



**Make it clear with PCI
Guidance Technology**

Imaging and physiology in combination with the AVVIGO+ guidance system provide a trusted blueprint to guide the best patient outcomes.



AVVIGO+
Multi-Modality Guidance System



COMET II
Pressure Guidewire



OPTICROSS HD
60 MHz Coronary Imaging Catheter

➤ The Data is Clear

Imaging and physiology elevate PCI outcomes.

- Clearer treatment decisions.
- Fewer future complications.
- Better long-term outcomes.



Imaging-guided PCI led to a

37%

REDUCTION

in event rates* than angiography-guided PCI alone¹



Physiologic assessment contributed to a

46%

REDUCTION

of three-vessel ischemic disease diagnosis compared to when no physiology was used²

*Primary endpoint of cardiac death, target vessel-related MI, or clinically driven target vessel revascularization

1. Lee, Joo Myung, et al. "Intravascular Imaging-Guided or Angiography-Guided Complex PCI." RENOvATE-COMPLEX-PCI Trial, New England Journal of Medicine, vol. 388, no. 18, 5 Mar. 2023, pp. 1668-1679, <https://doi.org/10.1056/nejmoa2216607>
2. Banning A, et al. Five-year outcomes after state-of-the-art percutaneous coronary revascularization in patients with de novo three-vessel disease: final results of the SYNTAX II study. Eur Heart J. 2022;43(13): 1307-16.

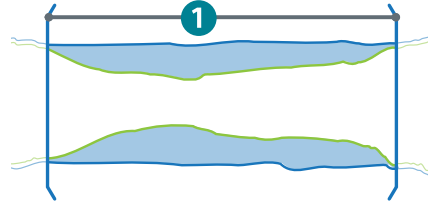
▶ IVUS workflow

IVUS 1 2 3 ESSENTIALS

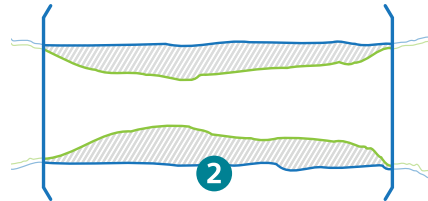
Clinical data consistently shows the benefits of IVUS to determine treatment strategy, guide stent placement, and assess procedural results. We developed IVUS 123 Essentials in partnership with physicians to simplify IVUS workflow and help improve outcomes for patients.

Pre-stent workflow

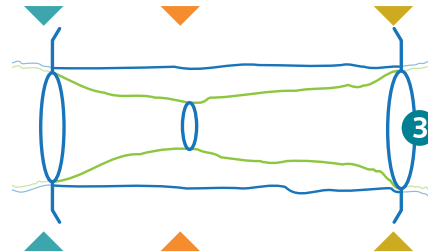
- 1 | Establish lesion length and define landing zones



- 2 | Assess plaque morphology



- 3 | Measure the vessel size



Post-stent workflow

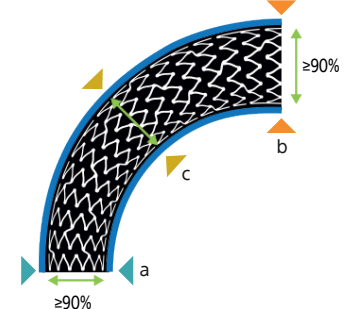
- 1 | Check for geographic miss (a) and edge dissection (b)



- 2 | Check for malapposition



- 3 | Check for optimal stent expansion



▶ What do you see?

Practice image interpretation

IVUS optimizes PCI outcomes.¹ Clinical data consistently shows the benefits of IVUS to determine treatment strategy, guide stent placement, and assess procedural results. We developed IVUS 123 Essentials in partnership with physicians to simplify IVUS workflow and help improve outcomes for patients.

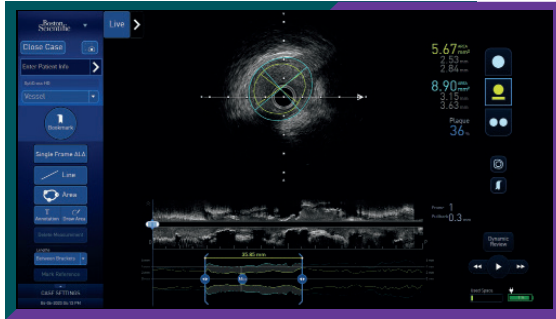


Advance your image interpretation skills with online and offline resources.

IVUS 1 2 3
E S S E N T I A L S

1. Banning A, et al. Five-year outcomes after state-of-the-art percutaneous coronary revascularization in patients with de novo three-vessel disease: final results of the SYNTAX II study. *Eur Heart J.* 2022;43(13): 1307-16.

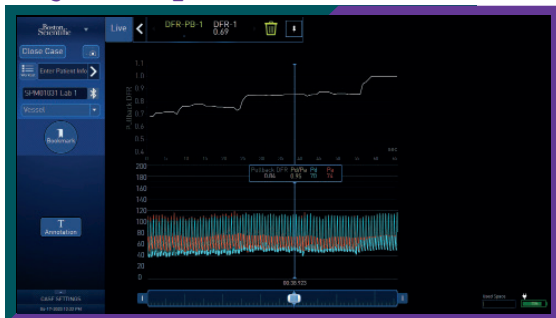
Automated Lesion Assessment (ALA™)



Precise Vessel Measurements¹

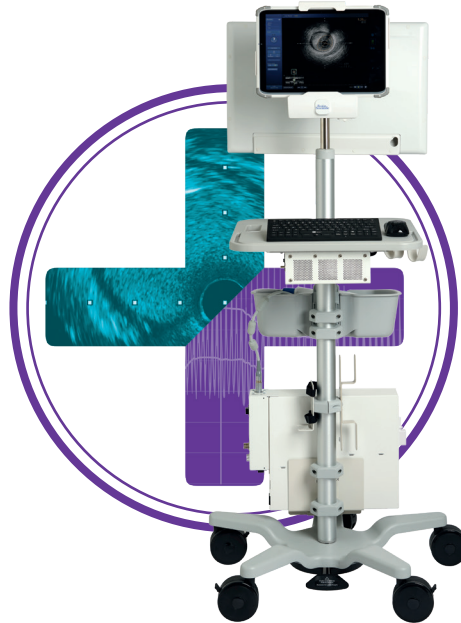
- + AI-enhanced lumen and vessel borders
- + Vessel profile
- + Key frame markers

PhysioMap™

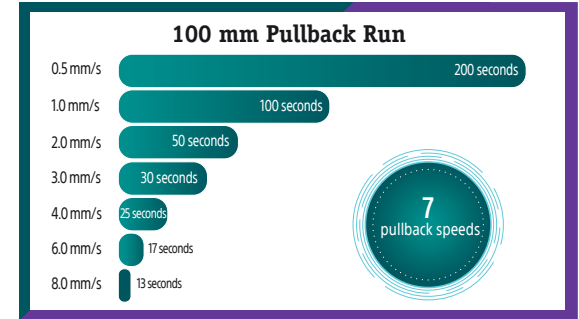


Enhanced DFR guidance*

- + Optimize your treatment decisions by quickly locating regions of pressure change during a pullback



Fast Pullback



High quality images at the pullback speed you want

- + Automatic pullback now includes faster speeds up to 8 mm/s, allowing for quicker vessel imaging

Tableside Control[§]



Complete control from the sterile field

- + Operate IVUS and capture physiological measurements on your integrated system without leaving the sterile field

*DFR or Diastolic hyperemia free ratio is a type of hyperemia free physiologic index

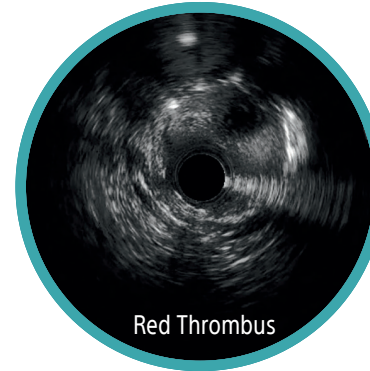
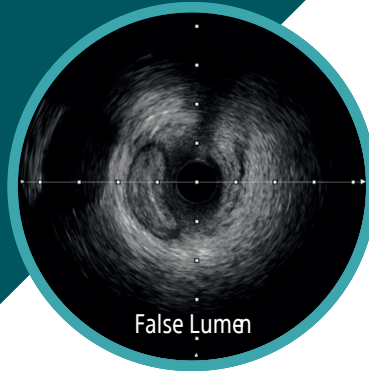
[§]Tableside Control is available on integrated systems only

1. Matsumura, M et al. Accuracy of IVUS-Based Machine Learning Segmentation Assessment of Coronary Artery Dimensions and Balloon Sizing. JACC Adv. 2023; 2(7): 100564. <https://doi.org/10.1016/j.jacadv.2023.100564>

▶ Opticross™ HD 60 Mhz

Coronary Imaging Catheter

- ▶ High definition imaging catheters with clear images and exceptional deliverability to guide confident treatment decisions



▶ Exceptional Deliverability

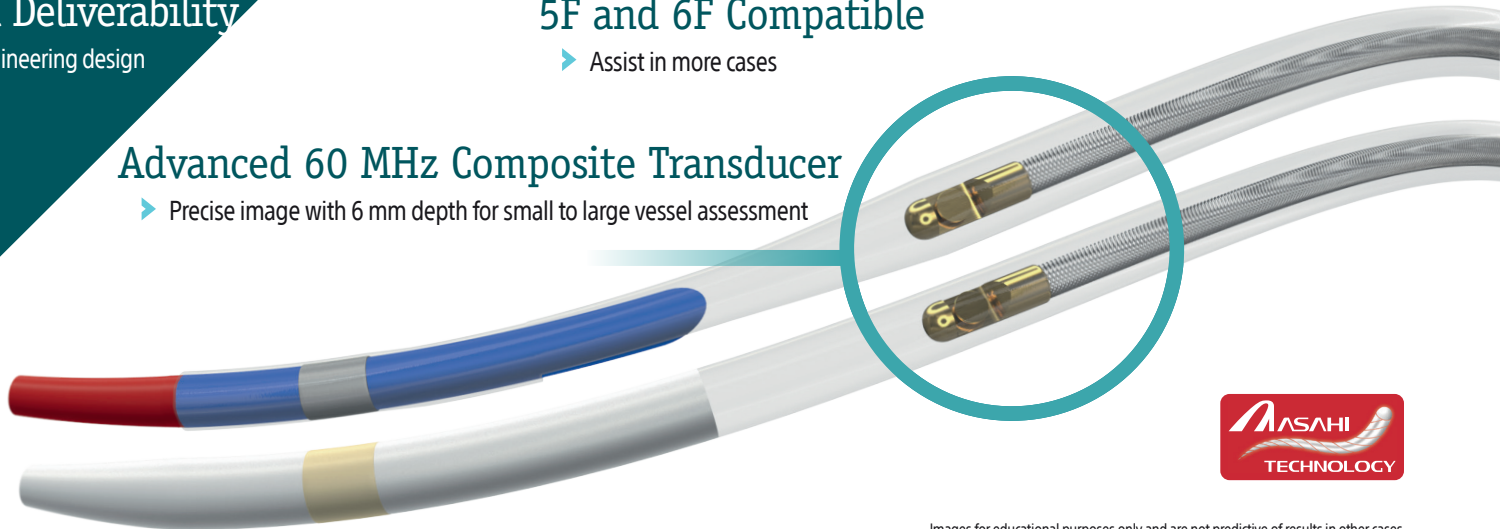
- ▶ Well-balanced engineering design

5F and 6F Compatible

- ▶ Assist in more cases

Advanced 60 MHz Composite Transducer

- ▶ Precise image with 6 mm depth for small to large vessel assessment



▶ Peripheral Imaging Catheter

▶ Detect and treat with confidence.

OPTICROSS™ 35 Peripheral Imaging Catheter

OPTICROSS™ 18 Peripheral Imaging Catheter



Unique Design

Compatible with an 0.035" guidewire, the Opticross 35 uses an exclusive rotating transducer to provide true 360° images for IVUS.



High Image Quality

15 MHz transducer frequency produces IVUS images that feature excellent clarity and a large depth of field



Optimal Outcomes

Clear IVUS images help maximize treatment decisions while reducing complications and readmissions.



Exceptional Deliverability

Compatible with 0.018" guidewire. Balloon tip technology to facilitate crossing and deliverability
Small crossing profile and shaft stiffness transitions for excellent deliverability



Best in Class Image Quality

30 MHz transducer frequency allows for deeper ultrasound penetration than a 40 MHz transducer frequency



Ease of Use

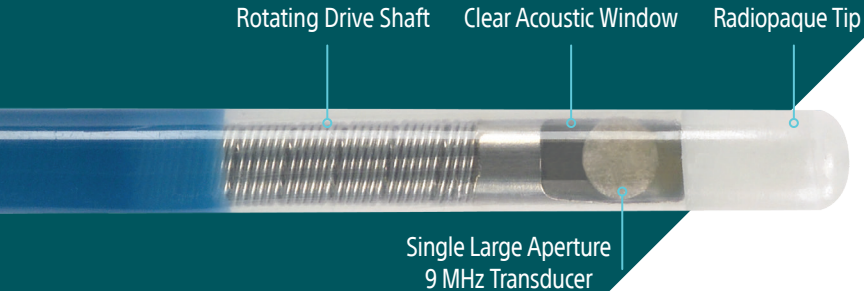
Stronger proximal shaft for great pushability
Ease of flush for quick prep

▶ ULTRA ICE™ PLUS

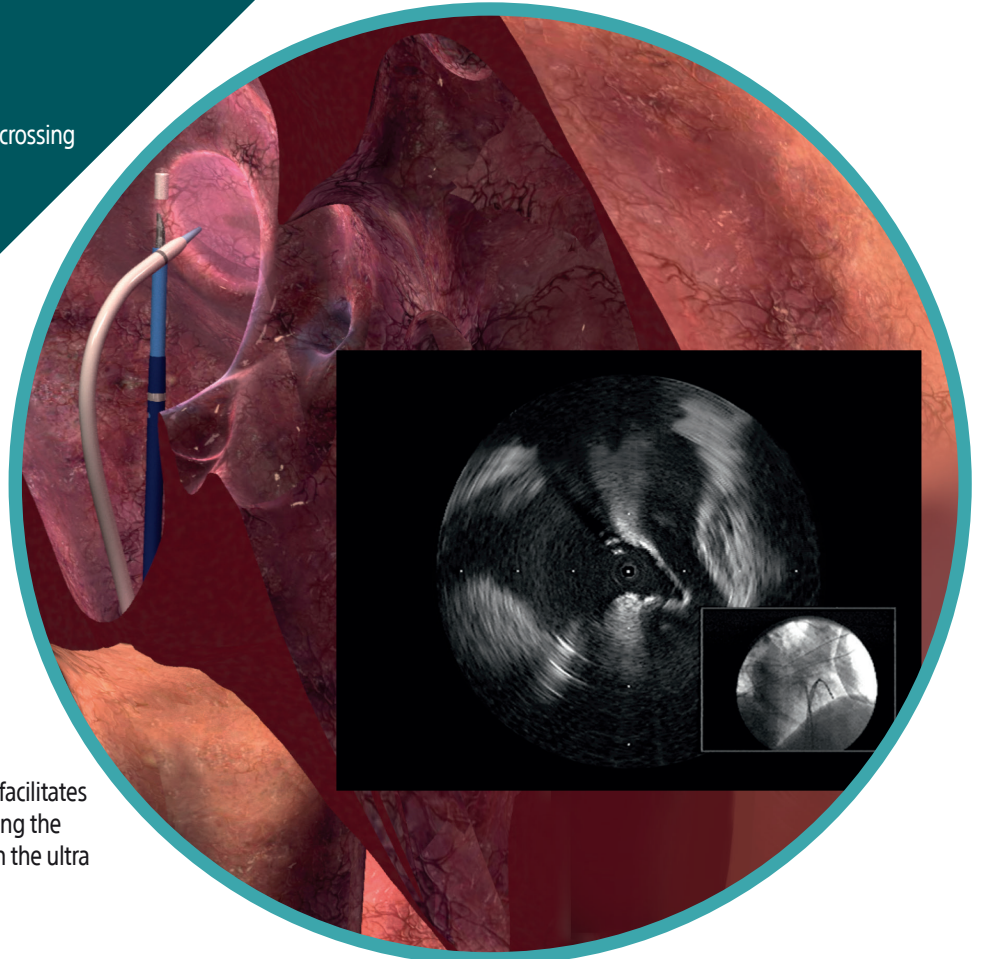
ULTRASOUND IMAGING CATHETER

▶ Unique Vision: 360° view of the world

- ▶ Uniquely designed 9MHz catheter for procedures such as transseptal crossing
- ▶ Excellent near-field detail. Stable positioning. Intuitive interpretation.



- ▶ The radiopaque tip of the ULTRA ICE PLUS Catheter facilitates placement and serves as a fluoroscopic marker during the procedure. The area of interest is the central point in the ultrasound image, providing a clear panorama of what you want to visualize.



▶ Family of IVUS Catheters

	OPTICROSS™ HD	OPTICROSS 6 HD	OPTICROSS 18	OPTICROSS 35	ULTRA ICE™ PLUS
Typical Use	Coronary	Coronary	Peripheral	Peripheral	Intracardiac
Order Number (GTIN)	08714729960751	08714729960799	08714729841531	08714729904779	08714729904373
Ref/Catalog Number	H749 3935202 0	H749 3935406 0	H749 393270018 0	H749 393280135 0	M004 9910 0
Transducer Frequency	60 MHz		30 MHz	15MHz	9 MHz
Maximum Diameter Penetration	6 mm		22 mm	70mm	> 60 mm
Sheath Compatibility (with max wire)	5F	6F	6F	8F	9F
Guide Catheter	5F (ID ≥ 0.058")	6F (ID ≥ 0.064")	6F (ID ≥ 0.064")	n/a	n/a
Hydrophilic Coating	Bioslide™	Z-Glide™	Z-Glide	n/a	n/a
Guidewire Lumen Length	16 mm			110cm	n/a
Guidewire Compatibility	≤ 0.014"		≤ 0.018"	0.035"	n/a
Entry Profile	0.026"	0.017"	0.021"	0.080"	n/a
Imaging Window Profile	2.6F	2.9F	2.9F	8F	8.1F
Crossing Profile	3.1F		3.5F	8F	n/a
Prep Location	Proximal		Proximal	Proximal	Distal
Catheter Telescoping Length	150 mm		150 mm	25cm	n/a
Sled Pullback Length	100 mm		100 mm	10cm	n/a
Tip to Transducer Distance	20 mm		5 mm	>1.5cm	9 mm
Distal Marker to Transducer	15 mm		15 mm	n/a	5 mm
Working Length	135 cm		135 cm	105cm	110 cm

▶ Physiology

▶ Seamless integration with your cath lab system

- ▶ FFR Direct - Direct to Hemo
- ▶ Through AVVIGO+ system



COMET™ II

Pressure Guidewire

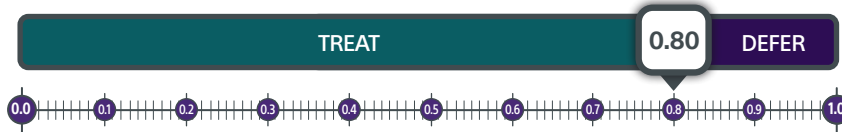
- ▶ **Zero-to-negligible drift**
Optical technology enables zero-to-negligible drift and reliable signal connection
- ▶ **Best-in-class deliverability**
Designed with ASAHI for workhorse performance
- ▶ **Free-spinning, quick-release handle**
Push button release allows for one-handed operation



➤ FFR & DFR Flexibility

FFR

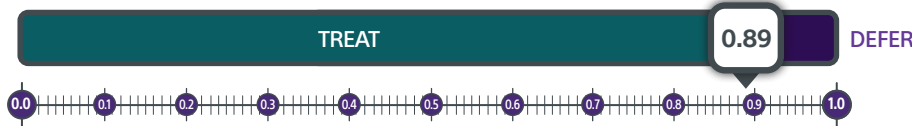
- Perform FFR procedure with Zero-to-negligible drift using COMET II Pressure Guidewire
- An FFR cutoff of ≤ 0.80 is most commonly used in clinical studies.



DFR™

Diastolic Hyperemia-Free Ratio™

- A new option in resting coronary physiology. FFR, DFR, and Pd/Pa—with the COMET™ II Pressure Guidewire, designed for workhorse performance.
- A DFR cutoff of ≤ 0.89 is most commonly used in clinical studies.

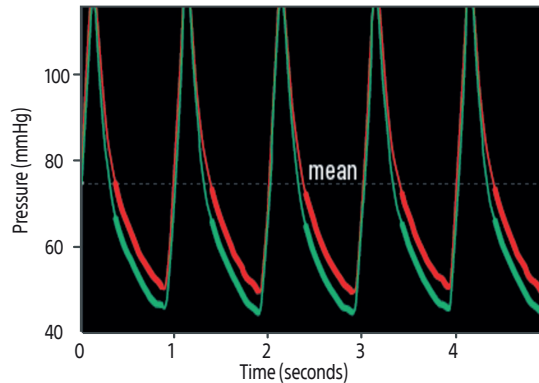


Pooled Analysis from **VERIFY 2** and **CONTRAST** Showed:

- DFR™ and iFR™ are Numerically Identical

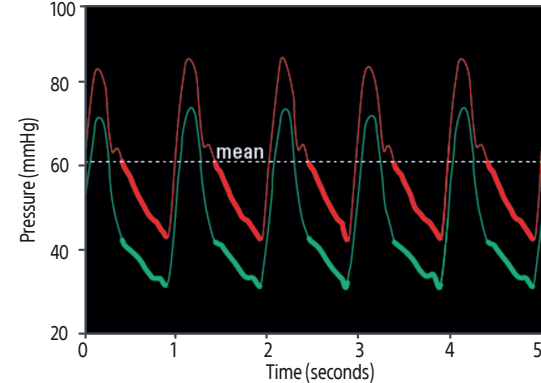
Intermediate Lesion

DFR: 0.90 iFR: 0.90



Severe Lesion

DFR: 0.71 iFR: 0.71



▶ ExpertCare

- ▶ ExpertCare delivers the services you need to protect your investment and keep your department up and running. Our service team has the expertise that comes from years of collaboration with our customers to better support your goals. We offer a range of service offerings from standard to comprehensive plans designed to meet your needs and help you get the most out of your Boston Scientific capital investment

AVVIGO+ Service Coverage

General	TotalCare	EssentialCare	PM Care	STK
Unlimited Technical support calls	•	•	•	
24/7/365 access to technical support	•	•	•	
Preventative maintenance	•	•	•	
Electrical and functional test (STK)	•	•	•	•
Product specific	TotalCare	EssentialCare	PM Care	STK
100% coverage on repairs (parts/travel/labor charges)	•	•		
5 WD FSE on site (MAX)		•	•	
48 h FSE on site (MAX)	•			
Software Update	•	•		

For more information, please call +31 455 46 77 07 or contact your sales representative

► Necessary Equipment & Ordering Information

- + AVVIGO™+ Multi-Modality Guidance System (Integrated or Mobile)
- + Motor Drive Unit – Fast Pullback
- + Tableside Control (For Integrated system only)
- + FFR Link (Includes Hemodynamic Cable Kit)
- + Permanent Sled
- + Permanent Sled Bag
- + OPTICROSS™ Imaging Catheter
- + COMET™ II Pressure Guidewire

Ref/Catalog Number	Description
BUN30AVPLUSMOB	AVVIGO + Mob System, EU
BUN30AVPLUSINT	AVVIGO + Integrated System, EU (without Table Side Control)
BUN30AVPLUSINTTSC	AVVIGO + Integrated System, EU (with Table Side Control)
H749 3935931 0	COMET™ II Pressure Guidewire
H749 51812 0	OPTICROSS Imaging Catheter
H749 518126 0	OPTICROSS 6 Imaging Catheter
H749 3935202 0	OPTICROSS HD Imaging Catheter
H749 3935406 0	OPTICROSS HD 6 Imaging Catheter
H749 393270018 0	OPTICROSS 18 Imaging Catheter
H749 393280135 0	OPTICROSS 35 Imaging Catheter
M00499100	ULTRA ICE™ PLUS Imaging Catheter
H749 MDU5PLUSF 0	MDU - Fast pullback
H749 555100 0	FFR Link
H749 39316010 0	Permanent Sled
H749 39315010 0	Permanent Sled Bag



CAUTION: The law restricts these devices to sale by or on the order of a physician. Indications, contraindications, warnings, and instructions for use can be found in the product labelling supplied with each device or at www.IFU-BSCI.com. Products shown for INFORMATION purposes only and may not be approved or for sale in certain countries. This material not intended for use in France.



➤ **Access
IVUS education**



**Boston
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Advancing science for life™

www.bostonscientific.com/PCI-Guidance

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