

TAVR: How Should I Treat ?

When Severe Left Main Artery Disease Met Severe Aortic Stenosis

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Brief History

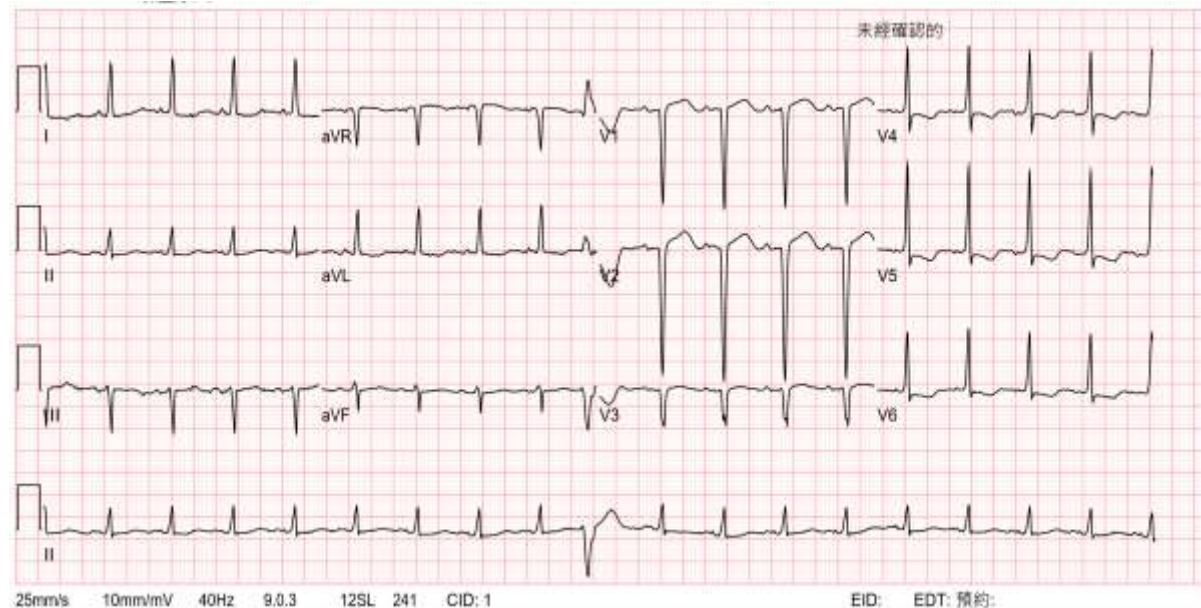
81 y/o woman

Underlying disease: DM, Dyslipidemia, colon cancer s/p operation

- 2008 AS was first diagnosed in other hospital
- 2011 Progressed DOE
- 2013/3 Colon cancer was found
Peri-op myocardial infarction complicated
Under medical treatment only
- 2013/10 CHF with acute lung edema s/p intubation
- 2013/12/19 admitted again due to heart failure
severe AS was detected (AVA: 0.5 cm²)
refractory heart failure even under medical treatment
- 2013/12/28 transferred to NTUH under critical condition

Brief History

- BP: 136/79 mmHg, PR 109 BPM
- BUN: 50.0 mg /dl , Cr:0.8 mg/dl
- NTPro-BNP: **19200**
- Progressed SOB even under intensive diuretics therapy
- CCU admission
- Dopamine support



Echocardiography

- Severe valvular aortic stenosis
- AVA: 0.80 cm², mean PG: 26 mmHg, Peak PG: 47.4 mmHg
- LVEF: 26~30%
- Regional wall motion abnormalities are noted over LAD territory.
- Moderate to severe mitral regurgitation, functional type Ia
- TR PG: 46.9 mmHg



LCA

Lossy Compression - not intended for diagnosis



Lossy Compression - not intended for diagnosis



LCA

Lossy Compression - not intended for diagnosis



Lossy Compression - not intended for diagnosis



RCA

Lessy Compression - not intended for diagnosis

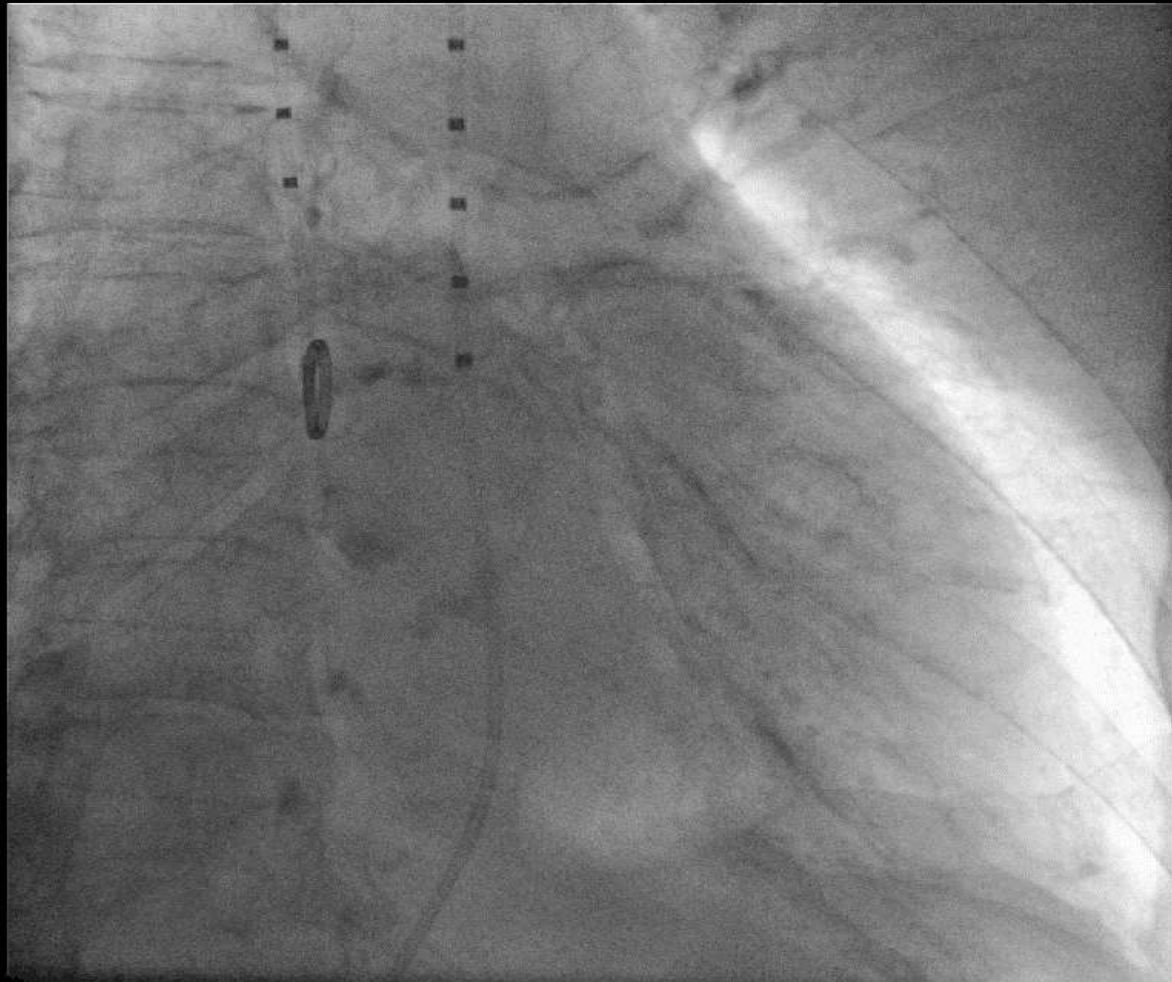


Lessy Compression - not intended for diagnosis



Aortography

Lossy Compression - not intended for diagnosis



When LM Stenosis Met Severe AS

- Severe & calcified LM stenosis
- Severe aortic stenosis
- Poor LV function with decompensated heart failure
- Logistic Euroscore: **83.3%**, Euroscore II: **41.23 %**
STS score: **19.49 %**

How Should I Treat ?

- Should I send the patient for open heart surgery ?
- If surgery was not the choice , how should I treat ?
- LM PCI first ? or TAVR first ? or BAV first ?
- Staged procedure ? or concomitant ?
- What about moderate-severe MR ?



Dear Professor Ye:

How Would You Treat This Patient ?