

"Simple 3-vessel CAD...
cansewe have it done in 60 mignutes?

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### Conflicts of Interest

Speaker's name: Duc-Huy DINH, HCMC, Vietnam

I have no potential conflicts of interest to report

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MCT Congress 2018



### Clinical presentation

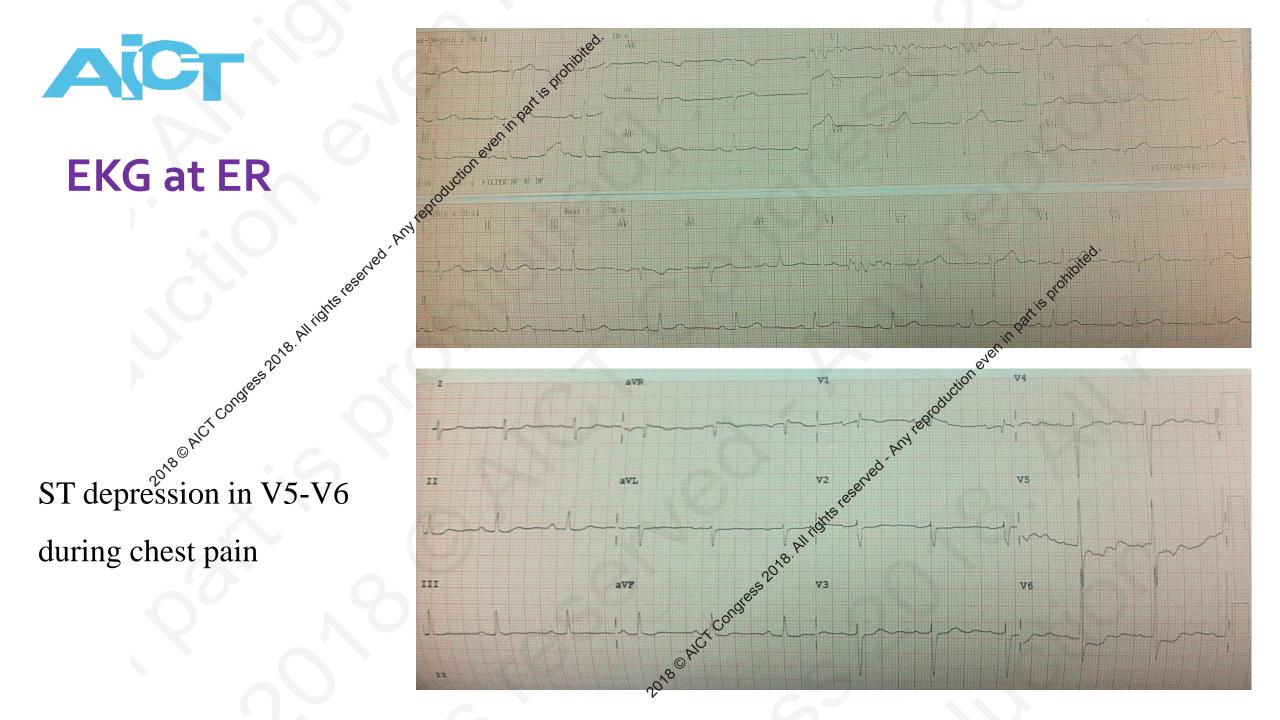
- 68 year-old ladyed ref
- BMI 19 (H 155, W 46)

  Hypertension, Dyslipidemia
- ÆTA= moderate to severe lesions in 3 vessels
- High risk unstable angina

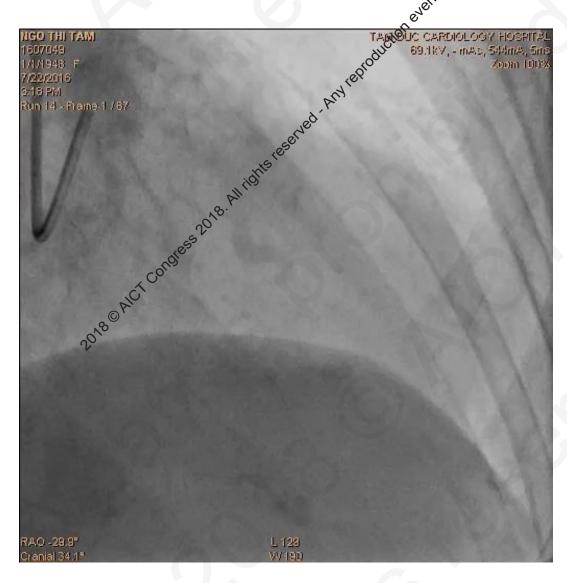
- Unremarkable examination
- Negative hs-TnT
- Echocardiography:
  - o LVEF 72%; No RWMA
  - O No valvular heart disease

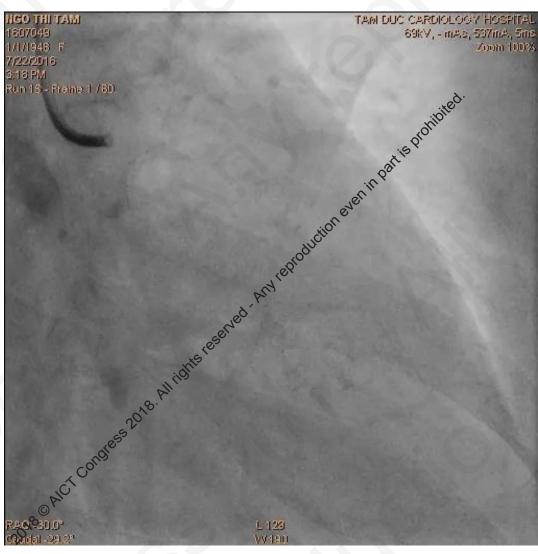
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## ACCCAG (3 VD- SYNTAX score 24)- for PCI







# O1. Will you put up a 3 VD PCI 24 hours before your flight? Yes

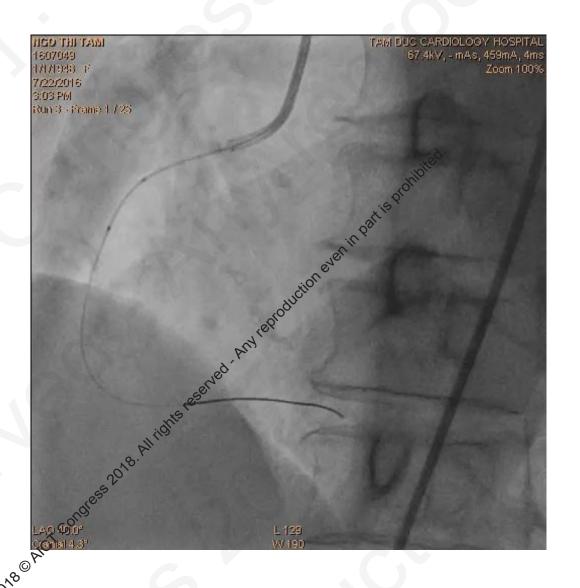
B. No

Case was started at about 15.00

Hopefully to finished in about 60 minutes

Plan to see patient next morning and

Flight at 14.30





### Proximal RCA Picci (2.75x33 mm DES)- 3.12 pm







.. BL guide

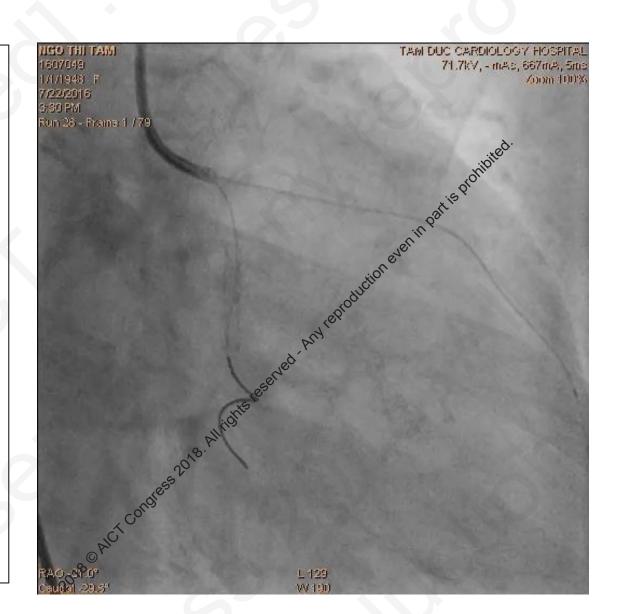
o.014" for both LAD, LCx

Pre-dilate LCx

5x18 mr 2.5x18 mm DES LCx- 3.29 pm

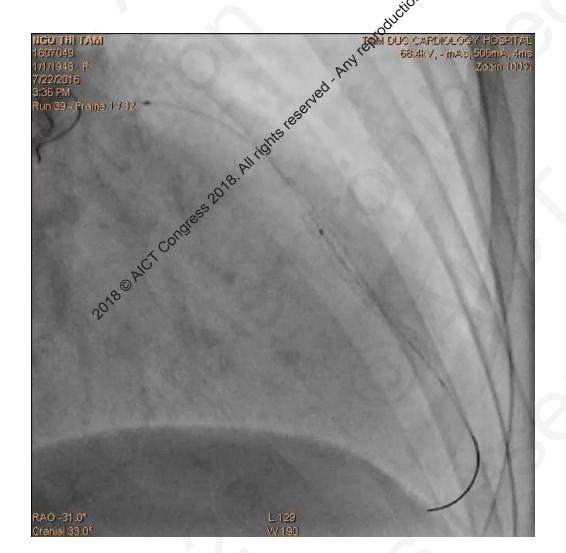
TAMI 3 post LCx stent

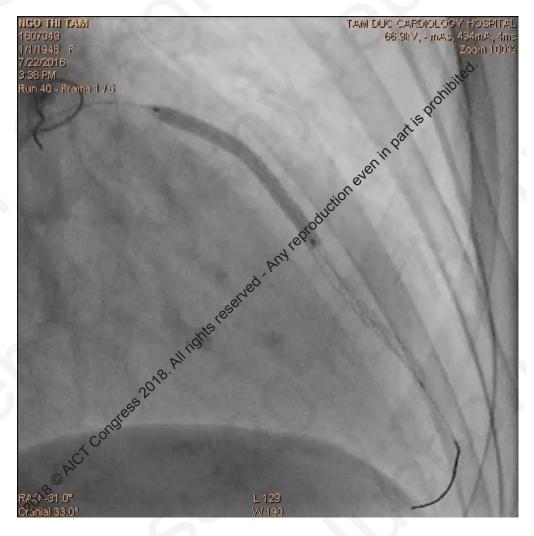
- Plan for full-metal LAD
- Pre-dilate from distal LAD with 2.0x15 mm then 2.5x15 mm balloon





# PCI LADió overlapping 2.5x36 mm & Outro over 3.0x33 mm DES)- 3.38 pm







### Post-dilate with stent balloon and... 3.39 pm







Q2. What is your or plan?

Reverse hear are

A. Reverse heparin by protamine, do pericardiocentesis

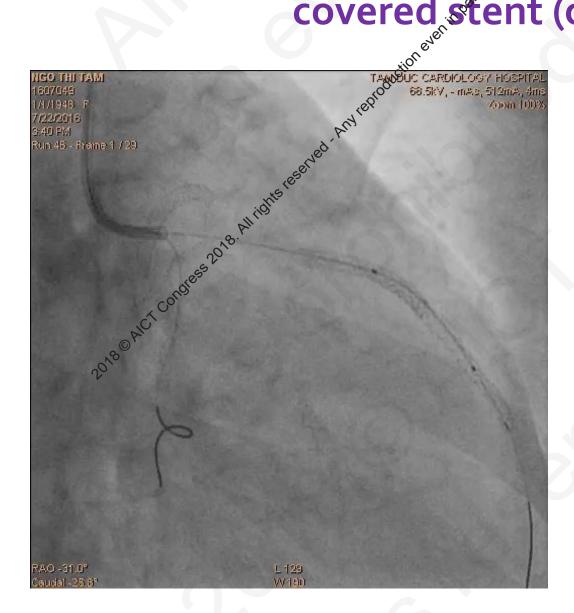
B. Long balloon inflation

C. Covered stent

D. Call surgeon



# Big perforation and fixed by 2.75x18 mm covered stent (only size available)- 3.42 pm



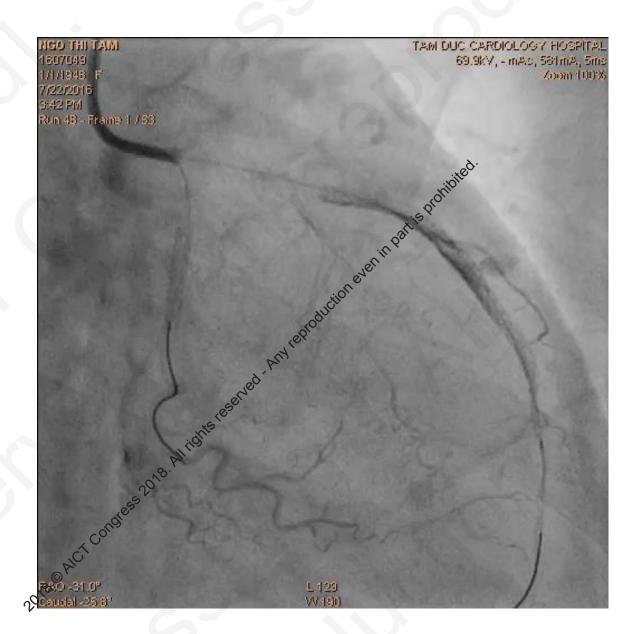




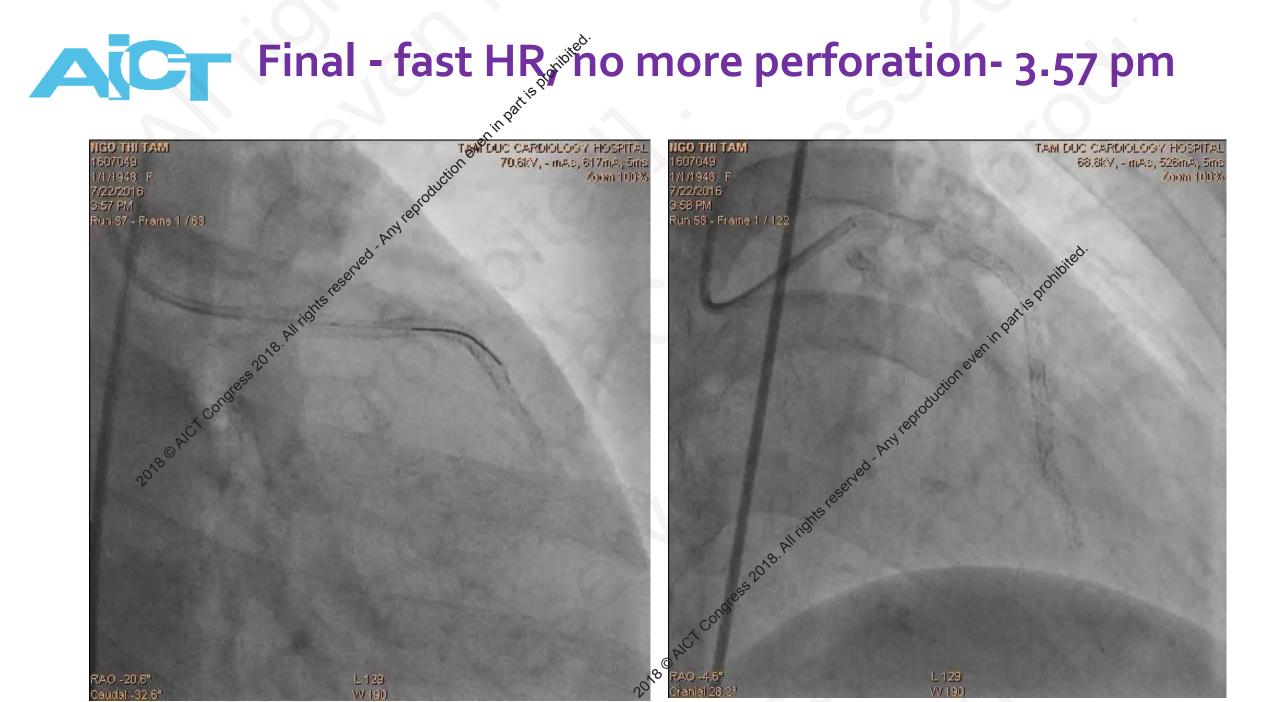
### Hemodynamie instability- 3.42 pm

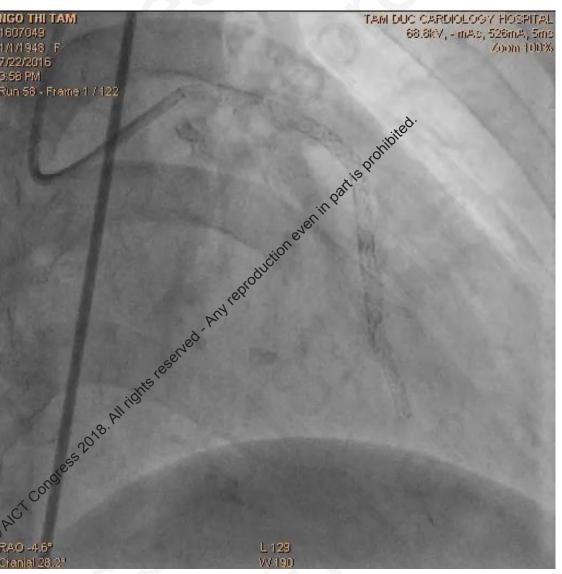
- Perforation was almost sealed of the seale
- Patient became very unstable
- Chest pain (+)
- Chest pain (+)

  BP dropped
  In-cath-lab echo: large pericardial effusion with RV & mpression
- IV Inotropes started
- Inťubated
- Finished PCI procedure with one more 3.0x28 mm DES in proximal LAD











### Post procedure monitoring

- Consulted with on-call surgeon (in hospital)
- Moved patient to OT for cardiae drainage (250 ml red blood taken out )
- BP 98/60mmHg HR 120 bpm, CVC 6-7mmHg
- Hct 28%, Hgb 1@g/dL→ Blood transfusion started (1 unit) → Hgb 11g/dL
- D1: Extູໜື່bation
- Pericardial drainage → 300-600ml red blood
- 18 pm echo= large PE with RV compression

- Cardiac drainage blocked
- BP dropped gradually 80/50 mmHg (23 pm)
- To OT again for sternotomy procedure (D2)
- LAD was torn # 1mm; still bleeding → corrected
- LIMA graft to big diagonal
- Inotropes support
- Transfusion (RBC, Platelet...)
- Mairitain Ticagrelor and aspirin



### Hospital care

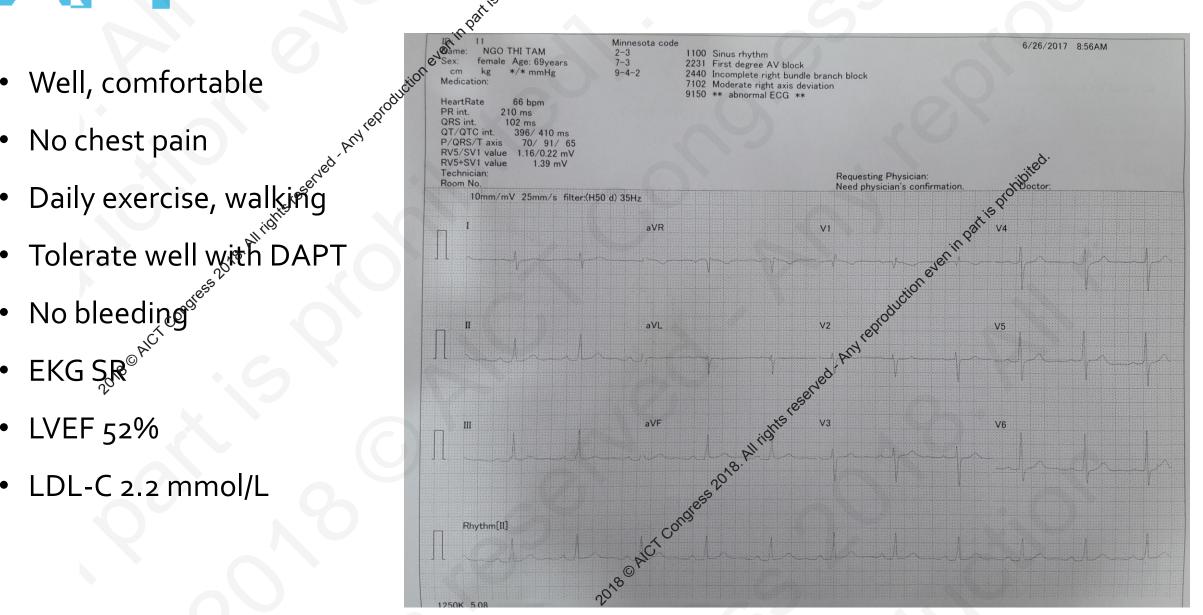
- D3- Echo: large pericardial effusion with RV compression
- Back to OT again to clean the pericardial cavity and redo the pericardial drainage
- Blood transfusion Inotropes support
- Acute liver injury due to hypovolemic shock
- Heartsfailure
- Nentilator acquired pneumonia > IV antibiotic (Meropenem, Linezolid, Levofloxacin) x 10 days
- Gradually improved  $\rightarrow$  discharged after 22 days of hospitalization
- HR 80 BP 120/75- No chest pain- LVEF 50% with small pericardial effusion



### Follow Up 12 months after PCI

- Well, comfortable
- No chest pain
- Tolerate well with DAPT
   No bleeding
   EKG SR

- LVEF 52%
- LDL-C 2.2 mmol/L





### Messages from case

1. There is no 'simple" 3-vesေမျိဳ disease

2. Perforation, even be sealed by covered stent, can be dramatic

3. Difficulty of how to balance "risk of stent thrombosis" vs. "severe bleeding" (this patient received totally 5 DES [could be considered as complex intervention] & underwent CABG with ongoing DAPT)

4. Support from cardiac surgeons did help to save this patient

