

How should I Treat? TAVR in a patient of failing aortic prosthetic valve with AR and paravalvular leak

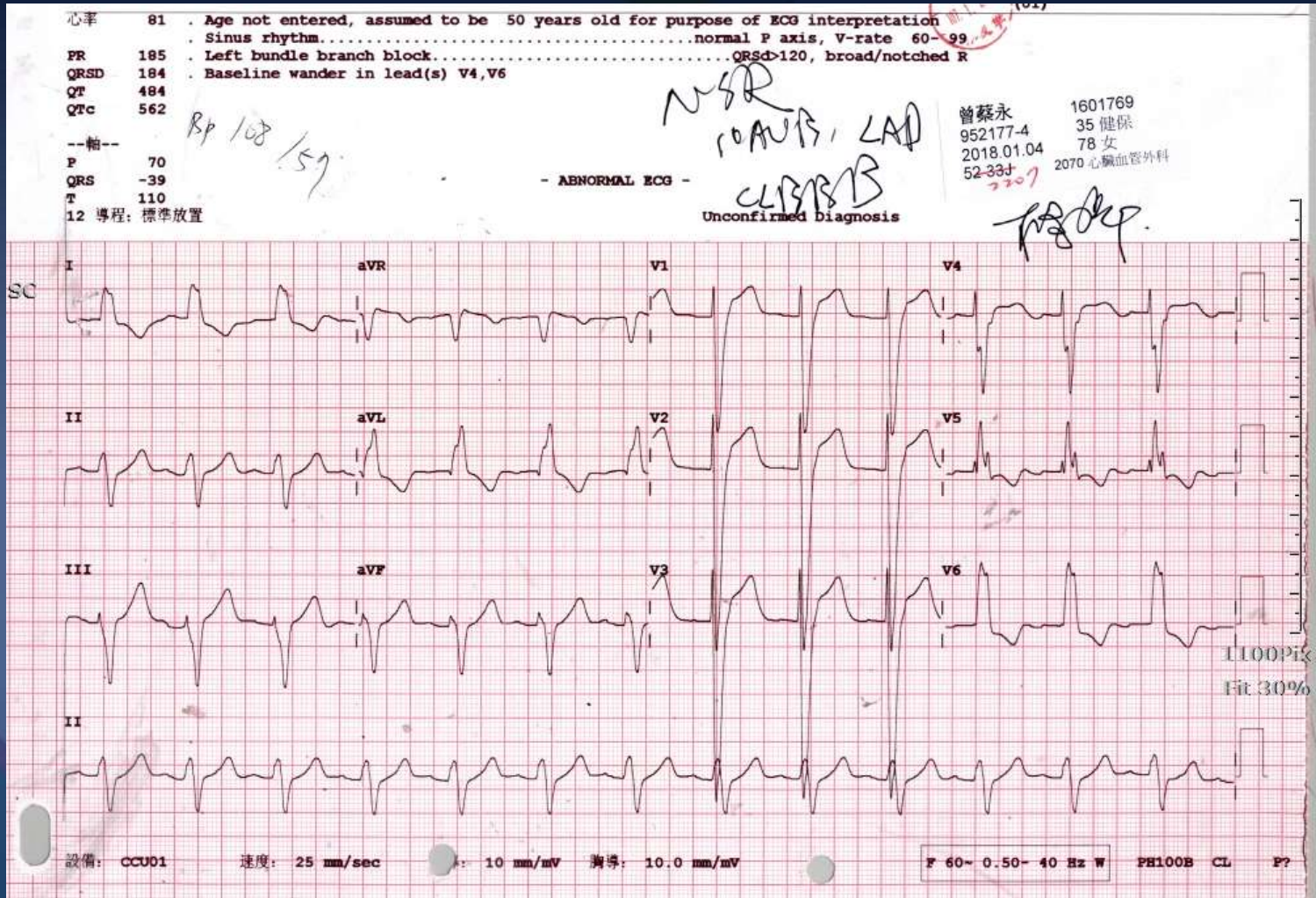
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- Age: 77 y/o, female
- Increasing shortness of breath for 2 months
- History of valvular heart disease with severe AS and MR, underwent AVR (Magna 19 mm) and MVR (Magna 25 mm) on Sep. 2013
- Past Hx: Hypertension, Hepatitis C
- PE: Regular heart beats, a GIII to-and fro murmur at aortic area and left sternal border
- ECG: Sinus rhythm, first degree AV block and CLBBB
- STS score: 11.9%
- Logistic Euroscore: 25%

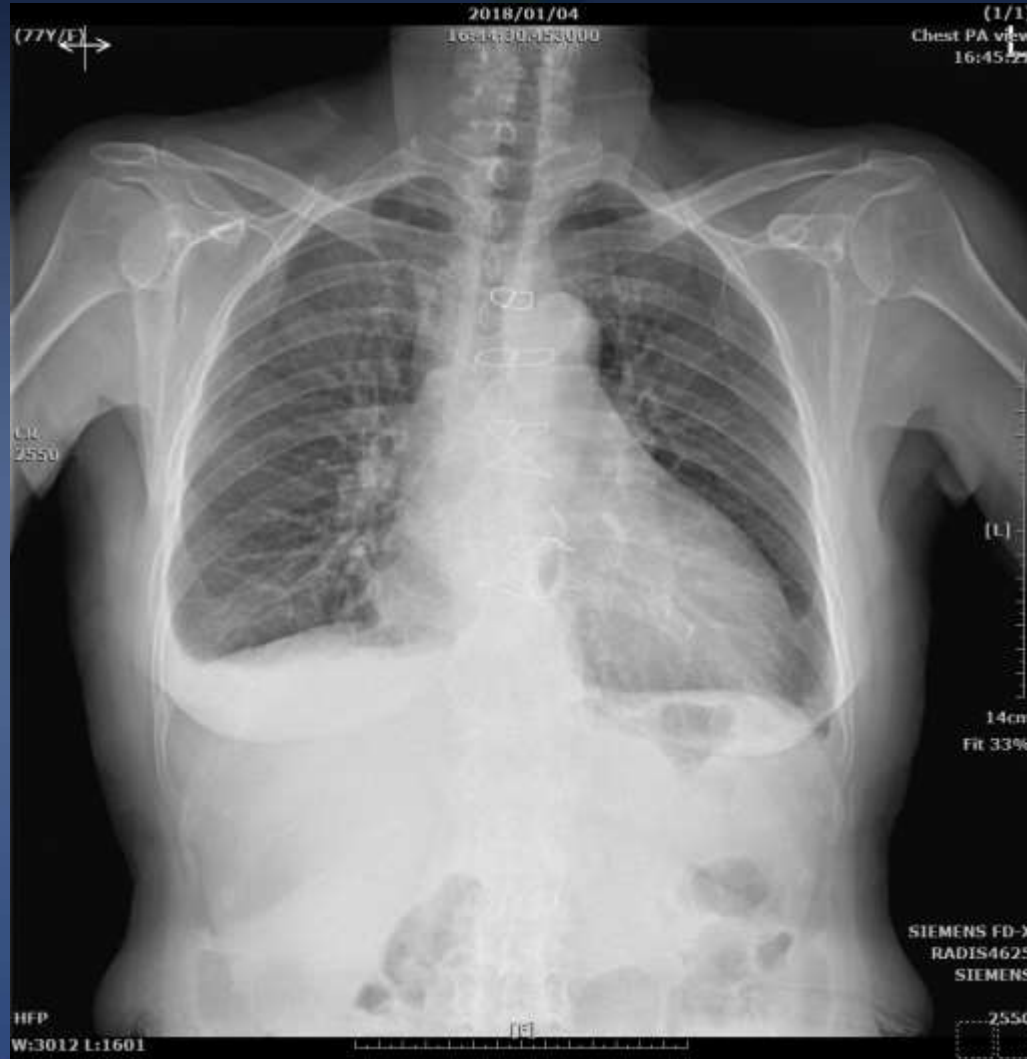
Lab Data

- BUN 32.5 mg/dL, Cr 1.39 mg/dL, GFR 39 ml/min/1.73m²
- GOT 108 IU/L, GPT 138 IU/L, anti-HCV: positive
- Na⁺: 130 mmol/L, K⁺: 4.7 mmol/L; Albumin: 3.5 g/dL
- Hb: 10.3 g/dL
- TSH: 1.310 uIU/mL (0.27-4.2)
FT4: 1.55 ng/dL (0.93-1.7)

ECG



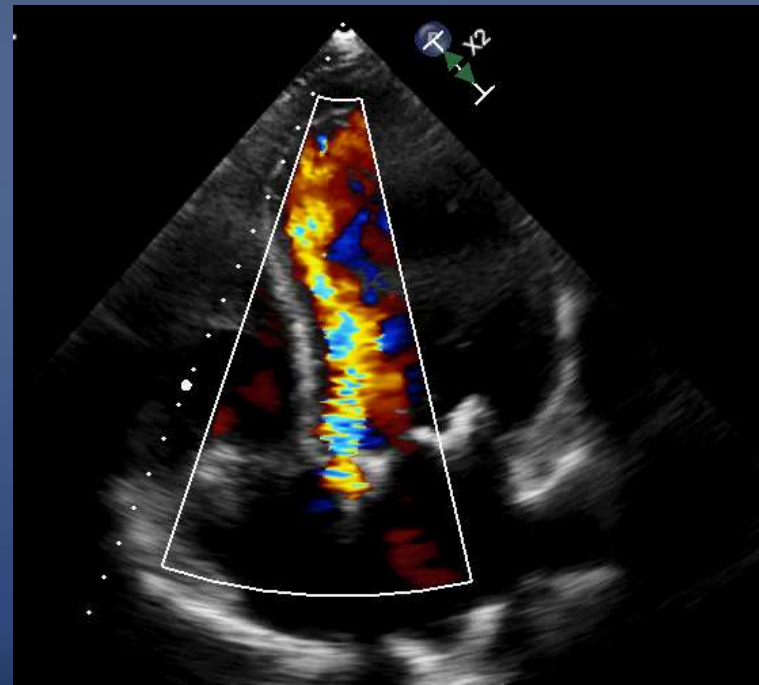
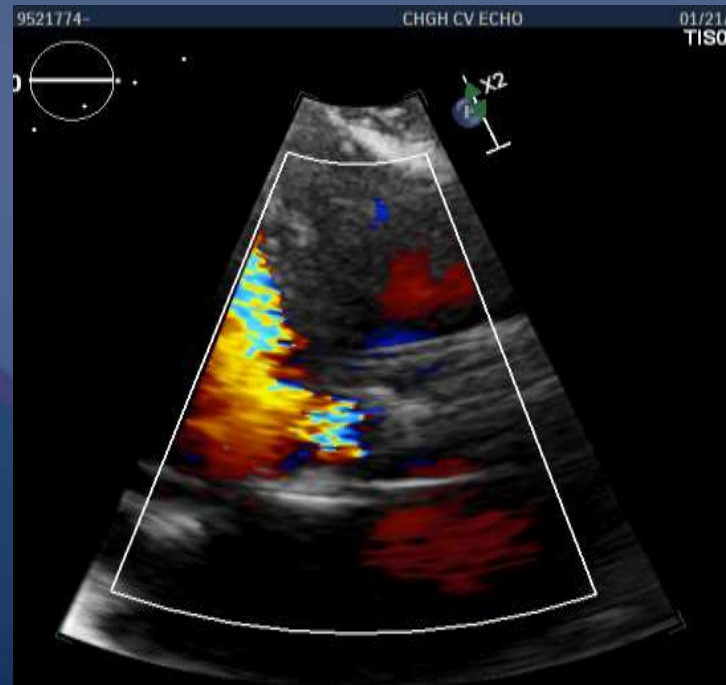
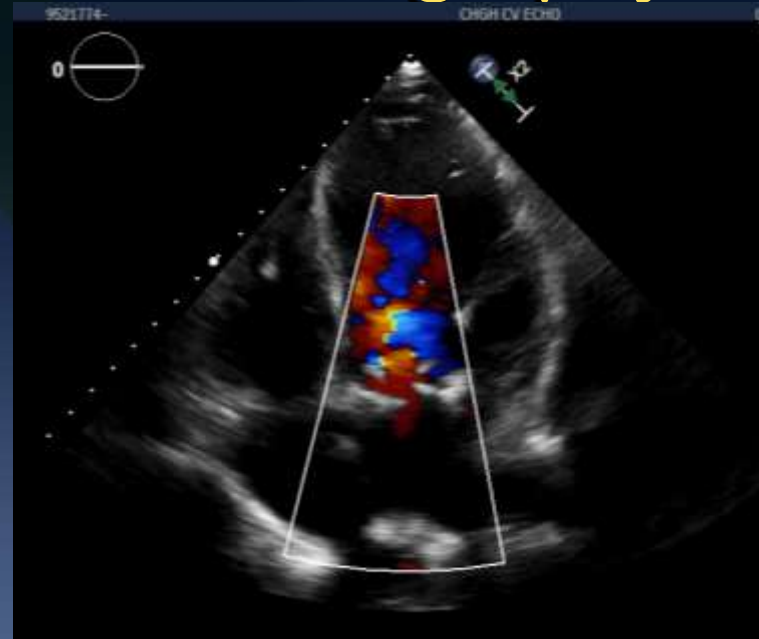
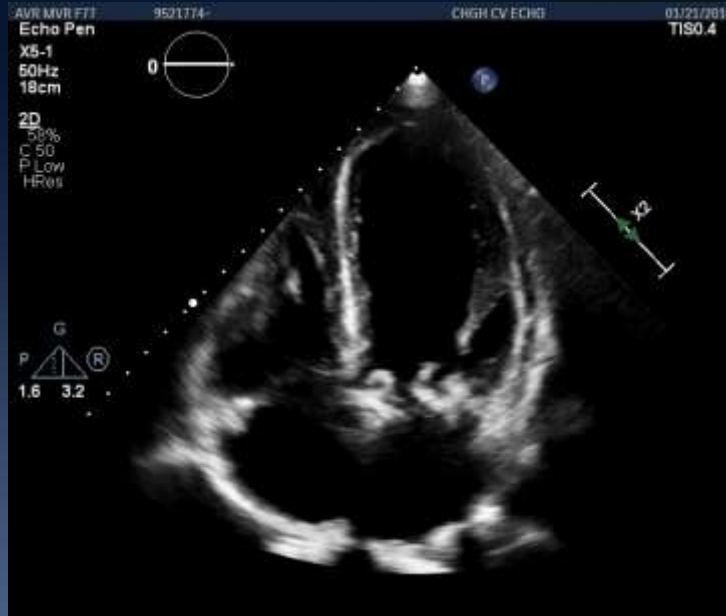
Chest Radiography



Transthoracic Echocardiography

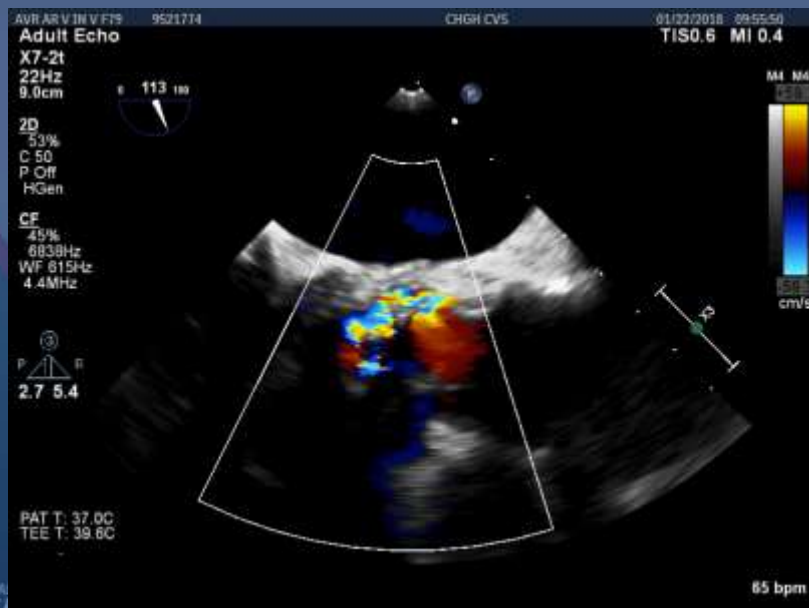
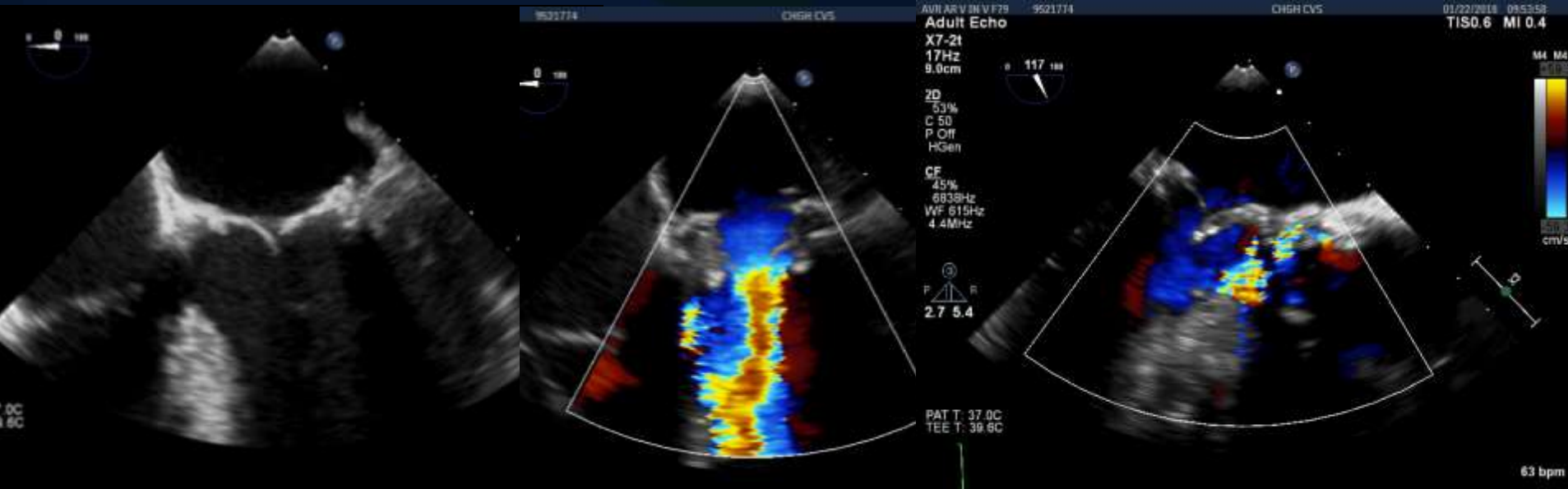
- Echocardiography:
 - LAE, RAE and LVH
 - Prosthetic aortic valve, PPG 31 mmHg, MPG 16 mmHg
 - Severe AR
 - LVEF 24%, RVEF 52%
 - Prosthetic MV, MVA 2.2 cm²
 - Severe TR, RVSP 56 mmHg
 - Moderate PR

Transthoracic Echocardiography



Transcatheter Aortic ViV on Jan. 22, 2018

Pre-Procedural TEE



BAV with NuCLEUS 20 mm balloon

