



Symposium Elixir

Du concept à la pratique clinique en passant par la physiologie

Julien Adjedj

5&6 AVRIL 2024

HÔTEL SHERATON · NICE



Restaurer la physiologie



- Ouvrir l'artère (Ballon)
- Maintenir la lumière de l'artère (DES, BMS)
- Faire disparaître le scaffold (BVS)
- Redonner la mobilité à l'artère



Restaurer la physiologie

Strength and Deliverability



Sustained Dynamic Support of Diseased Vessel



- High device and procedure success
- High acute gain
- Low %DS



- Early uncaging at 6 months
- Restore pulsatility and compliance
- Increase blood flow volume
- Contractile SMC phenotype upregulation



- Reduce arterial stresses
- Improve hemodynamics
- Support positive remodeling
- Enable lesion/plaque stabilization

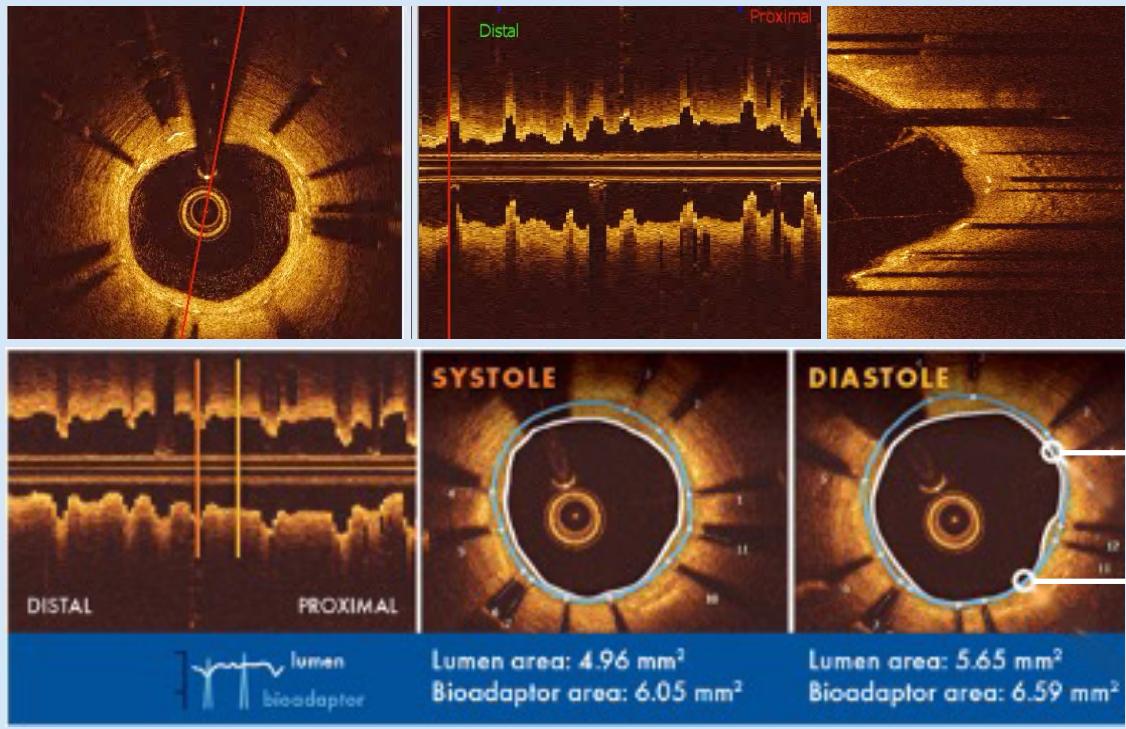


Restaurer la physiologie



RESTORATION OF PULSATILITY

Lumen area changes between systole and diastole cycles



% increase between systole
and diastole

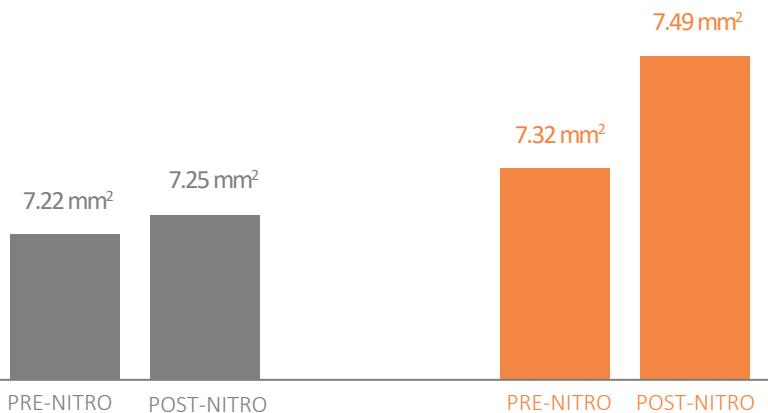
Lumen area Δ 14%

Bioadaptor area Δ 9%

RESPONSE TO CHEMICAL STIMULI

Uncaging allows the artery to respond to nitro

Lumen Area Pre and Post Nitro



CAGED
(post-implant)

UNCAGED
(9/12 Month Follow-up)

Paired IVUS-analysis (n=18)

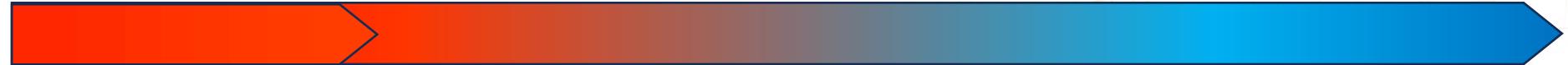


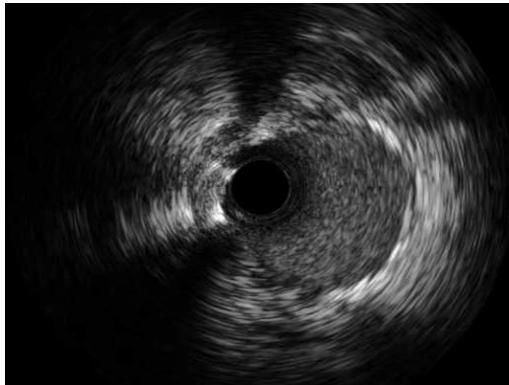
Principe Physiologique

DynamX – Operating Principle To Restore Flow and Vessel Function

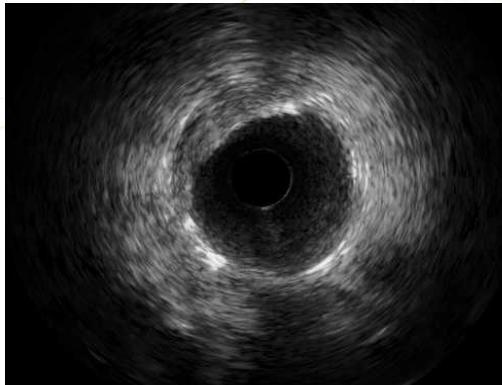
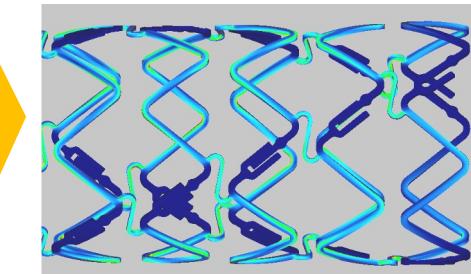
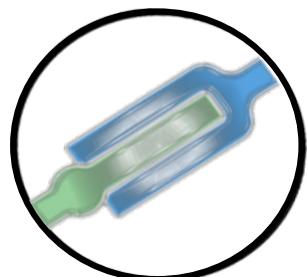
Restoration of Flow

Restoration of Vessel Function

- 
1. Connected, the device matches acute performance of standard of care DES
 2. By 6 months, the BASECOAT polymer resorbs separating the three helical strands
 3. Return of normal vessel motion and function through the dynamic support of the vessel after unlocking the helical strands



Patient image from Mechanistic study



Patient image from Mechanistic study

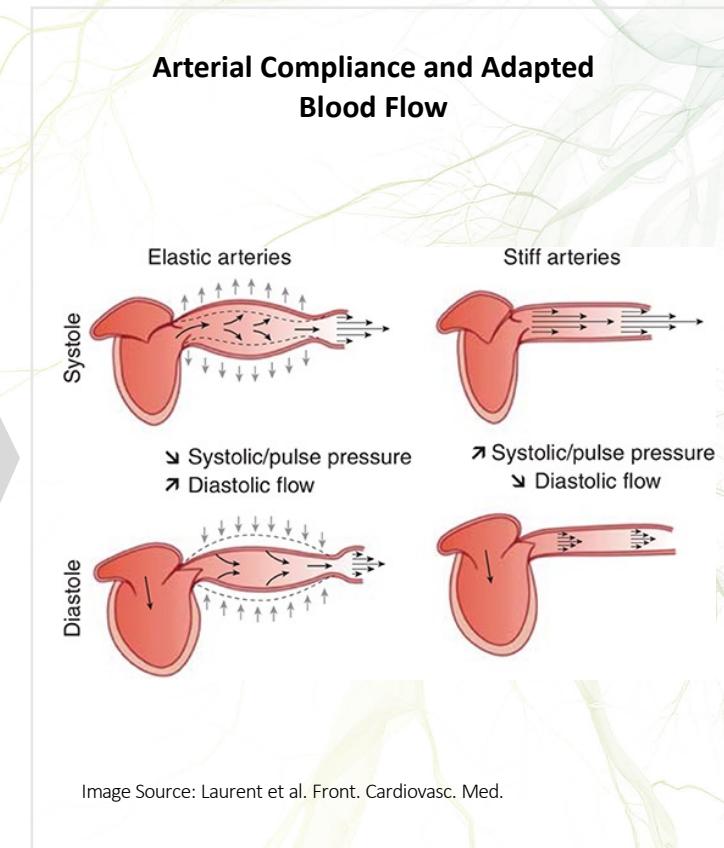
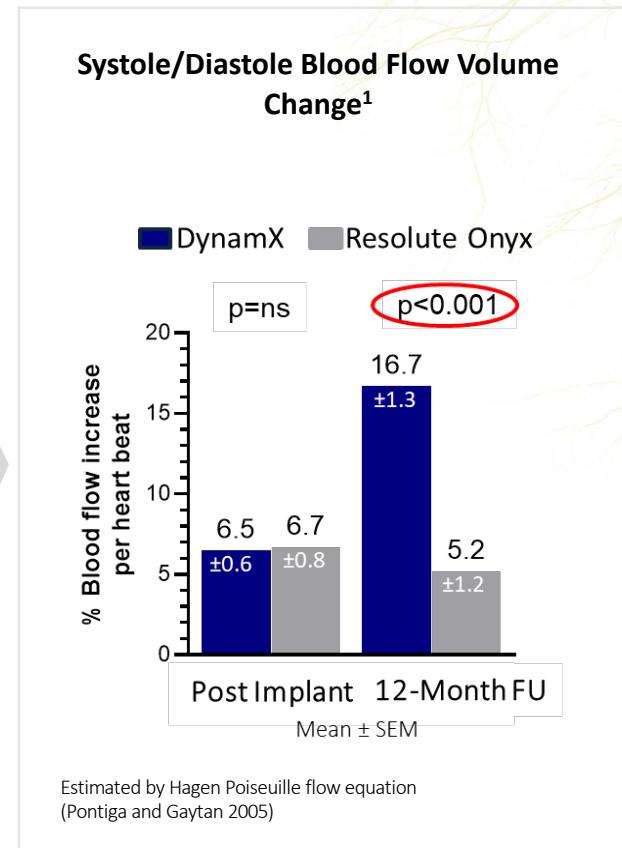
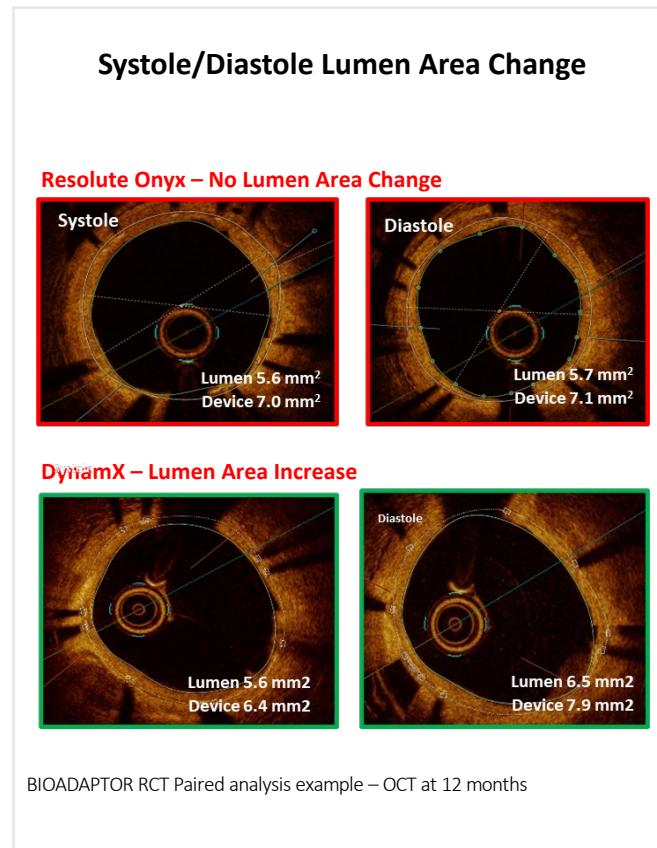
During neointima formation, helical strands become surrounded by smooth muscle cells* prior to unlocking of the device and uncaging the vessel while continuing to provide dynamic support of atherosclerotic vessel.

*Preclinical study. Data on file at Elixir Medical.



Principe Physiologique

Return of Pulsatility Augmented Coronary Flow May Translate To Improved Microvascular Perfusion and Angina Symptoms



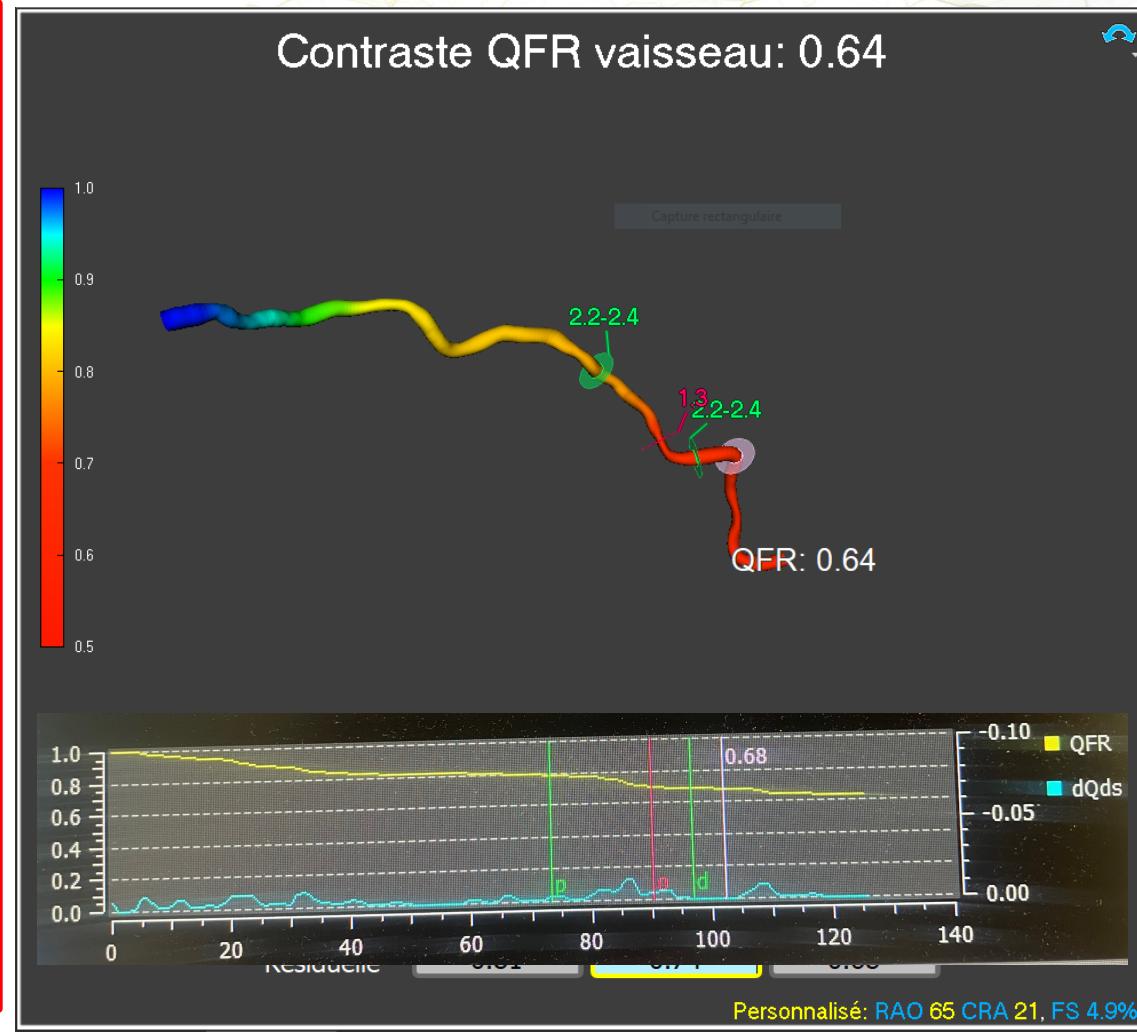
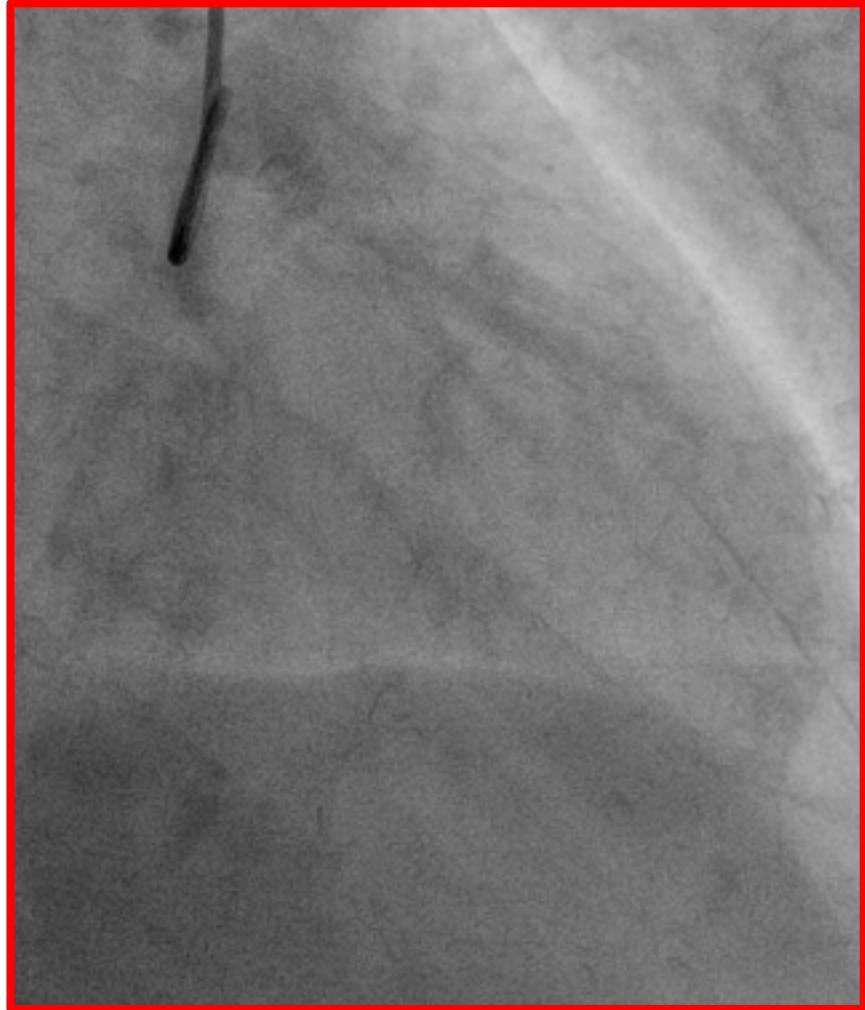
1. Saito S et al. 12-Months BIODAPTOR-RCT. The Lancet eClinicalMedicine. 2023;65:102304.



Un cas pratique: patient de 81 ans

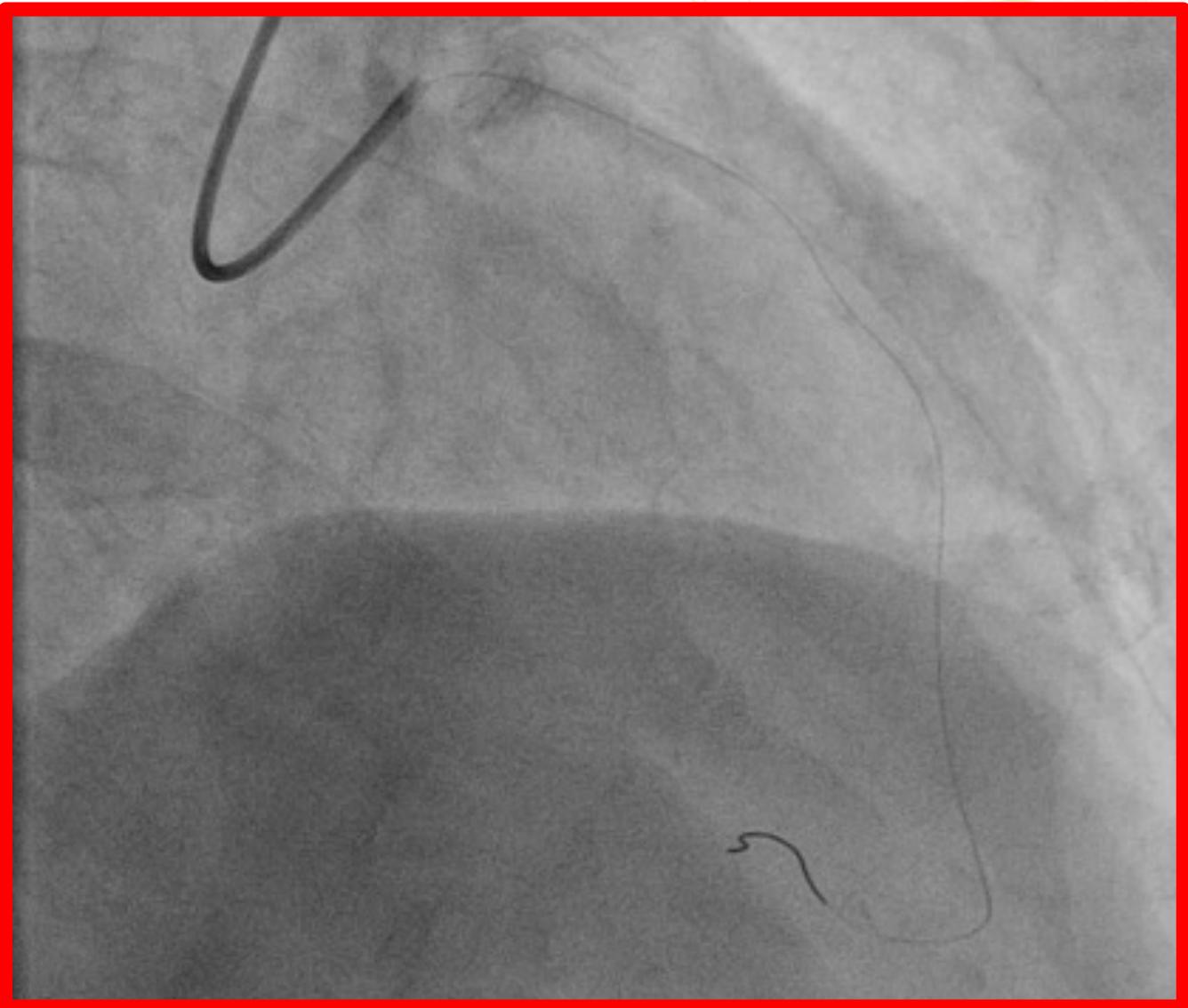


ARNAULT
TZANCK
SAINT-LAURENT-DU-VAR



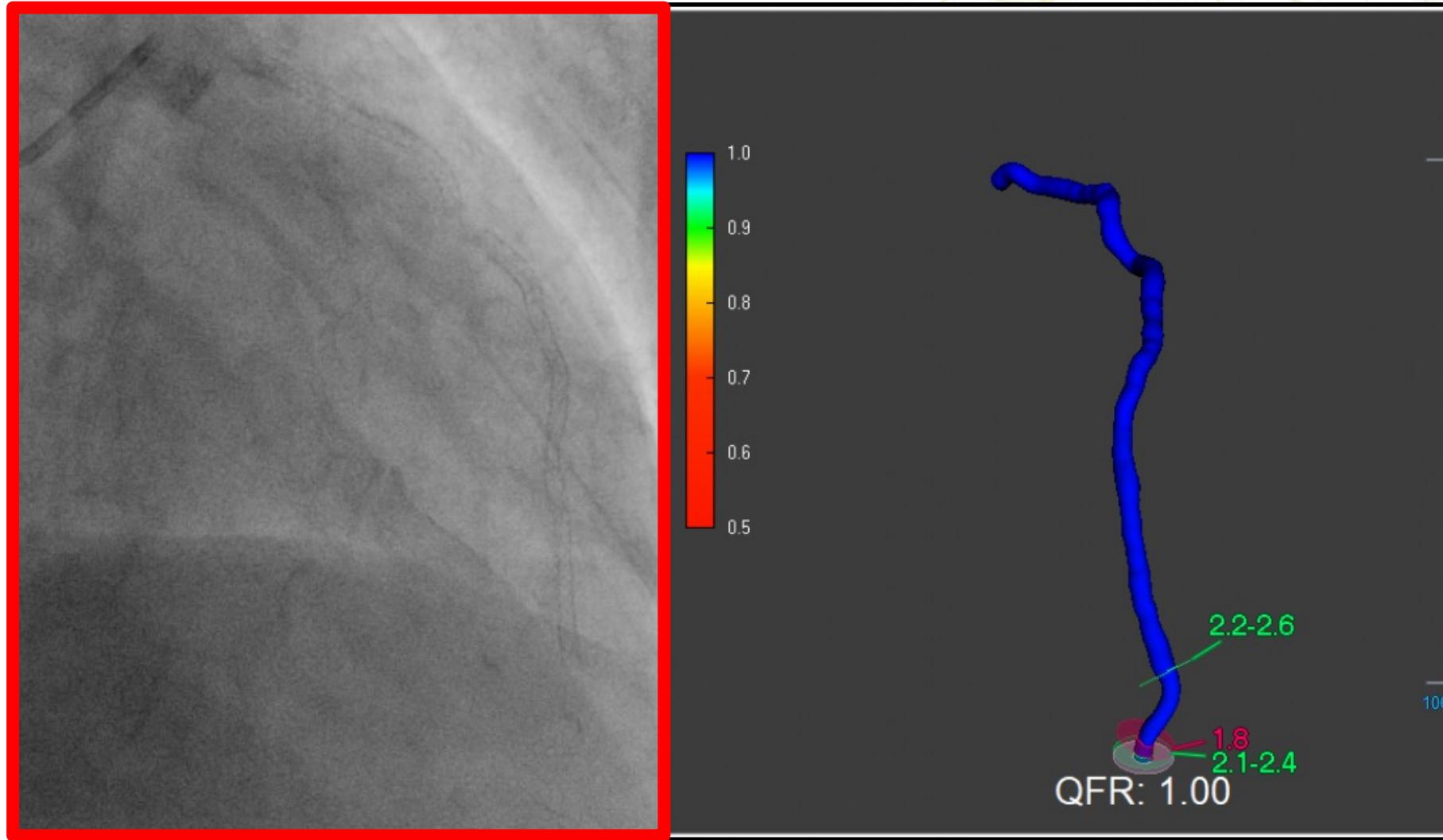


Un cas pratique avec 3 Dinamix





Un cas pratique avec 3 Dinamix





Merci @ vous



Cardio&vous

