

PHILIPS

See, Measure, Treat

Transforming PCI with IVUS, physiology and multi-modality registration

14-15 October 2026 | Istanbul, Turkey

Faculty



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Course description

A practical educational course designed for interventional cardiologists who wish to deepen their knowledge of coronary physiology and intravascular imaging in PCI.

The program focuses on strengthening the understanding of physiology-guided lesion assessment, IVUS-based vessel evaluation and angiography-based image co-registration with an emphasis on their application in routine and moderately complex PCI.

Objectives

Through structured lectures, real-world clinical cases, and hands-on demonstrations participants will learn:

- how to integrate physiology and imaging into routine and moderately complex PCI
- practical implementation to support treatment decisions, enhance procedural confidence, and enable consistent post-PCI assessment

Attendee profile:

Novice/New to Philips technology/Develop

- Interventional cardiologists aiming to advance physiology- and imaging-guided PCI skills.
- PCI operators with early to intermediate experience.
- Fellows and physicians in interventional cardiology training.
- Cardiologists planning to incorporate physiology, IVUS, and co-registration into daily practice.



Questions?

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Day 1 - Wednesday 14 October: See and measure

09:00 – 09:15	Welcome, introduction and pre-course quiz
09:15 – 10:30	Fundamentals of coronary physiology in PCI - Rationale of physiology-guided PCI - Overview of physiological indices (FFR, non-hyperemic indices) - Indications for physiology in stable CAD and ACS - Common pitfalls and interpretation challenges - Clinical cases: when physiology changes the treatment strategy - Interactive Q&A
10:30 – 10:45	<i>Coffee-break</i>
10:45 – 12:00	Physiology-guided lesion assessment in practice - Assessment of intermediate lesions - Multivessel disease and serial lesions - Diffuse disease vs focal stenosis - Pullback interpretation and decision-making - Case examples: deferring vs treating lesions
12:00 – 13:00	<i>Lunch</i>
13:00 – 14:30	Live case session: physiology guided PCI - Live case with real-time physiology assessment - Lesion assessment and decision-making - Pullback interpretation - Discussion: treatment vs deferral - Interactive audience polling
14:30 – 14:45	<i>Coffee-break</i>
14:45 – 16:00	Imaging fundamentals: IVUS for PCI - IVUS principles and image acquisition - Vessel anatomy and plaque characterization - Reference segment selection - Vessel sizing and landing zone selection - Common image artifacts and how to avoid them
16:00 – 17:00	IVUS guided PCI strategy and optimization - Pre-PCI planning using IVUS - Stent sizing and length selection - IVUS in LMS, calcified and bifurcation lesions - Stent expansion and apposition assessment - Identification and management of edge dissections and underexpansion - Clinical cases: IVUS changing PCI strategy
16:00 – 17:00	Day 1 - Key takeaway
19:30 – 21:30	<i>Group dinner</i>



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Day 2 - Thursday 15 October: Treat and Optimize

09:00 – 09:10

Re-cap from Day 1 and objectives for today

09:10 – 10:15

Angiography based image co-registration

- Principles of angiography-physiology-imaging co-registration
- Mapping physiological findings onto angiography
- Tri-reg
- IVUS and angiography alignment for treatment planning
- Integration of SyncVision:
 - SyncVision workflow and practice use
 - Benefits of lesion location and procedural precision
 - Limitation on daily practice
- Case demonstration with Co-registration

10:15 – 10:30

Coffee-break

10:30 – 11:45

Integrating physiology and imaging in routine PCI

- When to use physiology, imaging or both
- Workflow optimization in the cath lab
- Tri-reg
- Time-efficient strategies for routine cases
 - Long lesions
 - Bifurcations
 - Diffuse disease
 - Calcified lesion
 - LMS
- Case-based discussion

11:45 – 12:45

Lunch

12:45 – 13:45

Post PCI assessment and quality control

- Role of post-PCI physiology
- IVUS criteria for optimal PCI result
- Identifying suboptimal outcomes
- Troubleshooting residual ischemia
- Clinical examples of post-PCI optimization

13:45 – 14:00

Coffee-break

14:00 – 15:30

Hands on demo and case workshop

- Live or recorded IVUS pullback review
- Physiology pullback interpretation
- Step-by-step case walkthroughs
- Faculty-led interactive case discussion
- Audience participation and Q&A

15:30 – 16:00

Panel discussion and keys

- Physiology and imaging are complementary tools in PCI
- Structured integration improves confidence and consistency
- Practical workflows enable adoption without increasing complexity

16:00 –

Wrap-up and course end quiz



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