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• Clinical data:

- 69 y.o. man.
- CVRF: Hypertension.
- Previous history of ischemic cardiac disease:
 - Inferior AMI (Dec 2017) with severe lesion in posterolateral branch treated with ballon angioplasty.
- Now referred for inferior AMI:
 - 9 hours of sympstoms. Killip 1.
 - Treatment: AAS 250 mg + Clopidogrel 600 mg.

• Clinical data:

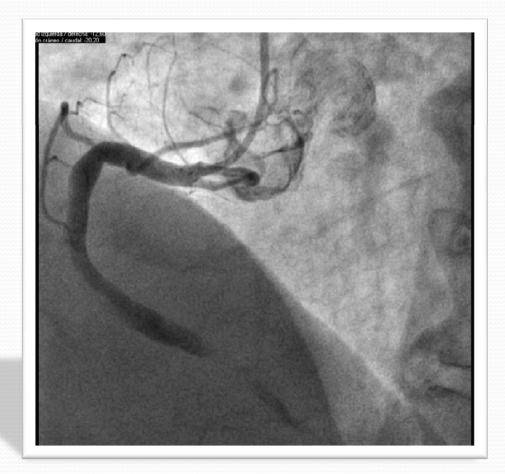




Circunflex A.: No lesion

LAD: No lesion

• Clinical data:



RCA: distal thrombosis with great burden of clot inside.

• Clinical data:

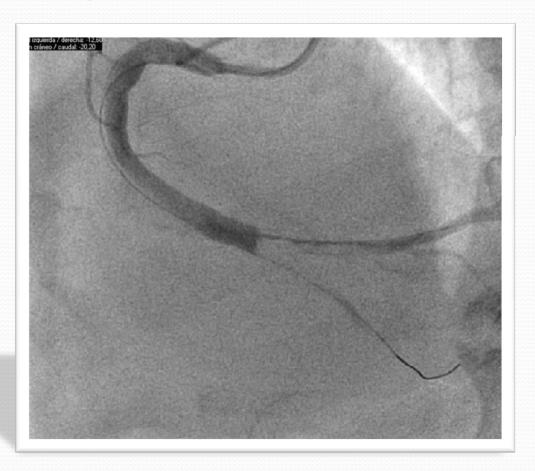


Material:

- ➤ Guiding catheter: AR2 6F
- ➤ Guidewire: Pilot 50 (x2).
- ➤ Hunter® (thromboaspiration device).
- > Catheter ballon (2x20 mm).

- ➤ The lesion is crossed with the guidewire. Posterior descending (PD)artery is seen.
- ➤ Numerous attempts to extract thrombus with Hunter® are performed.

• Clinical data:



- ➤ A second Pilot 50 guidewire is placed in the posterolateral (PL)branch.
- ➤ Predilatation with 2x20 mm ballon is performed without good distal flow because of the great clot.
- ➤ The clot moves from PL to PD branches with every attempt.

• Clinical data:



- ➤ Intracoronary thrombolysis is performed with a bolus of 15 mg of Alteplasa (Actylise®) in 3 minutes.
- ➤ New thromboaspiration attempst are performed.

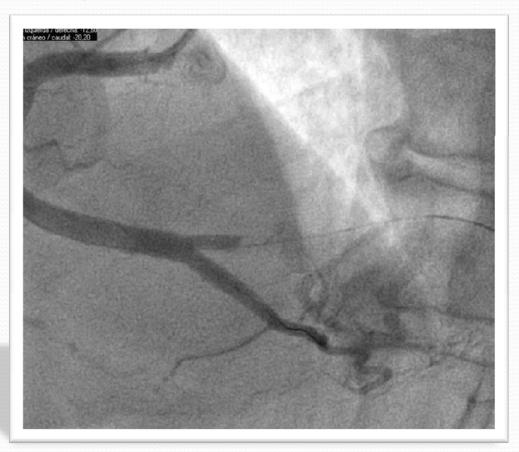
• Clinical data:



Procedure:

Progresive improvement of the distal flow.

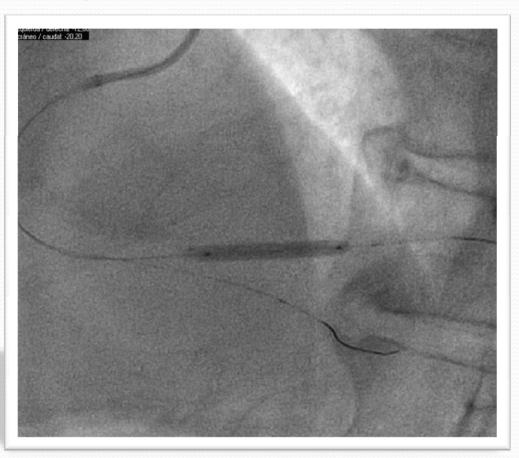
• Clinical data:



Procedure:

Progresive improvement of the distal flow.

• Clinical data:



Procedure:

➤ A Biomatrix Alpha ® 3x24 mm is implanted in the PL branch.

• Clinical data:



- ➤ Excellent result of the stent with patency of both branches after the implantation.
- ➤ Small clots remain along the artery, but with TIMI 3 flow and restoration of the ST segment.

• Conclusion:

 Myocardial infarction represents a challenging scenario in PCI due to:

Clinical unstability of patients.

&

➤ Complex lesion: thrombus, invisible distal vessels.

• Conclusion:

- In some patients, more usual techniques are unable to restore the distal flow, so it is mandatory to try "atypical" tools/treatments.
- Intracoronary thrombolysis could be an optional treatment in patients with a great burden of clot and imposibility to restore distal flow.

• Conclusion:

- Although the use of intracoronary thrombolysis is poorly described in literature, some previous papers have demonstrated its feasibility, safety and good clinical results (Kelly et al; Catheter Cardiovascular Interv 2005; 66(3), 327-332; Boscarelli et al; Eur Heart J Acute Cardiovasc Care 2104; 3(3), 229-36).
- In these patients, the risk of hemorrhage is increased, thus a close clinical monitoring is mandatory during the first hours.
- Biomatrix Alpha® has demonstrated an excellent behaviour in complicated scenarios.