A Successful Bridging Support with IABP for a 60 y/o Man with Acute Anterior STEMI with CAD-3VD and LM Disease

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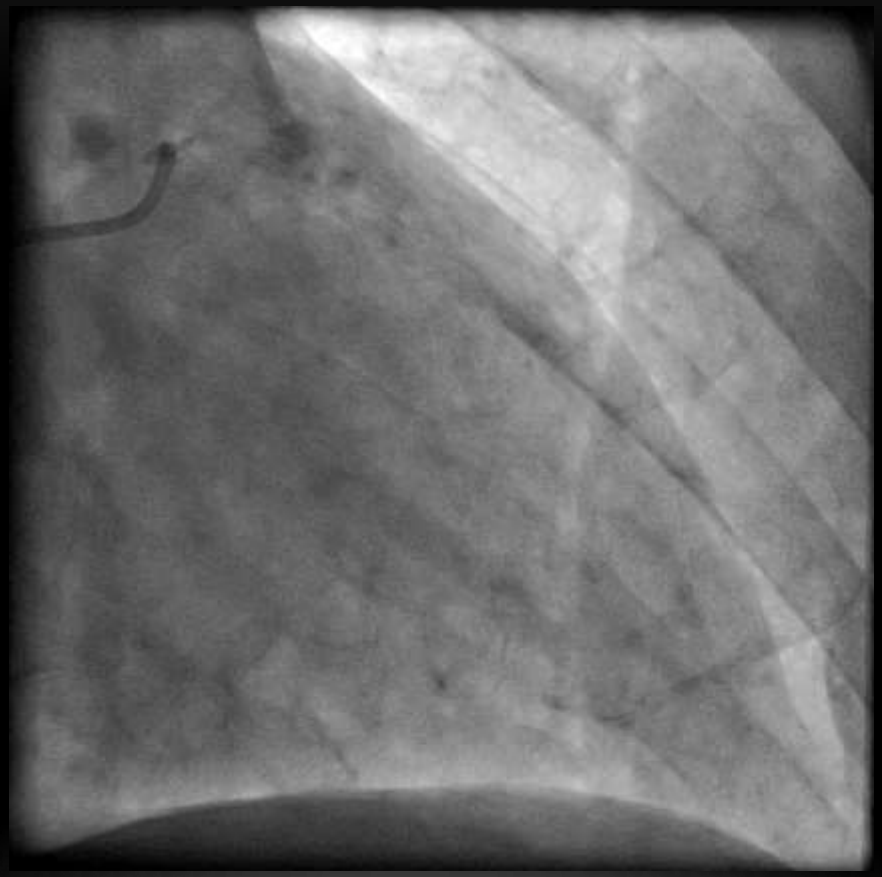
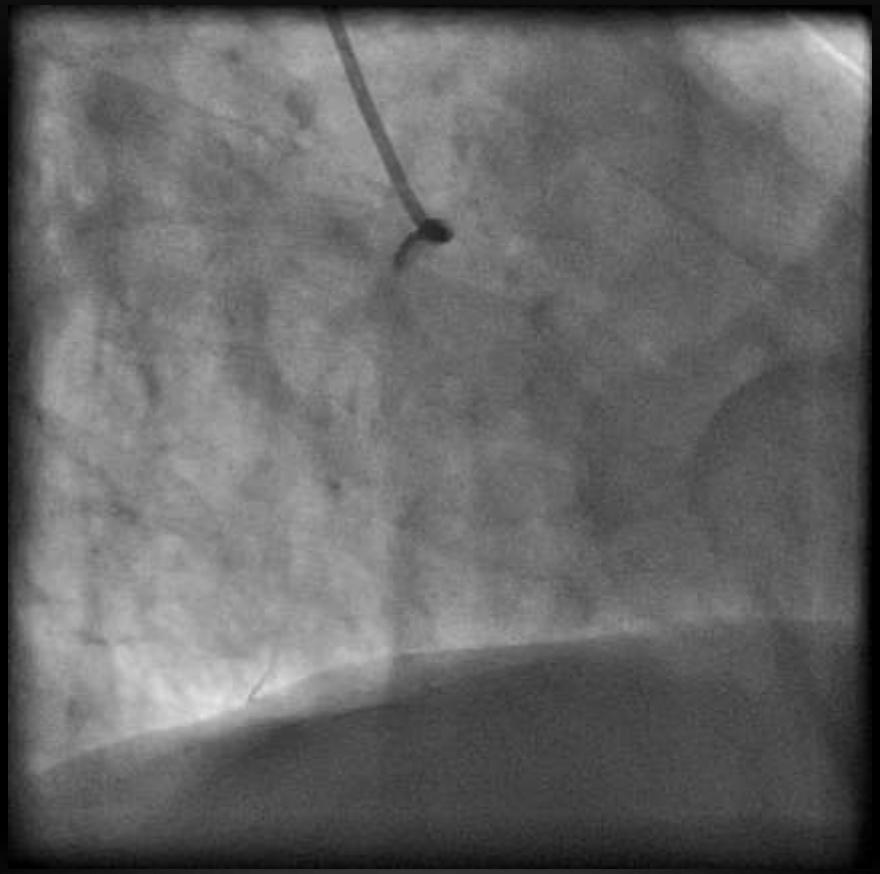
Brief History:

- A 60 y/o Iranian male
  - Sudden onset of severe chest tightness for 10-20 minutes at night
  - was sent to the hospital by the hotel's staff
- ECG: c/w acute anterior STEMI
- CAD risk factor: smoker, dyslipidemia
- Oxygen status: room air; no signs of shock
- CXR: mild pulmonary congestion

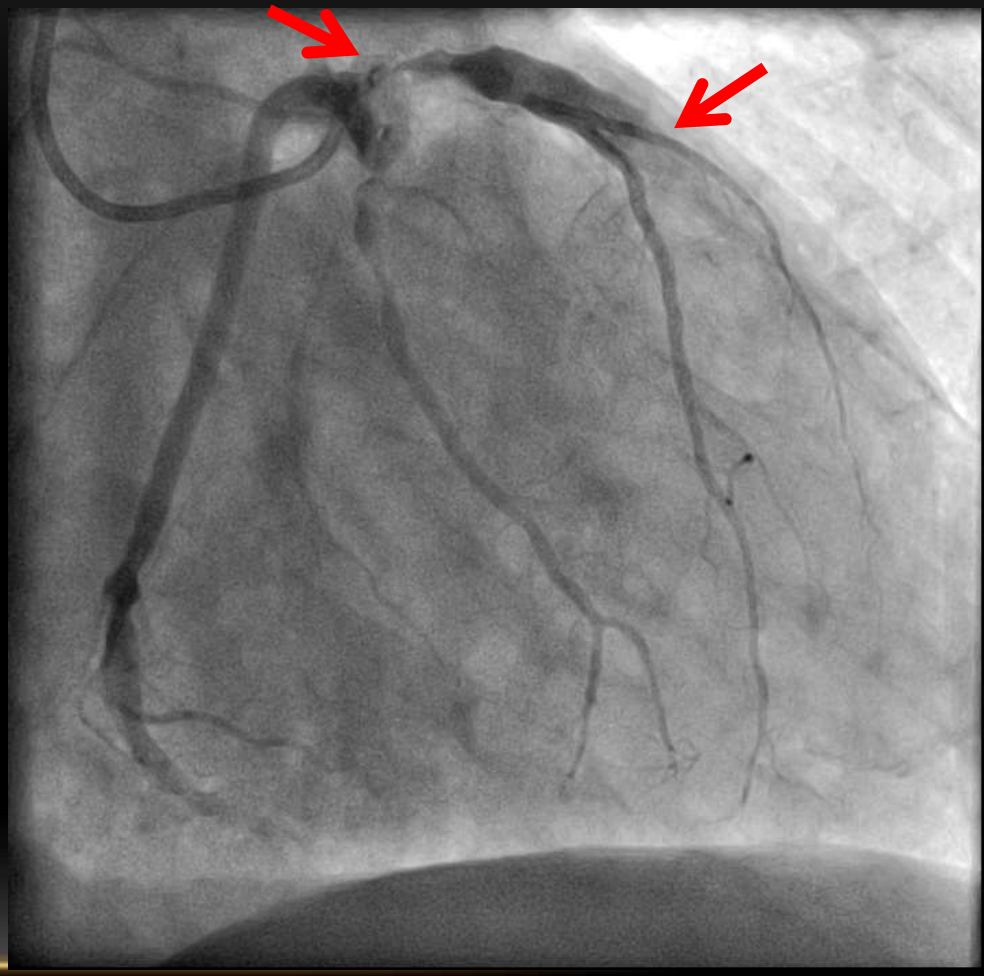
- Treated with aspirin, ticagrelor and heparin
- Advised a CAG via trans-radial approach



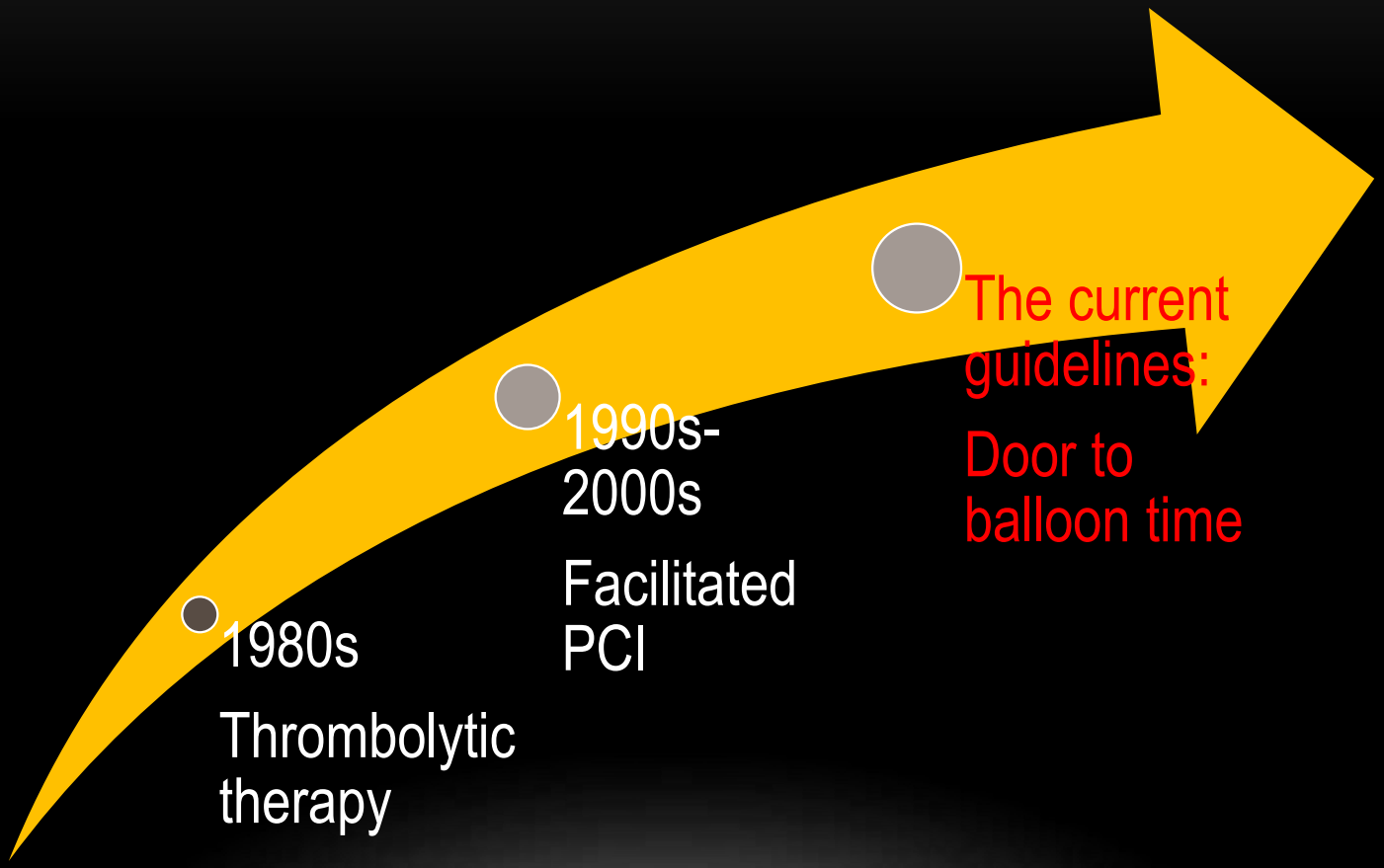


Strategies:

- The infarct related vessel: LAD
- The largest balloon and stent in my cath. Lab were *only 4.0 mm !!*



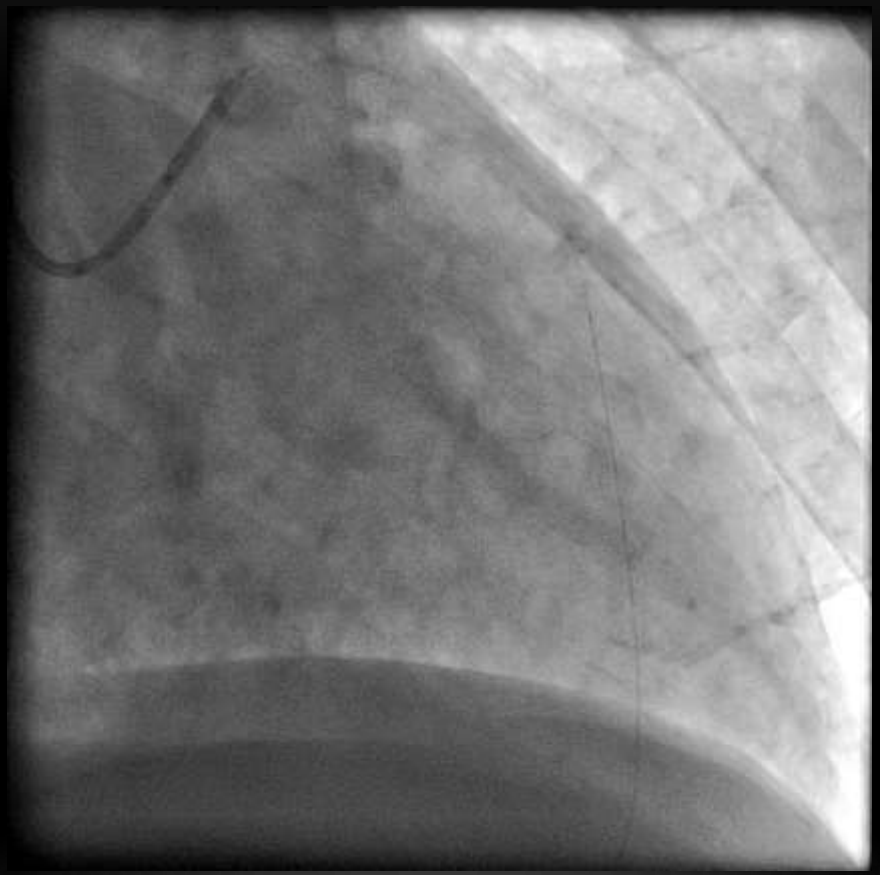
Treating acute STEMI: early reperfusion therapy

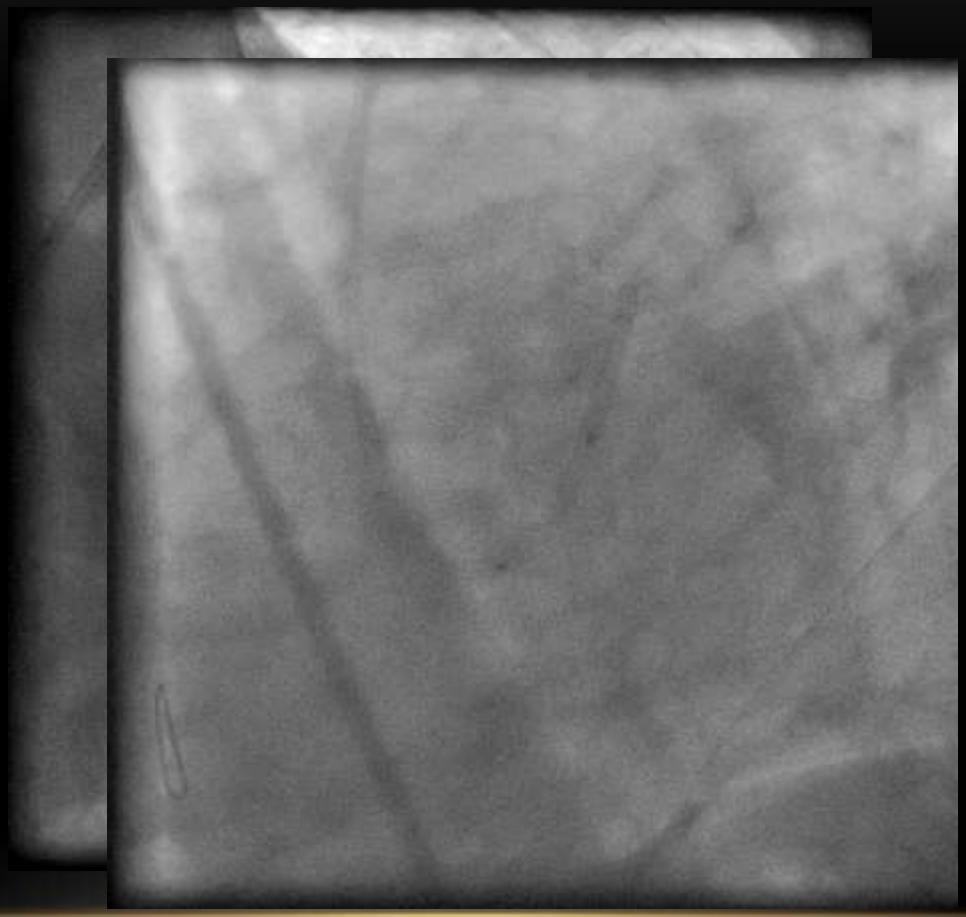


Strategies: a modified early reperfusion therapy

- Criteria: The regression of more than 50% of the sum total (or maximum) ST elevation in infarct leads.

- Procedures:
  - Simple PCI: aspiration catheter; POBA +/- STENT
  - Anti-coagulation +/- TPA
  - IABP or ECMO
  - A rescue PCI or CABG

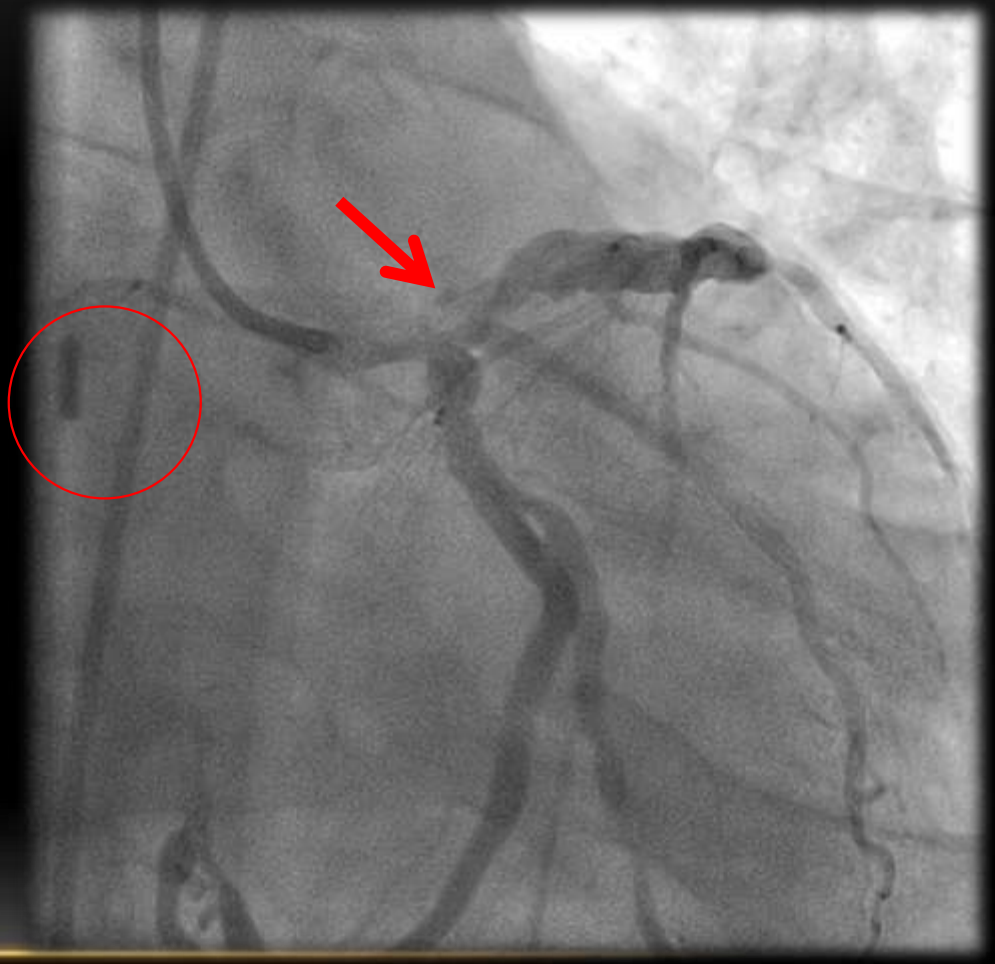


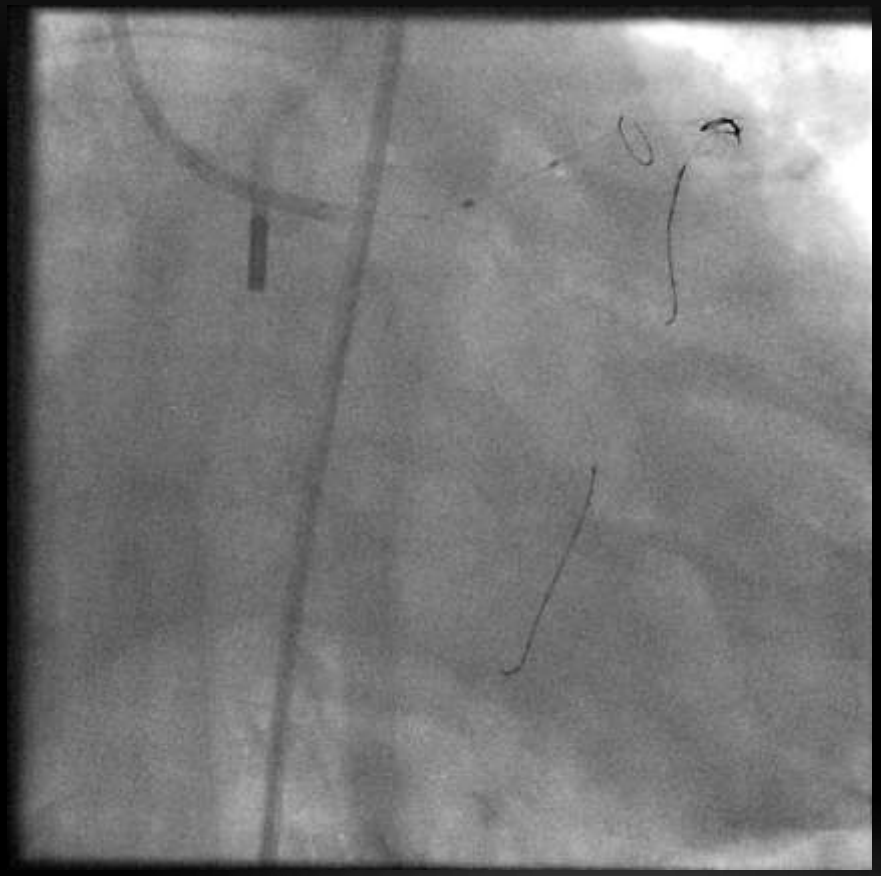


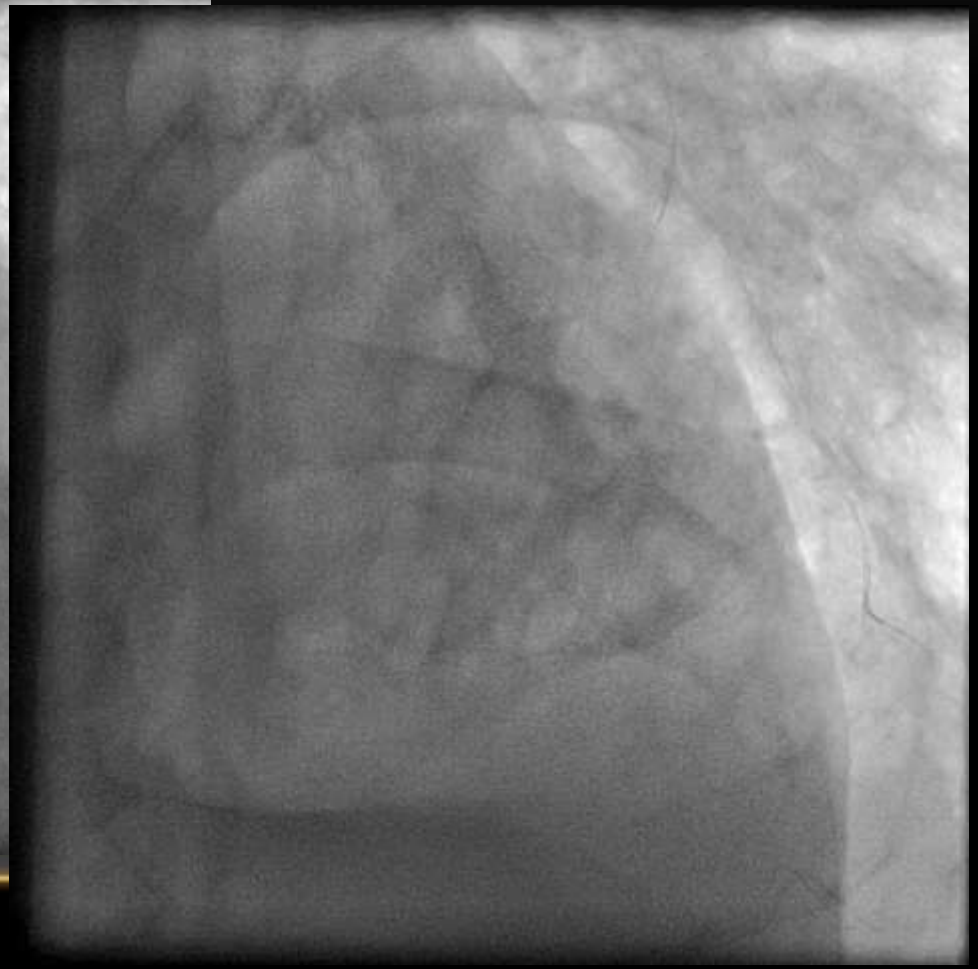
- Regression of ST elevation
- Persistent but mild chest tightness

Slow flow phenomenon

- Anti-coagulation and dual anti-platelet agents
- An IABP support
- A rescue PCI within 12 hours
  - A filter catheter
  - Big-sized (4.5mm, 5.0 mm, and 5.5 mm) NC balloons and metallic stents







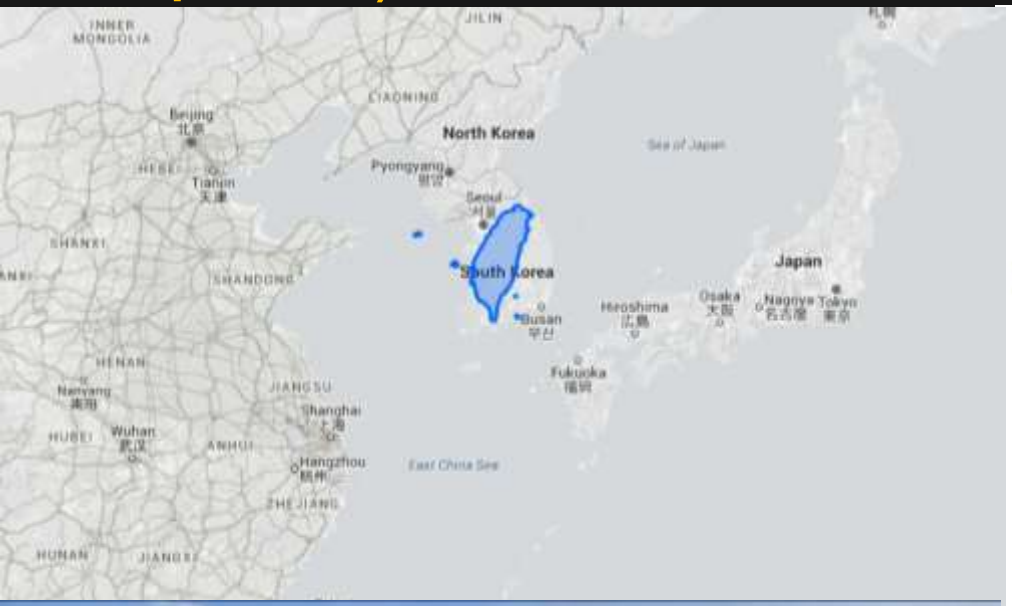
Conclusion:

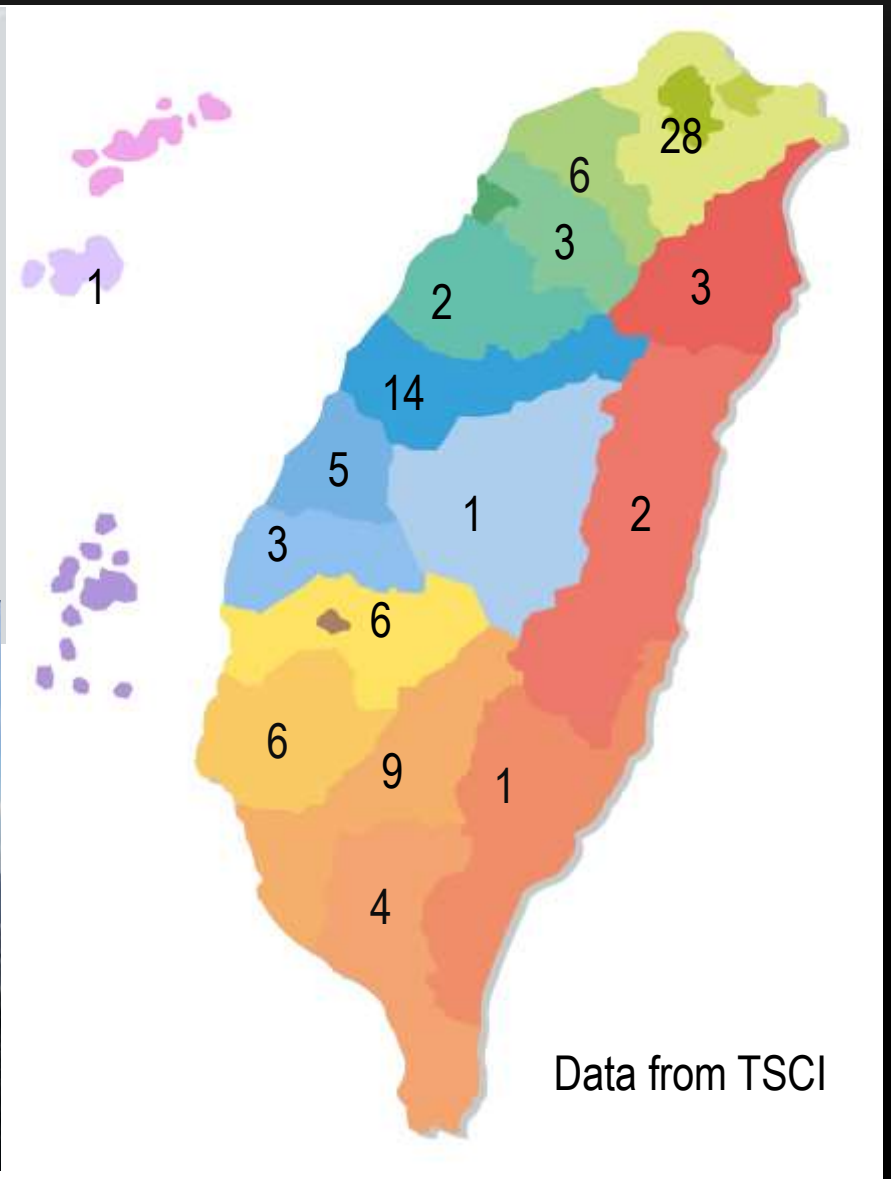
- For resolving heart failure and ischemia
  - LVEF 38%
  - Post-MI treatment as a guideline
  - Performing 21 courses of enhanced external counterpulsation (EECP)
  - Treating his LCX and RCA after 2 weeks

The distance is 4080 miles!!

- He took a commercial airline and returned to his country 28 days later
- He had follow-ups at a hospital in his country for 2 years
- There were no recurrent symptoms

Taiwan has a high density of cath. Labs(> 90 hospitals)

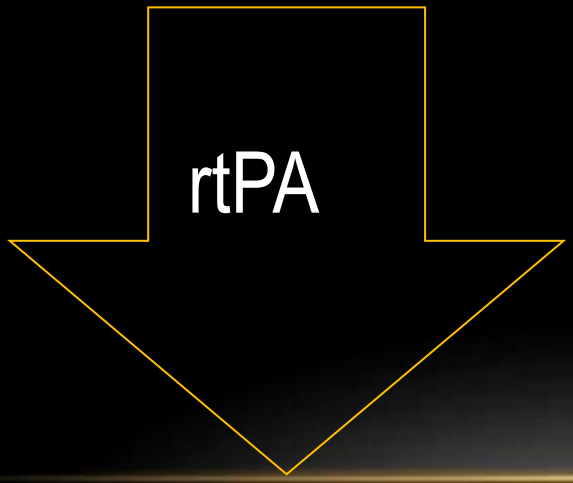




A modified early reperfusion therapy for complex acute STEMI

1. Simple PCI
2. Pharmacotherapy
3. Percutaneous circulatory assist devices

→ Reduces the complications



Low success rate