxTerity™ diagnostic and universal transradial catheters
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## Guide extension and aspiration catheters

- Telescope™ guide extension catheters
- Export Advance™ aspiration catheter
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## Full-wall technology

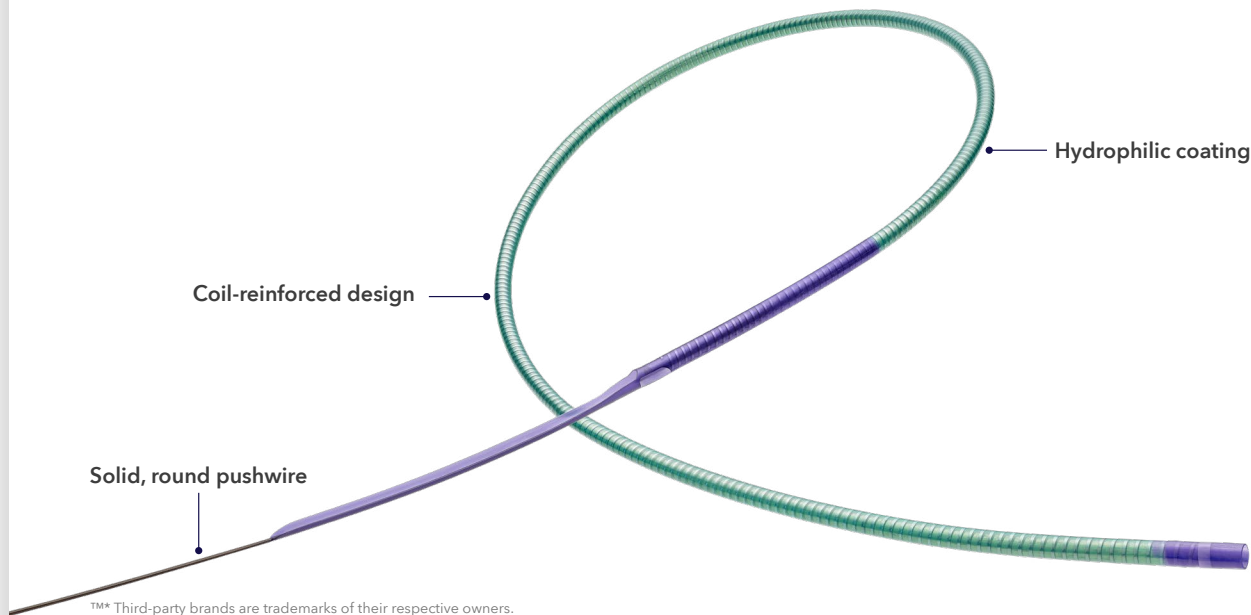
The foundation of our coronary catheter portfolio



## Telescope guide extension catheter

### Pushing past the ordinary to the complex

In difficult cases, Telescope GEC offers a blend of **superior deliverability**,<sup>†1</sup> **the softest tip**,<sup>†1</sup> and **SmoothPass technology**<sup>†2</sup> to improve access to distal lesions.



<sup>™\*</sup> Third-party brands are trademarks of their respective owners.

<sup>†</sup> May not be indicative of clinical performance.

1. Based on internal bench test report (10839897DOC), Telescope competitor evaluation report, n = 8 of each guide extension catheter.

2. Based on internal document (10703702DOC), Telescope guide extension catheter design freeze document.

## Diagnostic and guide catheters

- DxTerity™ diagnostic and universal transradial catheters
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## Guide extension and aspiration catheters

- Telescope™ guide extension catheters
- Export Advance™ aspiration catheter
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## Full-wall technology

The foundation of our coronary catheter portfolio



## Telescope guide extension catheter

### SmoothPass technology

Telescope GEC with SmoothPass technology includes three components that work together to help deliver stents, balloons, and other interventional devices.

**Entry port**  
contributes to smooth device entry and delivery†,1-3

**Short 4 cm polymer on-ramp**  
maintains superior deliverability†,2  
and channels interventional devices

**Tapered distal pushwire section**  
transitions from solid, round,  
proximal pushwire for flexibility†

† May not be indicative of clinical performance.

1. Based on internal document (10703702DOC), Telescope guide extension catheter design freeze document.

2. Based on internal bench test report (1083989DOC), Telescope competitor evaluation report, n = 8 of each guide extension catheter.

3. Based on design concept document (10559010DOC), Telescope.

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## Full-wall technology

The foundation of our coronary catheter portfolio

Telescope guide extension catheter		
Specifications <sup>1,2</sup>	6 F	7 F
Catheter length (cm)	150	150
I.D. (in)	≥ 0.0540	≥ 0.0600
O.D. (in)	0.0689	0.0754
Required GC I.D. (in)	≥ 0.070	≥ 0.078
Marker band material	Platinum-iridium	
Marker band lengths (locations)	1 mm (2 mm from distal tip)	
Coating	Hydrophilic (outer layer of distal 21 cm)	
Pushwire length (cm)	125	
Tapered pushwire portion (cm)	10	
On-ramp length (cm)	4	
TruFlex™ tip (mm)	2	

1. Based on internal document (10703702DOC), Telescope guide extension catheter design freeze document.  
 2. Based on internal product drawing (M971643A001DOC), 6Fr Proximal sub assembly specification.



## Diagnostic and guide catheters

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## Guide extension and aspiration catheters

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## Full-wall technology

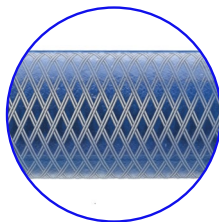
The foundation of our coronary catheter portfolio



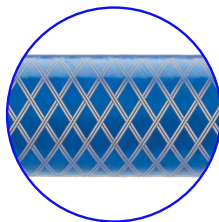
## Export Advance and Export AP aspiration catheters

### Superior deliverability and kink resistance†,1

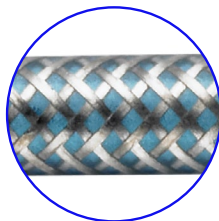
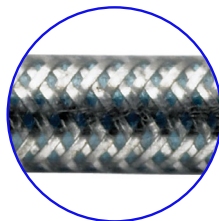
Export™ aspiration catheters are built with **full-wall technology** and offer **flexible levels of stiffness** to push in the proximal end and flex in the distal end.†,1



Proximal shaft braiding enhances pushability<sup>2</sup>



Distal shaft braiding increases flexibility<sup>2</sup>



### Export Advance

The **double-tow braiding design** for larger lumen, superior deliverability, and kink resistance†,2

### Export AP

The **flat-wire braiding design** for workhorse performance†,2

† May not be indicative of clinical performance.

1. Based on internal competitive bench test data (10093906DOC), Aspiration catheter competitive testing, n = 5 of each aspiration catheter.

2. Based on internal bench test data (10010520DOC - AP/10091869DOC - Advance), Aspiration catheter design verification report, n = 30.

## Diagnostic and guide catheters

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## Full-wall technology

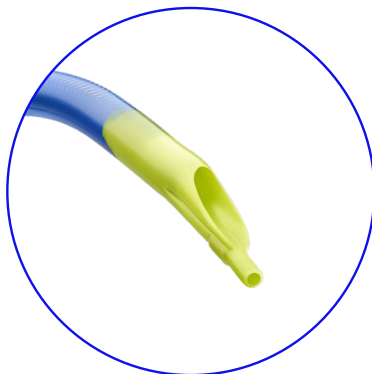
The foundation of our coronary catheter portfolio



## Export Advance and Export AP aspiration catheters

### High-performing aspiration power†,1

Export aspiration catheters deliver consistent, **high performing aspiration power**†,1 when it matters most.



**Export Advance stylet-based catheter**  
Large extraction lumen increases aspiration power.†,2



**Export AP non-stylet-based catheter**  
Soft, short, forward-facing tip design captures particles.†,2

† May not be indicative of clinical performance.

1. Based on internal competitive bench test data (10093906DOC), Aspiration catheter competitive testing, n = 5 of each aspiration catheter.

2. Based on internal bench test data (10010520DOC - AP/10091869DOC - Advance), Aspiration catheter design verification report, n = 30.

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## Full-wall technology

The foundation of our coronary catheter portfolio



Specifications <sup>1</sup>	Export Advance catheter	Export AP catheter
Length (cm)	140	140
Proximal I.D. (in)	0.044	0.043
Wire lumen I.D. (in)	0.015	0.015
O.D. (in)	0.067	0.067
Guide catheter compatibility (in)	0.070 (6 F)	0.070 (6 F)
Max crossing profile (in)	0.068	0.068
Stylet	Y	N
Coating	Hydrophilic 40 cm	Hydrophilic 40 cm
Syringe (cc)	2 x 30	2 x 30

1. Based on internal bench test data (10010520DOC - AP 10091869DOC - Advance), Aspiration catheter design verification report, n = 30.

# Medtronic

## Diagnostic and guide catheters

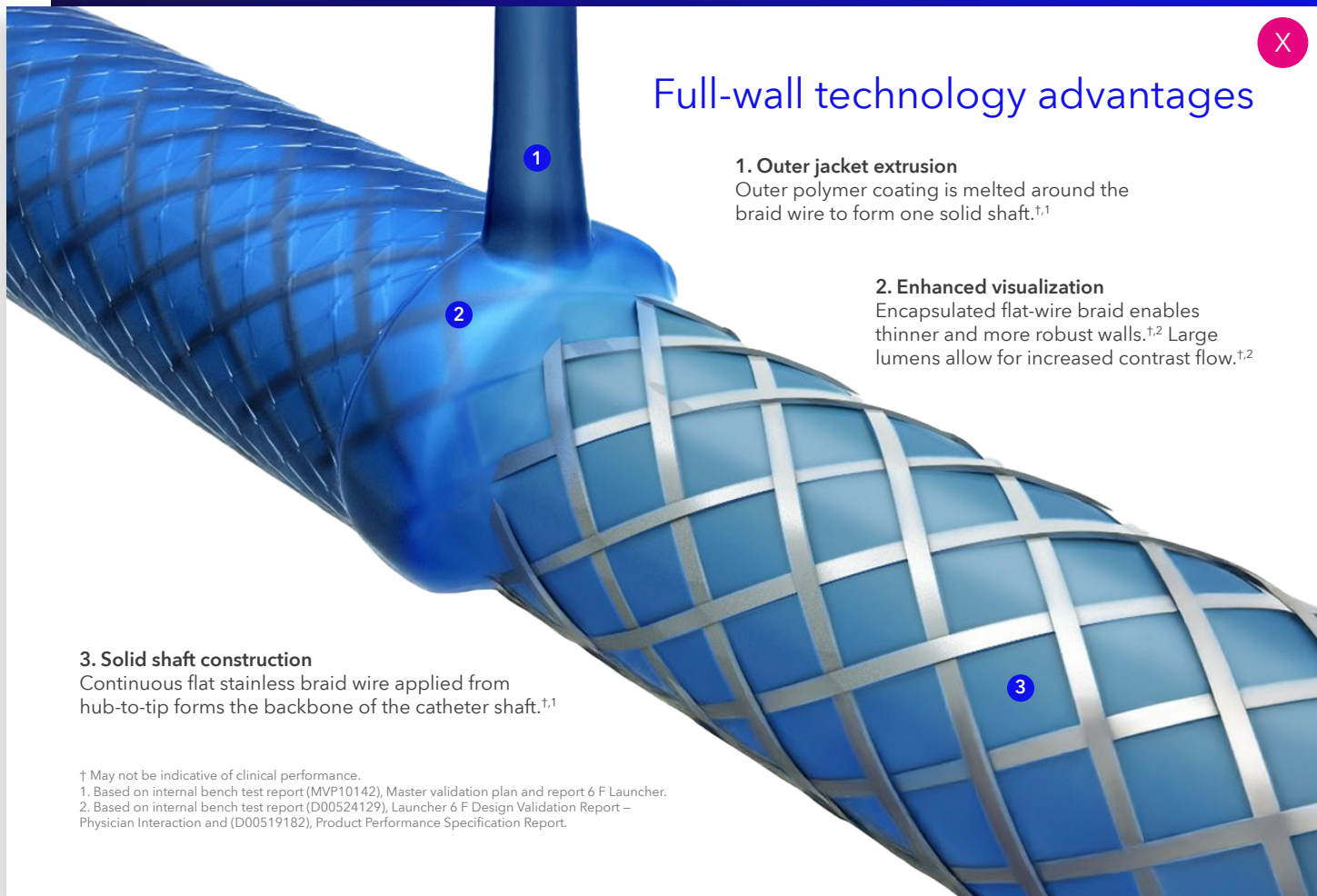
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## Full-wall technology

The foundation of our coronary catheter portfolio



† May not be indicative of clinical performance.

1. Based on internal bench test report (MVP10142), Master validation plan and report 6 F Launcher.

2. Based on internal bench test report (D00524129), Launcher 6 F Design Validation Report – Physician Interaction and (D00519182), Product Performance Specification Report.



# Medtronic

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This material should not be considered the exclusive source of information, it does not replace or supersede information contained in the device manual(s). Please note that the intended use of a product may vary depending on geographical approvals. See the device manual(s) for detailed information regarding the intended use, the (implant) procedure, indications, contraindications, warnings, precautions, and potential adverse events.

For a MRI compatible device(s), consult the MRI information in the device manual(s) before performing a MRI.

If a device is eligible for eIFU usage, instructions for use can be found at Medtronic's website manuals.medtronic.com.

Manuals can be viewed using a current version of any major internet browser. For best results, use Adobe Acrobat® Reader with the browser.

Medtronic products placed on European markets comply with EU and UK legislation (if applicable) on medical devices.

For any further information, contact your local Medtronic representative and/or consult Medtronic's websites.

For distribution only where the Launcher™ guide catheter and Telescope™ guide extension catheter have been approved.

For distribution only where the DxTerity™ diagnostic catheter, the Sherpa NX™ Balanced guide catheter, the Export Advance™ and Export™ AP aspiration catheter have been approved.

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