OCTOBER trial

OCT-guided or angiography-guided PCI in complex bifurcation lesions

Conclusion



In patients with complex bifurcation lesions, optical coherence tomography (OCT)-guided percutaneous coronary intervention (PCI) is associated with better outcomes after 2 years than angiography-guided PCI.

Impact on clinical practice



The results suggest that routine use of structured OCT guidance during PCI of complex bifurcation lesions should be considered to improve prognosis.

Study objectives



OCTOBER was the first adequately powered clinical trial to examine whether routine use of OCT during PCI of complex bifurcation lesions improves clinical outcomes compared to standard practice with angiographic guidance and optional use of intravascular ultrasound (IVUS) in left main bifurcations.

Study population

Who and what?

#ESCCongress



Major adverse cardiac events (MACE), defined as a composite of cardiac death, target lesion myocardial infarction, and ischaemia-driven target lesion revascularisation, after 2 years





Secondary endpoints

Differences in secondary clinical endpoints after 2 years did not reach statistical significance, but the trial was not powered for these endpoints

