OCT for BVS implantation in bifurcation lesions

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The unmet needs of cardiologists during BVS implantation in bifurcation lesion

- Forseeing the dilemma of carina shift
- Effective length of lesion
- Side branch area before/after BVS
- Position of guidewire after recrossing
- Scaffold breakage/fracture and overlapping
Is OCT the answer?

- Stent expansion
- Strut apposition
- Uniform strut distribution
- Carina coverage
- Side branch access
- Vessel trauma
Provisional Stenting with BVS

OCT after predilatation
Provisional Stenting with BVS

Online 3D OCT analysis before BVS Implantation

Diagonalbranch 1

Diagonalbranch 2
Provisional Stenting with BVS
Evaluation of Side branch Access before BVS Implantation

Diagonal branch 1

Diagonal branch 2
Provisional Stenting with BVS
Lumen Profile and Length of Stenosis calculated by OCT
Provisional Stenting with BVS
OCT after BVS Implantation (ABSORB 3.5/28mm, 16 atm)
Provisional Stenting with BVS
Online 3D OCT analysis before BVS Implantation

Diagonalbranch 1

Diagonalbranch 2
Provisional Stenting with BVS
Evaluation of Side branch Access after BVS Implantation

Diagonal branch 1

Diagonal branch 2

9th European Bifurcation Club meeting - London, UK - 18th & 19th October 2013
Provisional Stenting with BVS
Lumen Profile after BVS Implantation calculated by OCT
Recrossing the Sidebranch

Pinching of SideB after provisional BVS stenting
Recrossing the Sidebranch
OCT of MainB visualising the guidewire recrossing in SideB
Recrossing the Sidebranch
Postdilatation and final result
Thank you!