ROBOTIC CASE STUDY

Robocath
INTELLIGENT VASCULAR ROBOTICS

R-one™

Step-by-step approach to perform a robotic bifurcation (provisional stenting)

Key takeaways

1. Precise and safe wiring
2. Accurate stent positioning
3. Full radioprotection and comfort for the medical staff
4. Good cathlab organization and communication is key: precise and same language
5. Nursing staff skills improvement and autonomy

Centre Cardiologique du Nord (CCN)
Saint-Denis, France

Principal operator
Mohammed Nejjari, MD

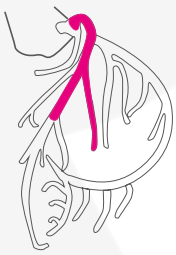
Nurse
Thibault Coclet

Patient history

- 69 years old
- Absence of risk factors
- Coronary stenosis diagnostic during pre-operative check-up for a carotid stenting

Lesion characteristics

- De novo lesion
- B2 lesion (ACC/AHA classification)
- TIMI flow = 3
- LAD (MB), DIAG1 (SB)
- Medina: 1-0-0
- Length: [16.0 - 20.0] mm
- MB stenosis: [70.0 - 99.0] % I SB: [10.0 - 29.0] %



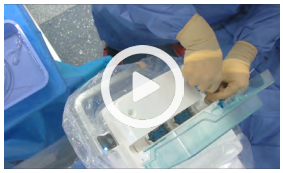
01 I CONSUMABLE INSTALLATION

Cassette loading into the robot

02 I GUIDEWIRE 1 LOADING

Introduction of the first wire into the Cassette

- Workhorse guidewire



03 I GUIDEWIRE 1 NAVIGATION

Robotic navigation from the control room through the LAD and Diagonal positioning

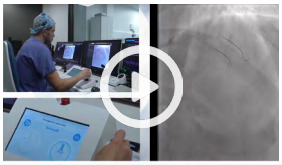
04 I GUIDEWIRE 2 LOADING

Introduction of the second wire into the Cassette and parking of wire 1 into the stand-by track

- Workhorse guidewire

05 I GUIDEWIRE 2 NAVIGATION

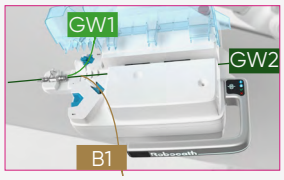
Robotic navigation from the control room through the LAD and distal positioning



06 I PRE-DILATATION BALLOON LOADING

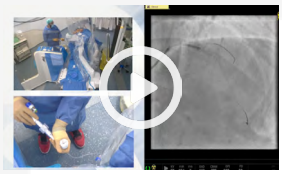
Introduction of the balloon into the Cassette (GW2)

- NC balloon 3.0 x 12.0 mm



07 I PRE-DILATATION BALLOON NAVIGATION AND INFLATION

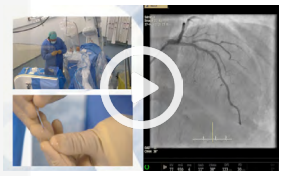
Pre-dilation of the proximal LAD (10 atm/10 s)



08 I STENT LOADING

Introduction of the stent into the Cassette (GW2)

- DES 3.5 x 24.0 mm



09 I STENT NAVIGATION AND INFLATION

LAD stenting (11 atm/20 s)

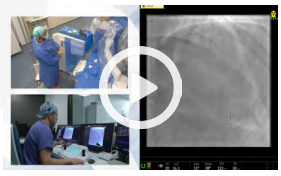
10 I POST-DILATATION BALLOON LOADING

Introduction of the balloon into the Cassette (GW2)

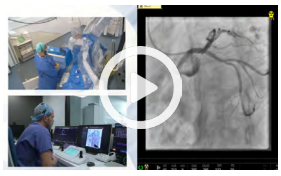
- NC balloon 3.75 x 8.0 mm

11 I POST-DILATATION BALLOON NAVIGATION AND INFLATION

Proximal Optimization Technique (POT) (18 atm/15 s)



12 I FINAL ANGIOGRAPHY



To get more information, visit our website or contact our team: contact@robocath.com

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MC-000-240612-00-00