Epicardial channel perforation during coronary intervention by retrograde approach to chronic total occlusion

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## Epicardial channel perforation during retrograde approach

50 y.o. male

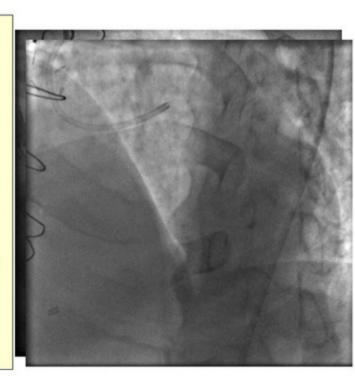
Target lesion LCX (CTO)

Diagnosis OMI (P), EA

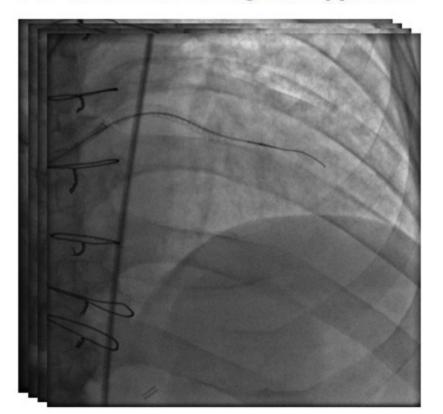
Coronary Risk Factors HT, HL

Final CAG Findings 1/14/2011

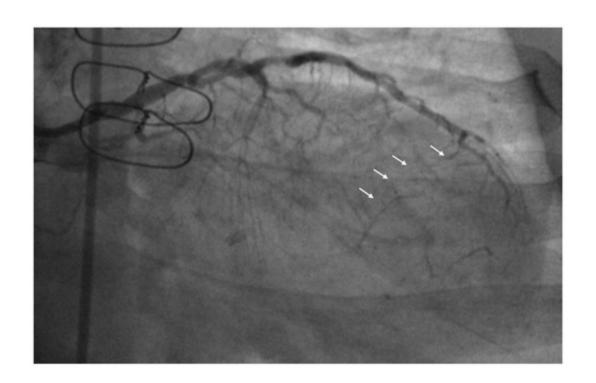
RCA Seg2 100%
LAD Seg6 75%, Seg7 100%
LCX Seg11 100%
LITA to LAD patent
SVG to RCA patent
SVG to LCX 100%



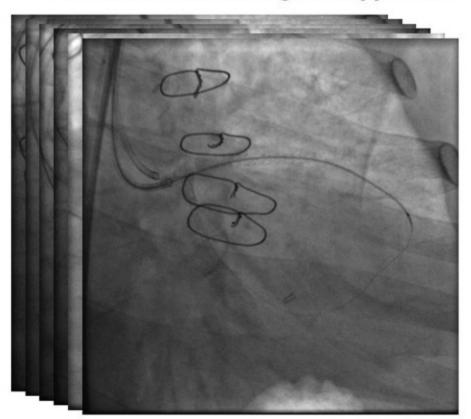
# PCI to LCX with antegrade approach



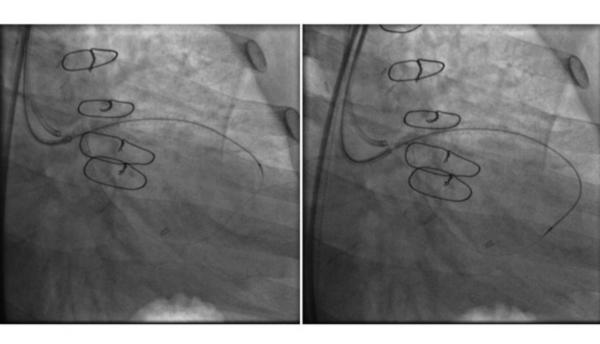
# PL channel



PCI to LCX with retrograde approach



# Epicardial channel perforation

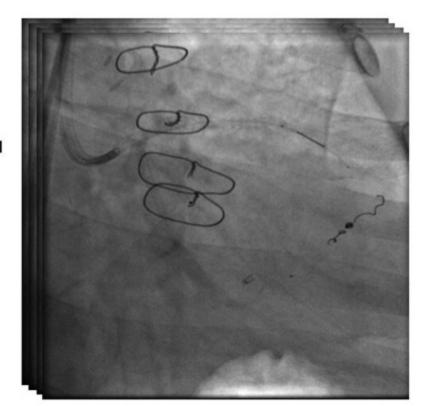


## Coil embolization

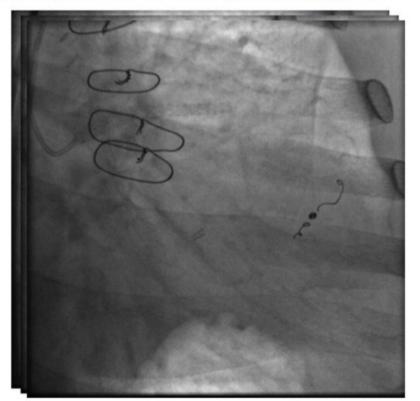
## Cook Emboli/Micro Coil

HILAL Coil Diameter: 2 mm Length: 20mm (if coiling 2mm)



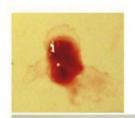


Prolonged balloon inflation on both sides under controlling ACT with the administration of protamine to induce thrombus formation

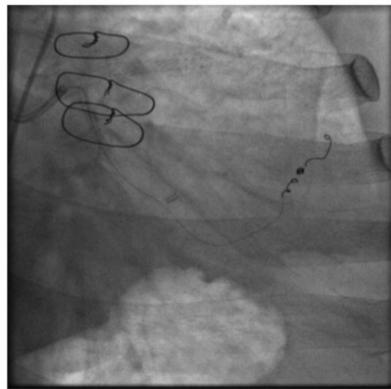


## Injection of thrombus through the Finecross

# Thrombus in an elaster





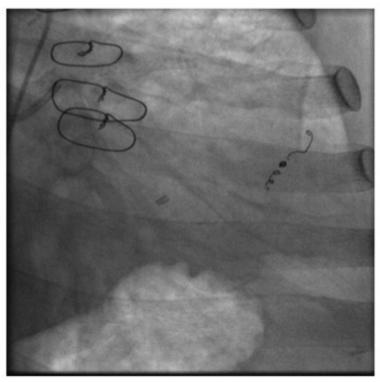


## Injection of fibrin glue through the Finecross

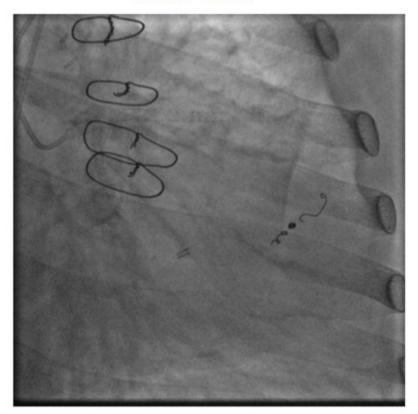
#### Fibrin Glue (BeriprastR, CLS Behring)

Two component system





Final CAG



# Summary

Epicardial channel perforation is sometimes difficult to seal even with embolization coils.

Coil embolization, if necessary with additional ballooning and the injection of autologous clots or fibrin glue, is effective for sealing the coronary collaterals perforation.