# How to mangement coronary perforation during complex PCI

**Kangdong Sacred Heart Hospital** 

Hyeong soo, Sun

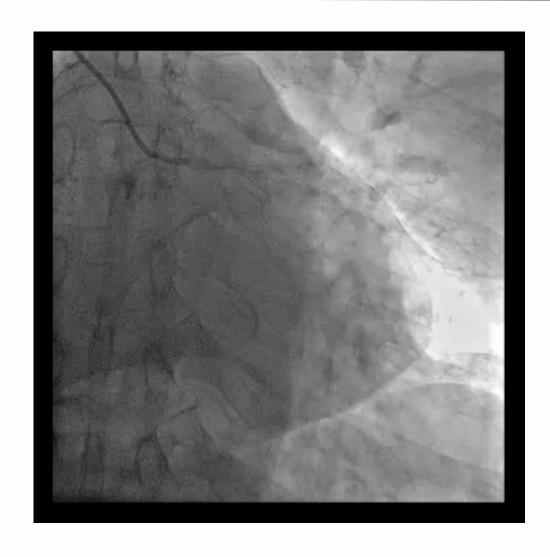
#### Coronary perforation

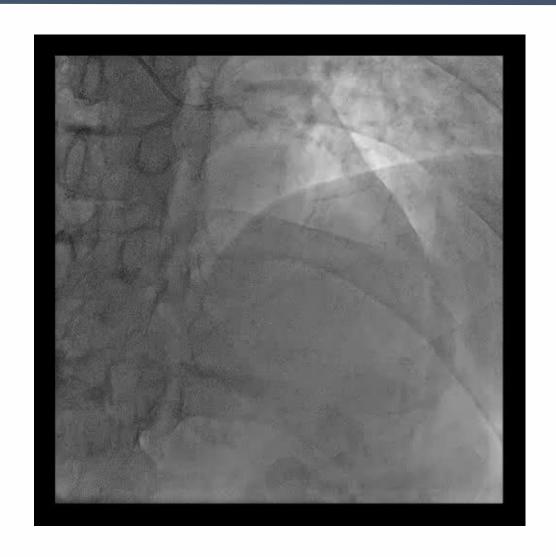
#### TYPES OF CORONARY PERFORATION

There are five types of coronary perforation: Type II, Type III, Type IV and Type V. Type I are lower risk, but one needs to be particularly aware of the risk of progression to Type III. Type III, Type IV and Type V are the most serious types of perforation where expedient treatment is crucial in order to save lives.

TYPE I	Extraluminal crater without jet extravasation	TYPEIN	
TYPE II	Pericardial or myocardial blushing without jet extravasation	TYPE II >	
TYPE III	Active jet extravasation exit jet > 1mm	TYPE III >	
TYPE IV	Leaking into another cardiovascular cavity	TYPE IV >	
TYPEV	Distal perforation	TYPE V >	

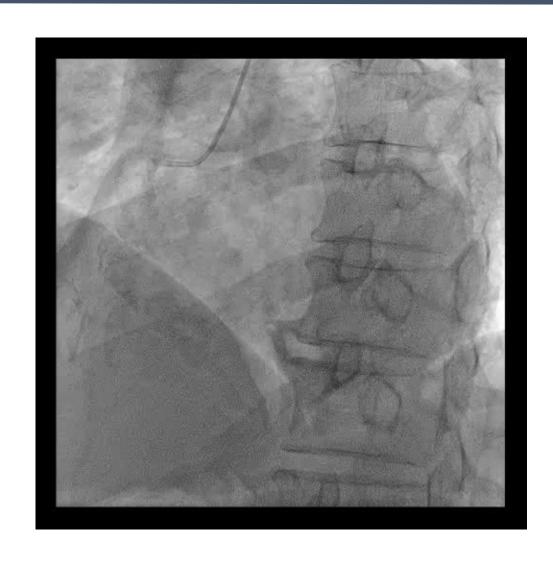
### #Case1





AP CAU AP CRA

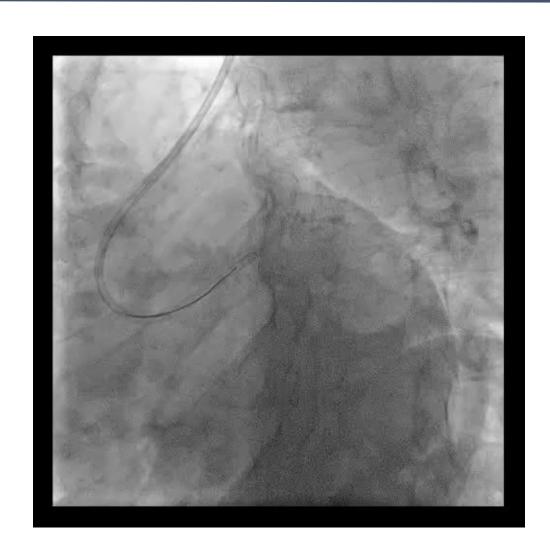
# Coronary angiography (PCI 1)

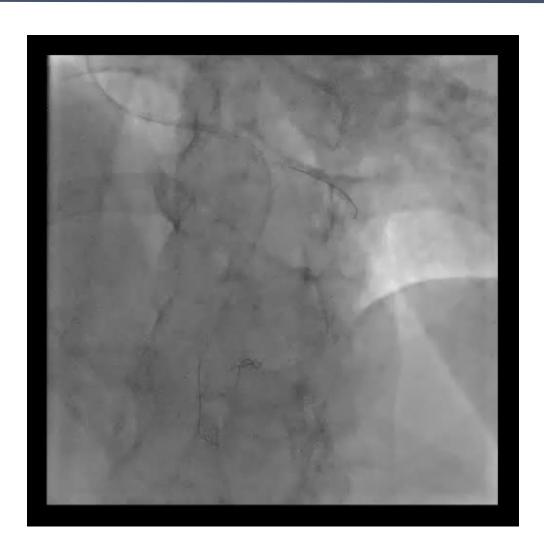




RCA (Pre) RCA (Post Stent)

# Coronary angiography (PCI 2)

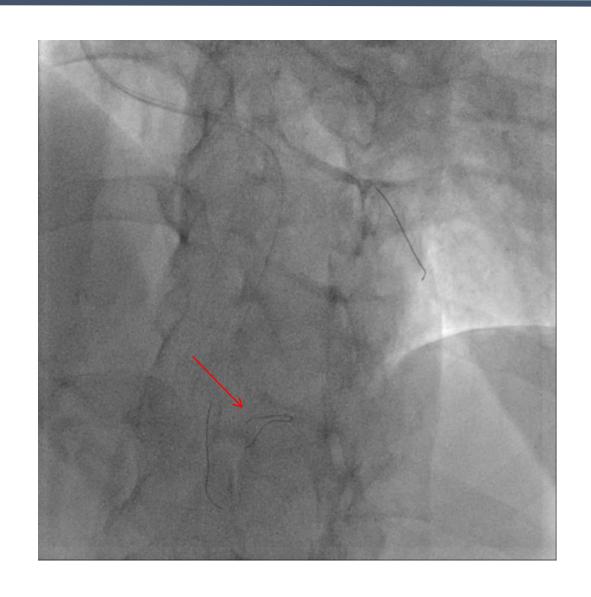


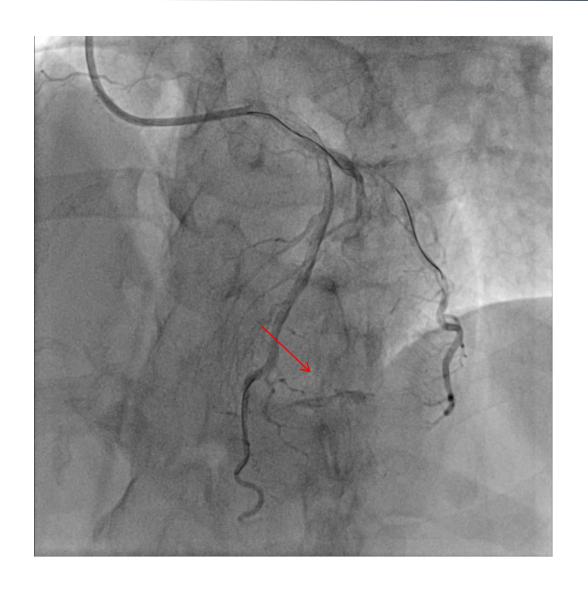


**LAO CAU** 

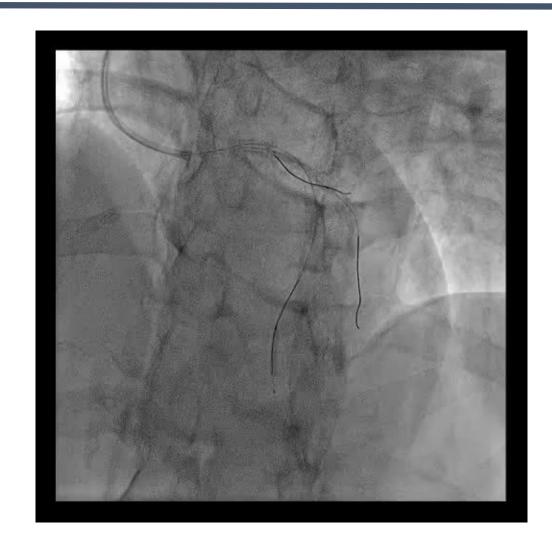
Wire perforation

#### **Wire Perforation**





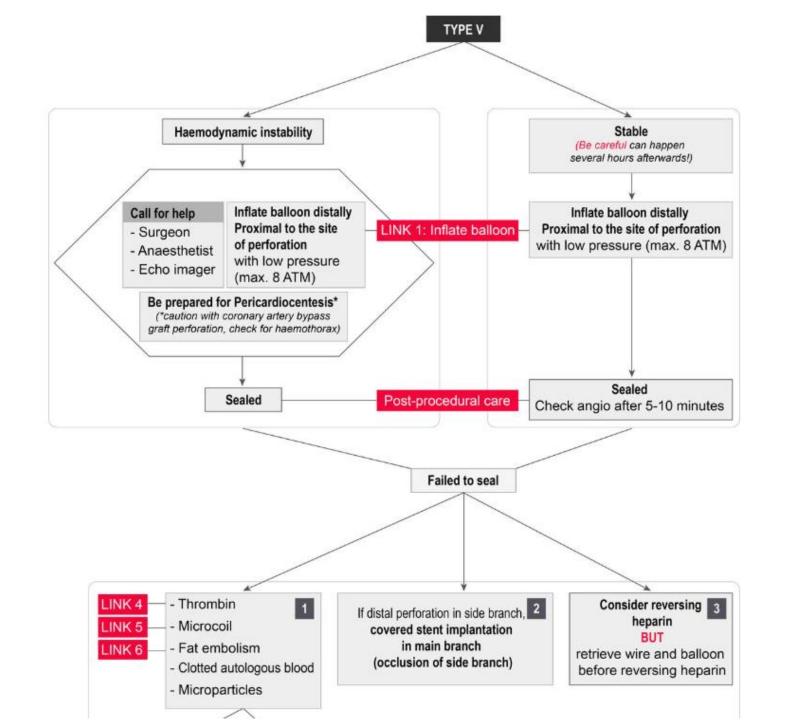
# **Coronary angiography**



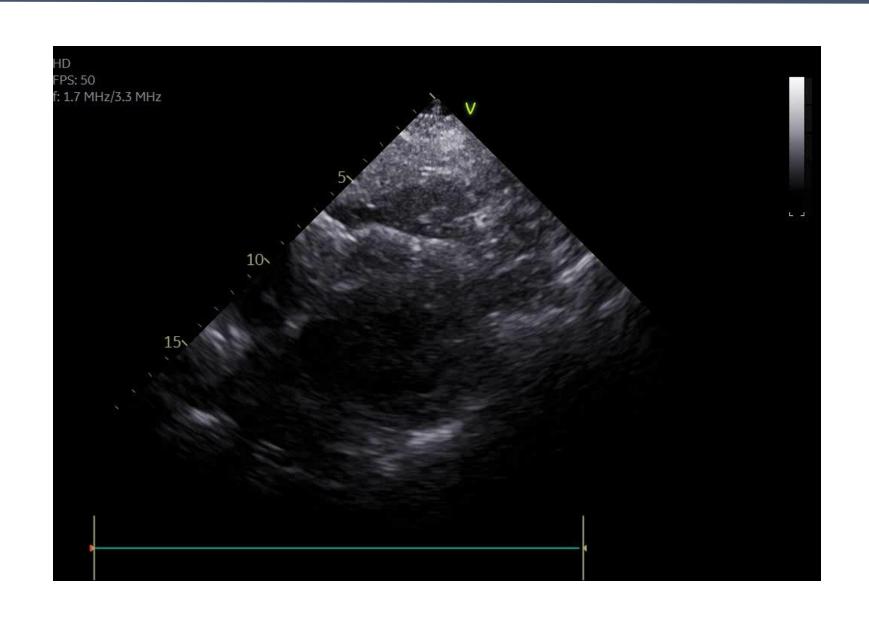


**Balloon embolization** 

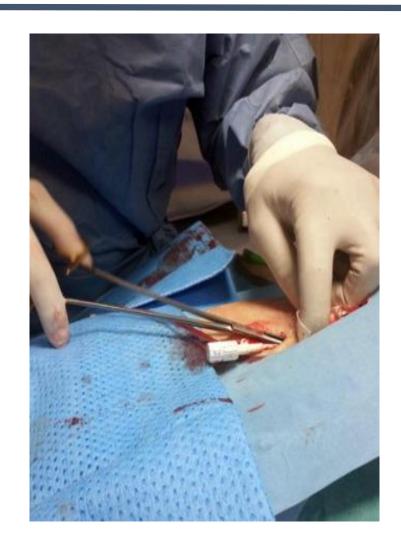
Post balloon



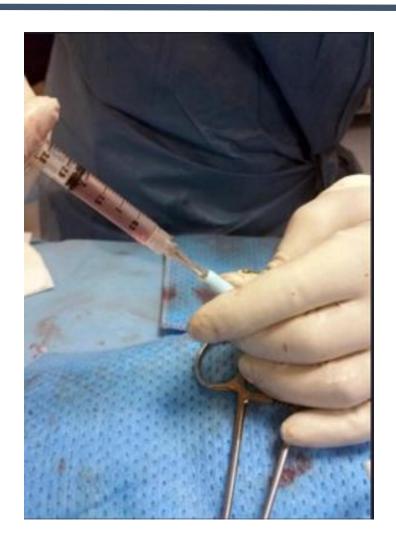
#### **Portable Echo**



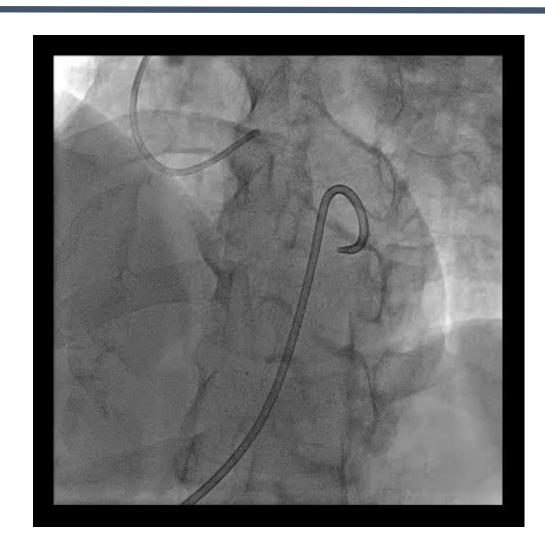
#### **Fat embolization**

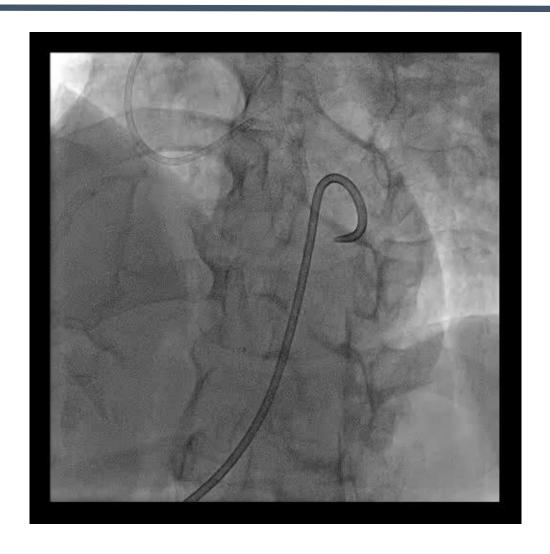




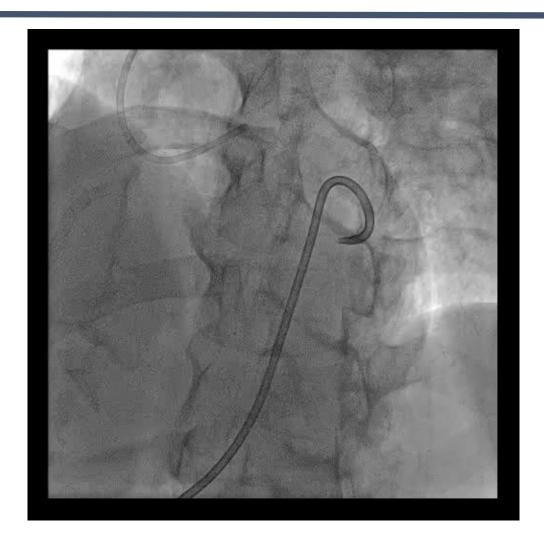


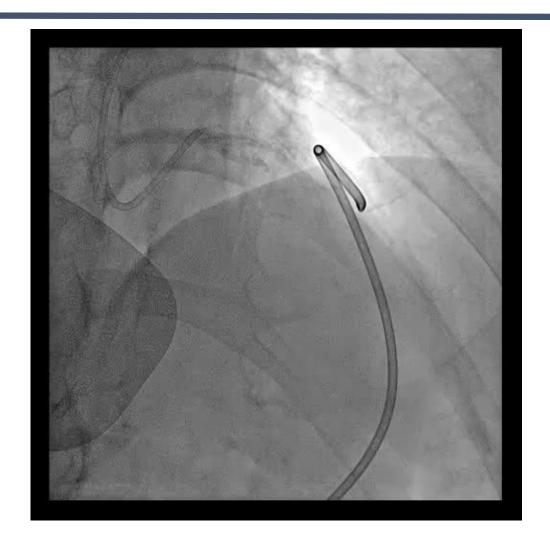
#### **Fat embolization**





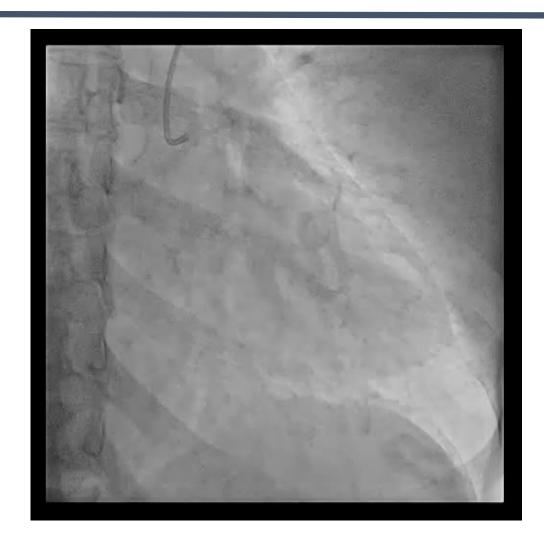
# Coronary angiography (PCI 1)

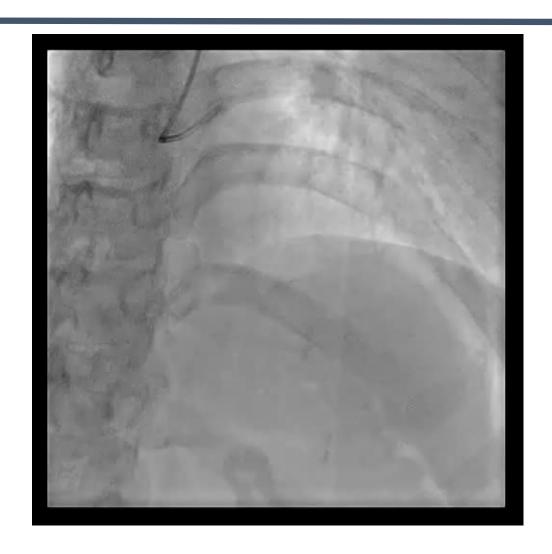




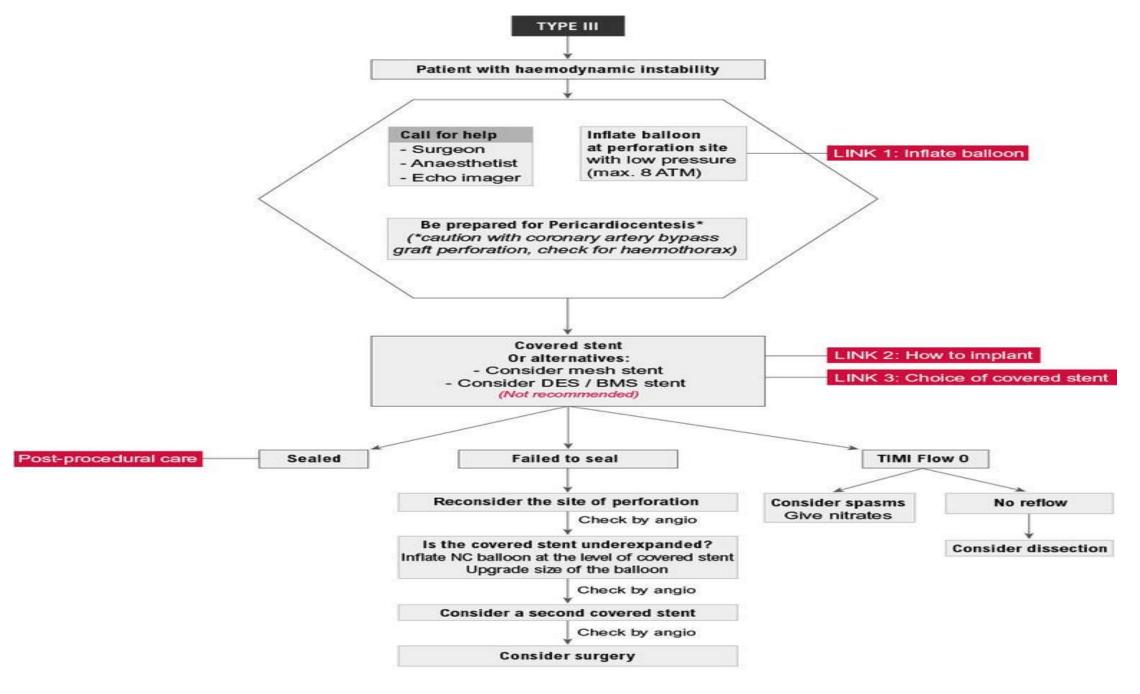
Final angiography

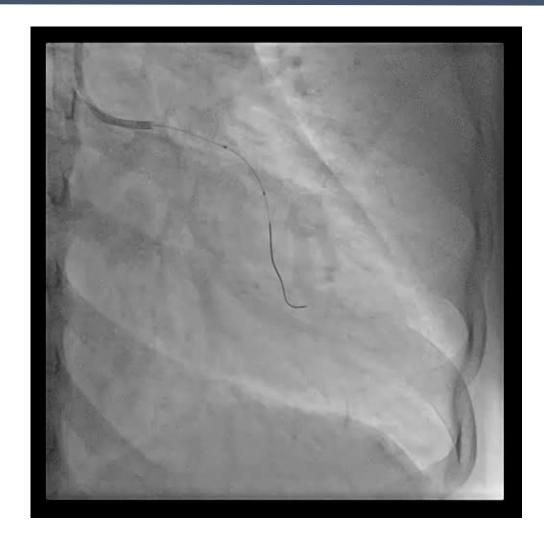
### #Case2

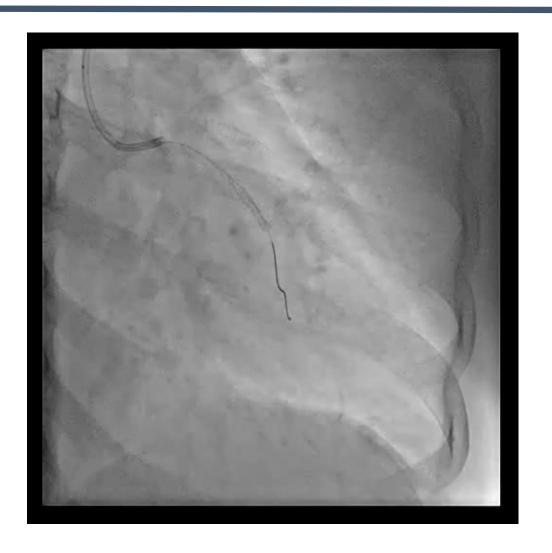




RAO CAU AP CRA







Post PCI Post Graft stent

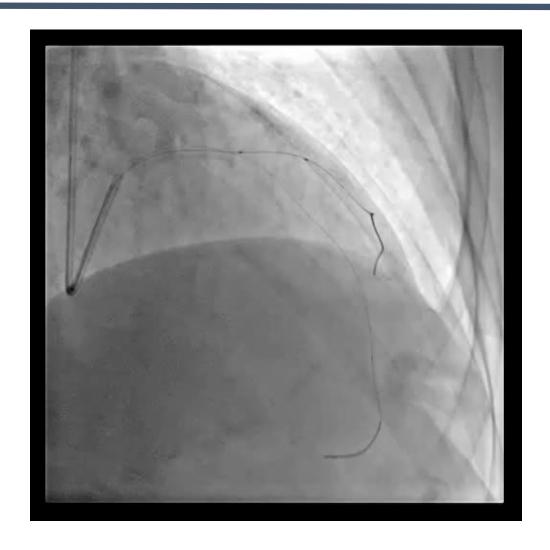
## #Case3



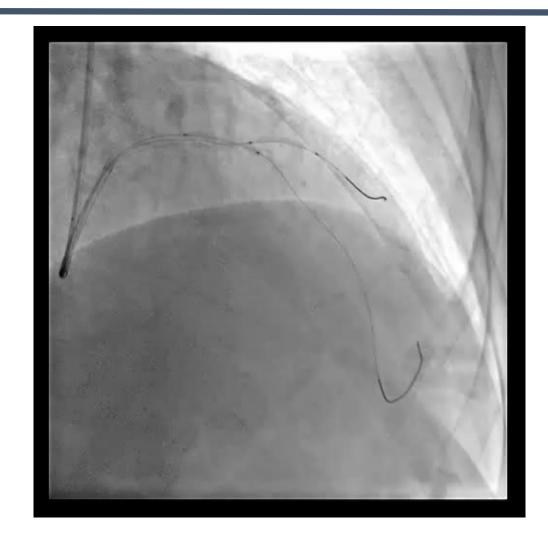


AP CRA LAO CRA





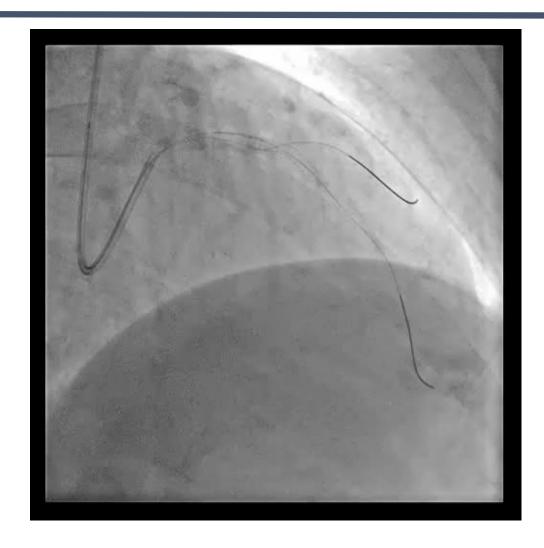
D1 jail Post balloon



Balloon implation 5min



Post Balloon implation 5min





Final angiography

#### Conclusion

Balloon tamponade

Graft stent Implantation

Fat Embolization