

Ik Jun Choi

Cardiovascular center, Incheon St. Mary's Hospital
The Catholic University of Korea



CHIP

Left main bifurcation

Heavy calcified lesion

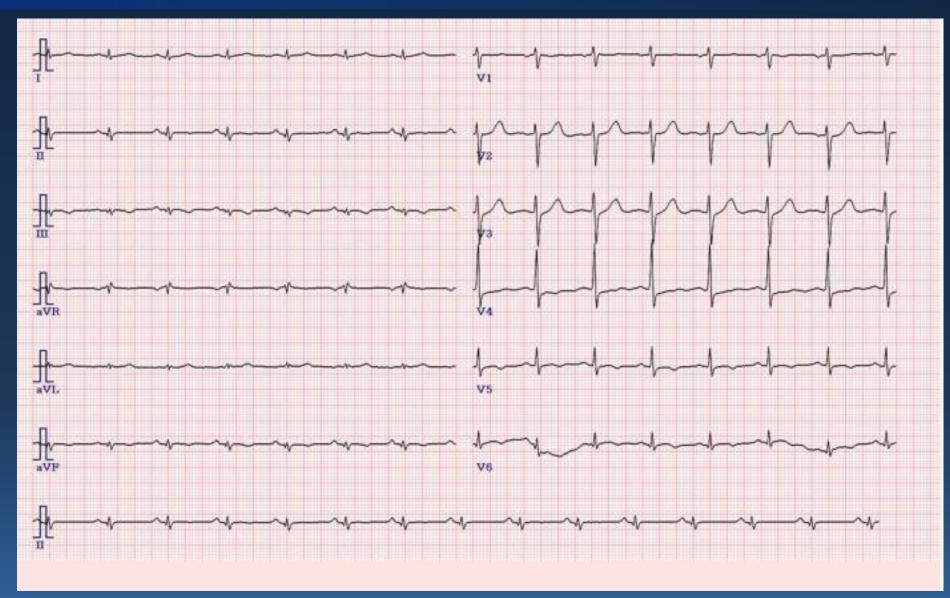
CTO lesion

Related complications

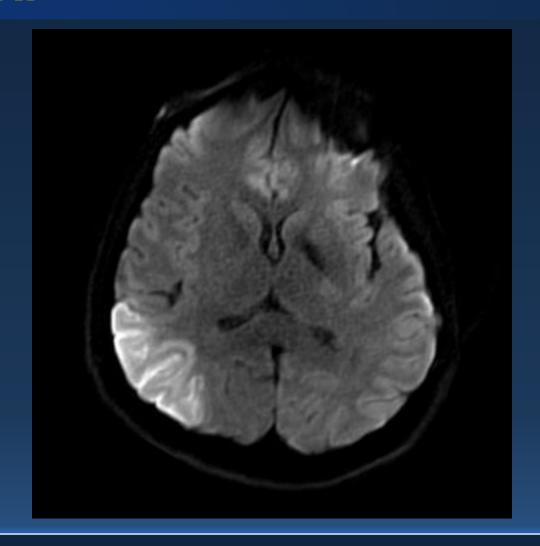
Brief case summary #1

- Male / 35
- C/C: mental change, aphasia
- PHx: DM/HTN(+/+) insulin glargine,
 vildagliptin, metformin, atorvastatin 20mg
- Current smoker(+)
- Troponin-T: 2210 pg/ml CK-MB: 3.21 ng/ml

ECG



Brain MRI

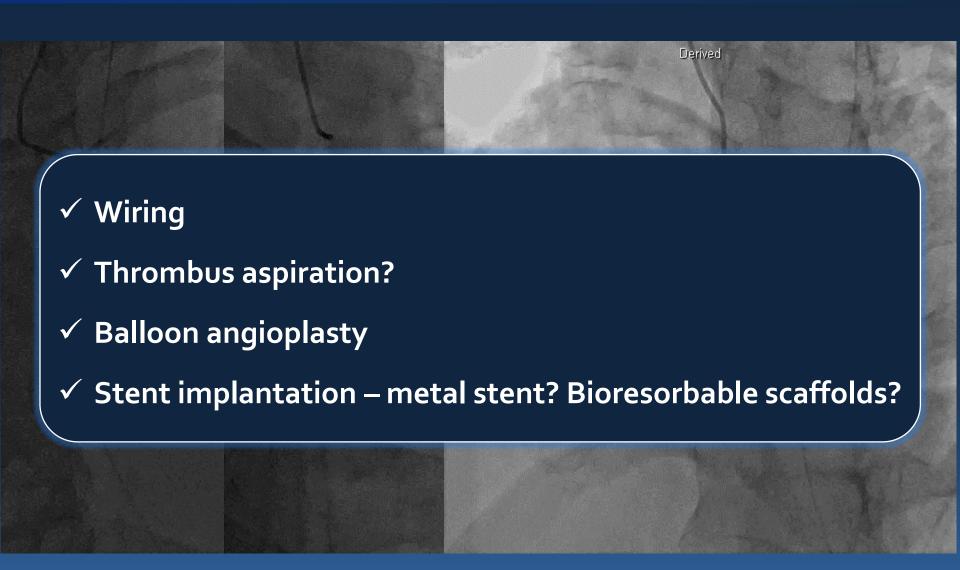


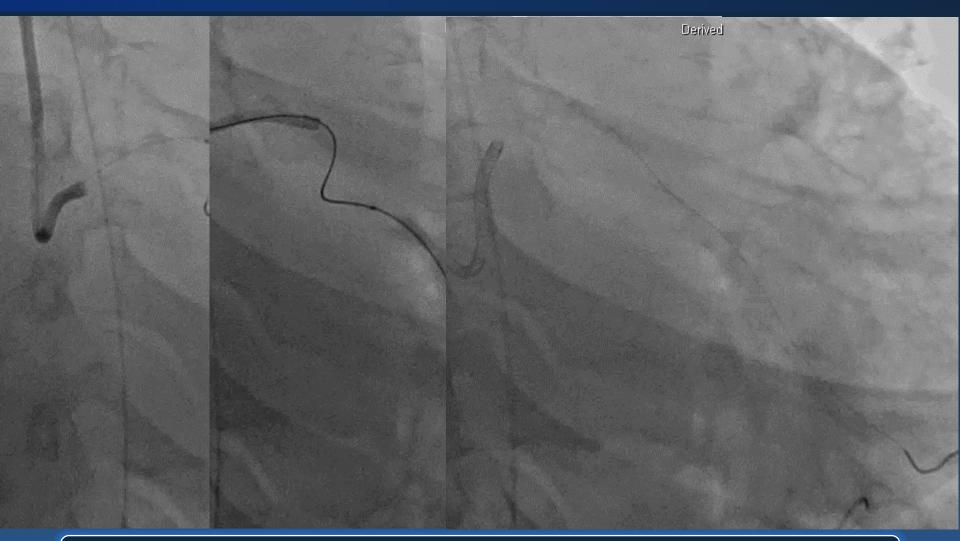
Acute cortical infarction in Rt. temporoparietooccipital lobe

Cardiac evaluation

- Echo: EF 40%, LAD & LCX RWMA(+)
- Holter: regular sinus rhythm
- Consultation from neurology

POD#2, CAG

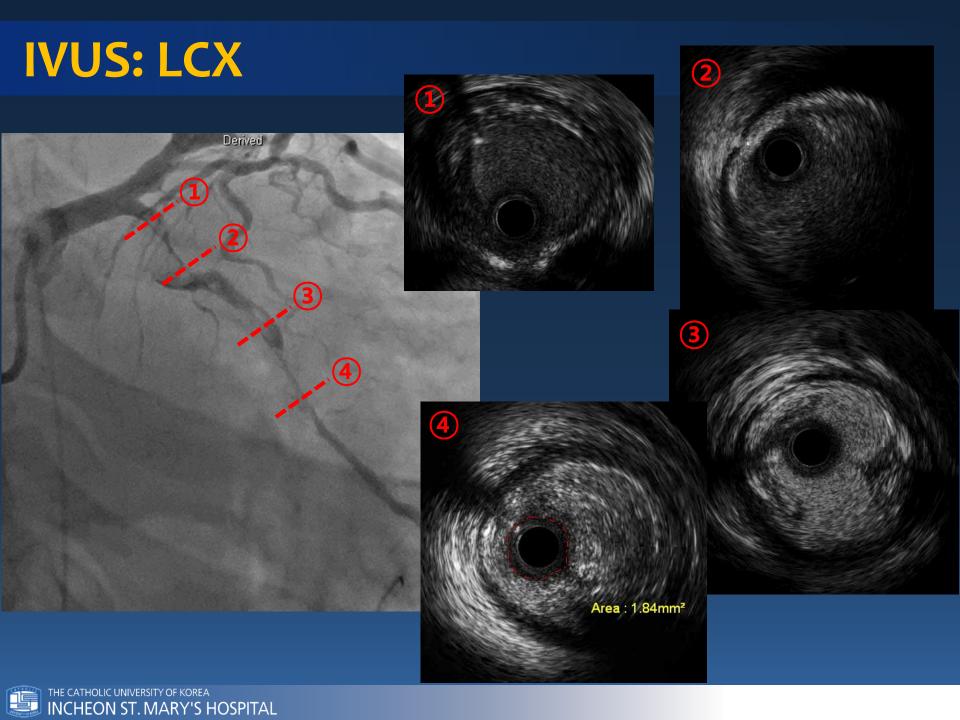


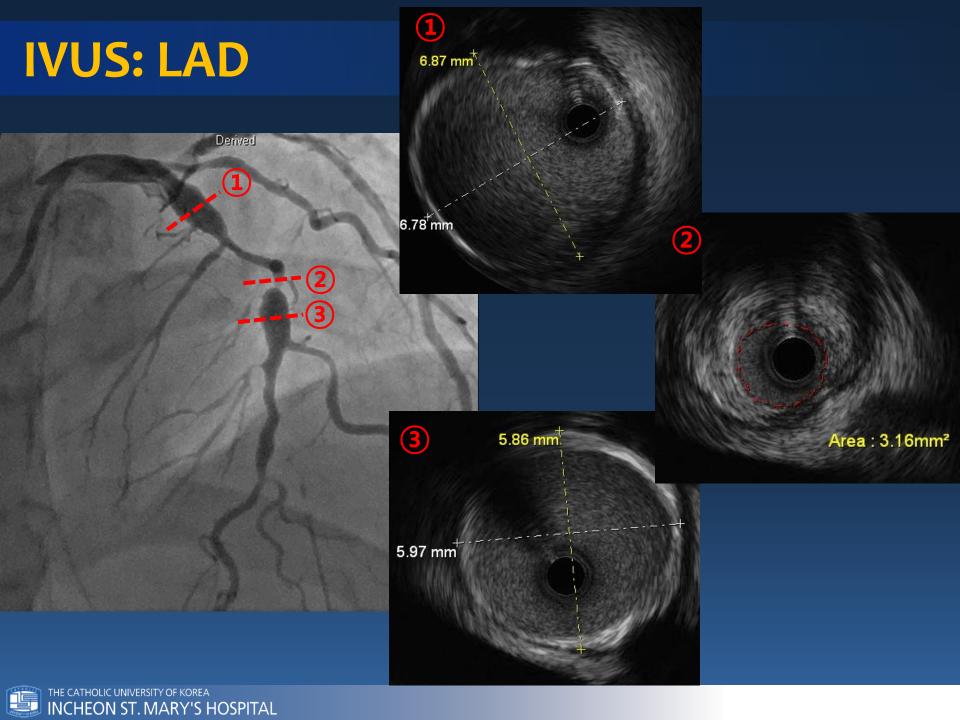


Finecross microcatheter + Fielder FC & Fielder XT-R
Thrombus aspiration: red thrombus (+++)

Treatment strategy

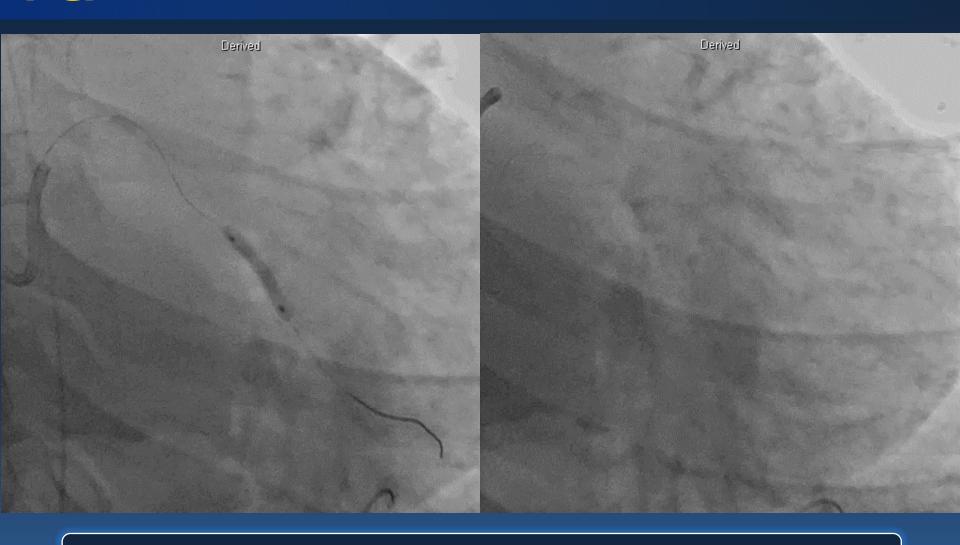
- > NSTEMI & angiographic significant stenosis
 - → Revascularization !!!
- > How PCI? Stent?
- ➢ MI, but aneurysmal change → medical Tx.?





Treatment strategy

- > NSTEMI & angiographic significant stenosis
 - → Revascularization !!!
- How PCI ? Stent ?
- MI, but aneurysmal change → medical Tx.?



Ryujin 2.5/15mm

Medications

- Enoxaparin 120mg #2 s.c.
- Aspirin 100mg
- Clopidogrel 75mg
- Rosuvastatin 20mg
- Olmesartan 20mg

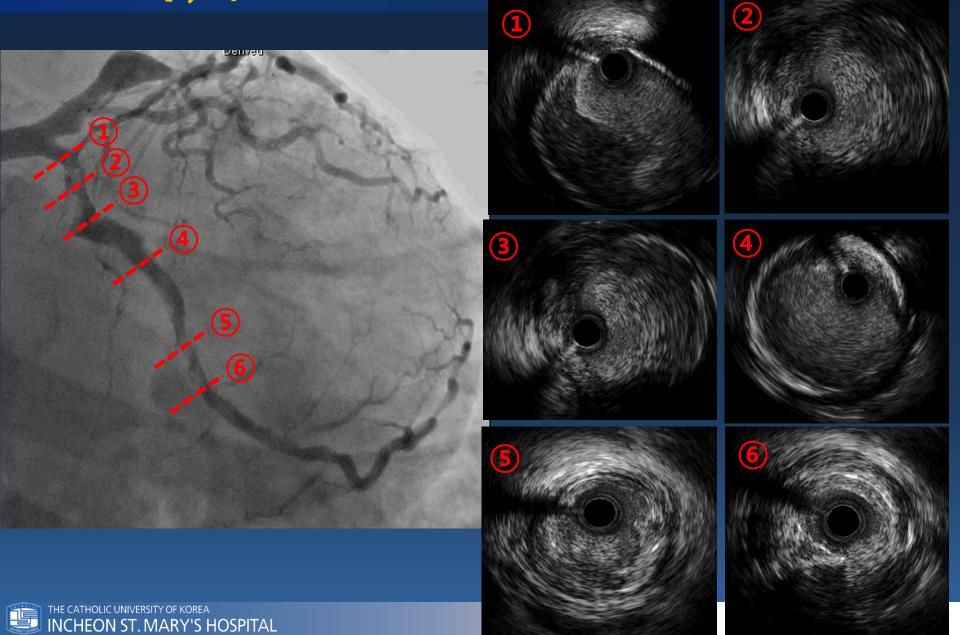
POD #7, f/u CAG



Warfarin + aspirin + clopidogrel

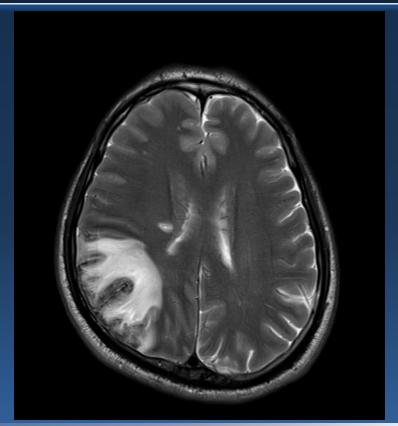


POD #7, f/u IVUS: LCX



POD #8, brain MRI

- Headache (+)
- Subacute infarction with gyral microhemorrhage in Rt. parietal cortex



POD #14, brain CT

- Headache (+)
- Rt. parieto-occipito-temporal ICH with edema





POD #14, brain CT

We stopped anticoagulation, aspirin, and clopidogrel.





After 1 months,

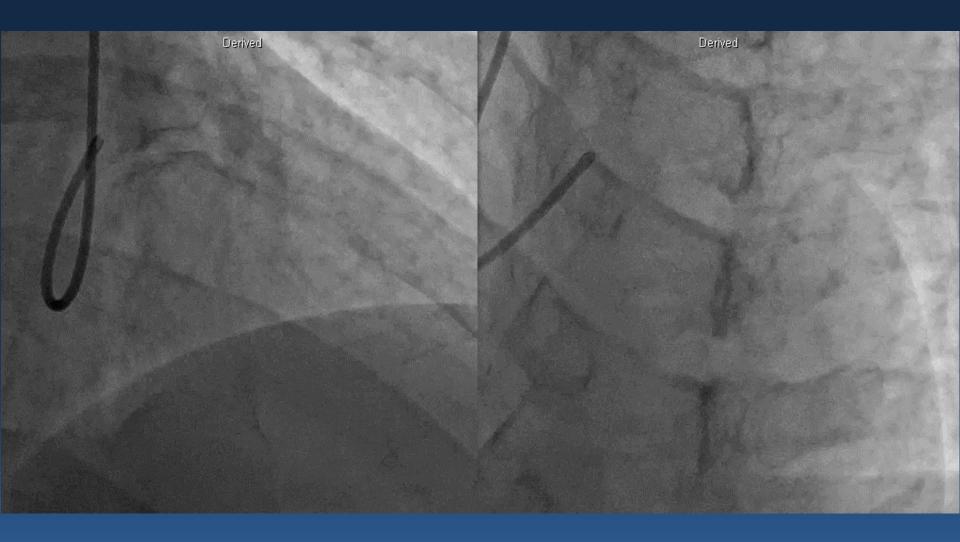
- Chest pain (-)
- Headache (-)
- Aspirin alone



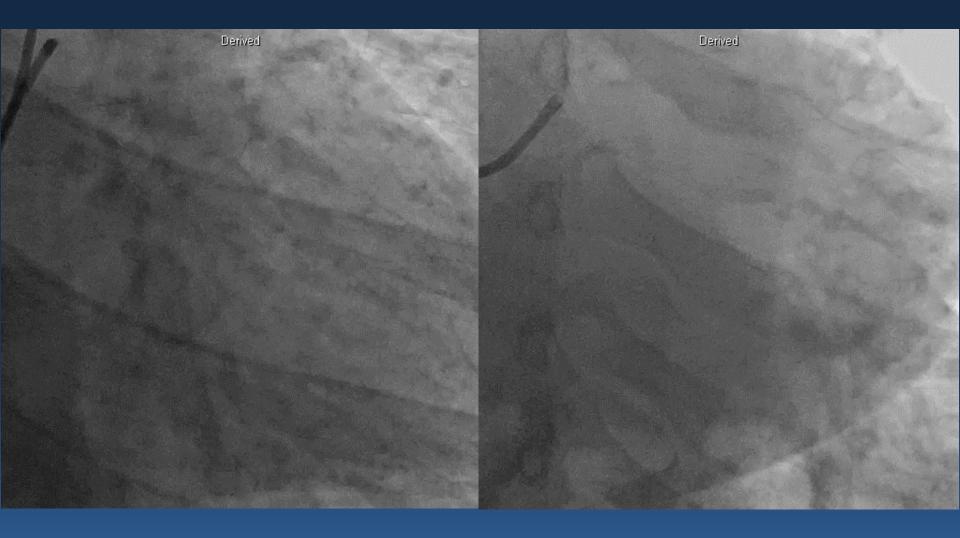
After 6 months, in outpatient clinic

- Chest discomfort(+) –tightness
- Dyspnea on exertion (+)
- F/U echo: EF 51%, LCX RWMA(+)

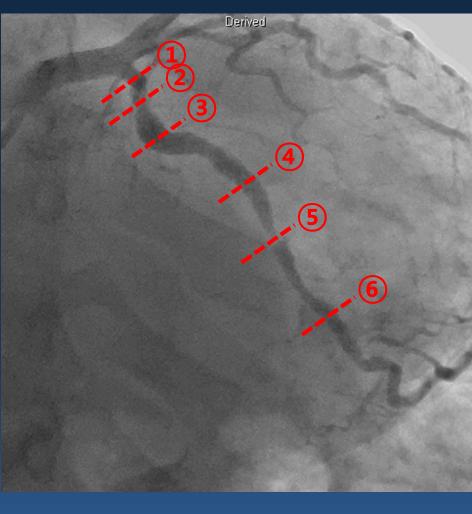
F/U CAG after 6 months

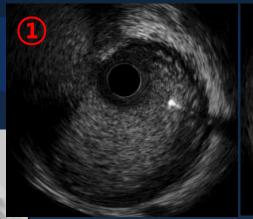


F/U CAG after 6 months

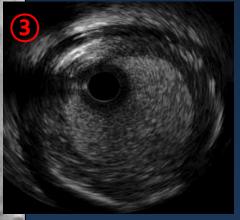


IVUS: LCX

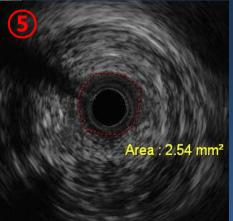














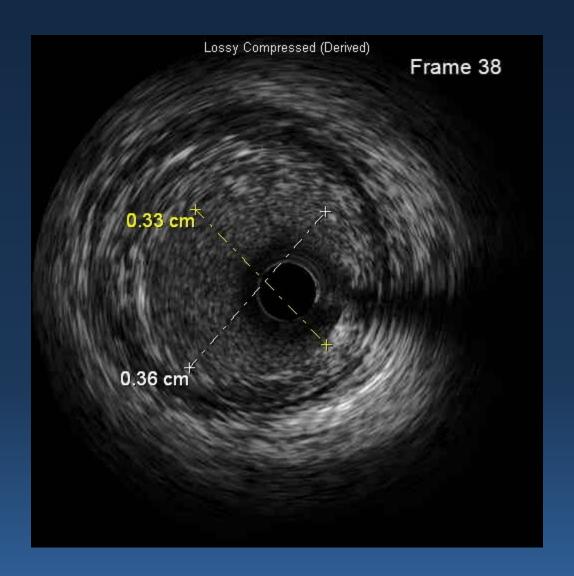


Ryujin 3.0/15mm



Paclitaxel-eluting balloon 3.5/30mm

IVUS after DEB



Final angiography



FFR: 0.75

FFR: 0.94

Medications

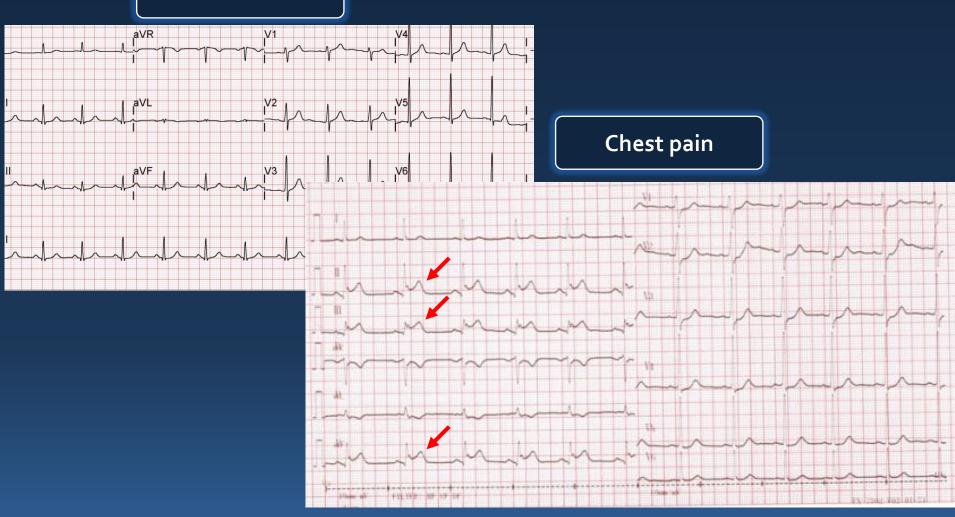
- Aspirin 100mg
- Clopidogrel 75mg
- Rosuvastatin 20mg
- Olmesartan 20mg
- Carvedilol 6.25mg bid
- Torsemide 5mg

Brief case summary #2

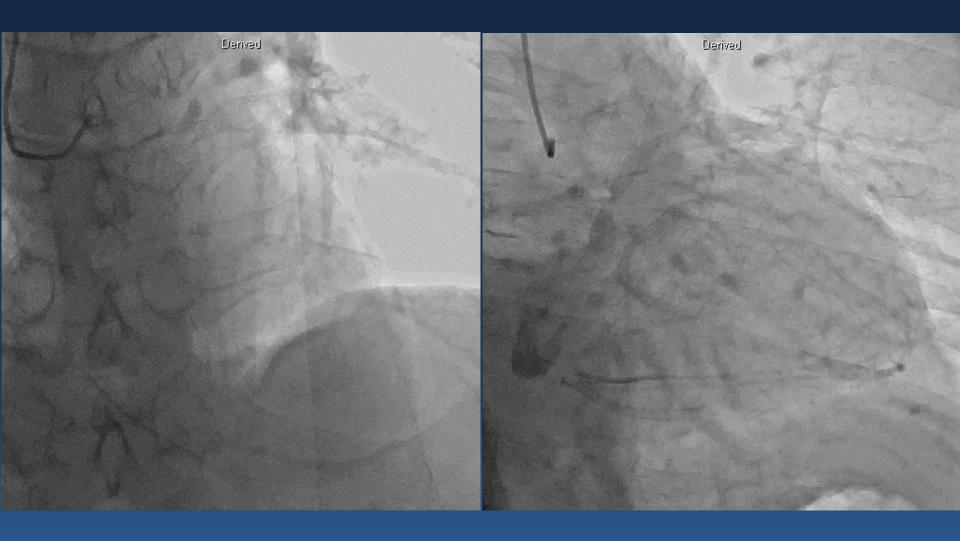
- Male / 67
- C/C: chest pain
- PHx : DM/HTN (-/-)
- Current smoker(+)
- Esophageal ca.: consultation from oncology during concurrent chemo-radiation therapy

EKG



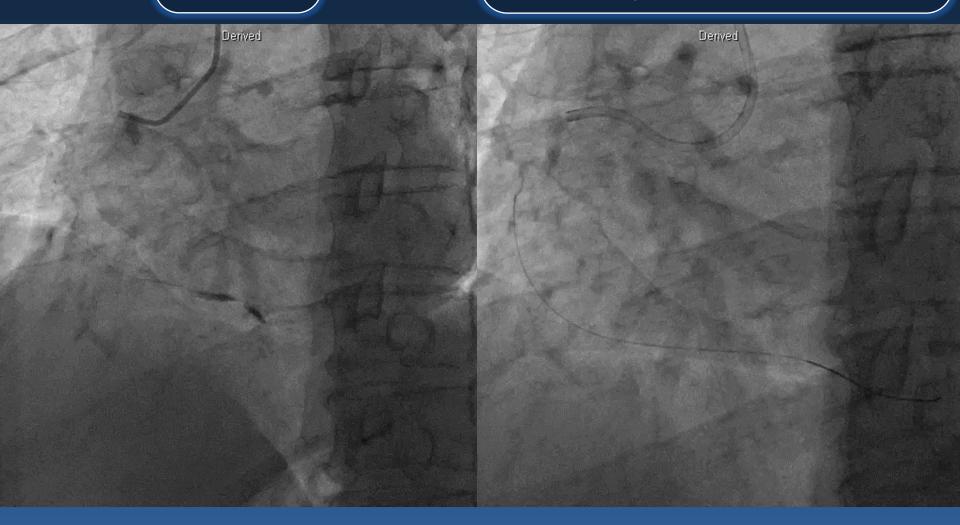


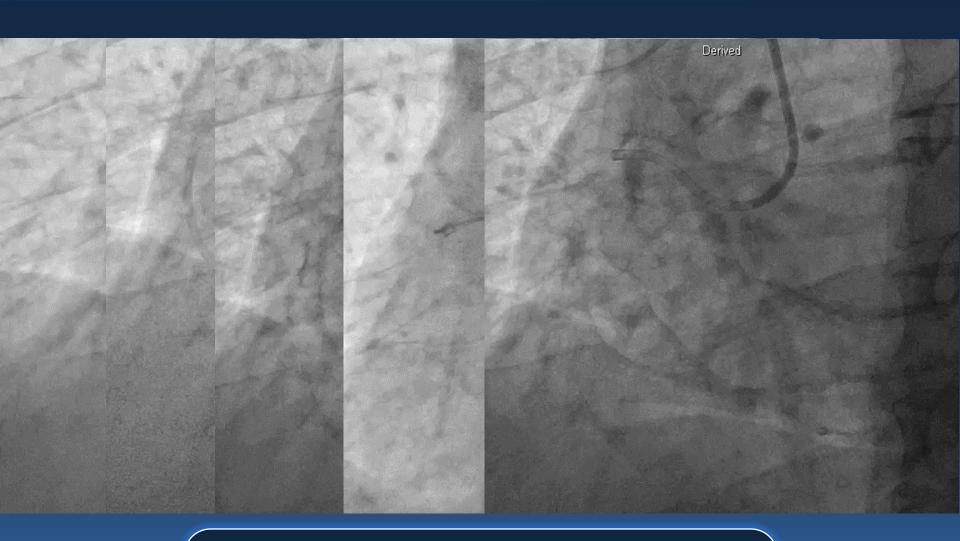
CAG



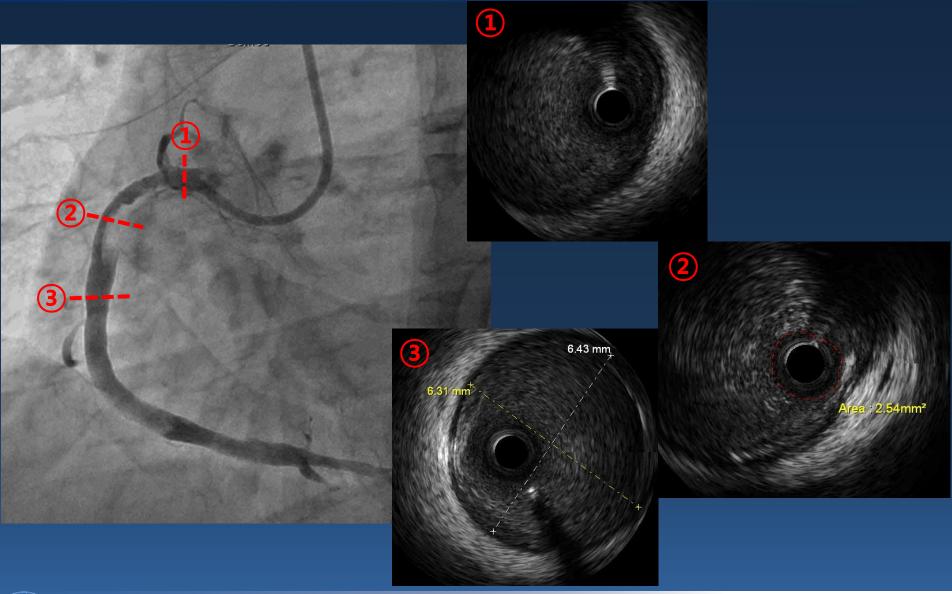
CAG

Thrombus aspiration & GP lib/IIIa inhibitor





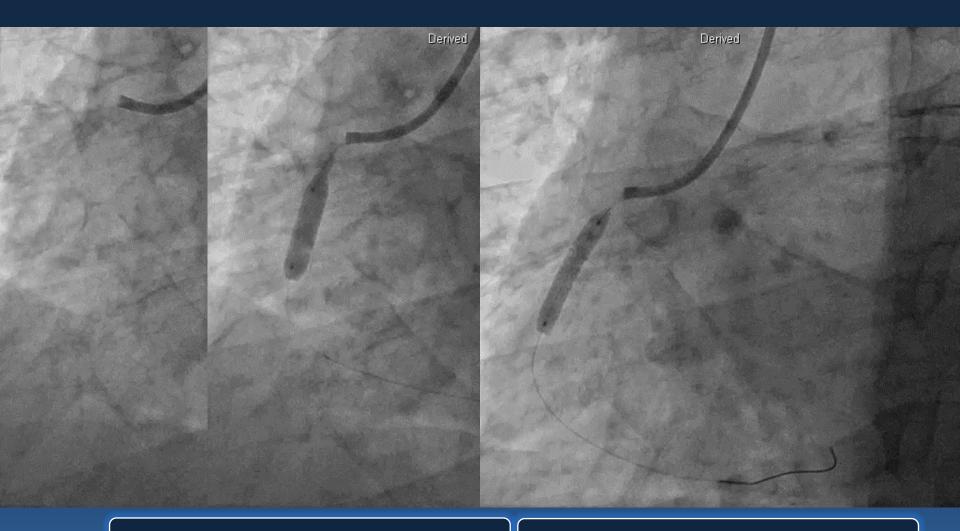
Thrombus aspiration with 5Fr Heartrail catheter



Medications

- GP IIb/IIIa inhibitor IV
- Enoxaparin 160mg #2 s.c.
- Aspirin 100mg
- Ticagrelor 18omg #2
- Rosuvastatin 20mg

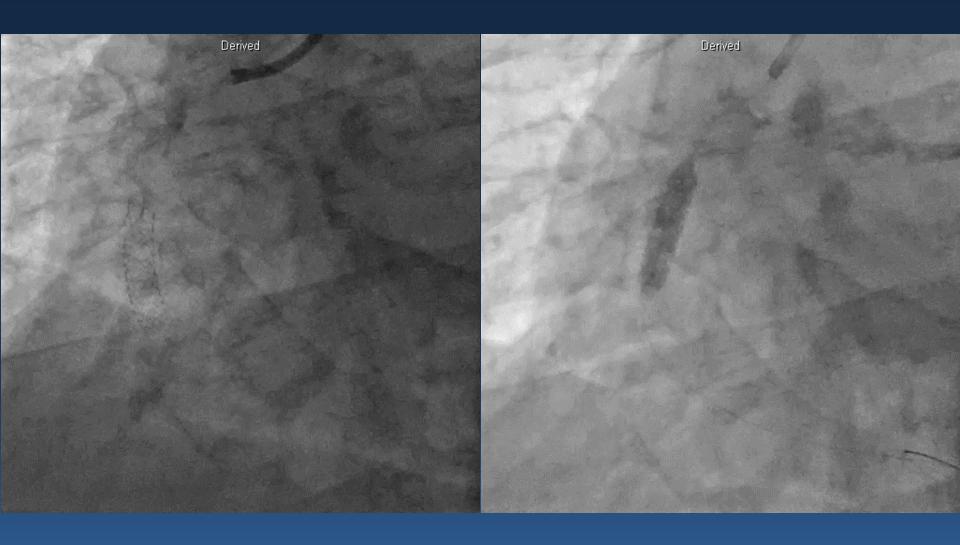
F/U CAG after 2 days

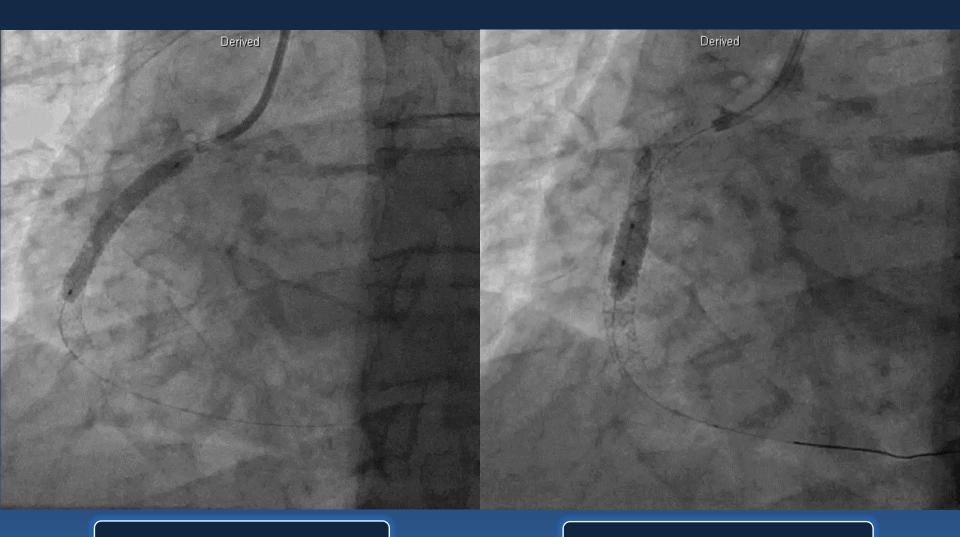


NC Trek 5.0/15mm

Synergy 4.0/20mm



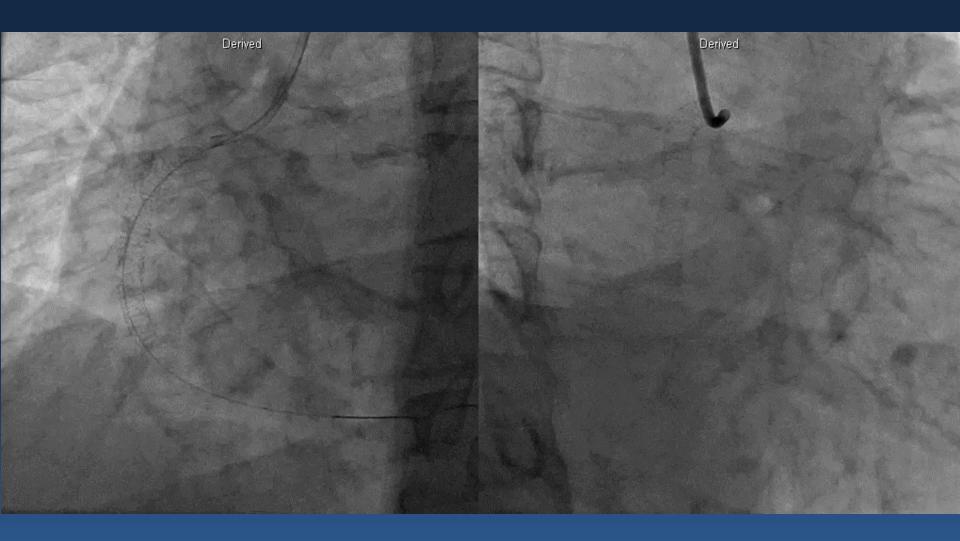




Synergy 4.0/32mm

NC Emerge 6.o/8mm





Summary

Huge thrombus burden in large coronary artery

Leave nothing behind

Leave the right thing behind

Summary

CHIP Complex Higher-Risk and Indicated Procedure/Patients

Imaging guided-PCI

Conclusion

CHIP Complex Higher-Risk and Indicated Procedure/Patients

Complex PCI

Conclusion

CHIP Complex Higher-Risk and Indicated Procedure/Patients

Complex patient Simple PCI

Thank you for your attention.

