# OCTIVUS trial

**OCT- vs. IVUS-Guided PCI** 

### Conclusion



Optical coherence tomography (OCT) is non-inferior to intravascular ultrasound (IVUS) for guiding percutaneous coronary intervention (PCI) in patients with diverse coronary artery lesions.

# Impact on clinical practice



The results add compelling evidence on the relative efficacy and safety of an OCT-guided strategy compared with an IVUS-guided strategy for PCI.

## Study objectives



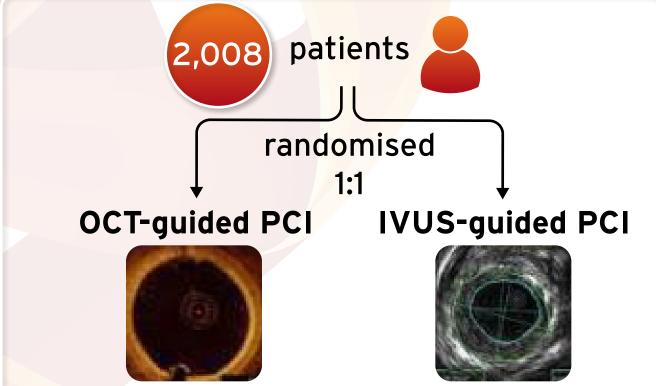
The OCTIVUS trial was a head-to-head comparison of OCT- and IVUS-guided PCI with regards to clinical outcomes in patients with a broad range of coronary artery lesions.

## Study population

#### **Patients**

- aged ≥19 years
- undergoing PCI with contemporary drug-eluting stents or drug-coated balloons (only for in-stent restenosis) for significant coronary artery lesions

# Who and what?



after diagnostic coronary angiography

#### Where?



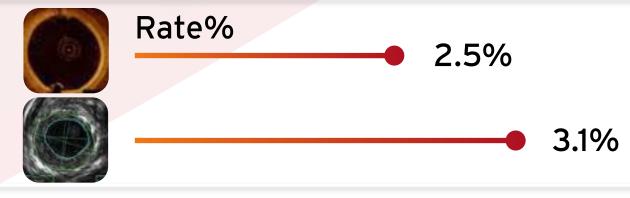
South Korea



9 sites

# Primary endpoint

Composite of death from cardiac causes, target vessel myocardial infarction or ischaemiadriven target vessel revascularisation at 1 year, which was powered for noninferiority of the OCT group as compared with the IVUS group (noninferiority margin, 3.1 percentage points)



risk difference, -0.6 percentage points upper boundary of the one-sided 97.5% CI 0.97; p<0.001 for noninferiority

# Safety endpoints

Incidence of contrast-induced nephropathy was similar





1.5%

1.4%

Incidence of major procedural complications was lower with





VS.



p=0.048

2.2%

3.7%

