

What If the Microcatheter Cannot Cross the Channel?

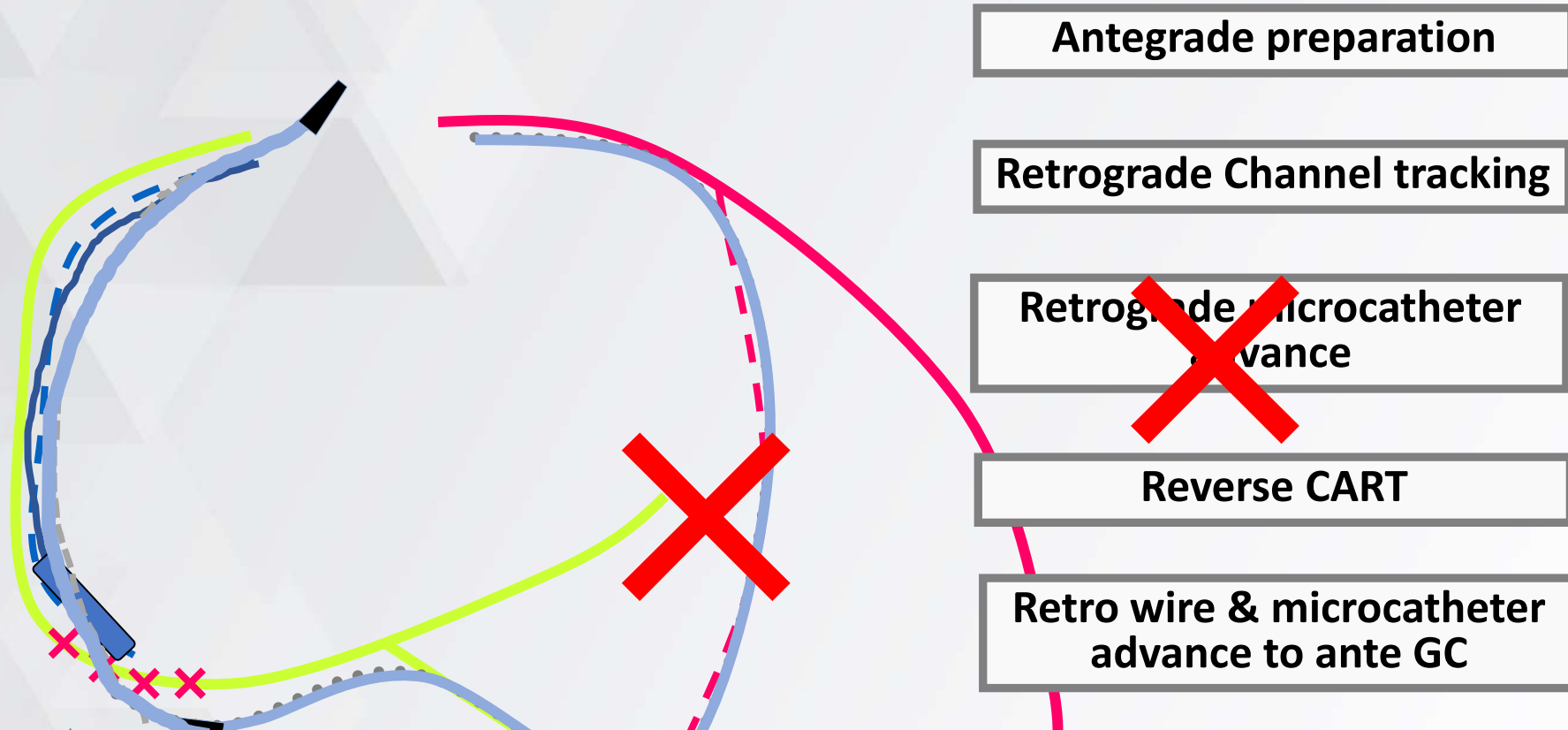
Toyohashi Heart Center

Maoto Habara

Disclosure

- Disclose potential conflicts of interest
- None

Usual strategy in retrograde PCI

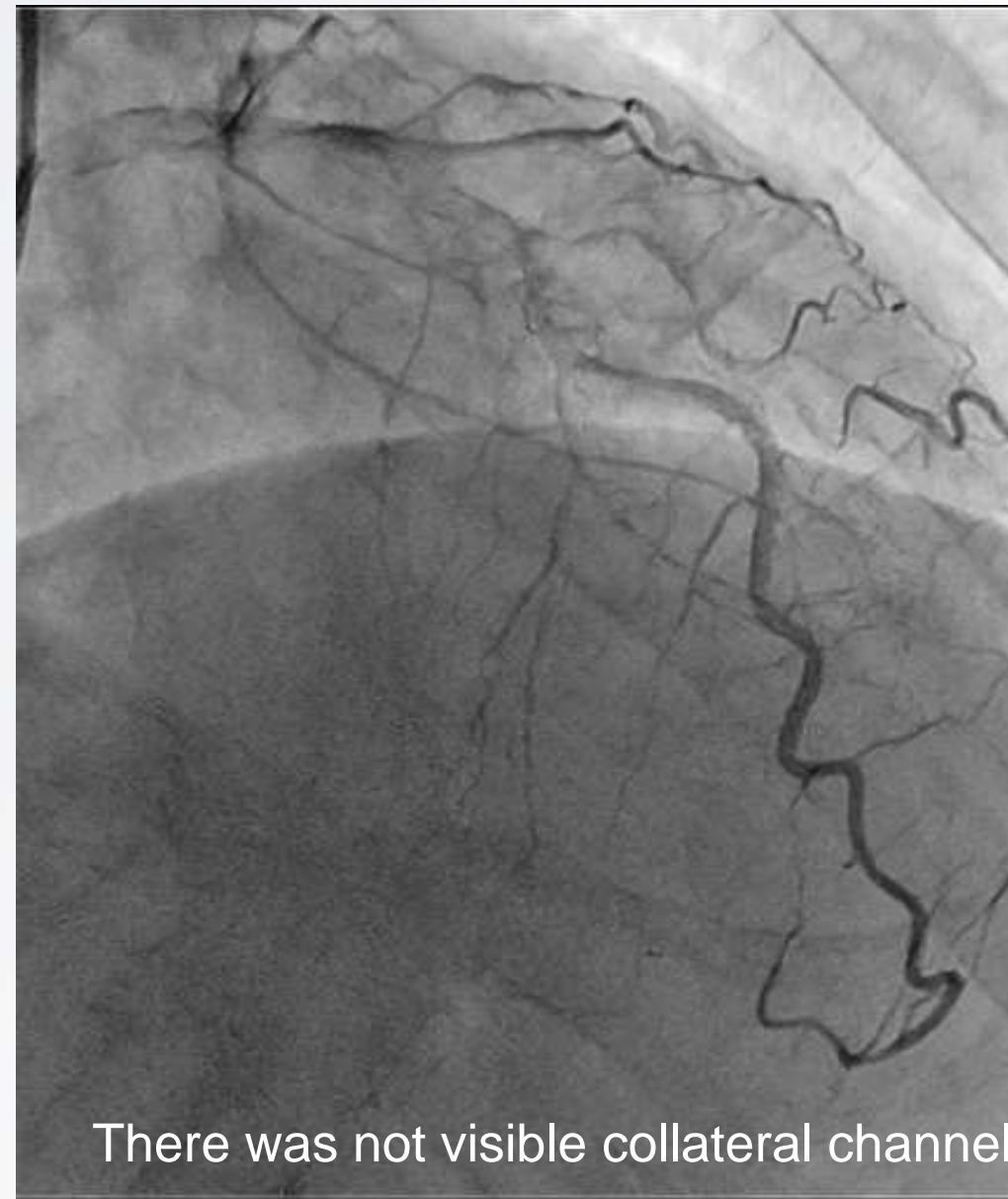
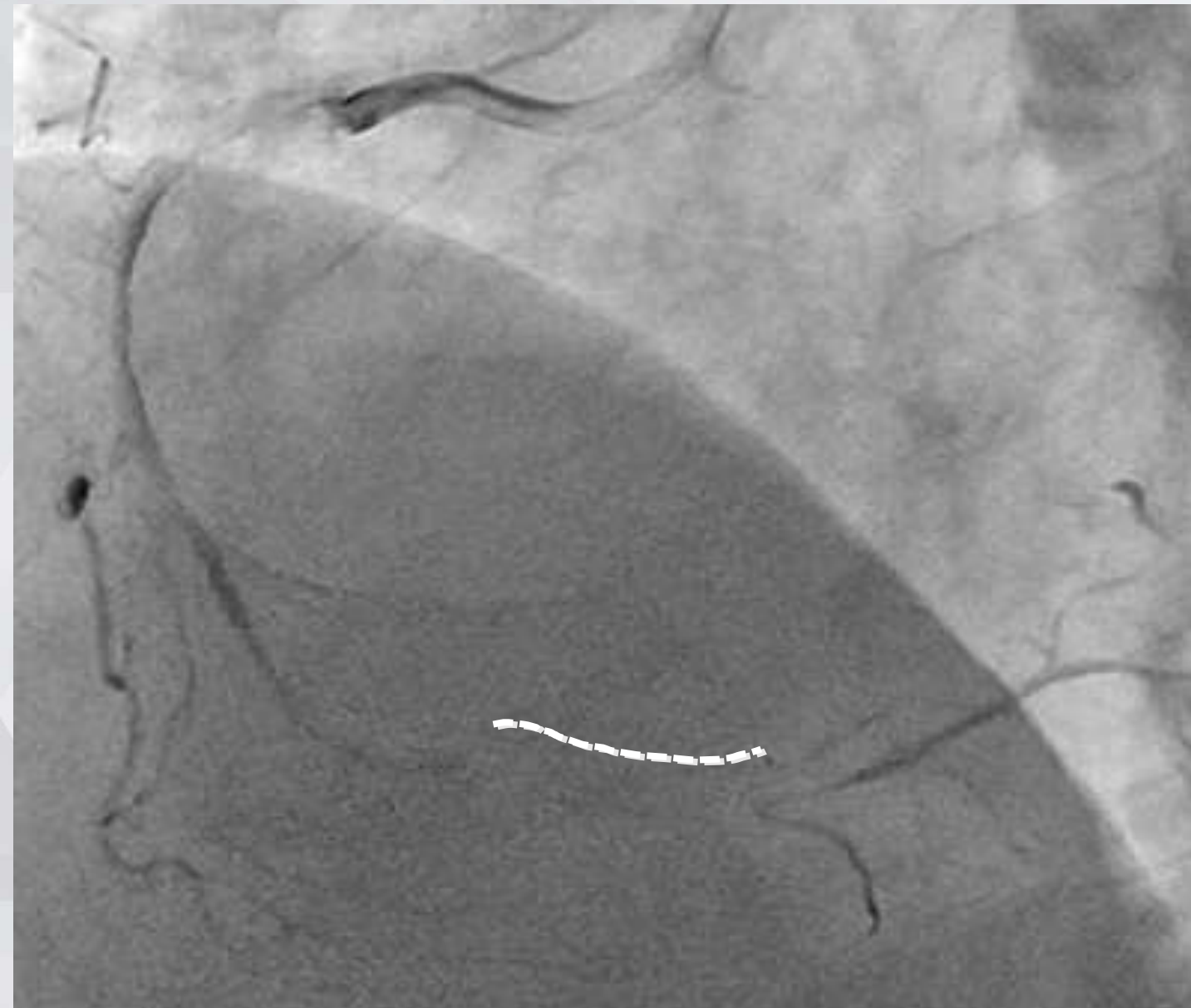


Sometimes, retrograde microcatheter can not cross the collateral channel

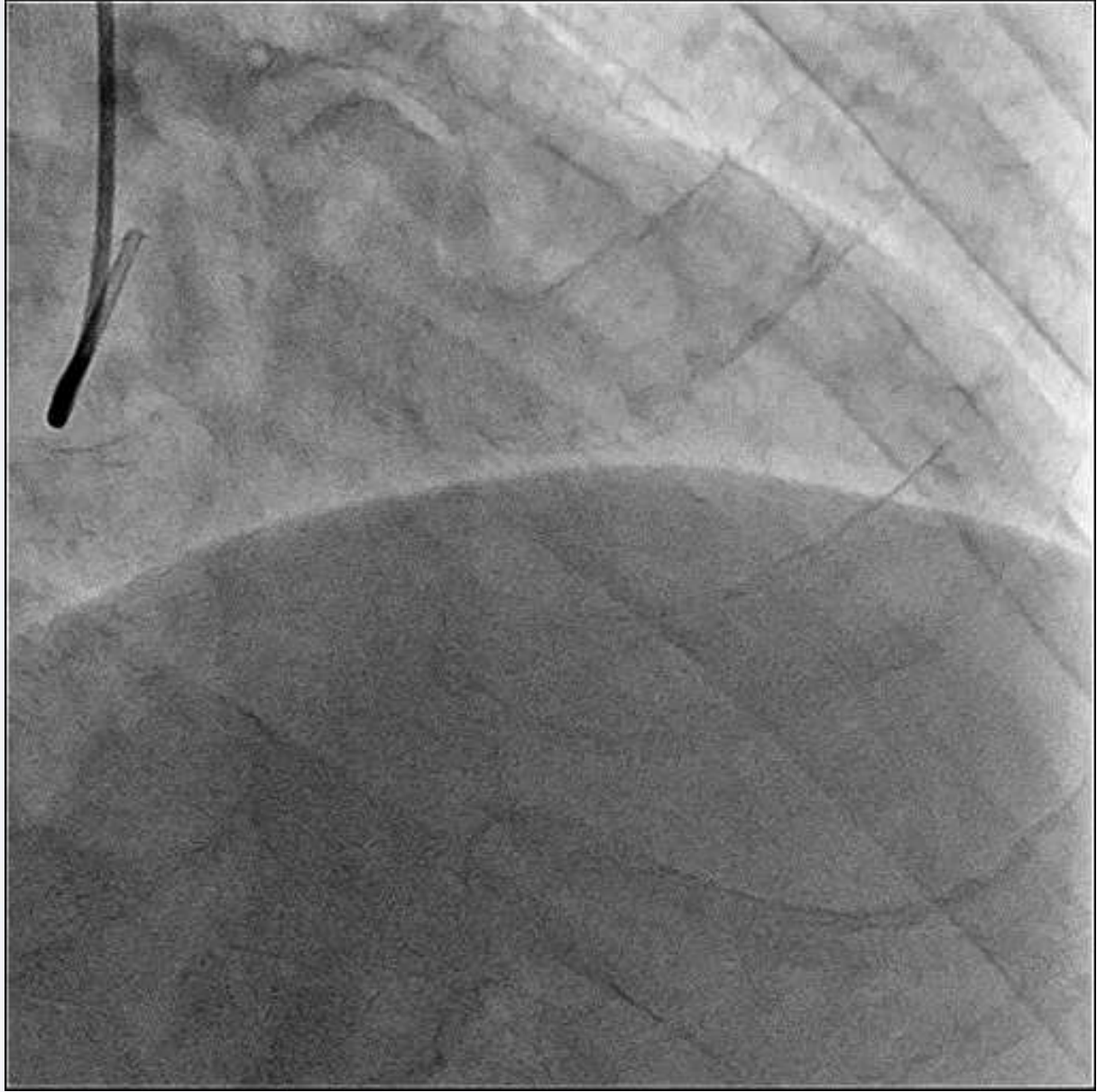
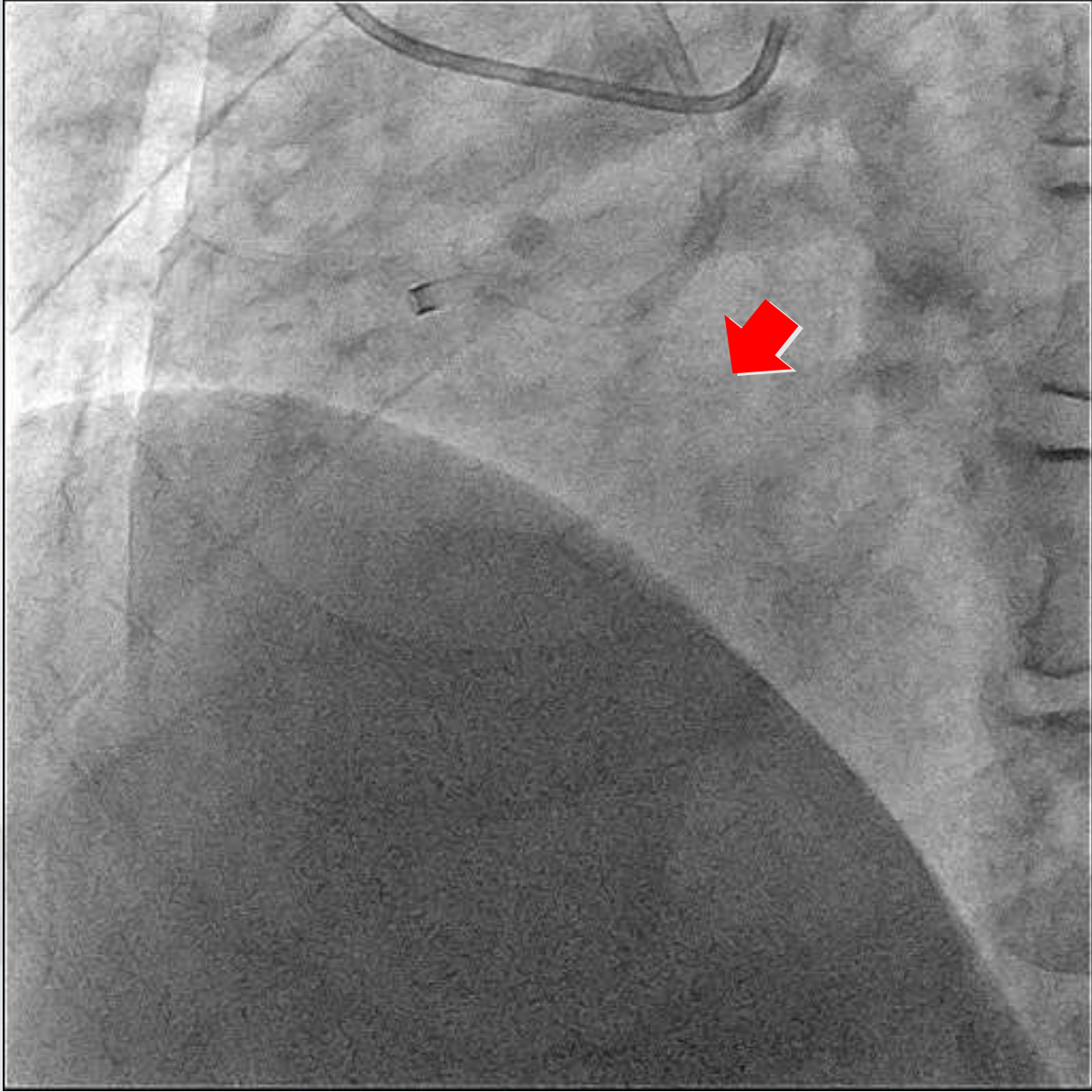
What If the Microcatheter Cannot Cross the Channel?

- 1. Change the kinds of microcatheter**

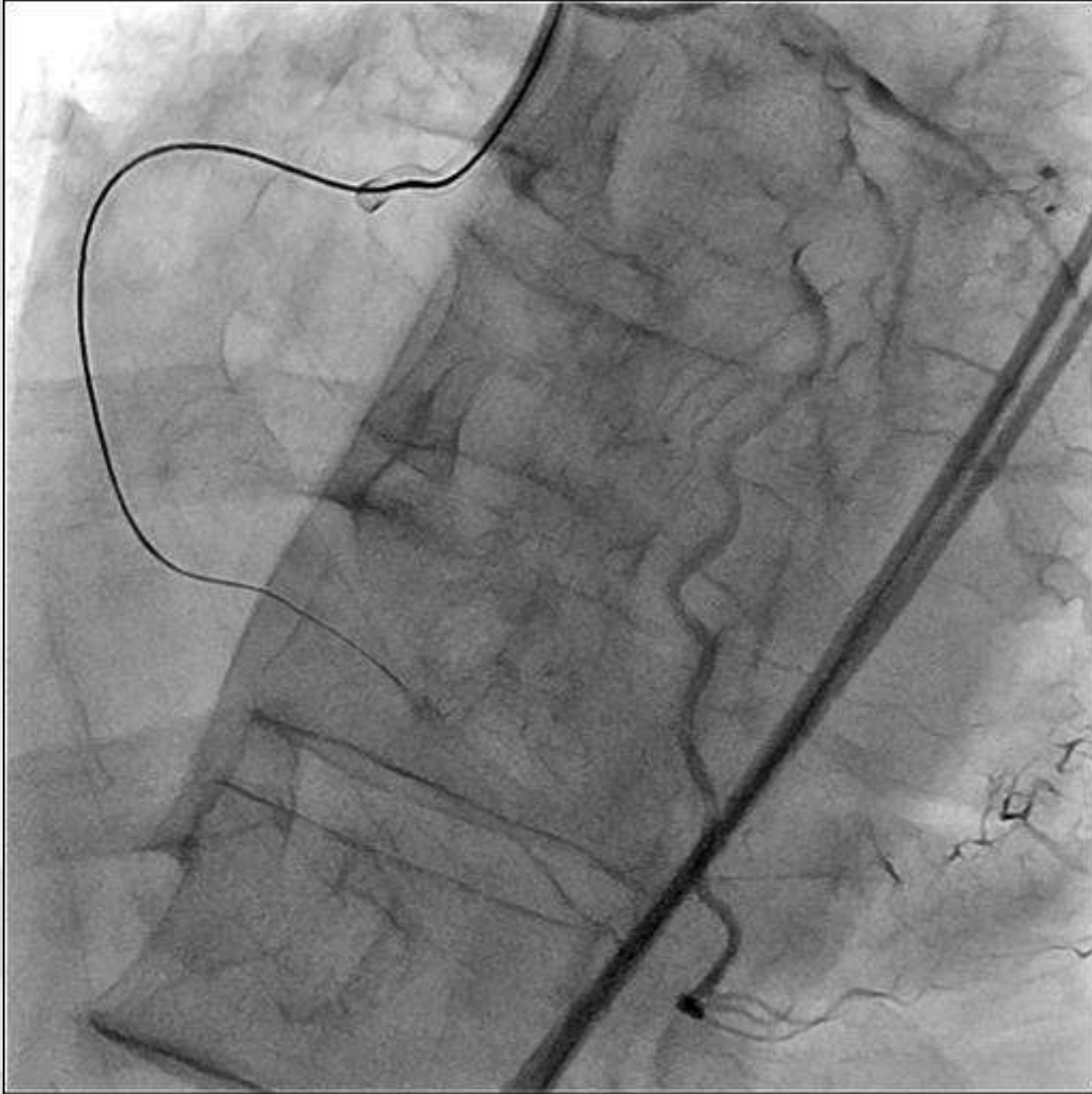
Case; RCA CTO



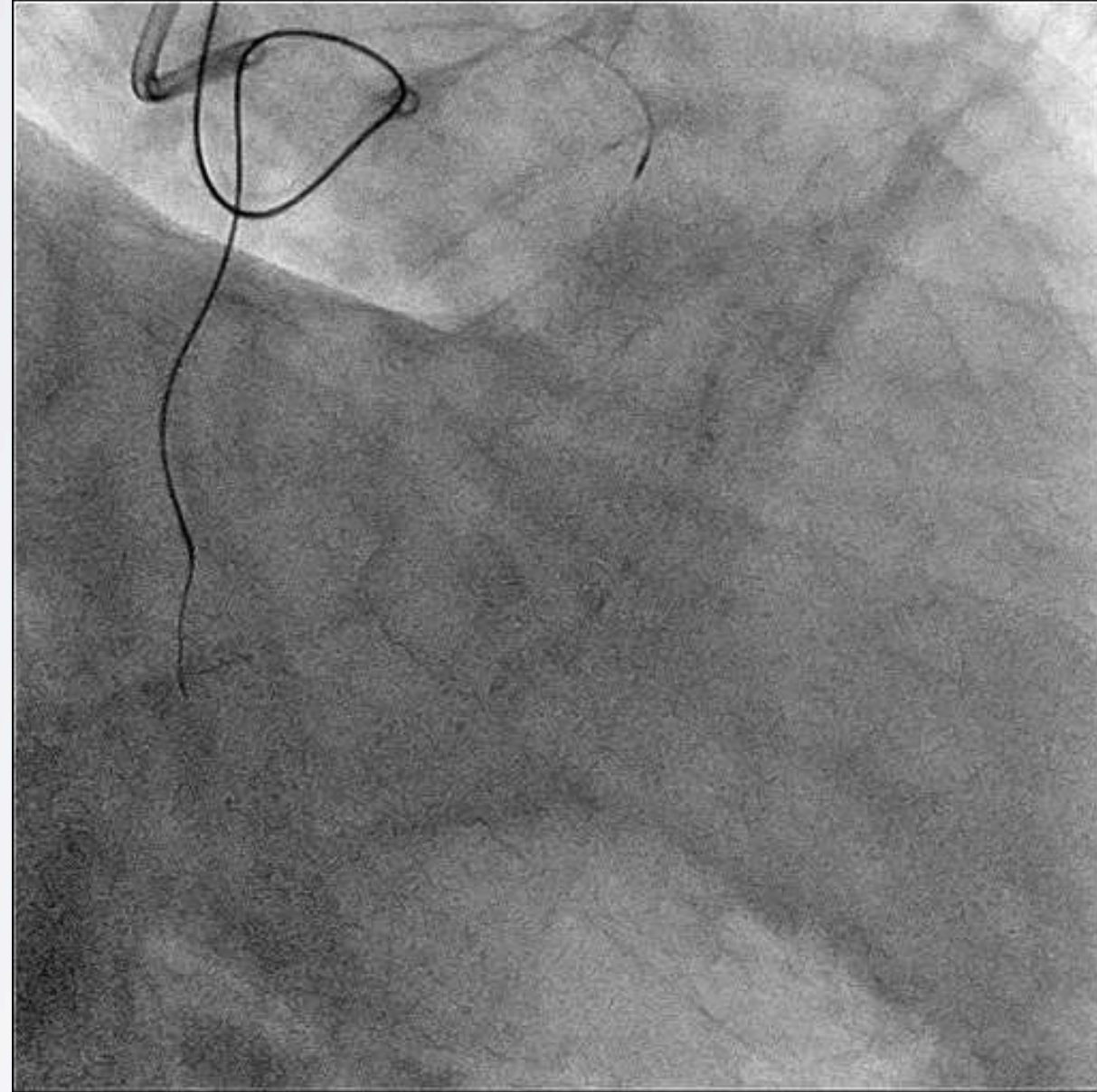
There was not visible collateral channel

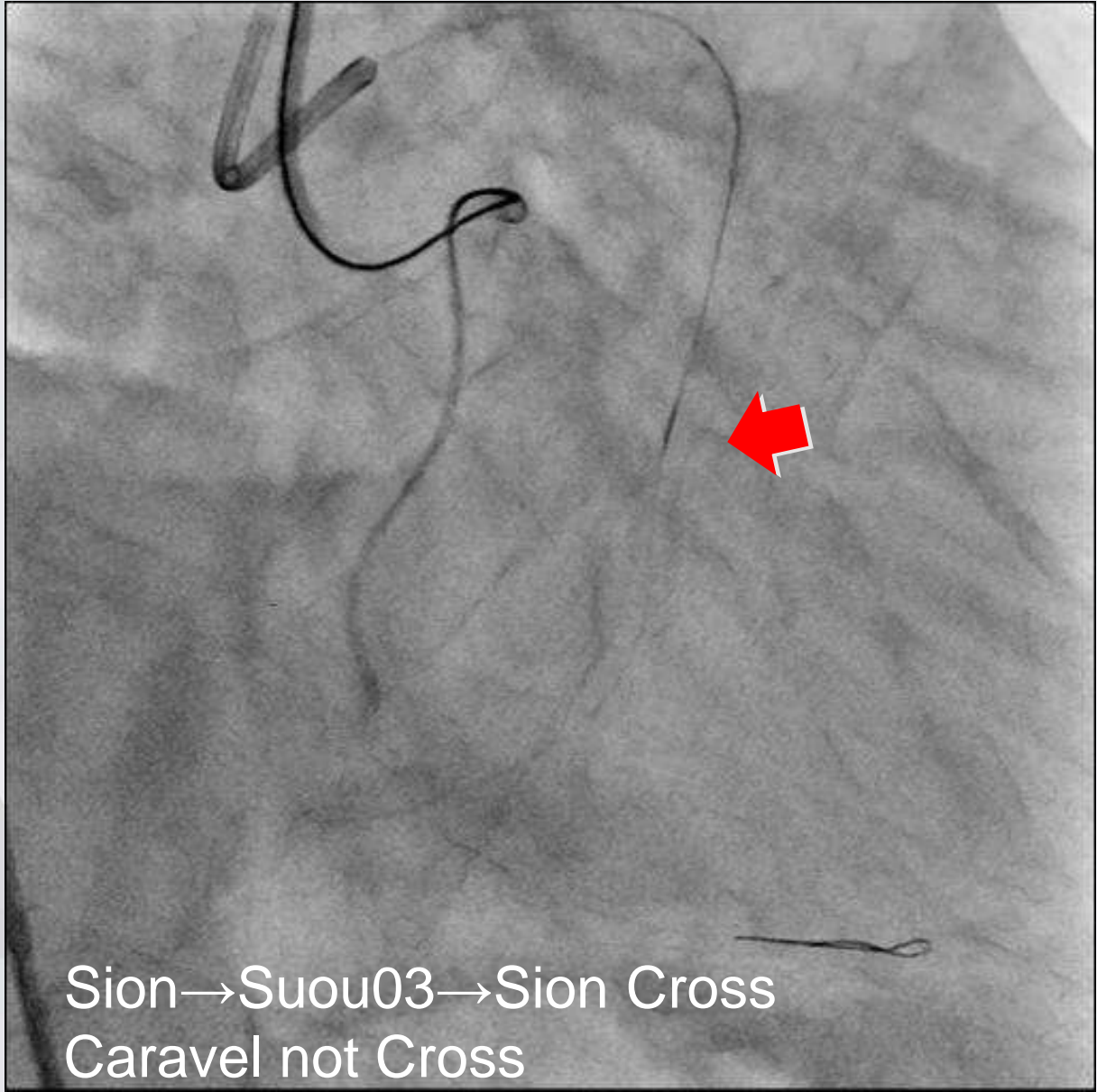


Antegrade failure

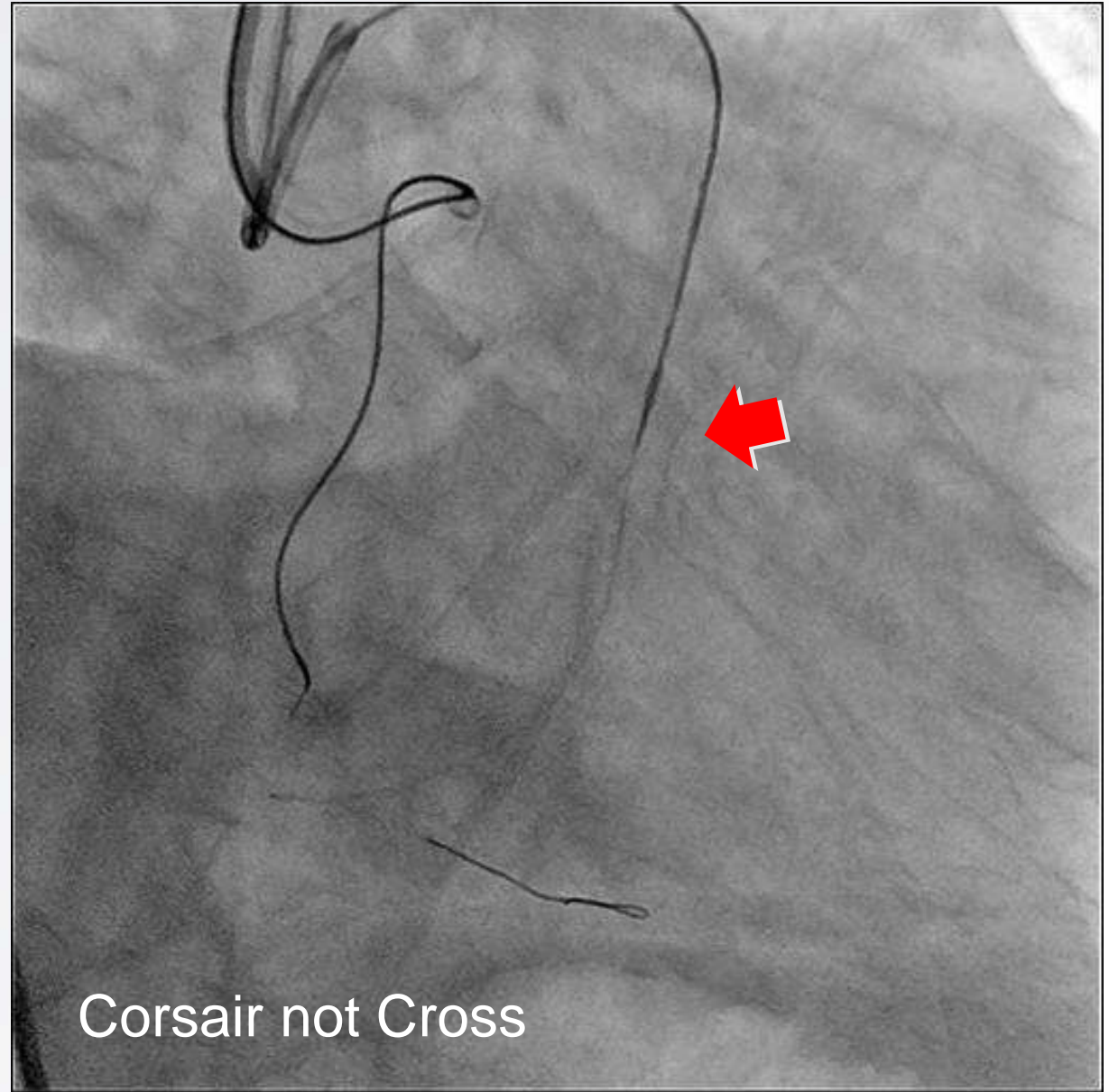


Check some septal channels

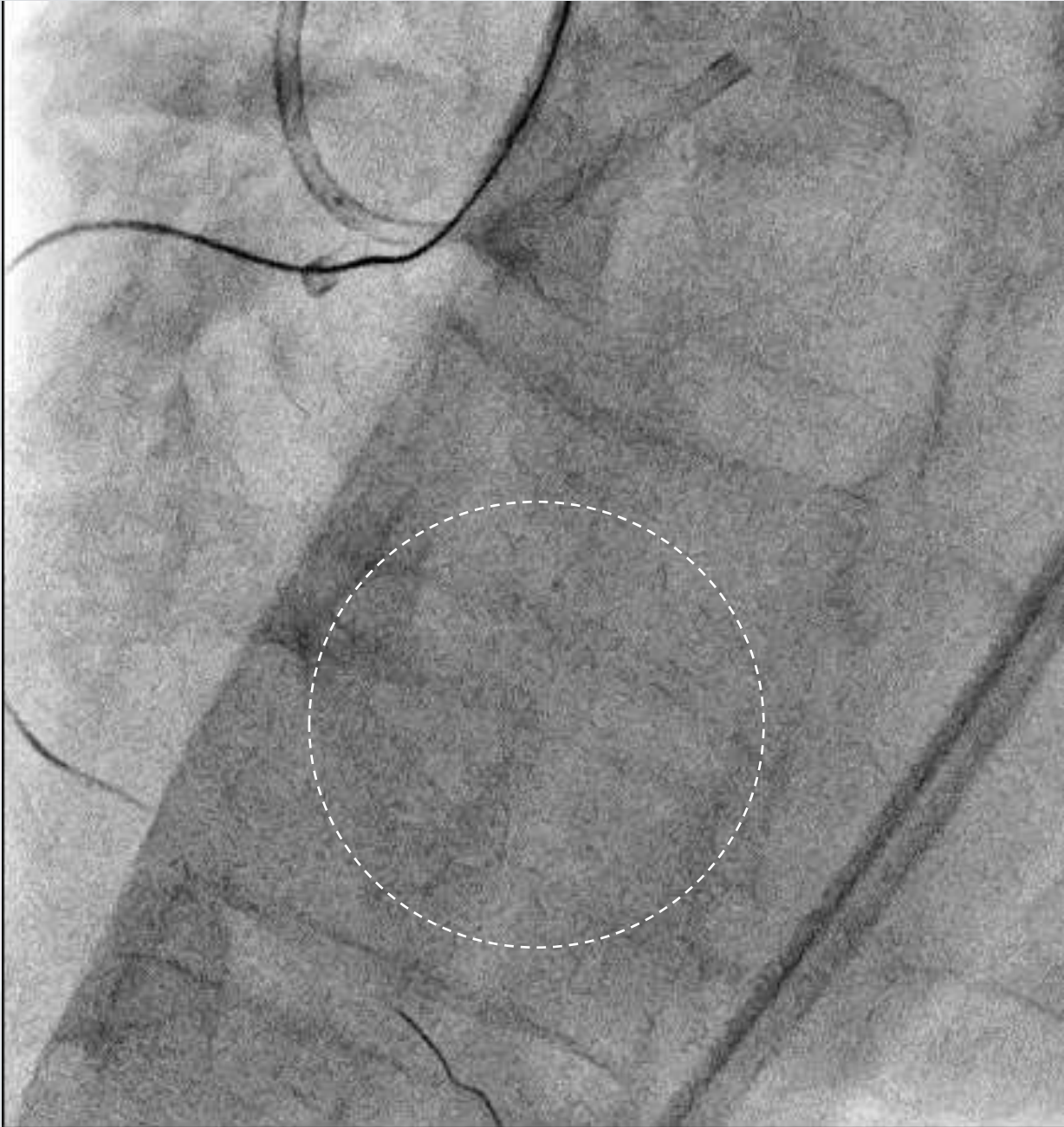






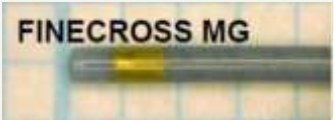




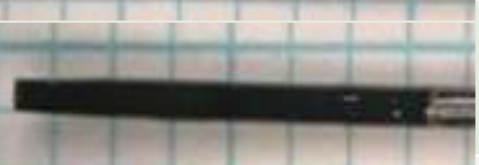
Sion -> Suou03 -> Sion Cross
Caravel not Cross



Corsair not Cross



Finexcross could cross the channel

Product	Tip length (Tip –marker) (mm)		Diameter (Outer)			(Inner)	length
			Tip	Distal	Proximal	Tip	
Zizai	0.4 mm		1.5 Fr. 0.50 mm		2.8 Fr. 0.94 mm	0.017" 0.43 mm	130cm 150cm
FineCrossGT	1.3 mm		1.7 Fr. 0.57 mm				130cm 150cm
FineCrossMG	0.6 mm		1.8Fr*1 0.60mm				130cm 150cm
Mizuki FX	1.3 mm		1.7 Fr 0.52mm				135cm 150cm
Prominent ReACT	0.6 mm		1.6 Fr 0.50mm				135cm 150cm
Caravel	5.0 mm		1.4Fr. 0.48mm		2.6 Fr. 0.85 mm	0.016" 0.40 mm	135cm 150cm
Corsair Pro	7.0 mm		1.3Fr 0.42 mm		2.9 Fr. 0.9 mm	0.015" 0.38 mm	135cm 150cm
Corsair Pro XS	6.5 mm		1.3Fr 0.44 mm		2.9 Fr. 0.9 mm	0.015" 0.38 mm	150 cm

Soft

Not rotate

Hard

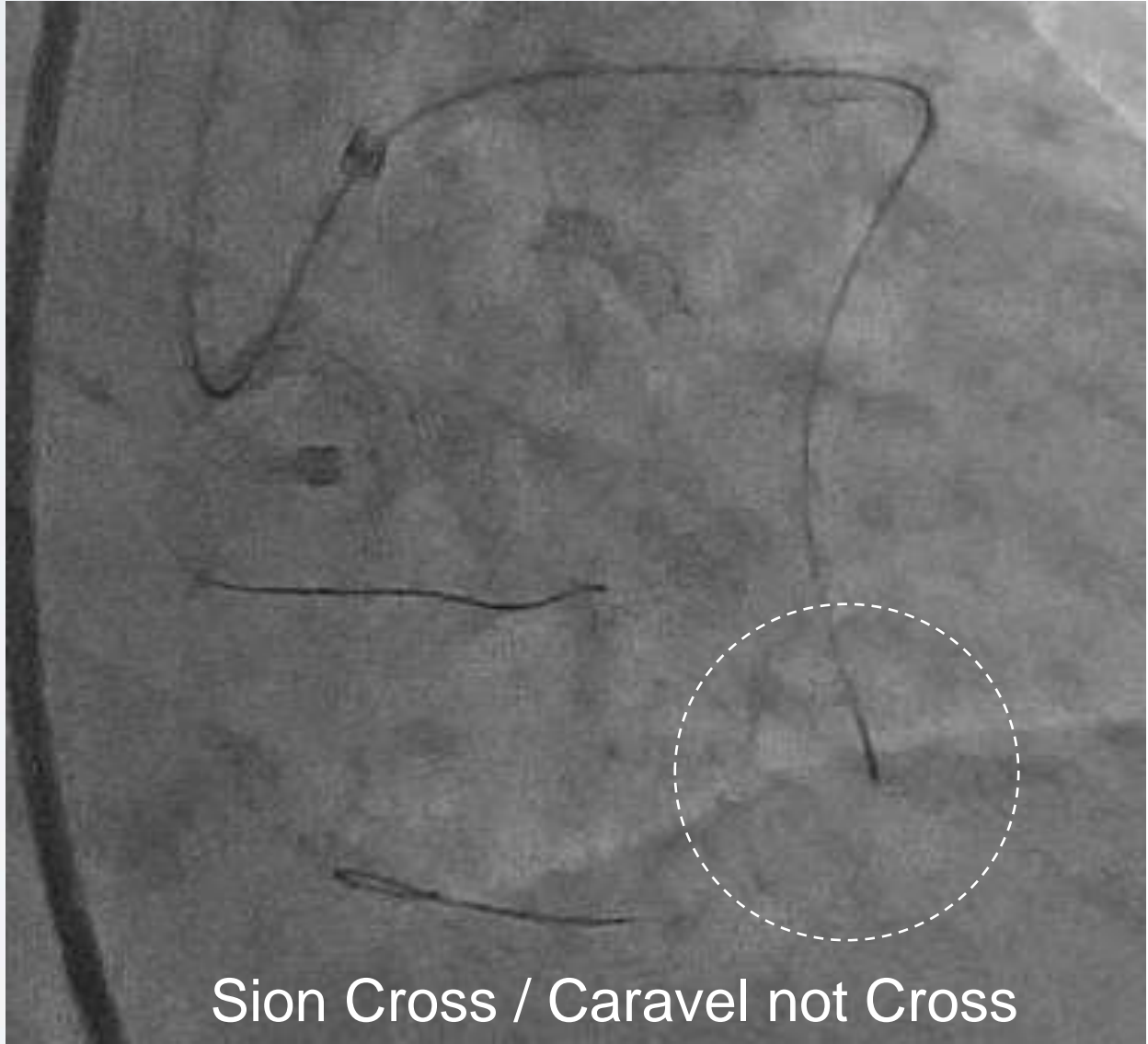
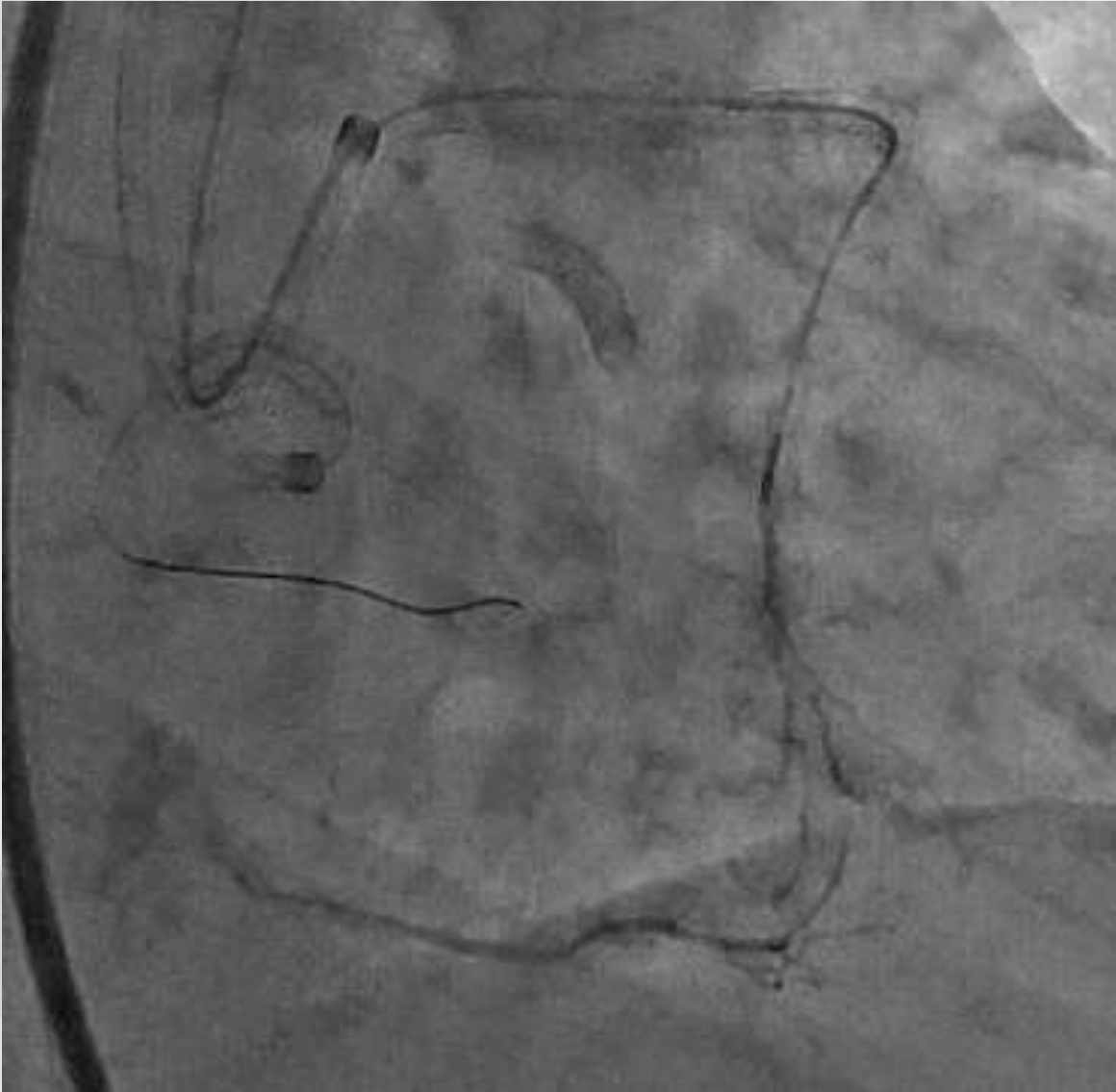
rotate

What If the Microcatheter Cannot Cross the Channel?

- 1. Change the kinds of microcatheter**
- 2. Make strong back up force**

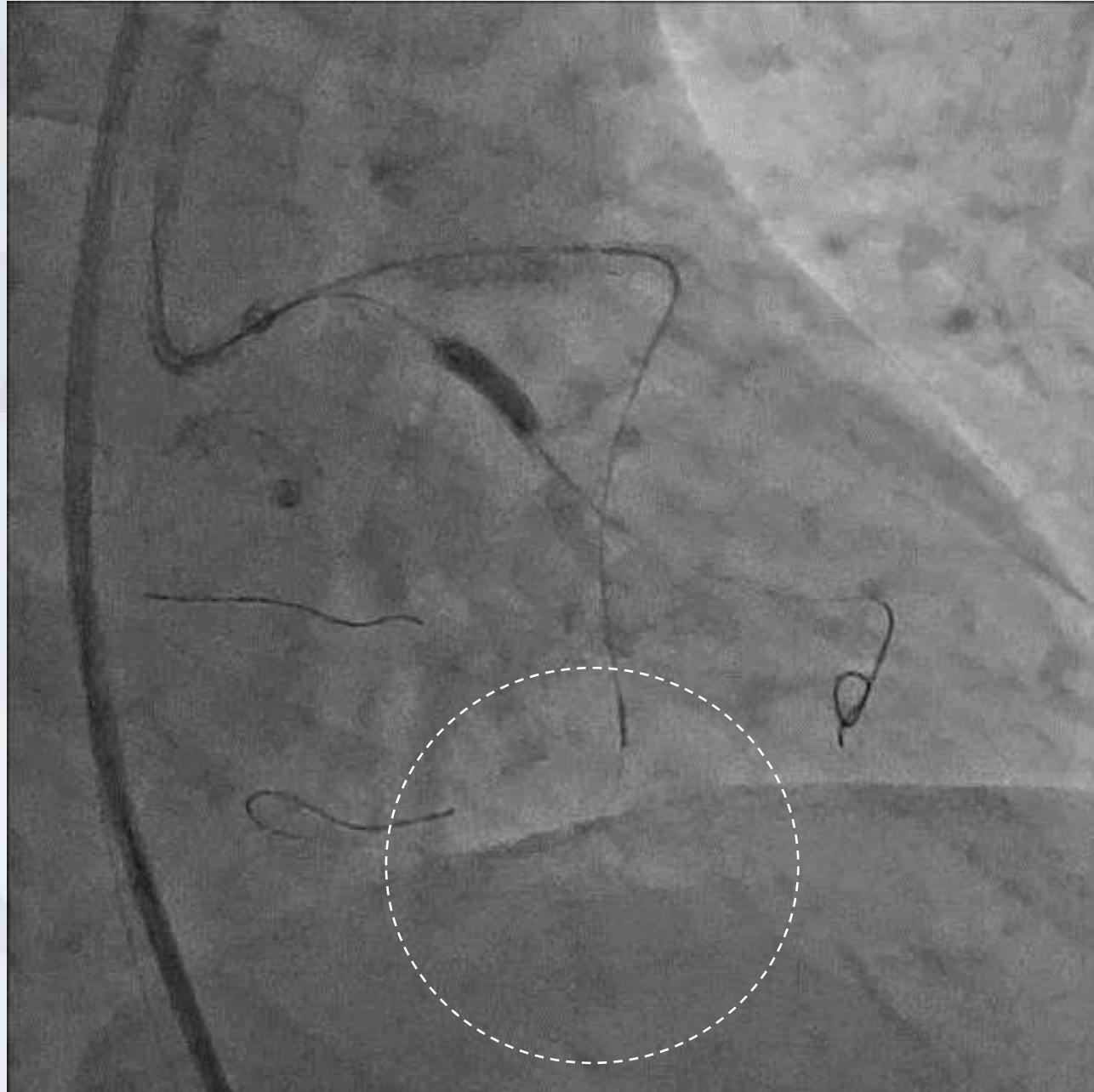
Case; RCA CTO





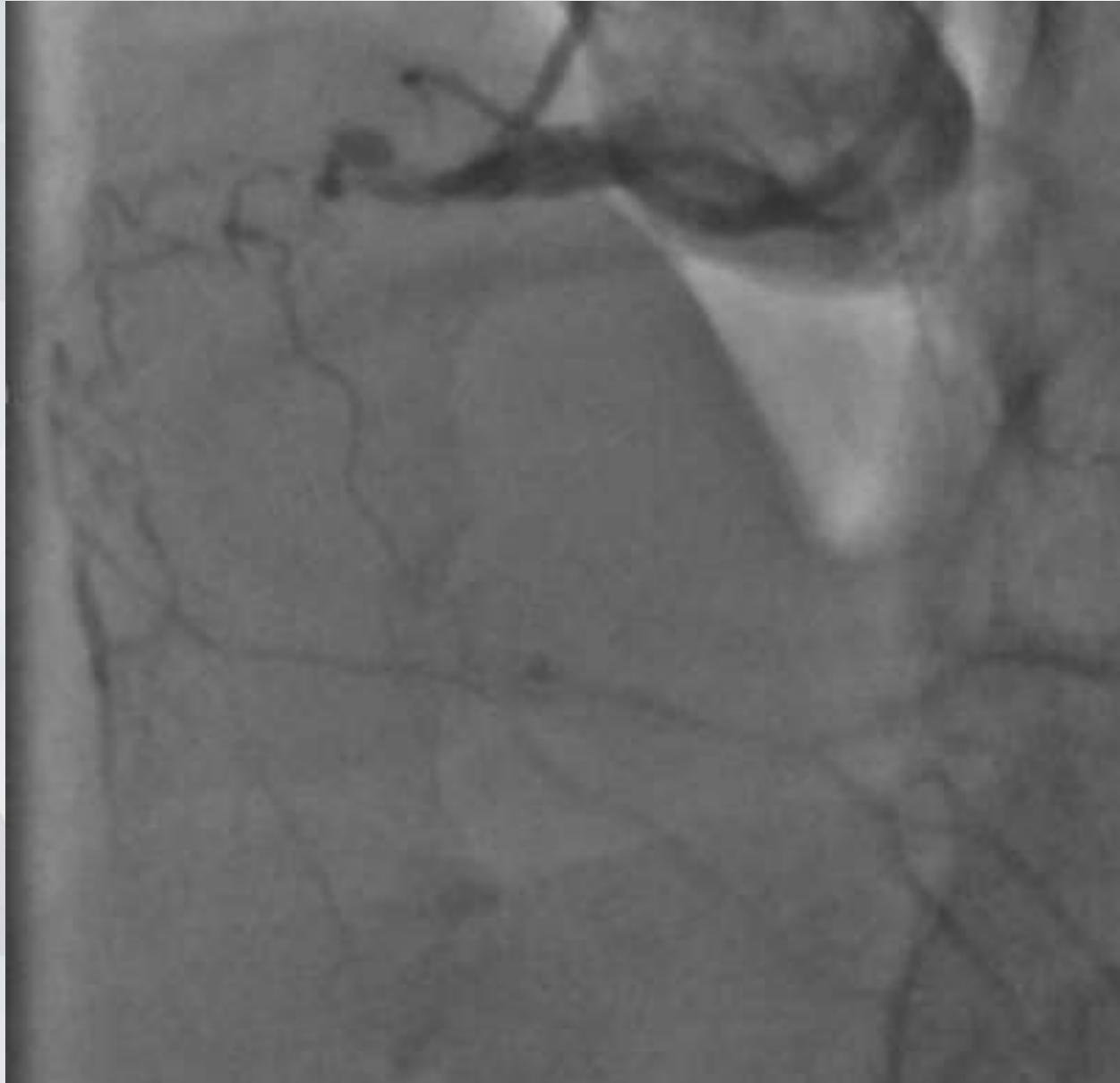
Sion Cross / Caravel not Cross

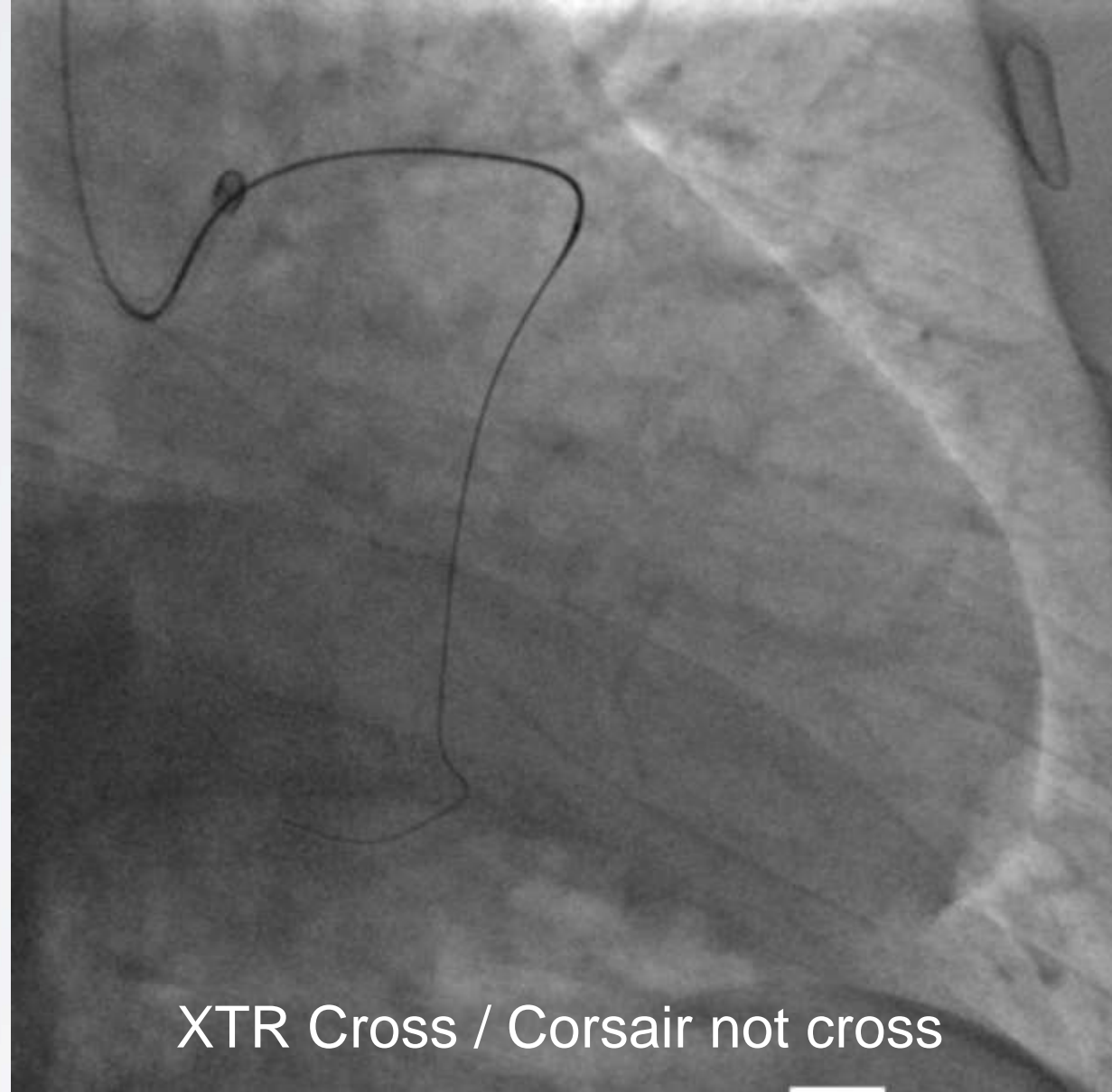
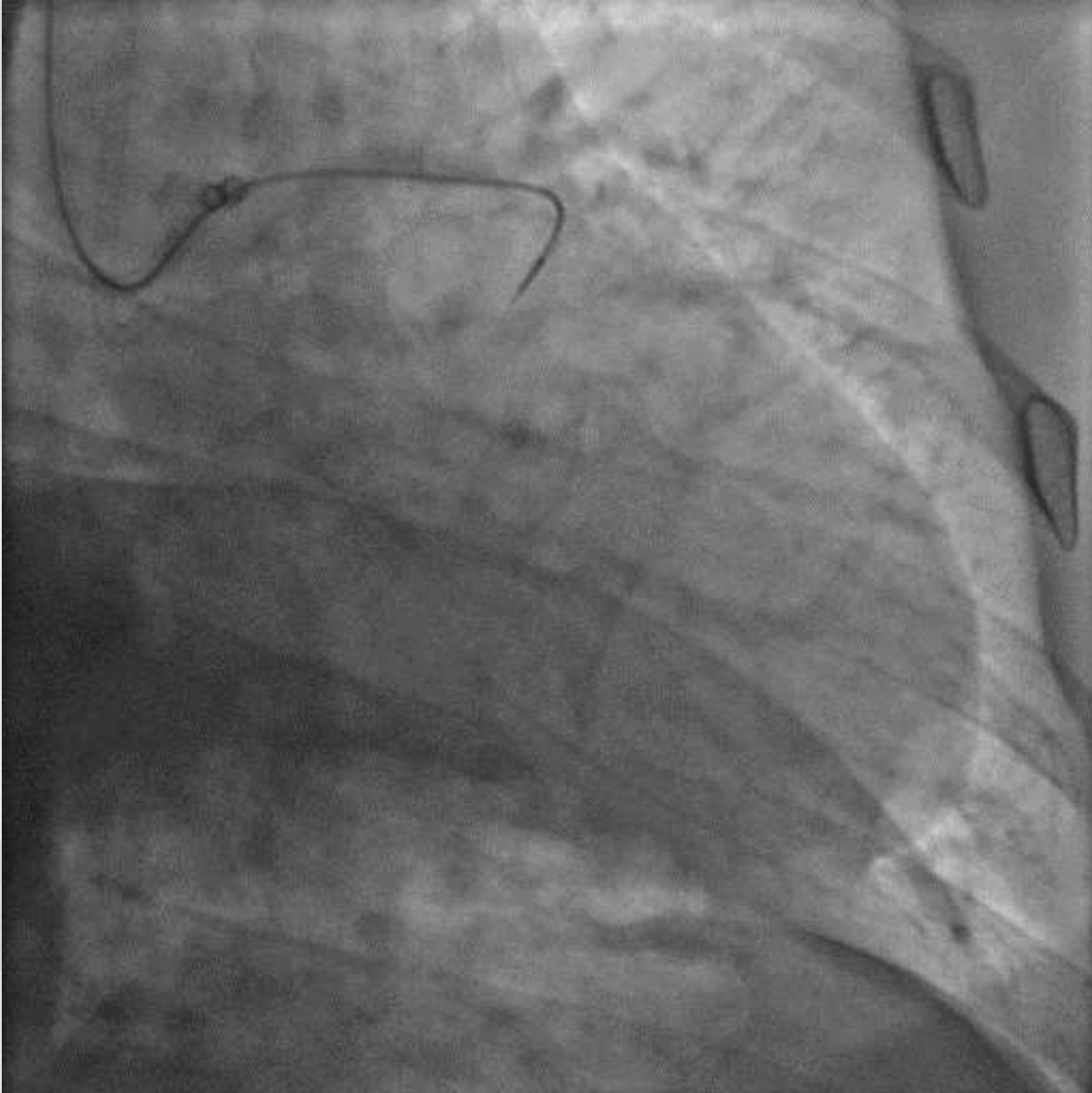
Anchor balloon



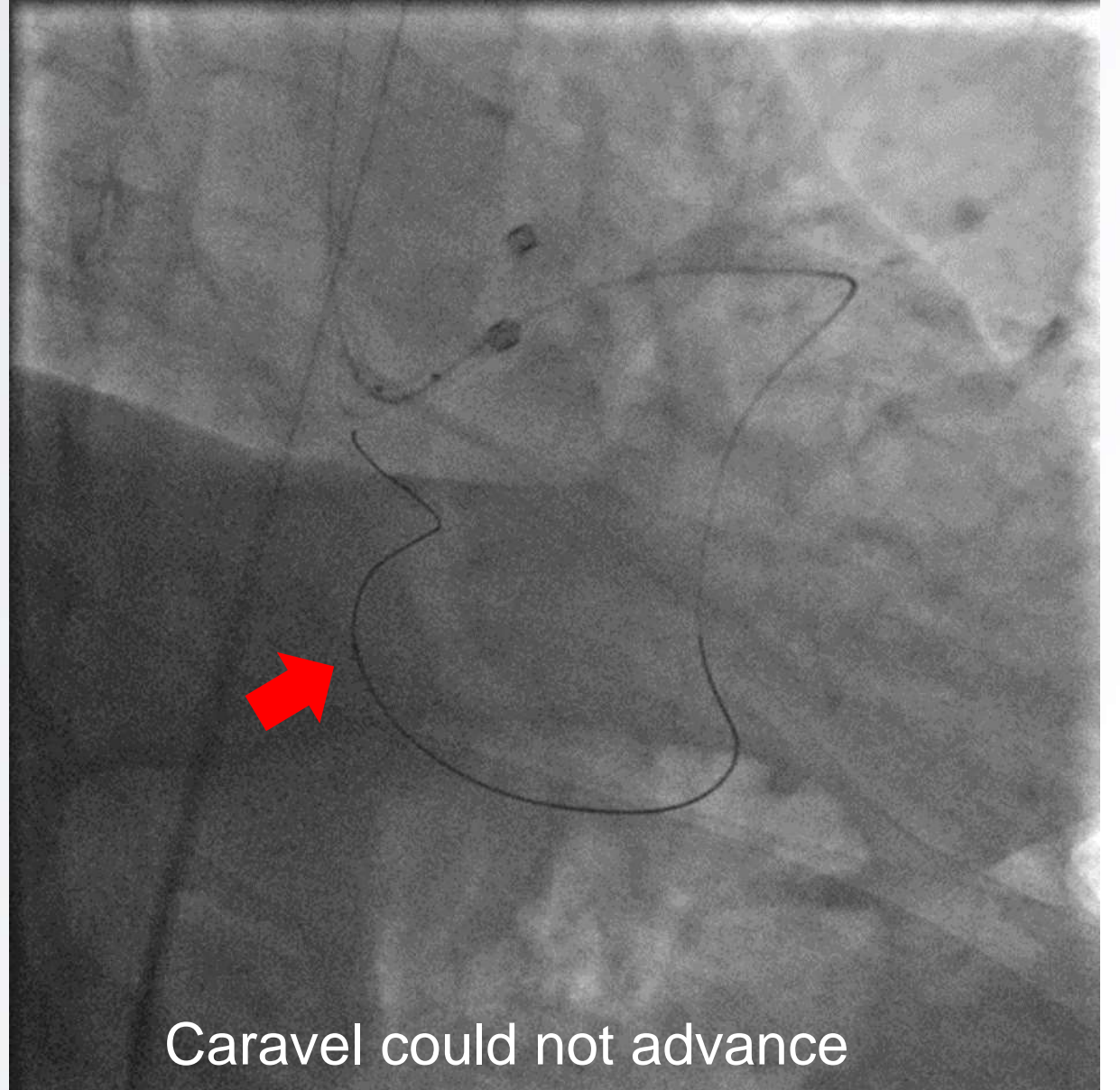
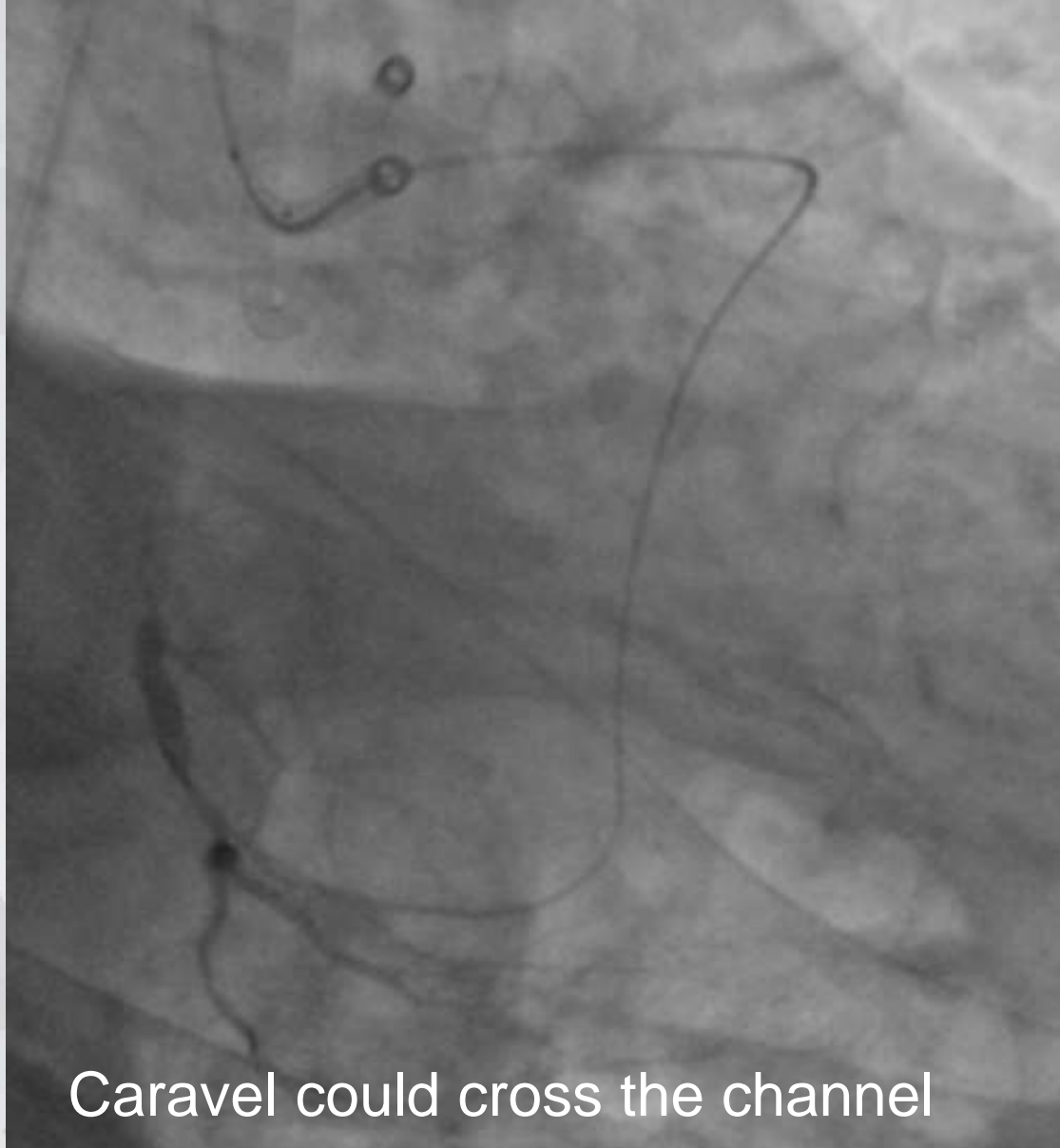
Case; RCA CTO

However, not push too hard

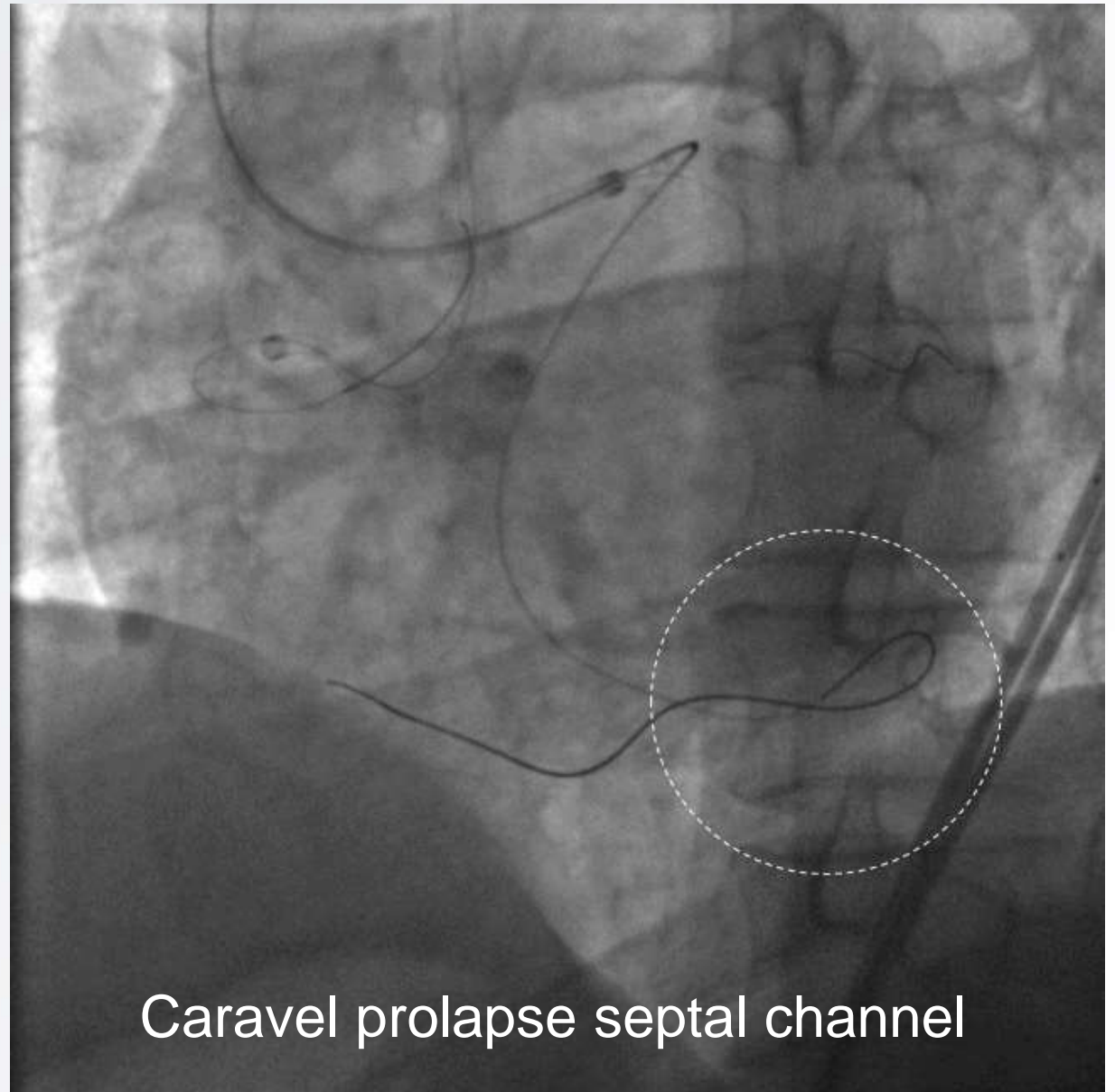
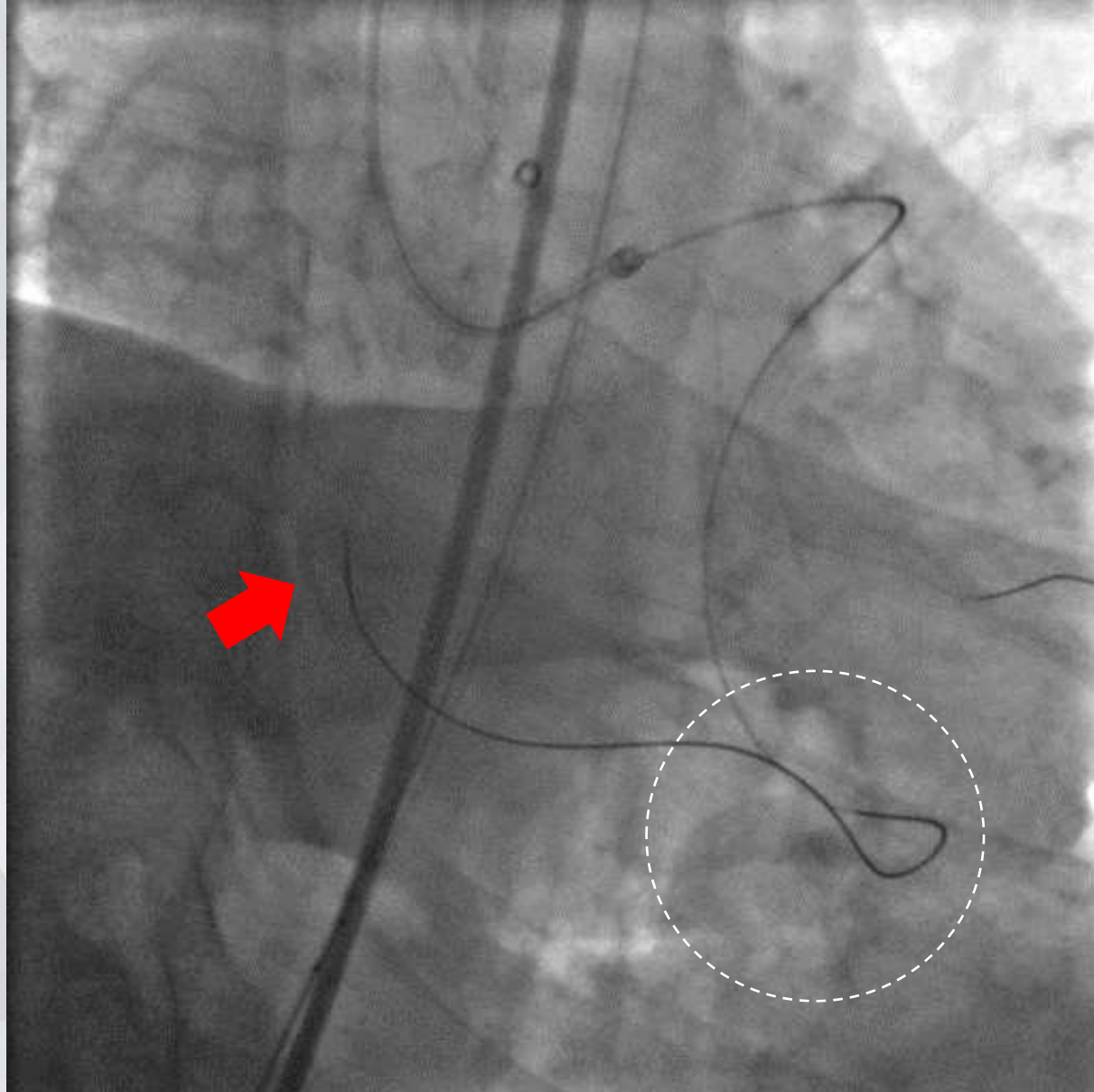




XTR Cross / Corsair not cross

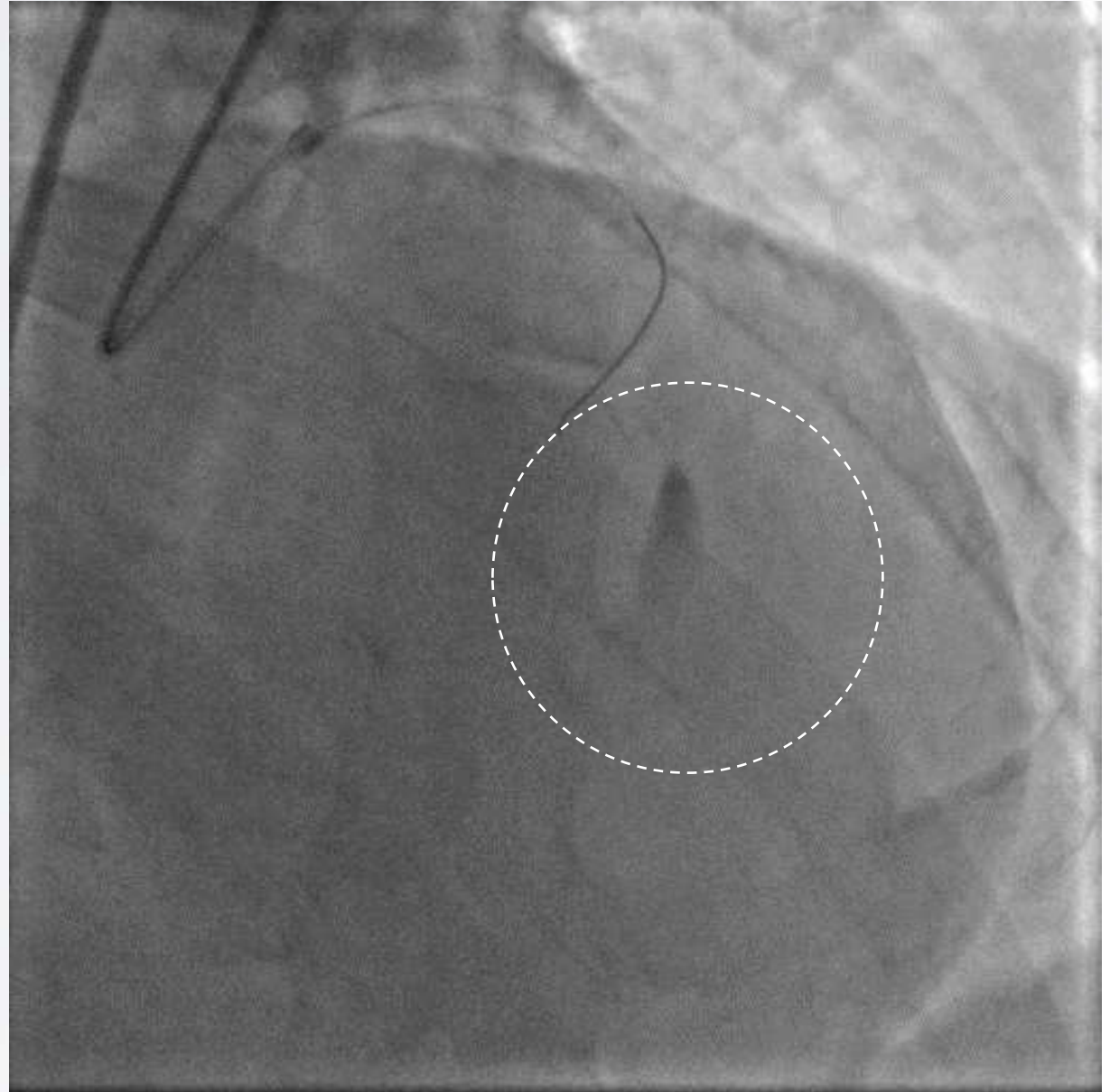
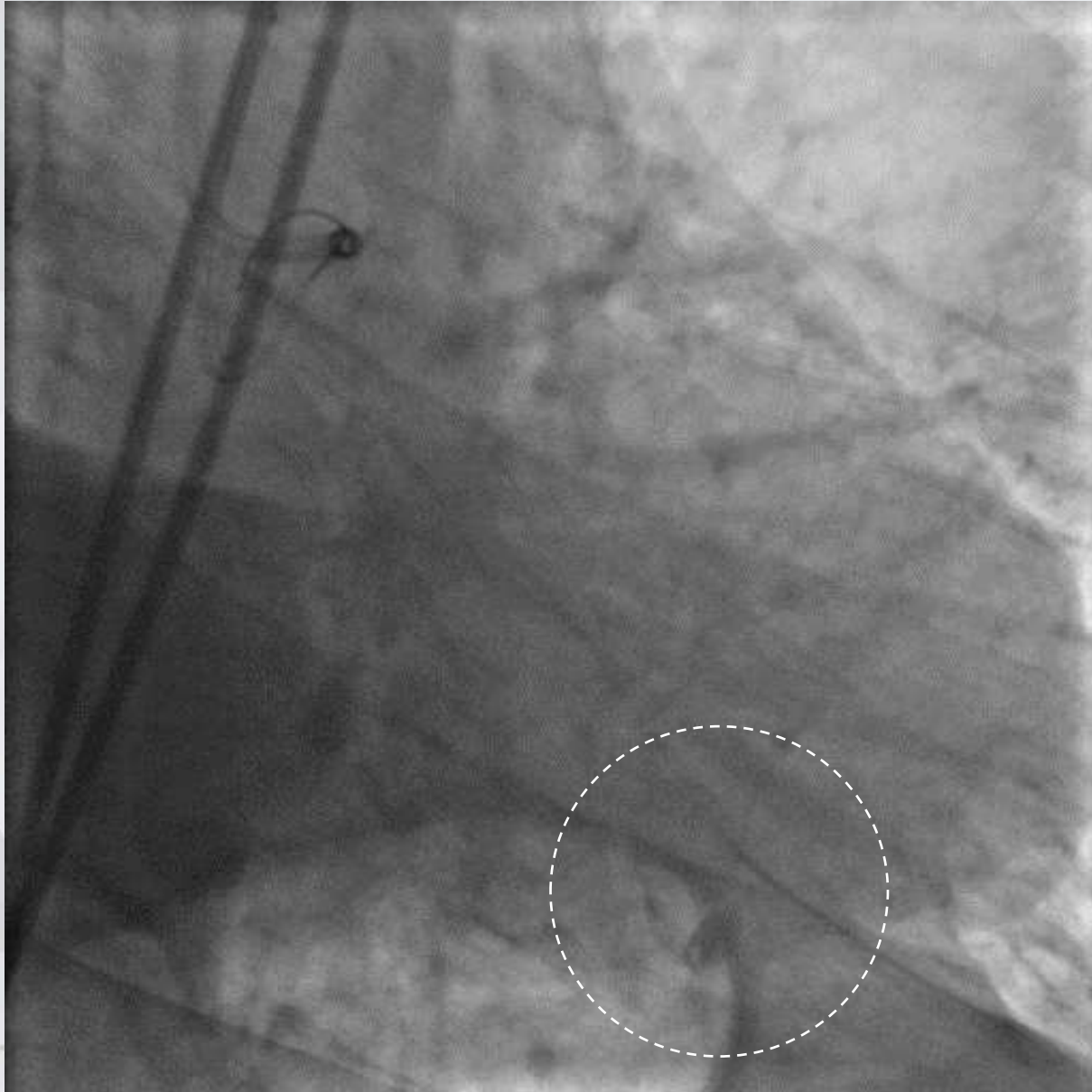


Anchor balloon



Caravel prolapse septal channel

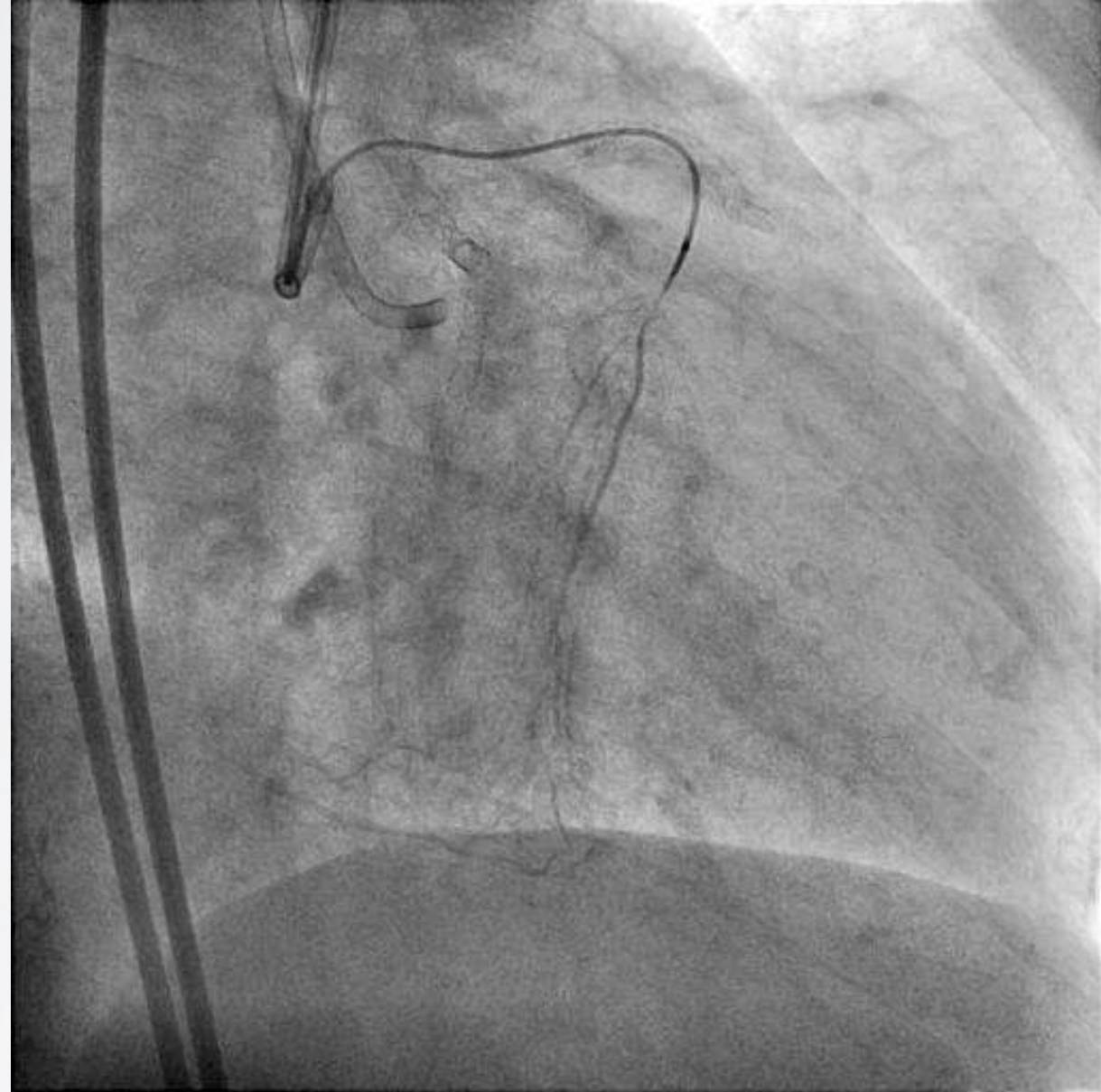
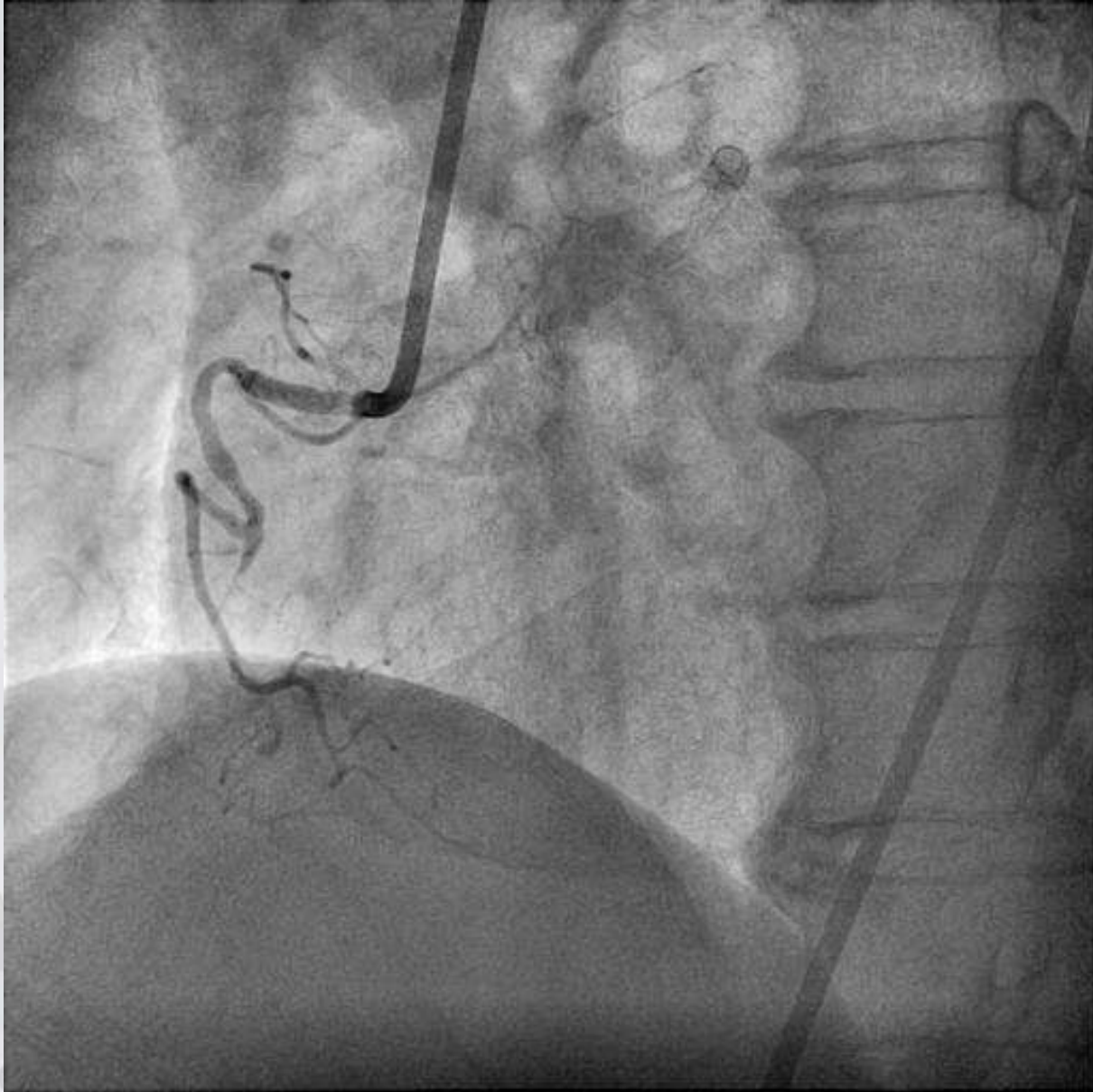
Septal Hematoma

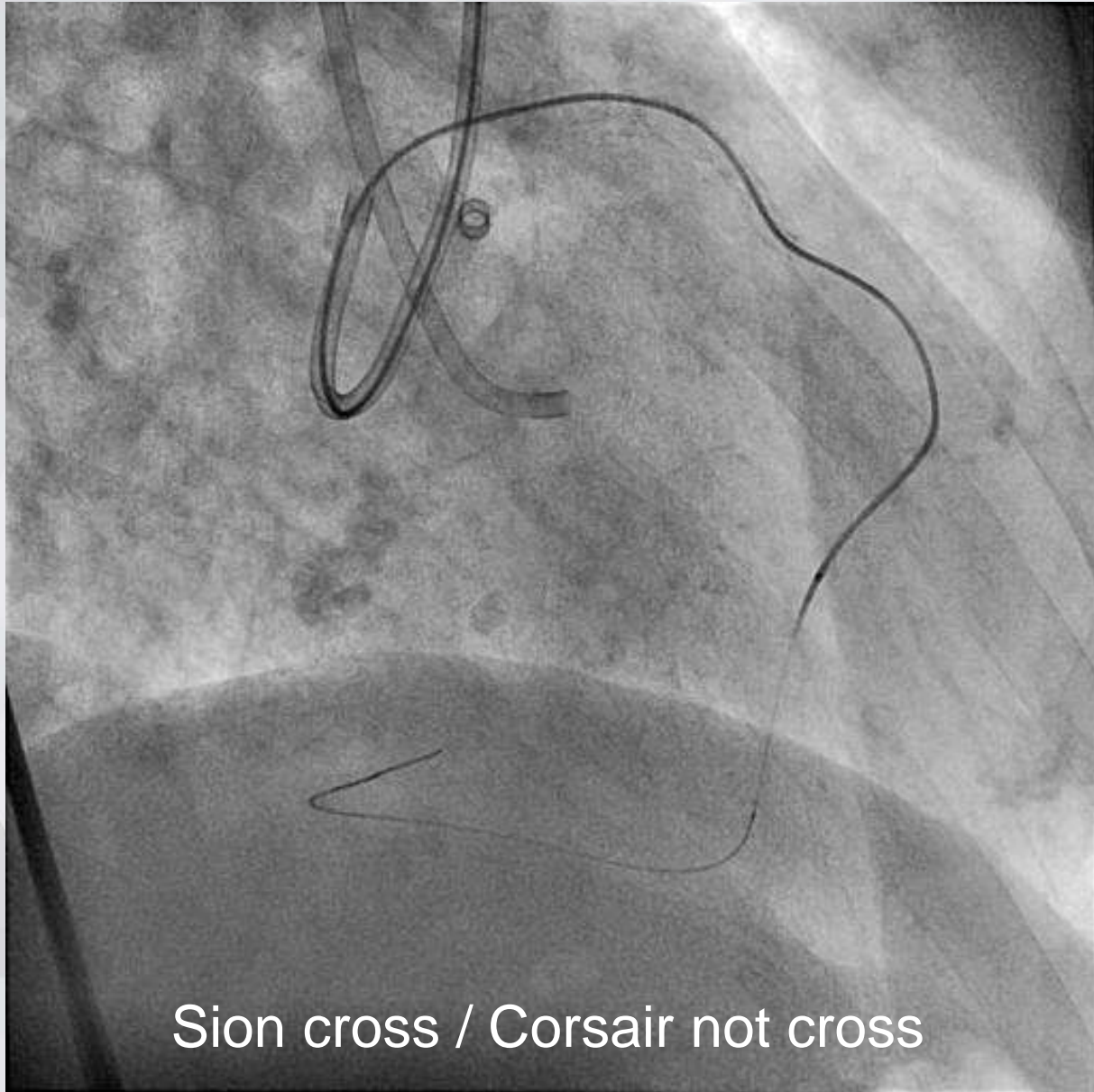


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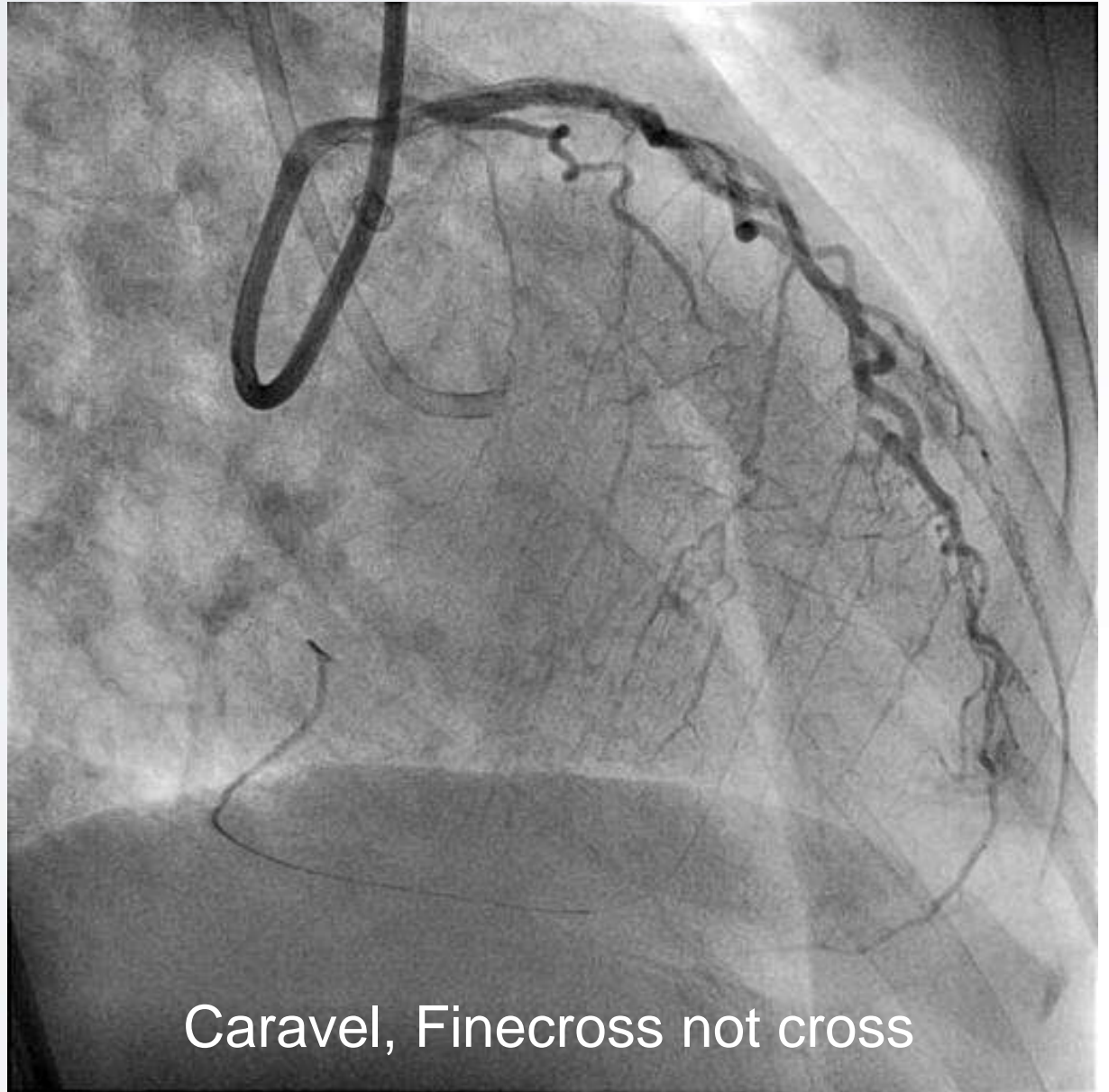
- 1. Change the kinds of microcatheter**
- 2. Make strong back up force**
- 3. Balloon dilatation**

Case; RCA CTO

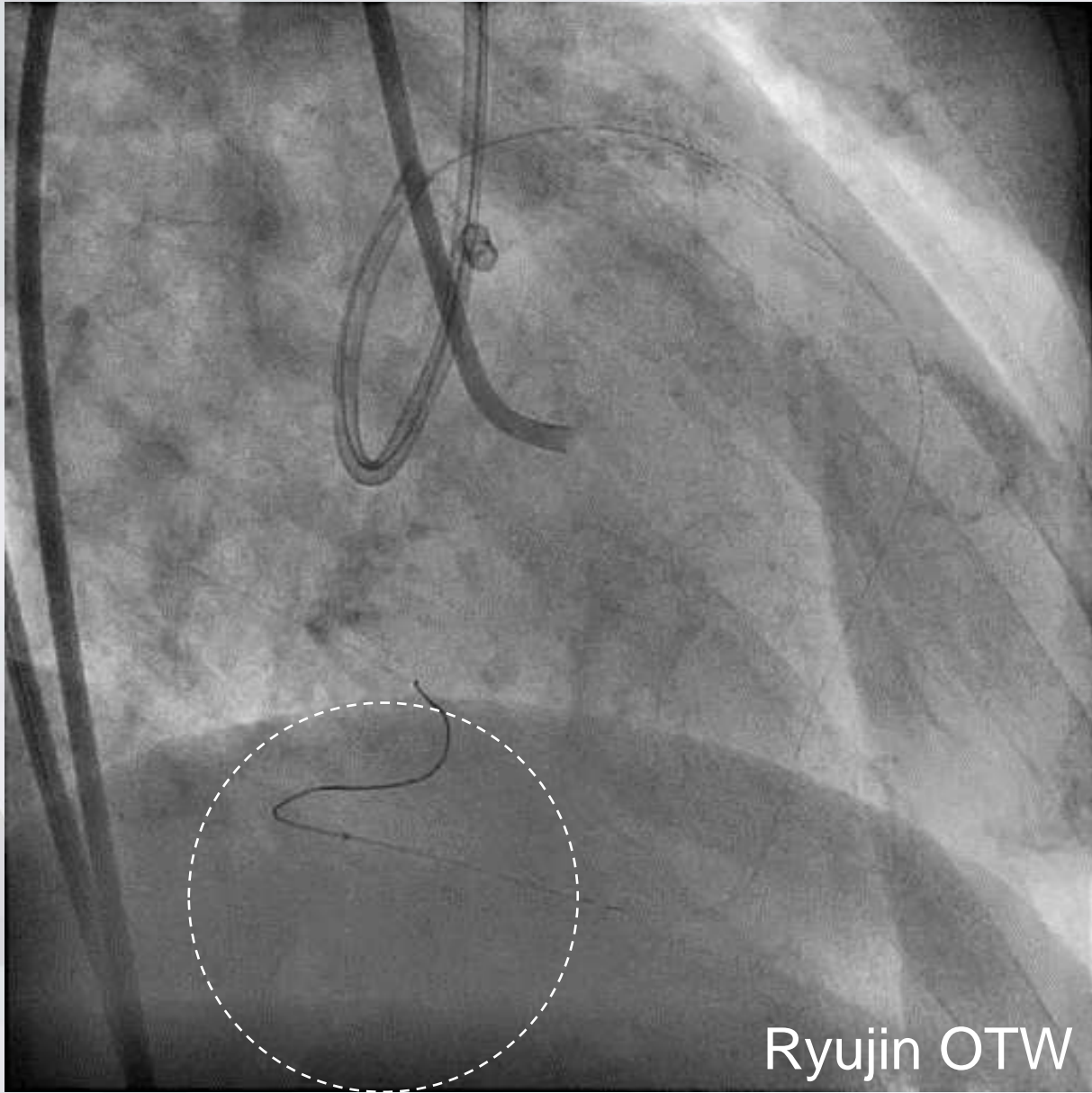




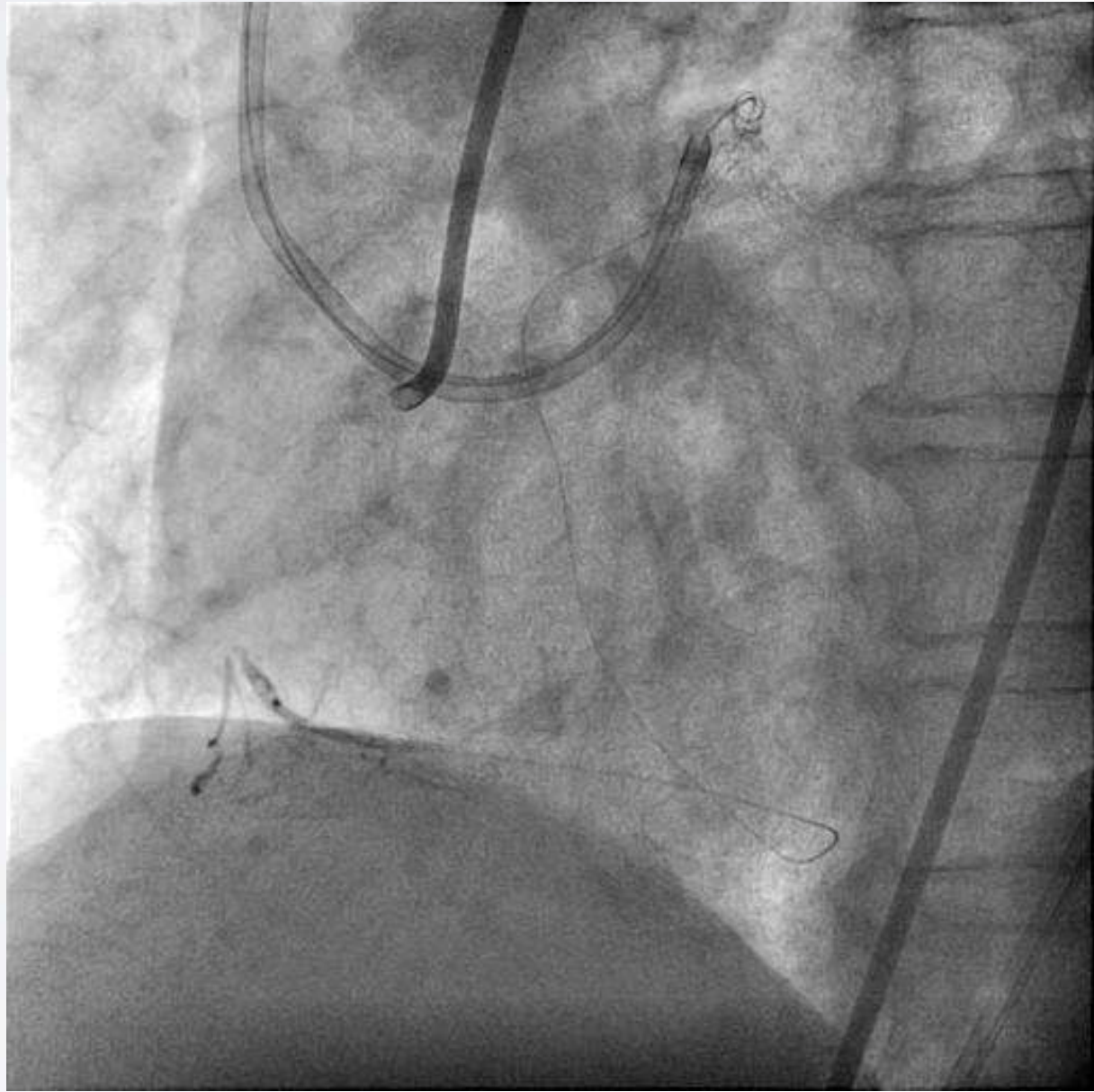
Sion cross / Corsair not cross



Caravel, Finecross not cross



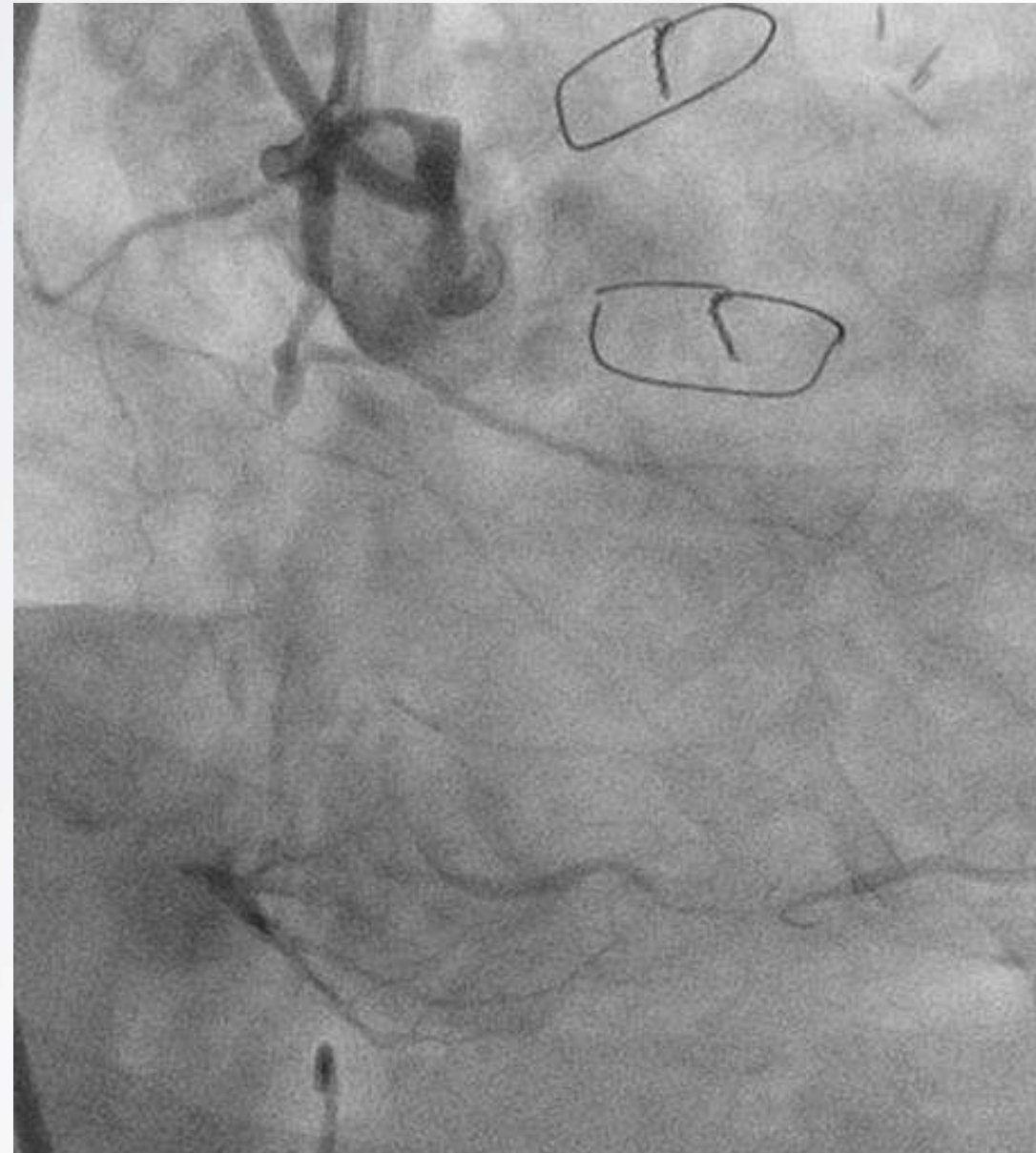
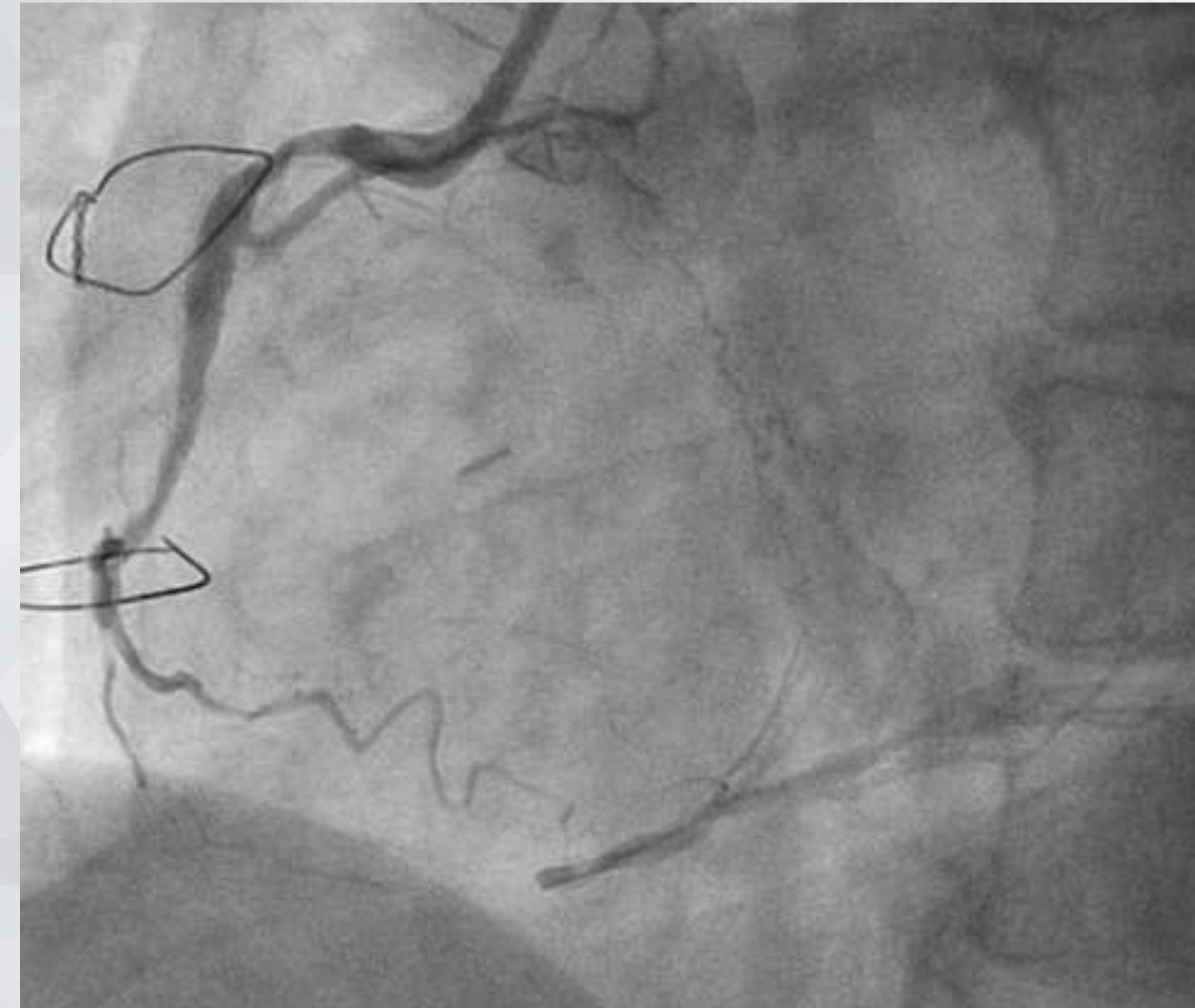
Ryujin OTW

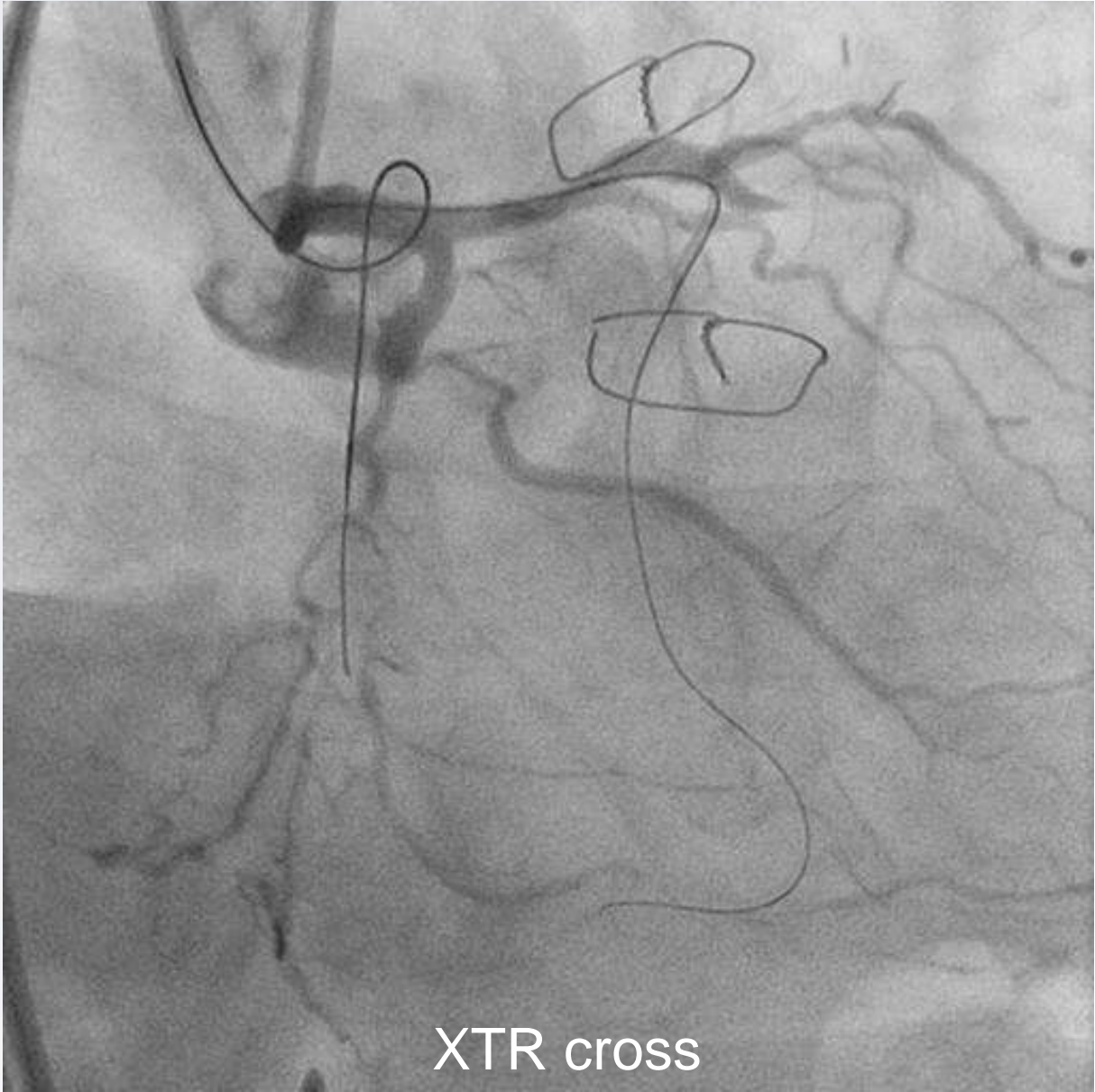
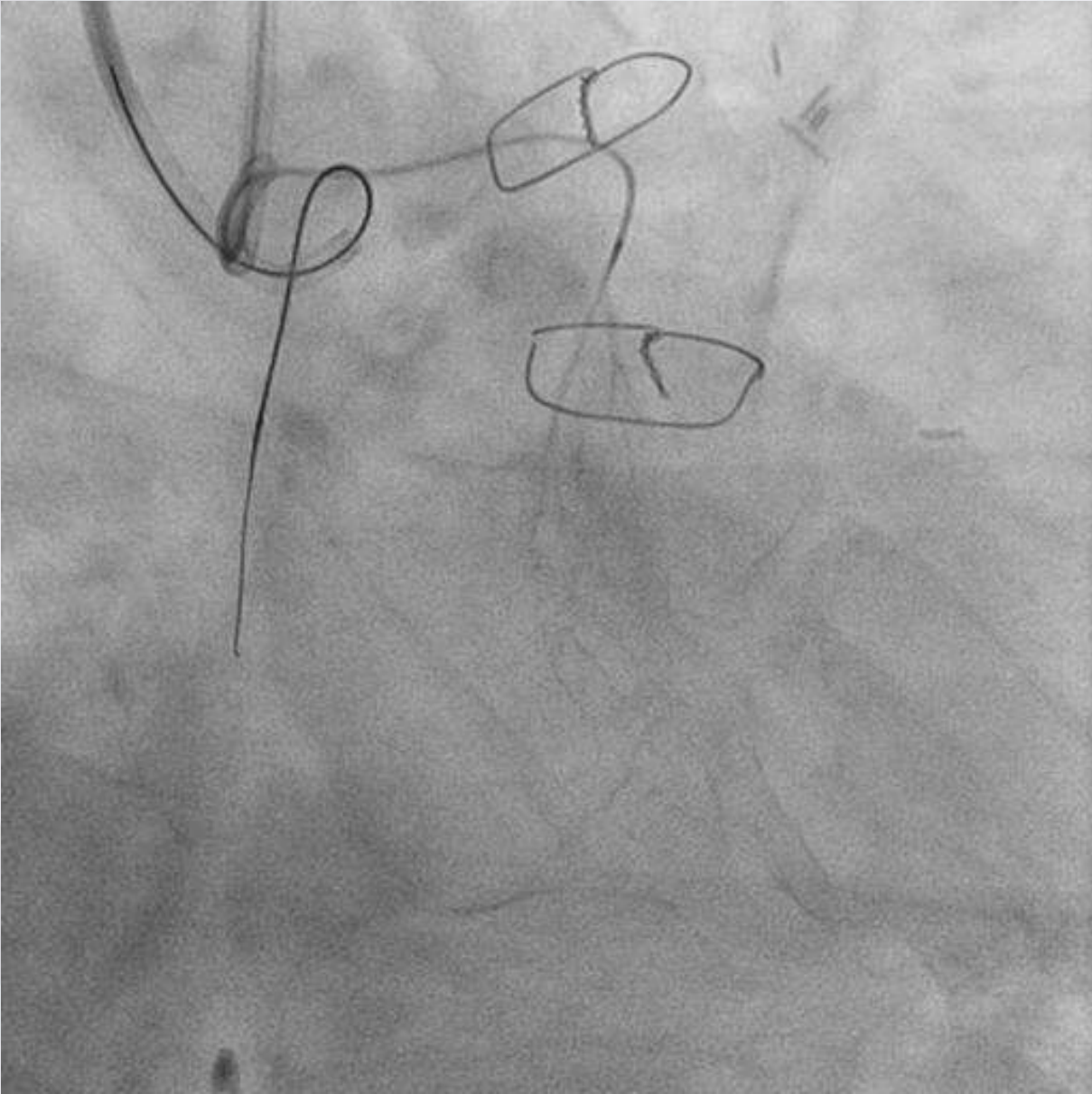


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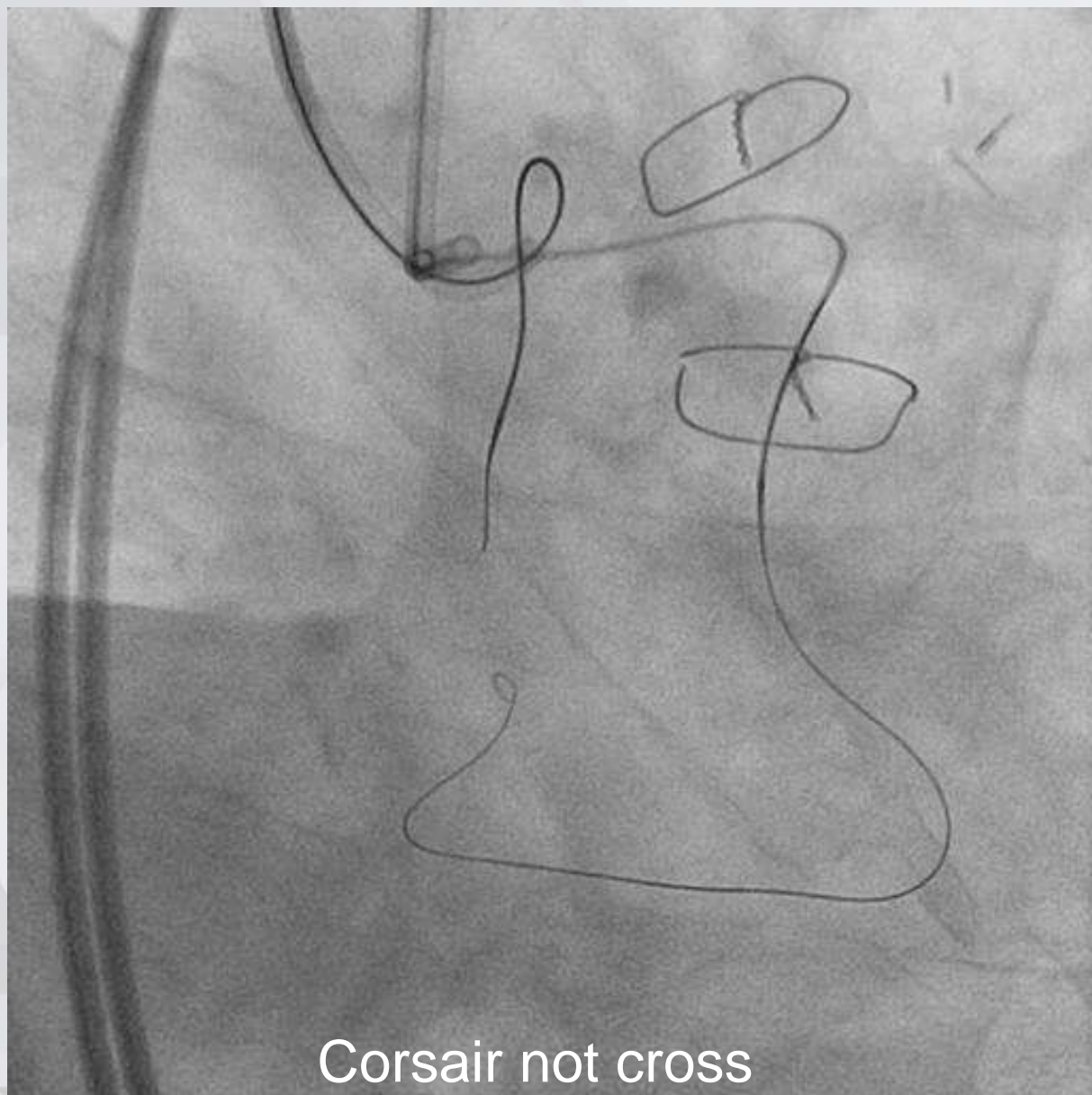
- 1. Change the kinds of microcatheter**
- 2. Make strong back up force**
- 3. Balloon dilatation**
- 4. Change the channel**

Case; RCA CTO

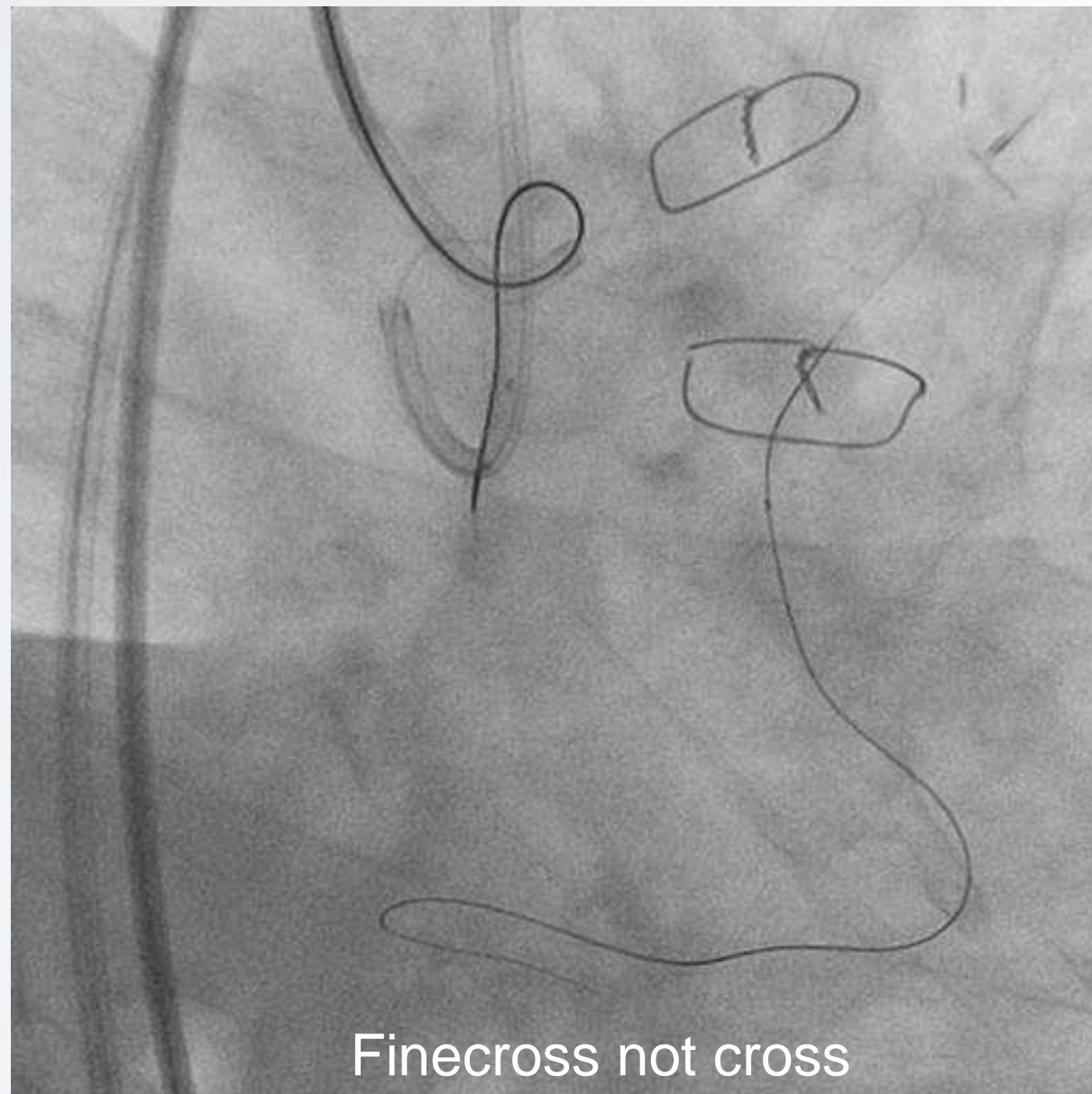




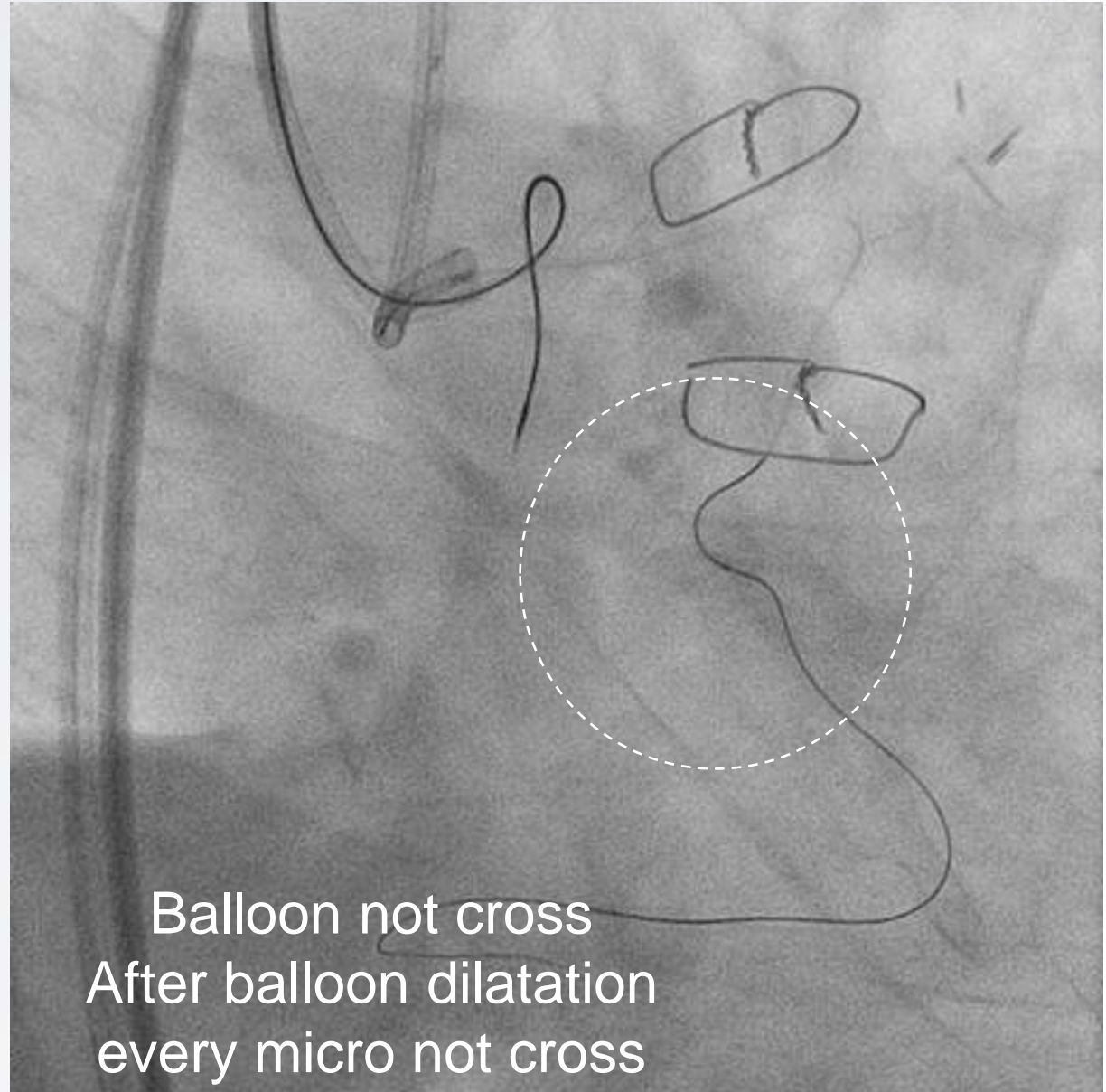
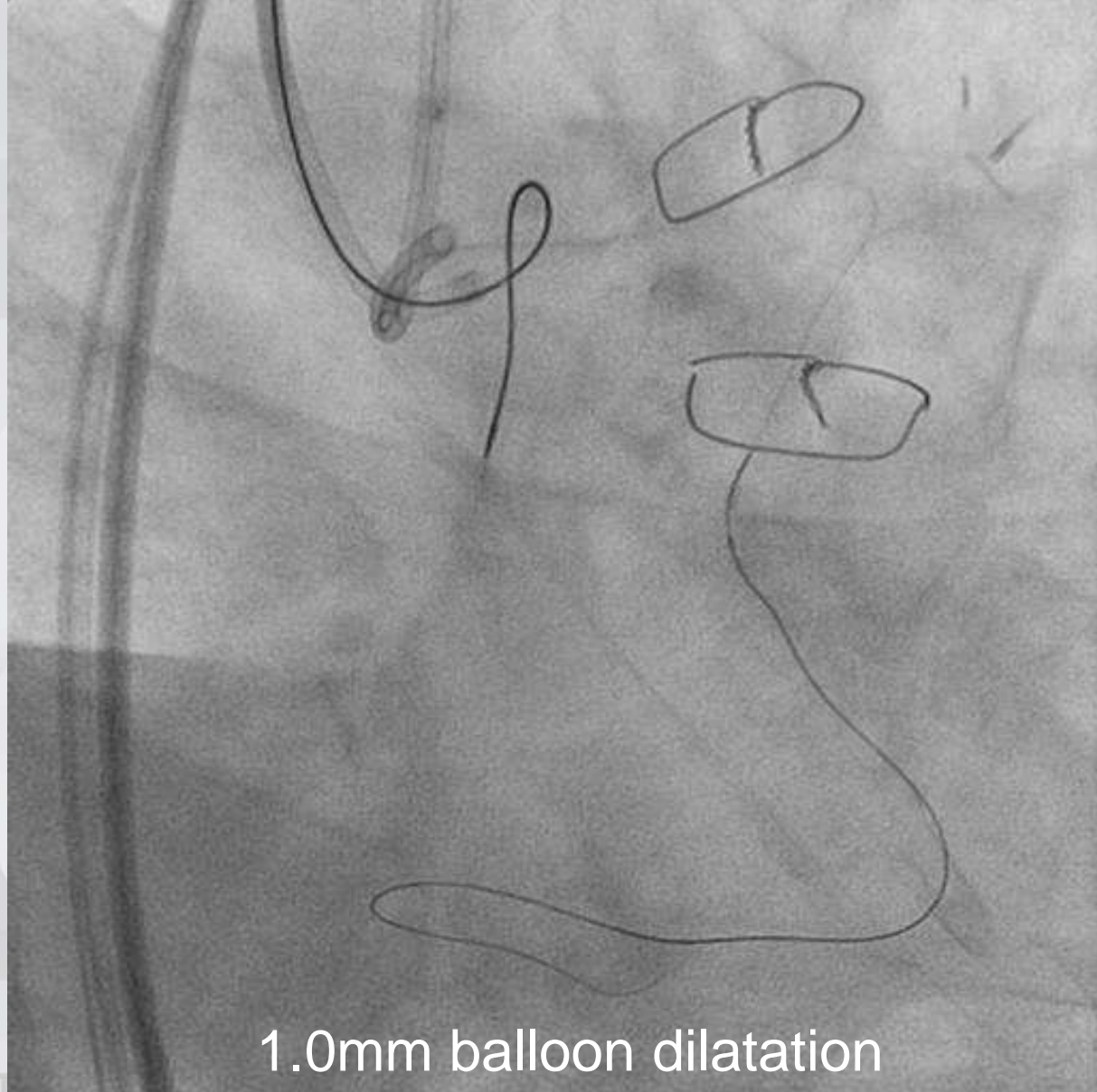
XTR cross

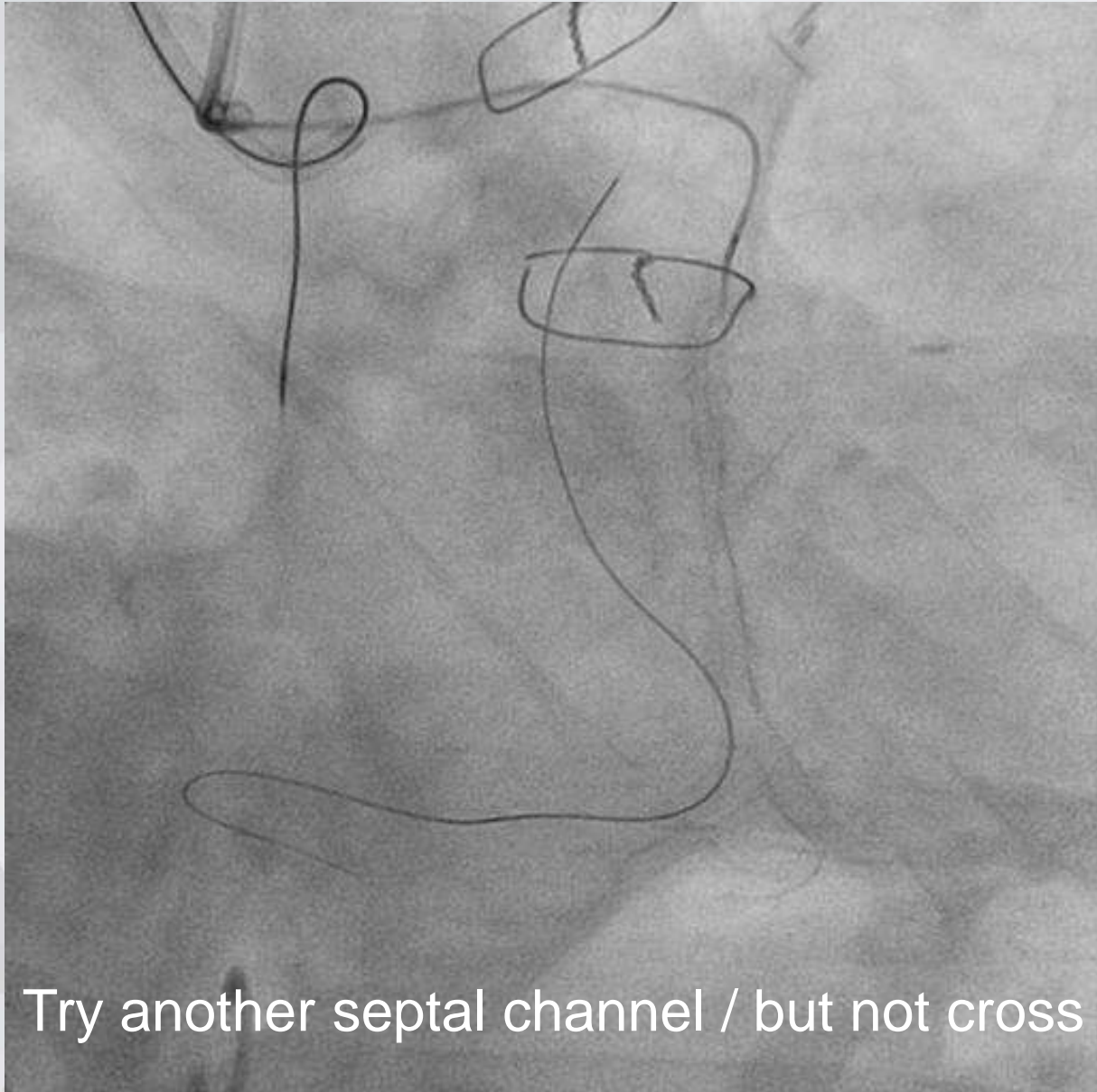


Corsair not cross

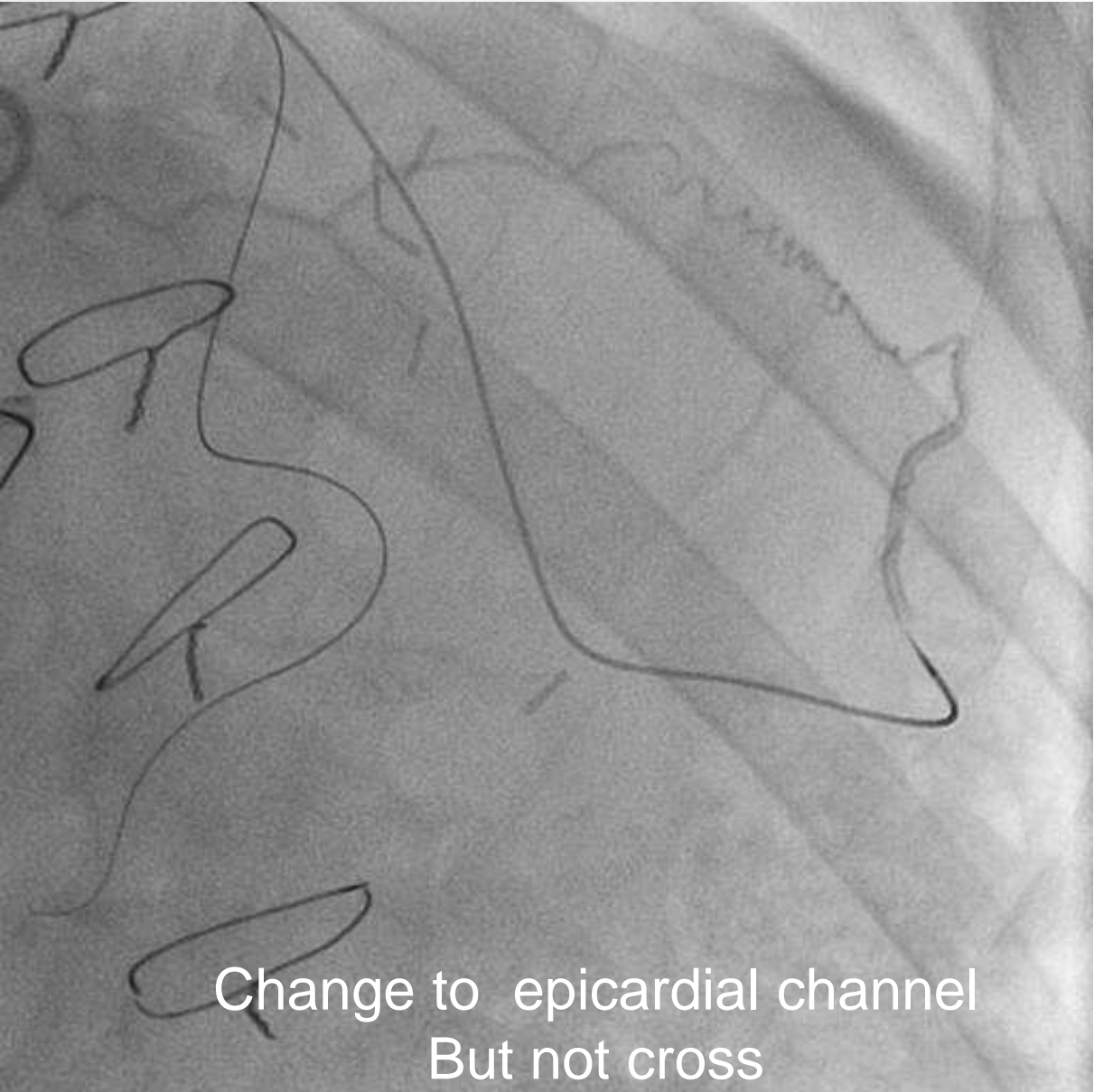


Finecross not cross

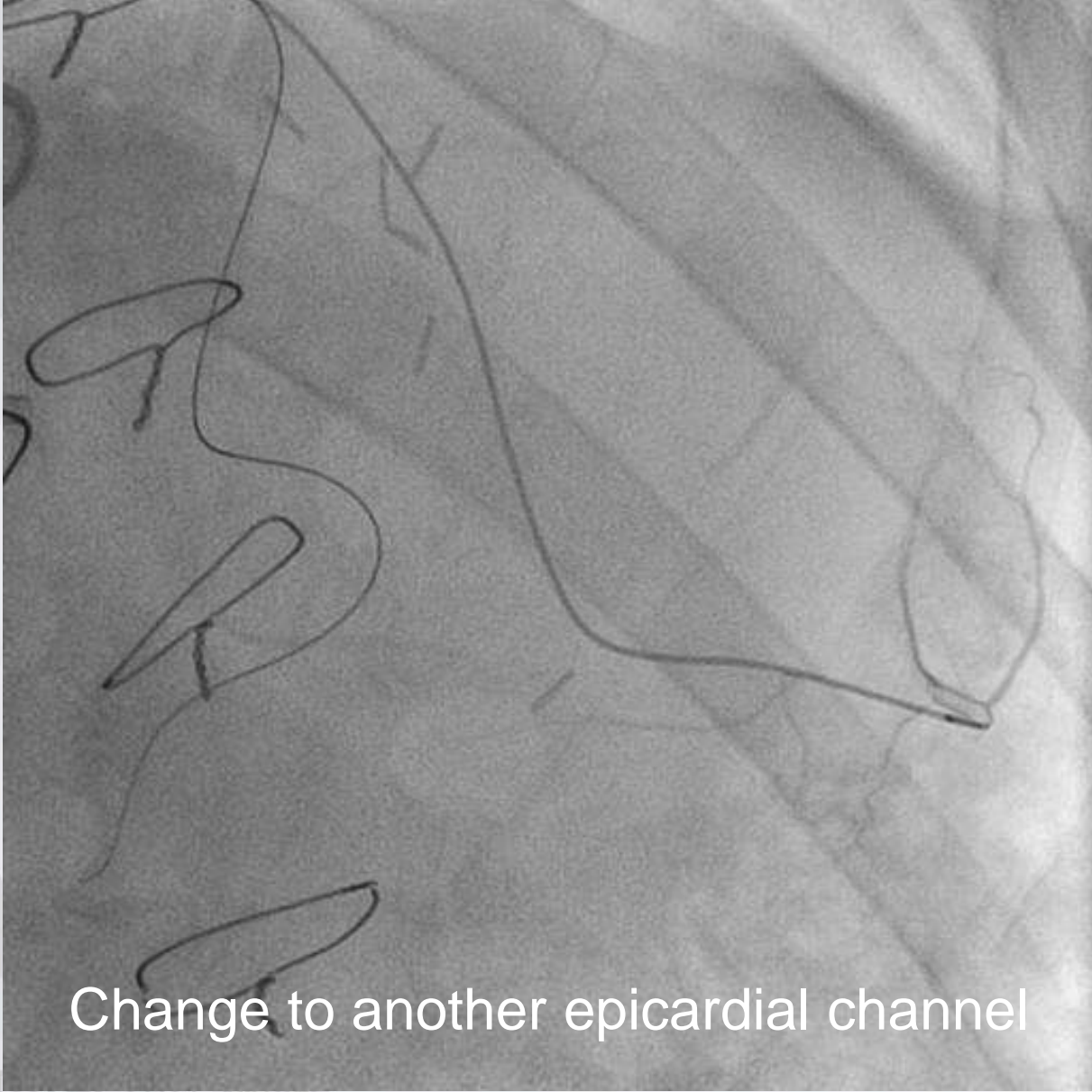




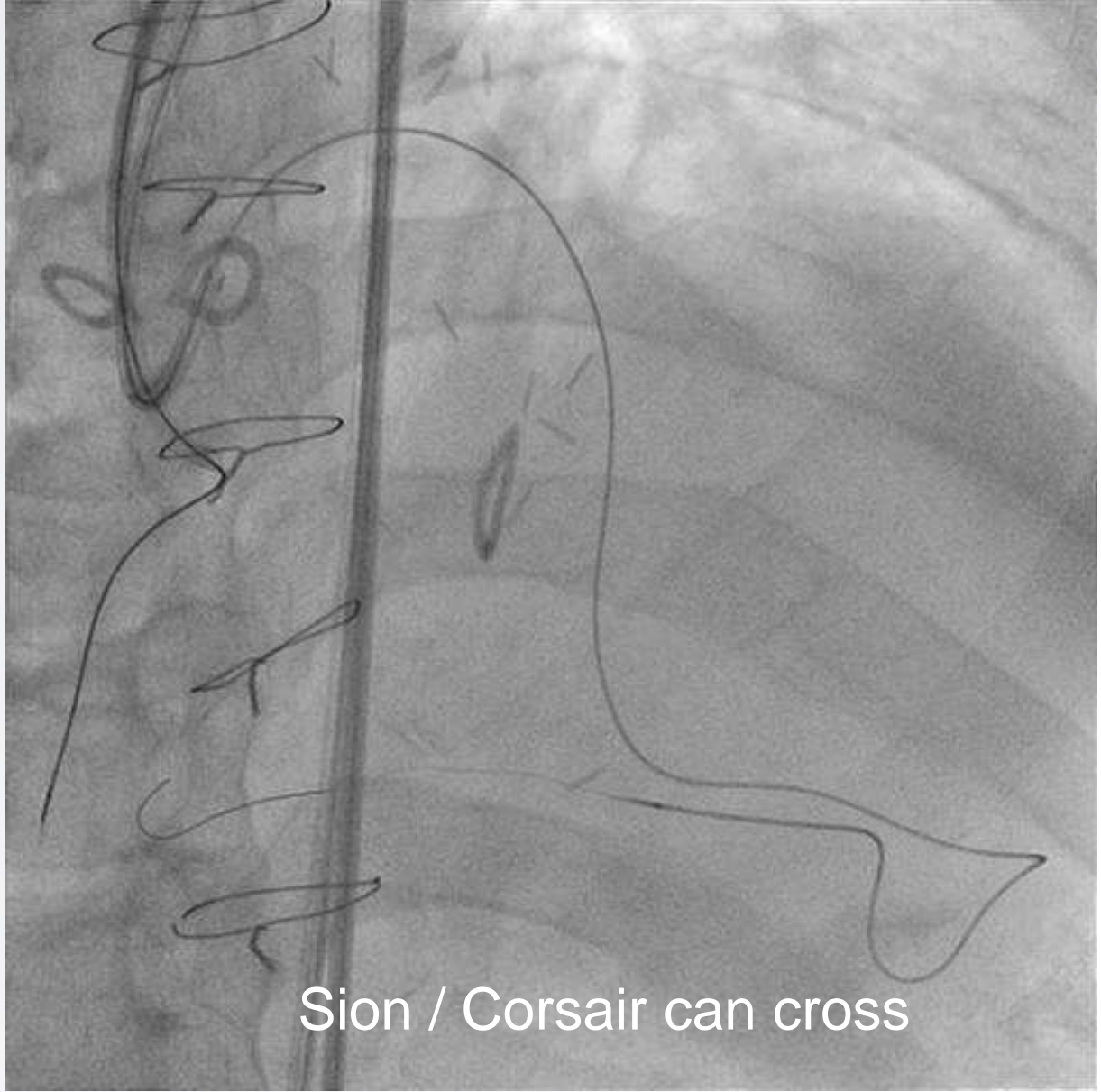
Try another septal channel / but not cross



Change to epicardial channel
But not cross



Change to another epicardial channel

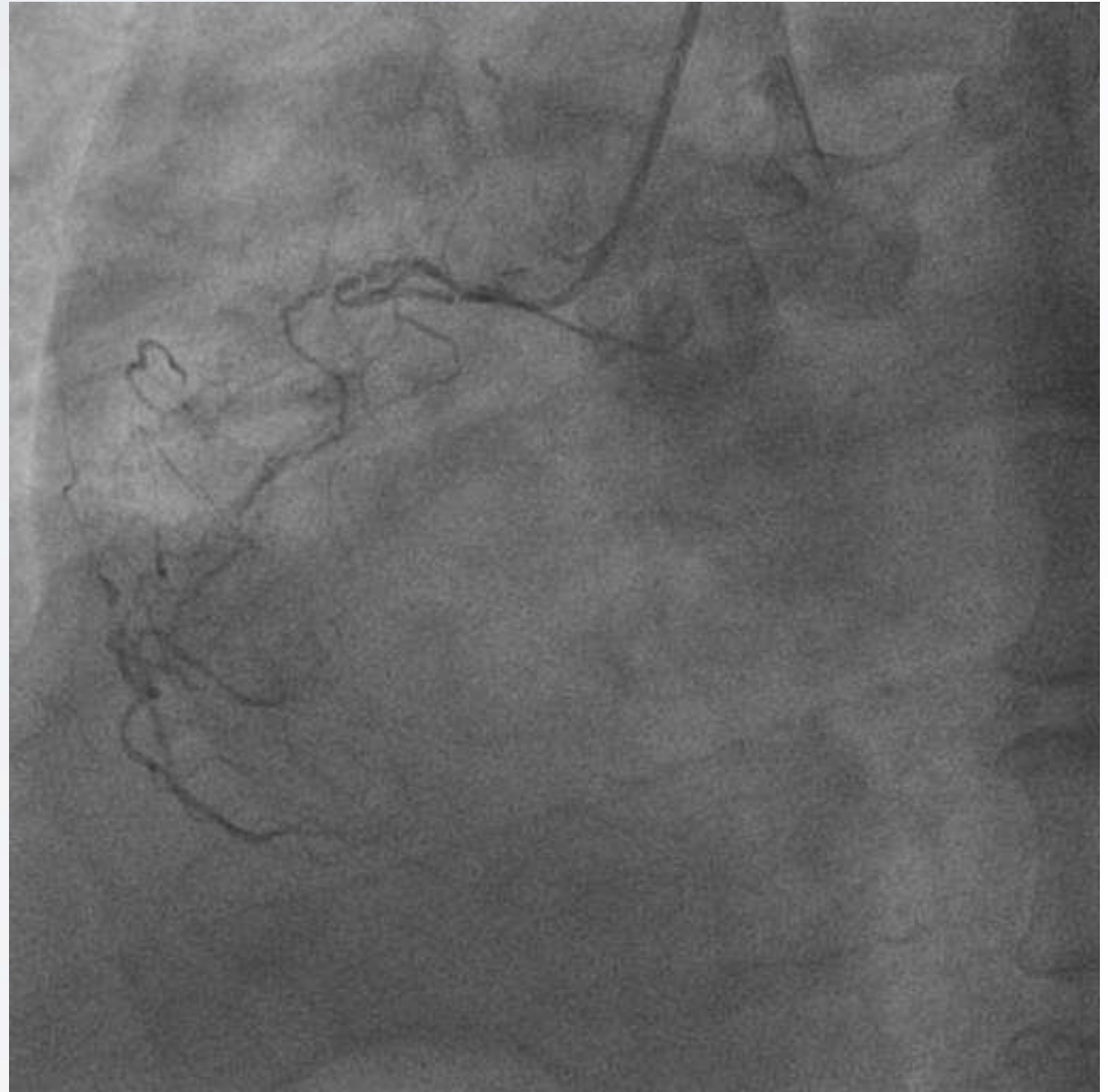
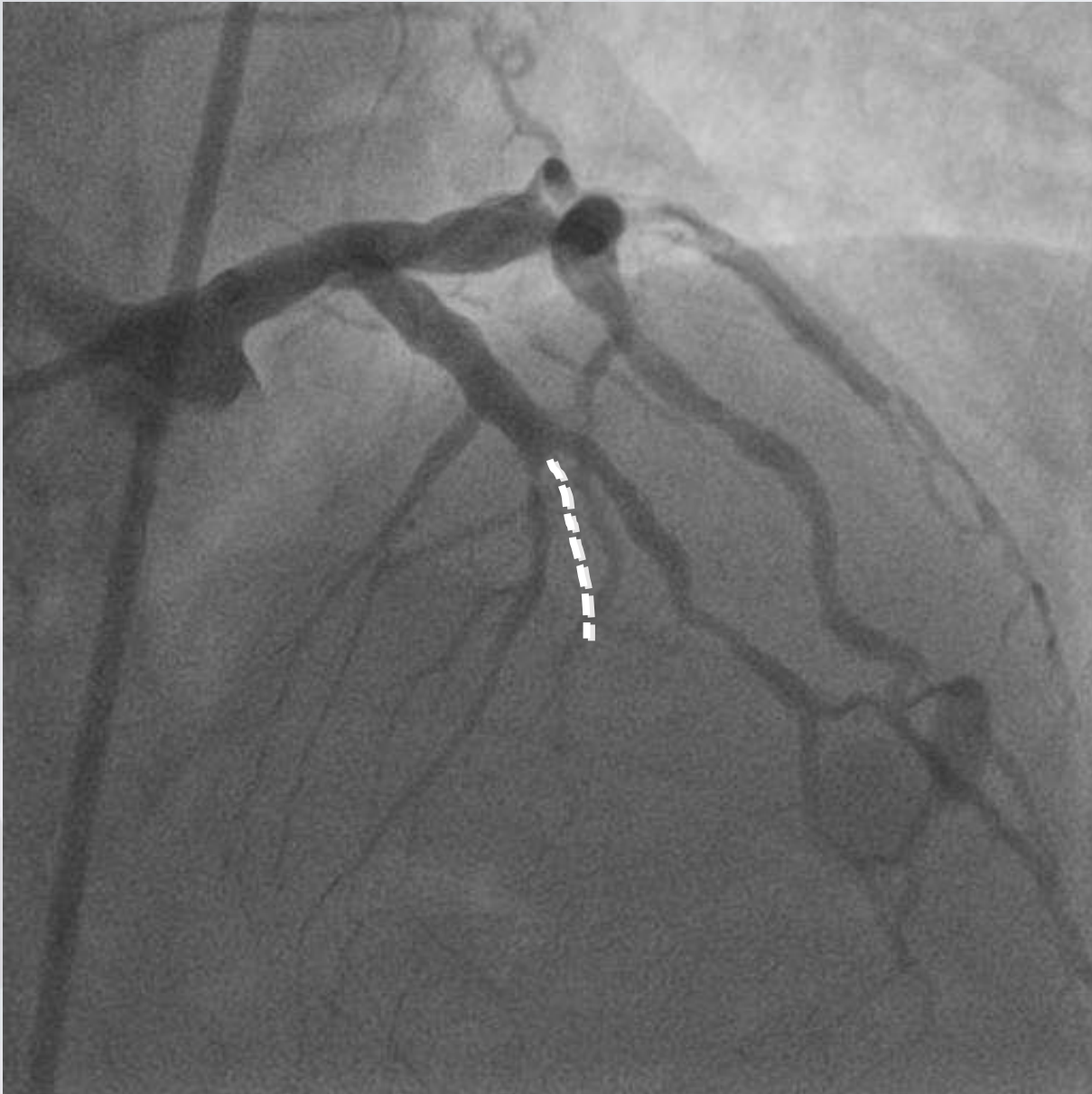


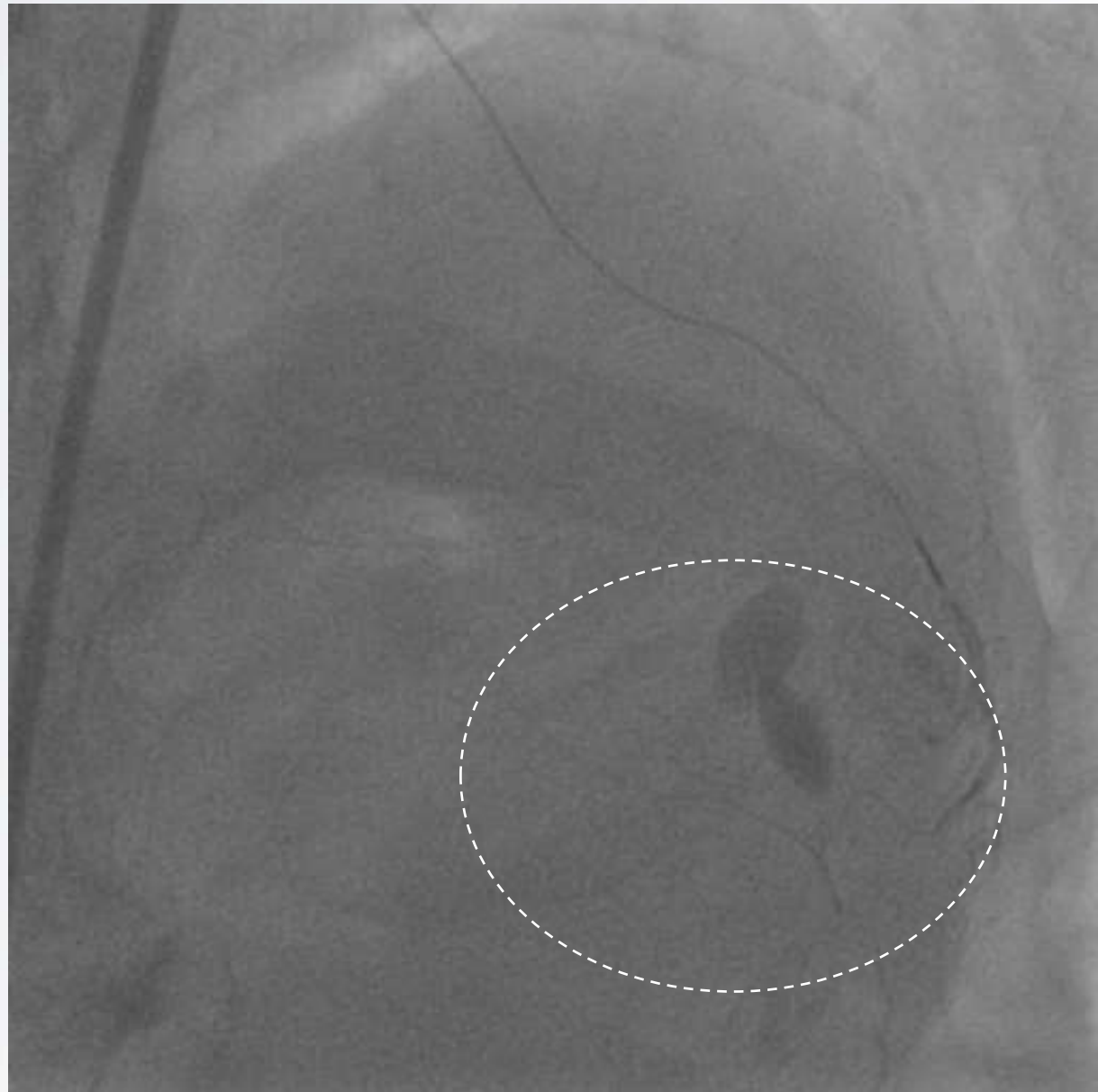
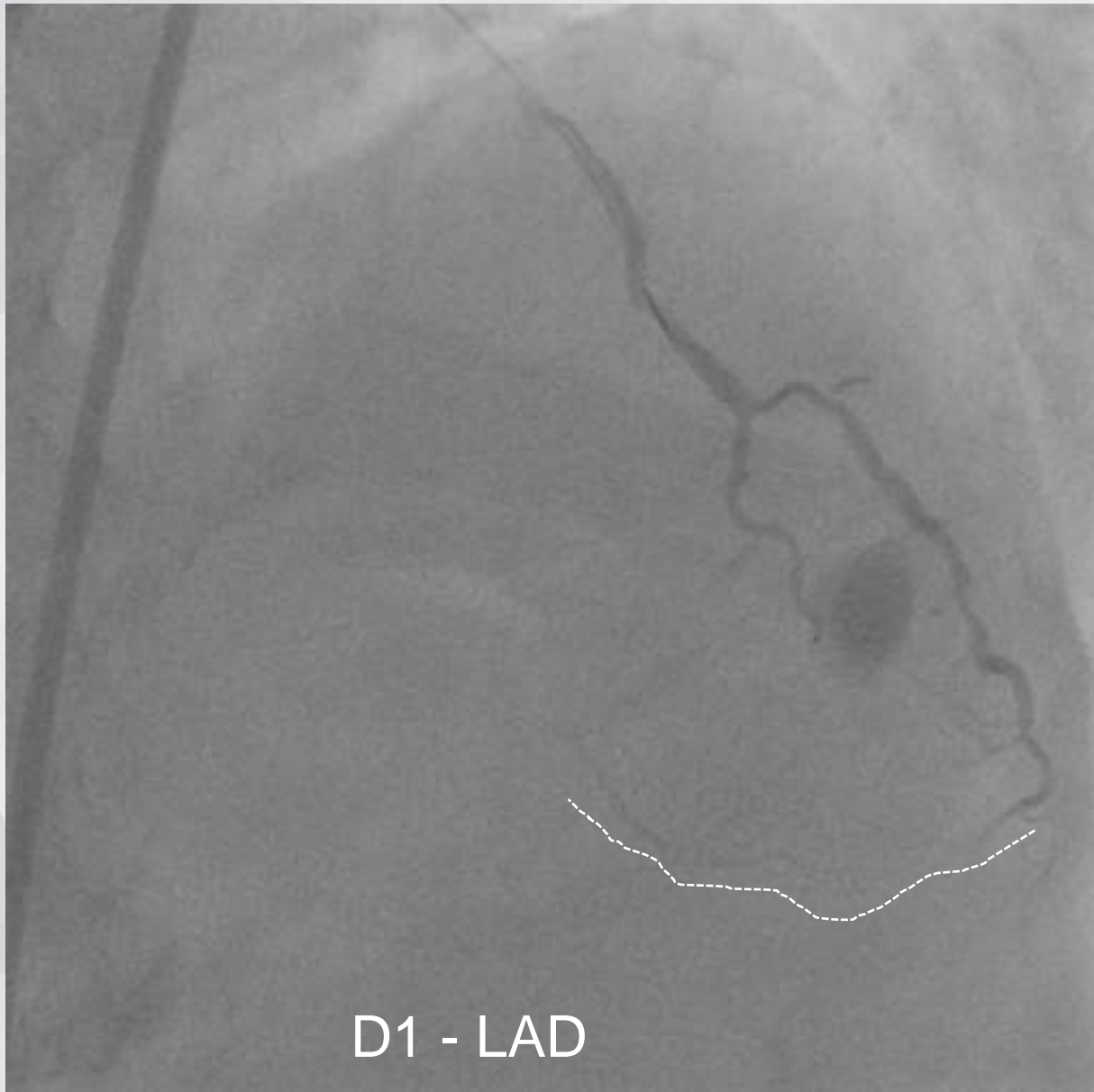
Sion / Corsair can cross

What If the Microcatheter Cannot Cross the Channel?

- 1. Change the kinds of microcatheter**
- 2. Make strong back up force**
- 3. Balloon dilatation**
- 4. Change the channel**
- 5. Kissing wire**

Case; LAD CTO



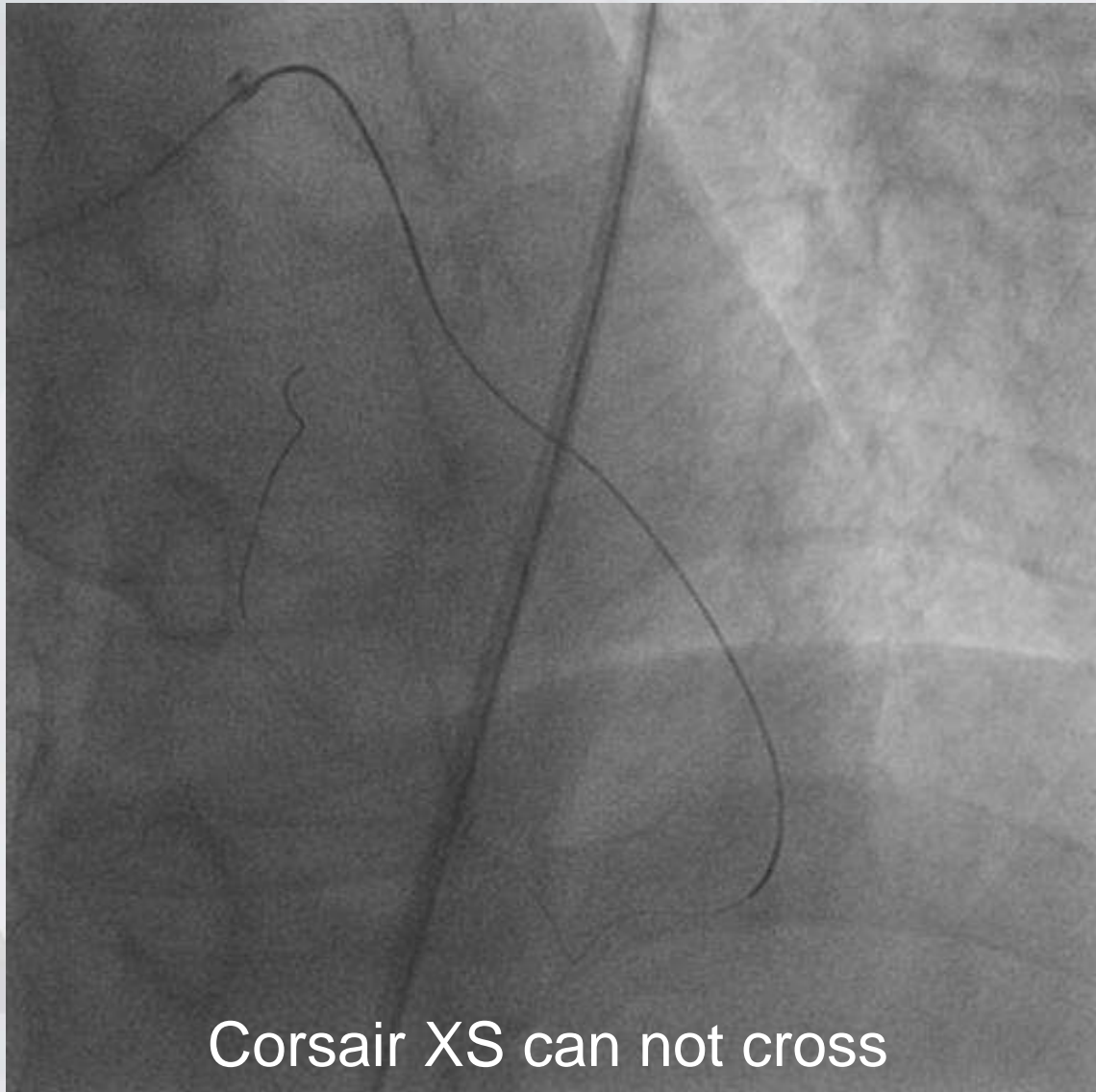




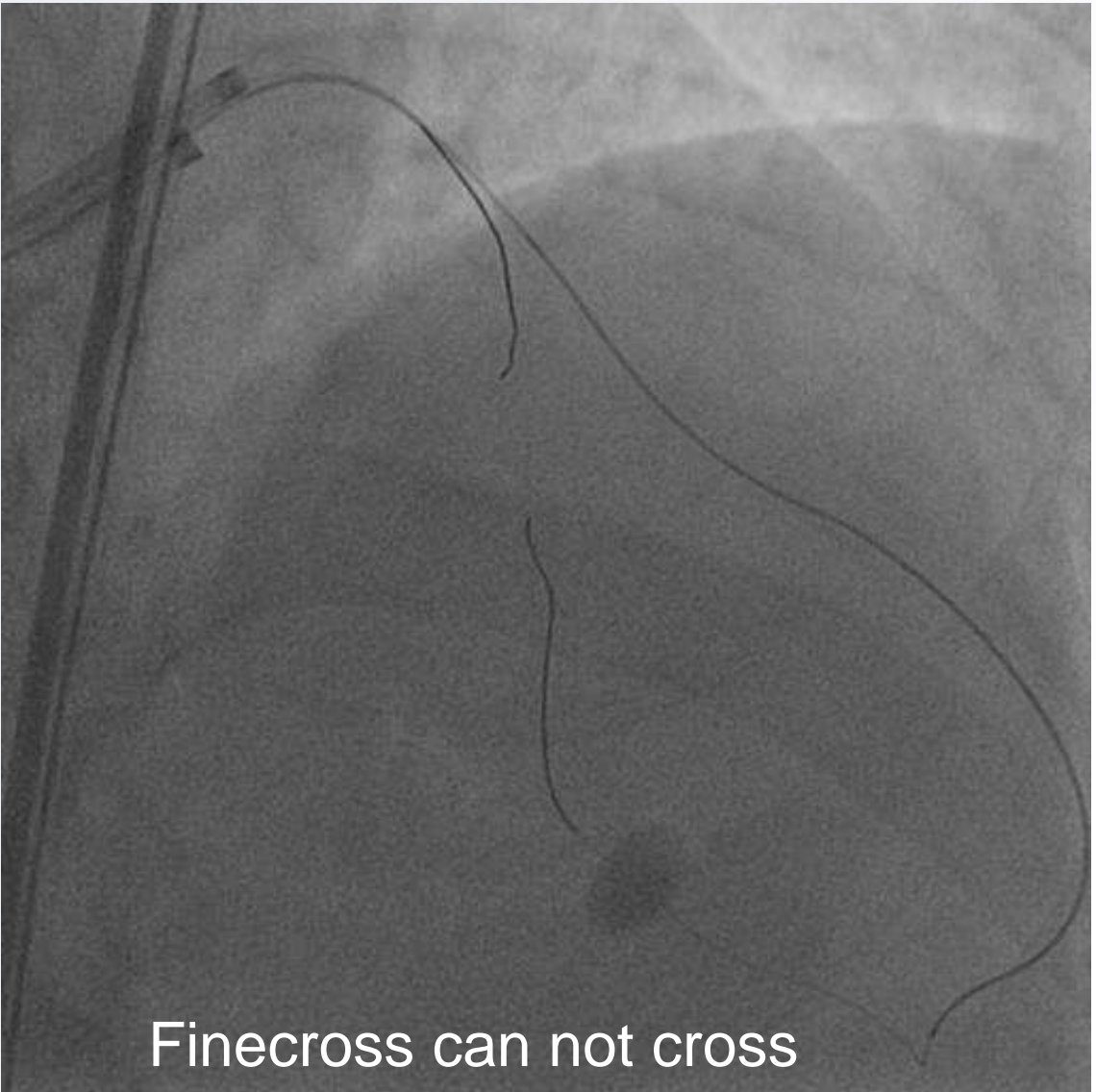
Suou03 can cross



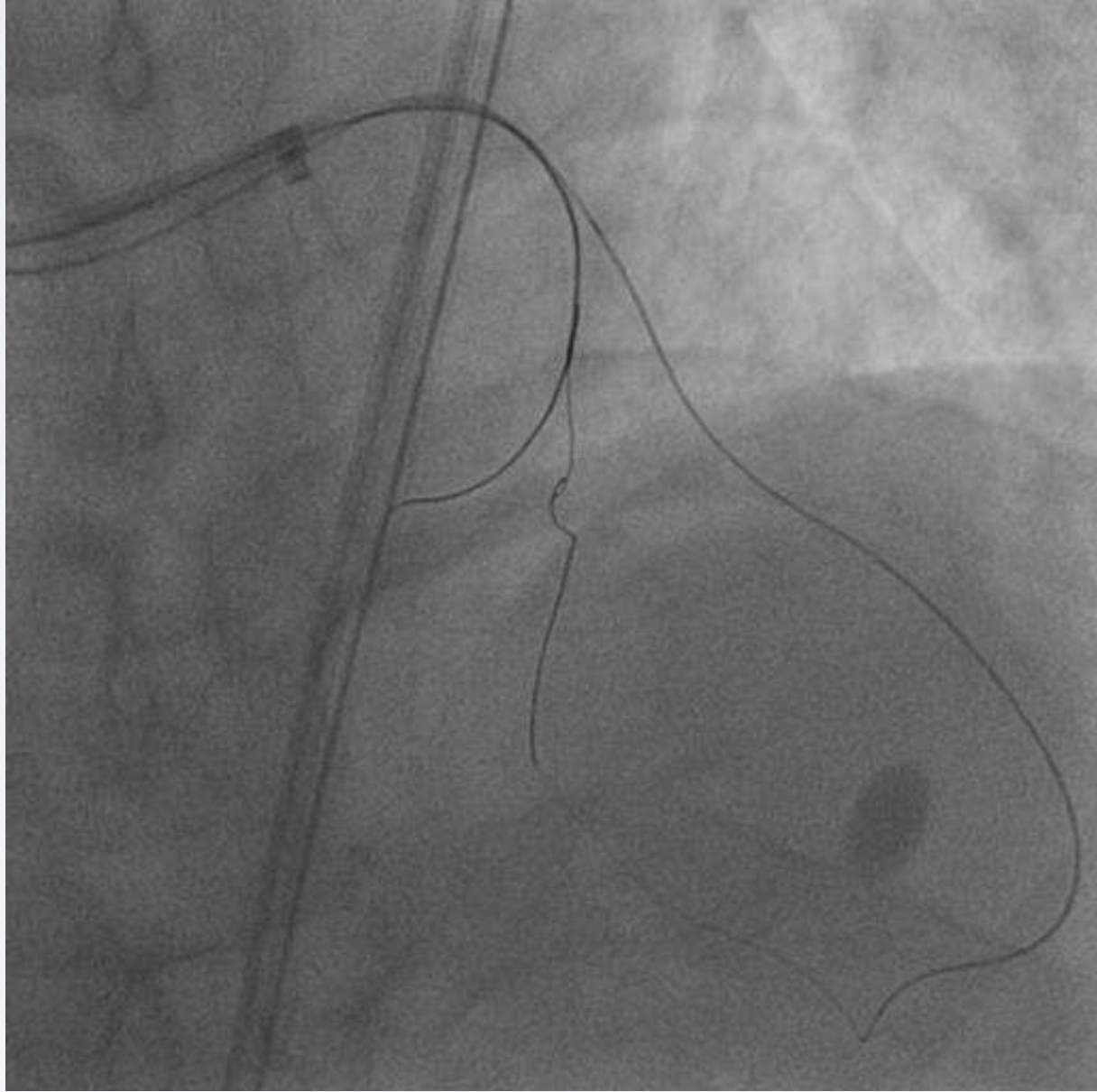
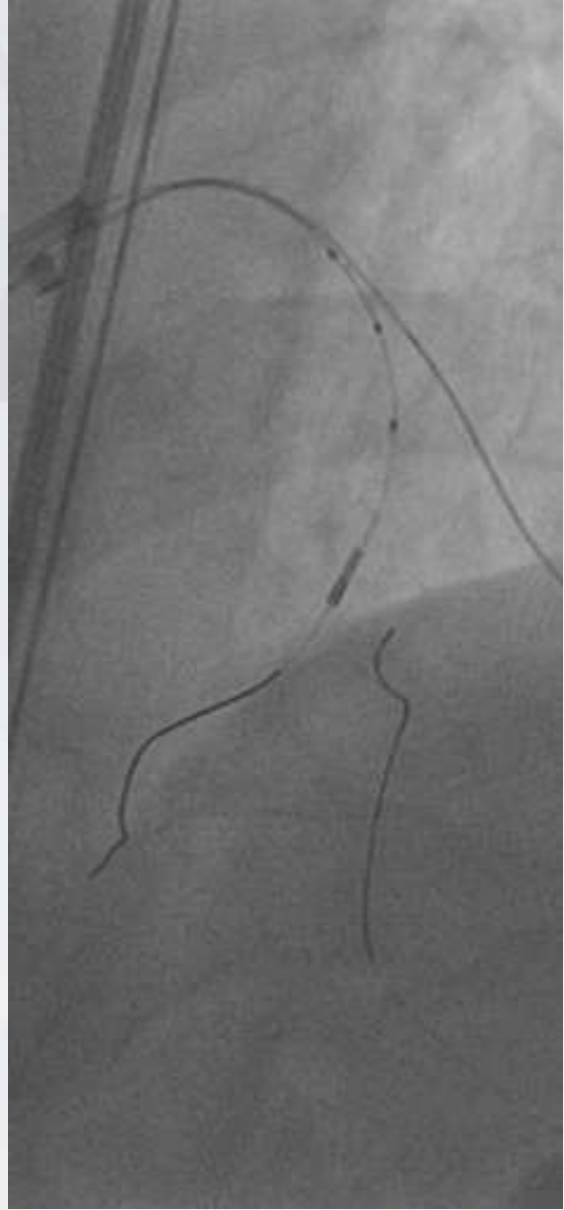
Caravel can not cross



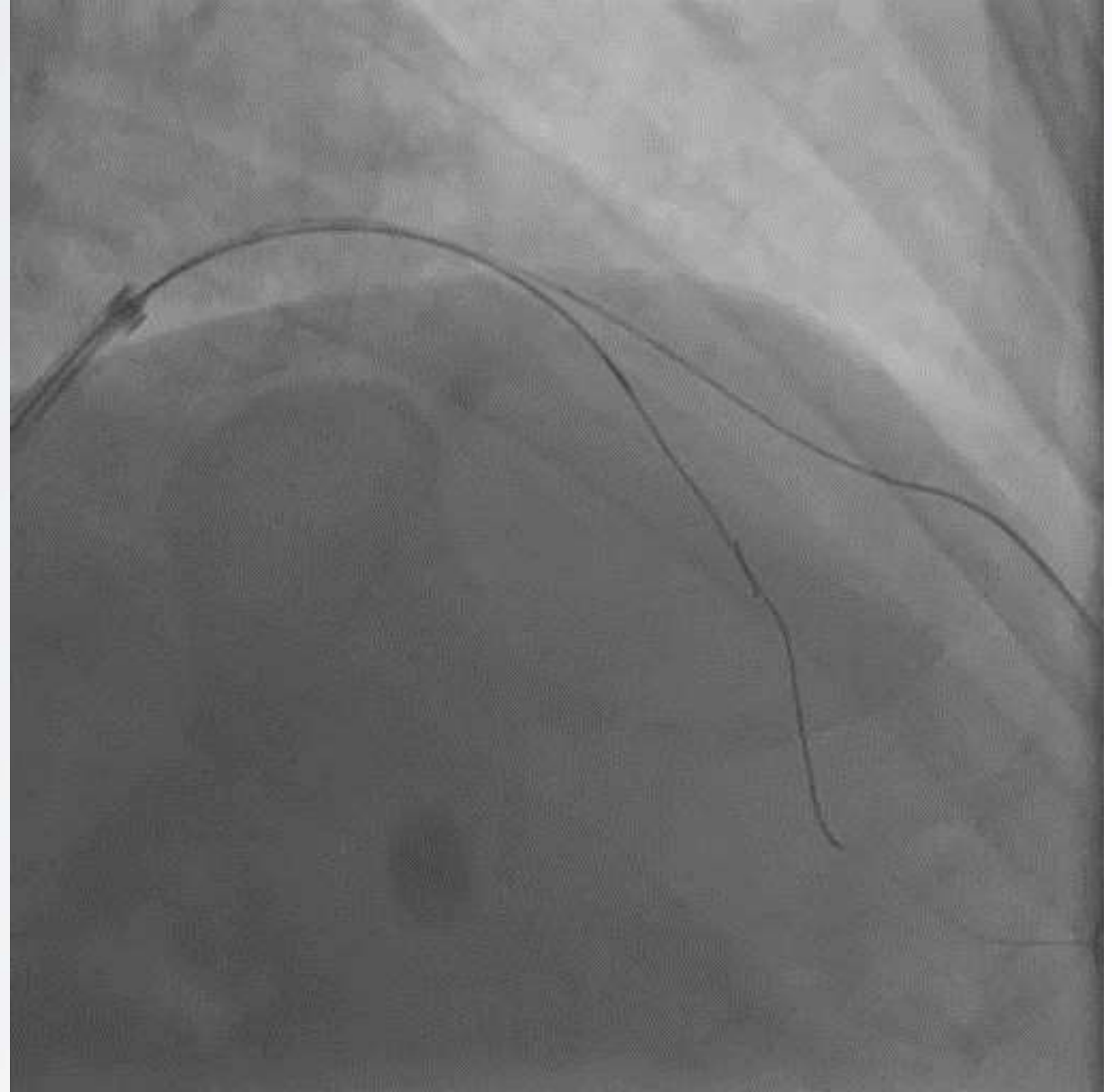
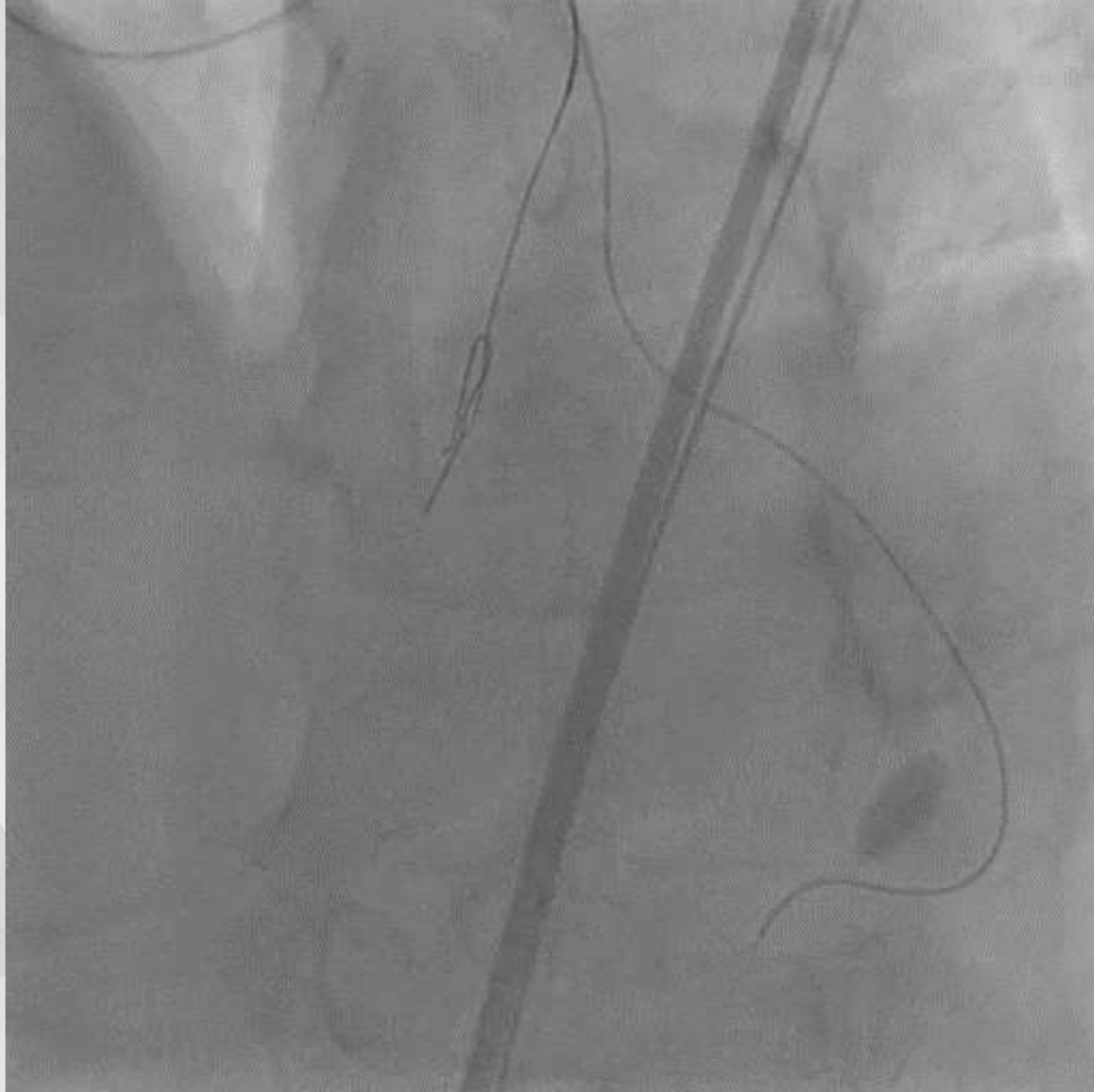
Corsair XS can not cross

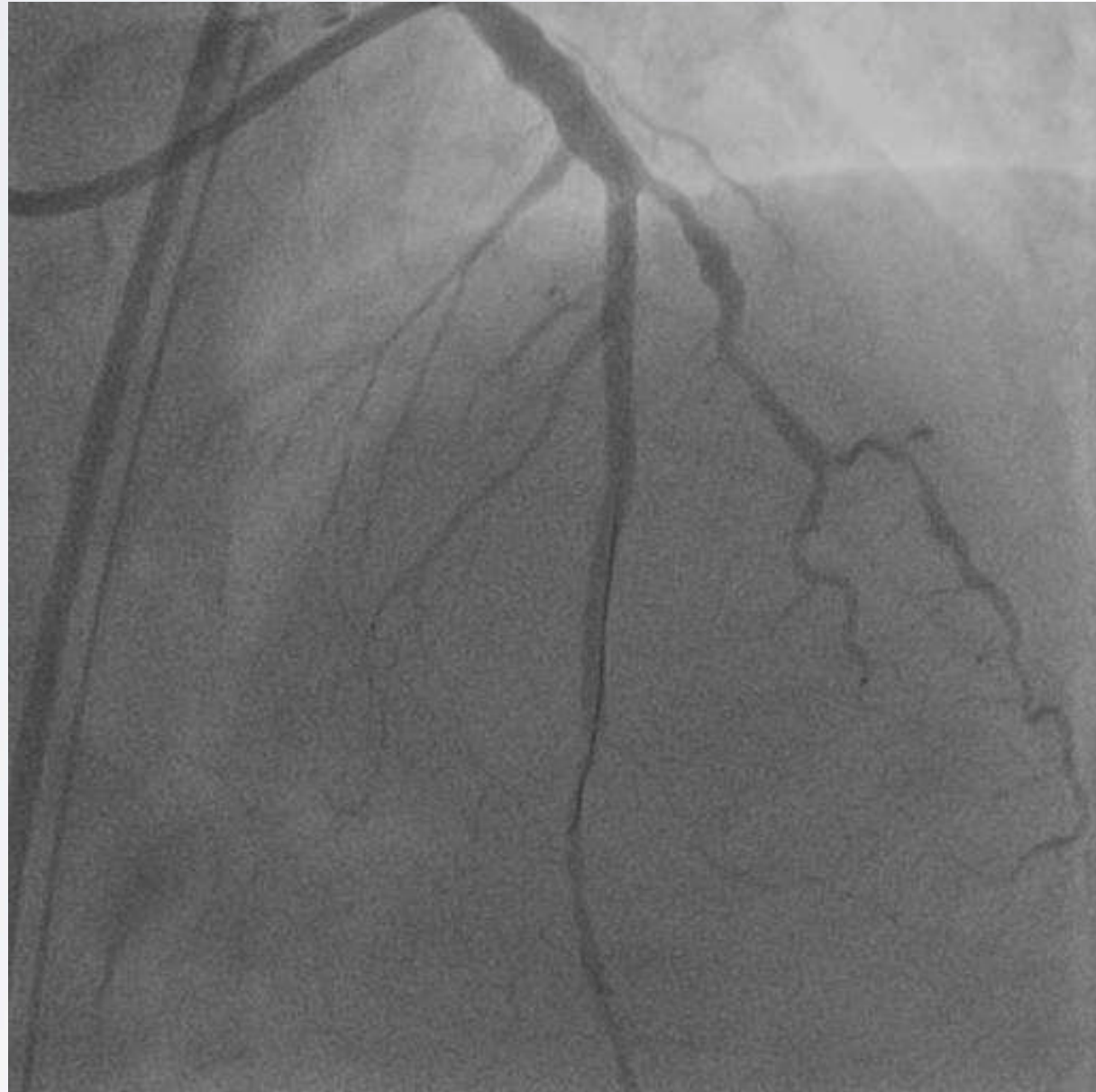


Finecross can not cross



Kissing wire





Conclusion / Take-home Message

What If the Microcatheter Cannot Cross the Channel?

- 1. Change the kinds of microcatheter**
- 2. Make strong back up force**
- 3. Balloon dilatation**
- 4. Change the channel**
- 5. Kissing wire**