ROBOTIC-ASSISTED PCI IN A STEMI PATIENT

CorPath Case Review

Case History
An 81 year-old female patient with past medical history of chronic atrial fibrillation, hypertension, and warfarin for anticoagulation, presented to the ER with an acute inferior wall STEMI. The patient underwent emergent cardiac catheterization which revealed a 100% occlusion in the mid RCA.

Robotic Angioplasty Procedure
A 6F AL 0.75 guide catheter was manually introduced & used to selectively engage the RCA with standard interventional techniques. The guide catheter was then manually connected to the Y-connector and placed into the cassette, located in the adjustable robotic extension arm of the CorPath System. The guidewire, followed by a 2x15mm Trek angioplasty balloon, were manually loaded into the cassette.

Using robotic control via the interventional cockpit, the target lesion was crossed with a 0.014" guidewire and the PTCA balloon was advanced for pre-dilatation. After pre-dilatation, the balloon was retracted and exchanged for a 3x18mm MULTI-LINK VISION coronary stent. Stent insertion, deployment, and retrieval were performed using robotic control. Final angiography was performed to assess stent placement and rule out the presence of any associated complications.

Facility Details
Sanford Aberdeen Medical Center
Aberdeen, South Dakota

Physician: Puneet Sharma, MD

Devices Used
- CorPath Robotic Angioplasty System
- 6F AL 0.75 guide catheter (Terumo)
- 0.014" Runthrough® NS Guidewire (Terumo)
- 2x15mm Trek angioplasty balloon (Abbott Vascular)
- 3x18mm MULTI-LINK VISION Coronary Stent (Abbott Vascular)
Robotic-Assisted PCI in a STEMI Patient

Results / Conclusion
Successful primary balloon angioplasty was performed, followed by successful stent placement using the CorPath System. The results showed the safety and clinical feasibility of the CorPath System in emergent PCIs.

- 0% residual stenosis
- Patient discharged with no MACE events
- Door-to-balloon time = 68 min
- EKG-to-balloon time = 53 min

“The CorPath System is not just about the convenience for the operator. I was able to place the stent exactly where I wanted with robotic precision. Precise placement of the stent has been shown to provide better outcomes and I was excited to achieve a door to balloon time 68 minutes while using CorPath to treat this STEMI patient.”

– Puneet Sharma, MD

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