

ROBOTIC-ASSISTED PCI IN COMPLEX DOUBLE BALLOON PTCA / LAD STENT CASE

Case History

Prior angiography for the patient revealed a tortuous LAD with a lesion at the bifurcation of a diagonal vessel. PCI was scheduled for LAD-diagonal bifurcation with a plan for provisional single stent with final kissing balloon.

Robotic Angioplasty Procedure

A 6F EBU guide catheter was introduced and used to selectively engage the LAD with standard interventional techniques. The guide catheter was then connected to the Y-connector and the guidewire and PTCA catheter were placed into the CorPath® cassette, on the articulated arm of the CorPath System.

Using robotic control via the interventional cockpit, the LAD was wired with a 0.014" guidewire. PTCA was performed using a 2.5x12mm NC Quantum Apex, and a 3.0x18mm RESOLUTE drug eluting stent was robotically placed across the opening of the diagonal branch. The stent catheter was then removed.



Physician: Daniel Simon, MD
FACC, FAHA, FSCAI
Director, Harrington Heart & Vascular Institute
University Hospitals Case Medical Center

Fellows: James Kayima, MD
Isidore Okere, MD

Facility Details

University Hospitals Case
Medical Center
Cleveland, Ohio

Devices Used

- CorPath Vascular Robotic System
- 6F EBU guide catheter (Medtronic)
- 0.014" BMW Guidewire (Abbott) x 2
- 2.5x12mm NC Quantum Apex (Boston Scientific)
- 3.0x18mm RESOLUTE DES (Medtronic)



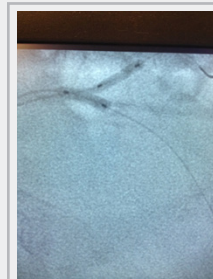
Dr. Simon at
Interventional
Cockpit



Additional devices
loaded in cassette
parking track



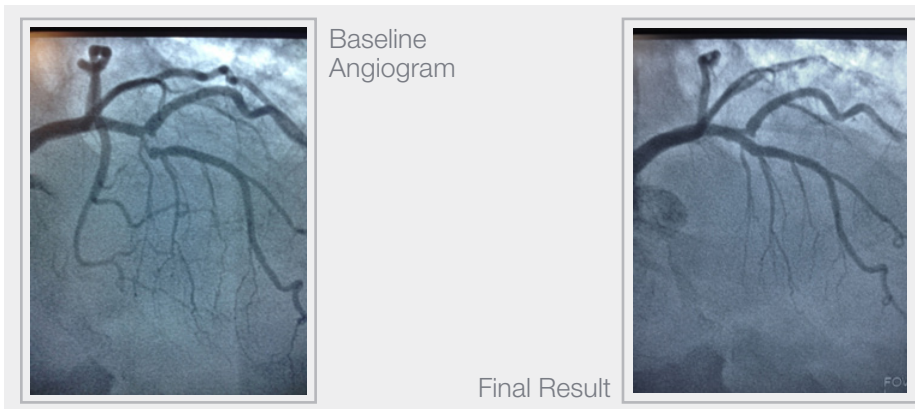
Fellows at
bedside



LAD and Diagonal
PTCA Balloons

Robotic-Assisted PCI in Complex Double Balloon PTCA / LAD Stent Case

A kissing balloon technique was then used to open the stent struts and diagonal branch while maintaining patency of the LAD. The LAD wire was held in the secondary track of the CorPath cassette and a second 0.014" BMW wire was advanced into the diagonal branch. A PTCA balloon was then advanced robotically in the diagonal branch. The diagonal wire and balloon were then moved to the 'parked' position in the secondary track of the cassette at which point a PTCA balloon was advanced robotically into the LAD. Simultaneous balloon inflation was performed in the LAD and diagonal branch to preserve lumen diameter. The balloons were deflated and removed from the patient. Angiography was performed and revealed a successful final result.



Results / Conclusion

Successful outcome for a difficult and well executed LAD/Diagonal bifurcation, simultaneous PTCA and LAD stent.

- Fluoro Time: 8min
- CorPath Time: 25min
- Case Time: 40min

"The CorPath System is an incredibly user-friendly device and I am pleased that I was able to perform robotic kissing balloon angioplasty during my complex PCI"

– Daniel Simon
MD, FACC, FAHA, FSCAI

To learn more, call 1-800-605-9635 or email: sales@corindus.com

CorPath 200 System is intended for use in the remote delivery and manipulation of coronary guidewires and balloon/stent catheters during PCI procedures.

Corindus
Vascular Robotics