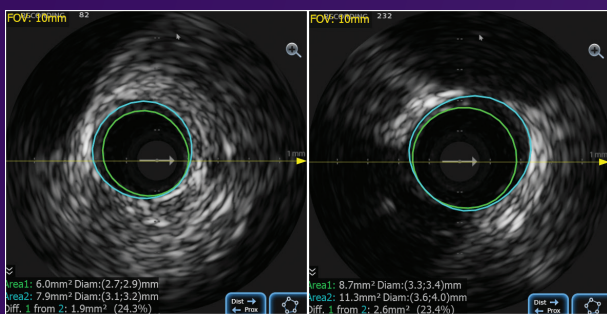


# Optimize stents with IVUS

Optimize short- and long-term patient outcomes using defined pre- and post-stent criteria with Philips IVUS.<sup>1,2</sup> Plan the procedure with pre-stent IVUS to size stents and identify the optimal landing zone. Perform post-stent IVUS to confirm good stent expansion, apposition and no edge dissection.

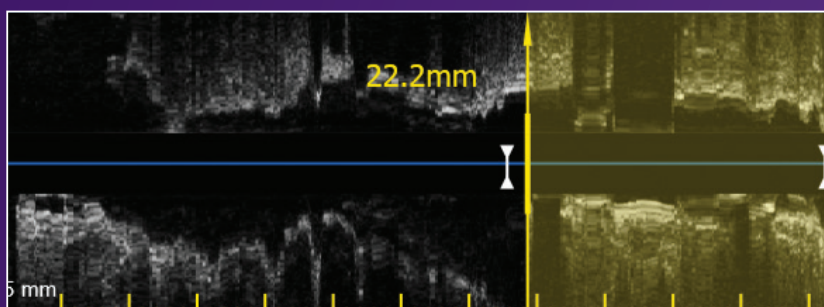
## Plan

Pre-stent IVUS to guide procedural planning



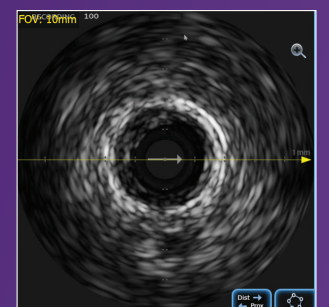
### Stent/vessel diameter

- Measure distal reference and determine stent diameter
- Measure proximal reference to guide post stent dilation



### Landing zone/stent length

Identify normal segments adjacent to target lesion, with plaque burden <50% at 5mm. Measure distance between distal and proximal reference point, round up to the nearest stent length.

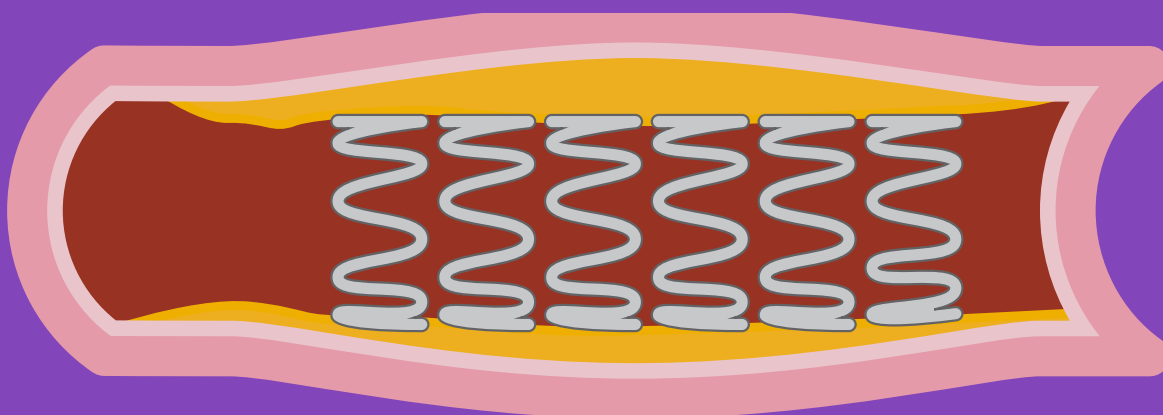


### Lesion

Assess lesion characteristics to guide plaque modification strategy.

## Land and expand

Post-stent IVUS to guide and confirm stent optimization



Criteria used for IMPact on Revascularization Outcomes of intraVascular Ultrasound Guided Treatment of Complex Lesions and Economic Impact (IMPROVE) trial. Shlofmitz et al.<sup>3</sup>

### Landing zone

Plaque burden <50% at 5 mm proximal and distal to stent edge.

### Expansion and apposition

MSA  $\geq 90\%$  of the distal reference lumen area and full stent apposition throughout.

### Stent edges

No edge dissection involving media with length > 3mm and arc  $\geq 60^\circ$ .

1. Zhang J et al. Three year outcomes of the The ULTIMATE trial. Intravascular Ultrasound-Guided Versus Angiography-Guided Implantation of Drug-Eluting Stent in All-Corers. Presented at TCT Connect, 15th October 21.

2. Hong et al. 5-Year Follow-Up of the IVUS-XPL Randomized Trial. JACC; 13 Jan, 2020;62 -71. 3. Shlofmitz et al. IMPROVE trial: Study design and rationale. AHJ; (2020) Oct, Vol 228, doi.org/10.1016/j.ahj.2020.08.002.

3. Shlofmitz et al. IMPROVE trial: Study design and rationale. AHJ; (2020) Oct, Vol 228, doi.org/10.1016/j.ahj.2020.08.002.