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



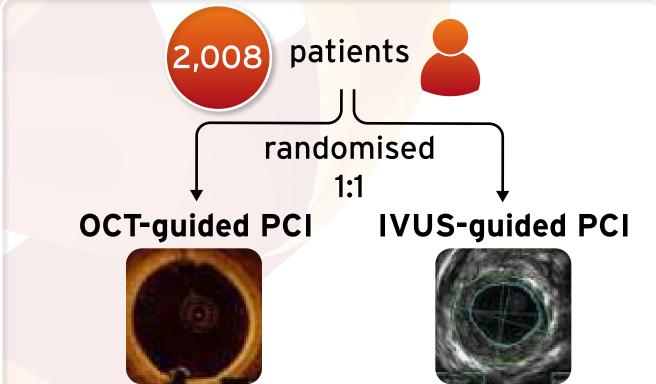
The OCTIVUS trial was a head-to-head comparison of OCT- and IVUS-guided PCI with regards to clinical outcomes in patients with a broad range of coronary artery lesions.

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?



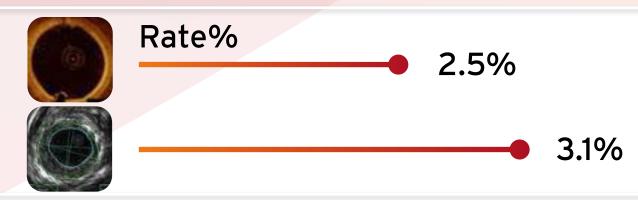
South Korea



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





1.4%

1.5%

Incidence of major procedural complications was lower with





VS.



p=0.048

2.2%

3.7%

