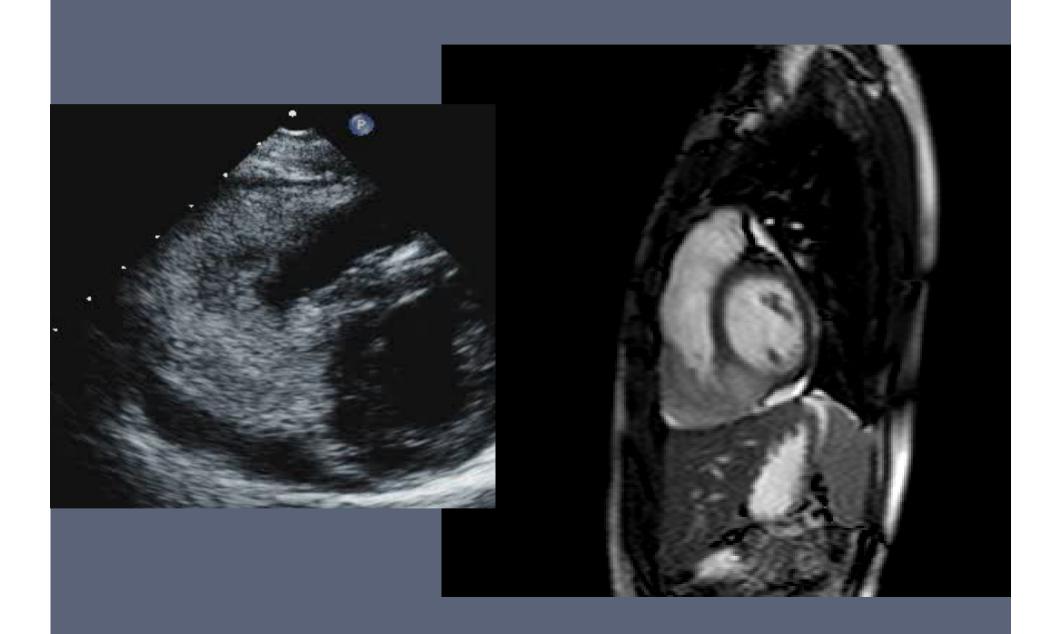
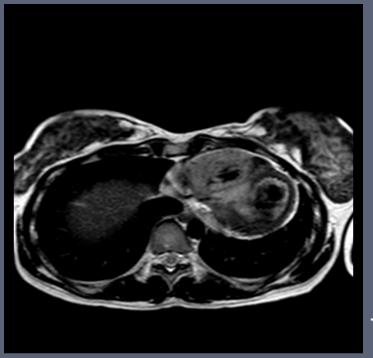
## **22yr / F**

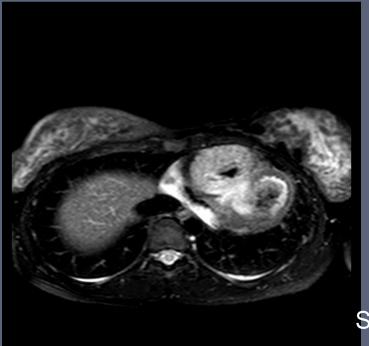
- C.C.: Chest pain for 5 years
- Anterior, mid-chest area
- Aggravated by exercise,Improved by resting
- Dizziness (+), Palpitation (+)



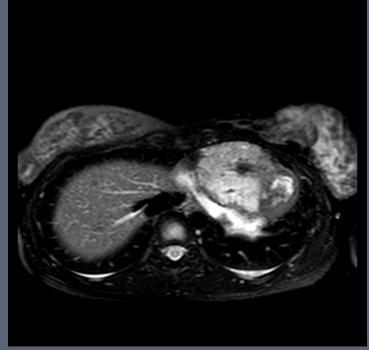


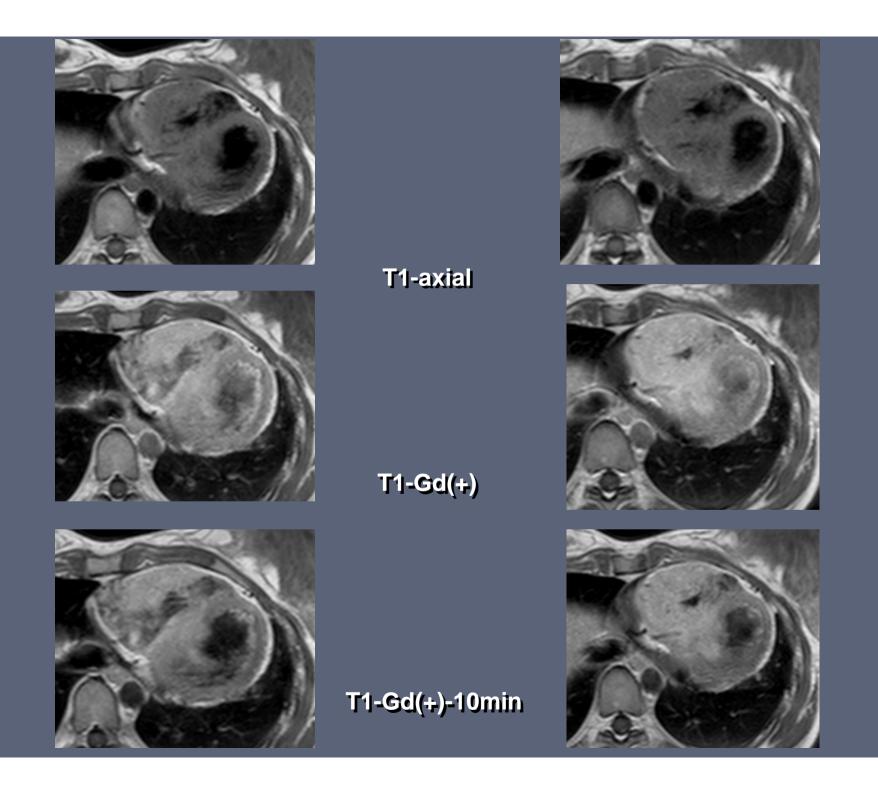


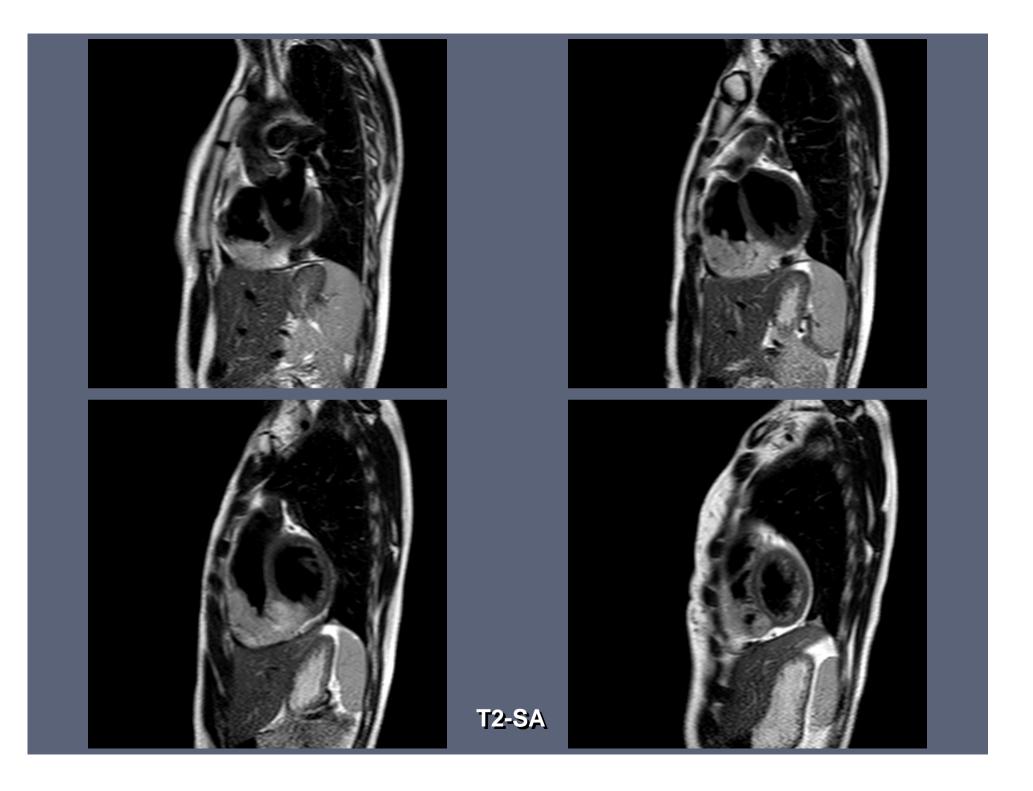












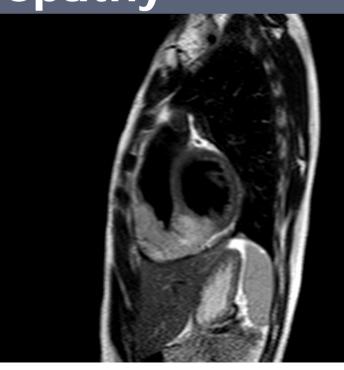
What do you have in your mind?

1.Lymphoma

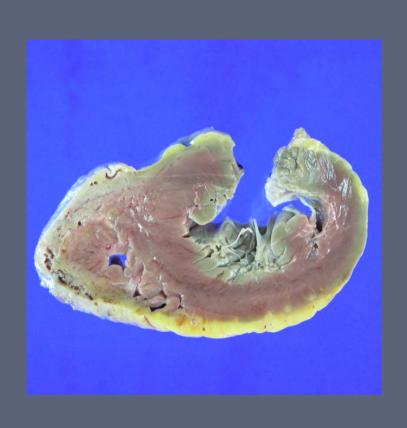
2. Hypertrophic Cardiomyopathy

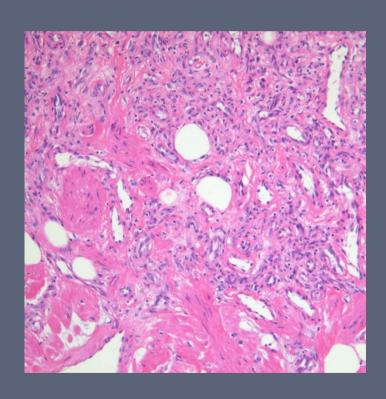
3.ARVD

4. Vascular Tumor



# Hemangioma





# DIAGNOSIS: Heart, transplantation: Capillary hemangioma, 7cm in greatest dimension, right ventricle, with 1) lipomatous fatty infiltration. 2) myocardial disarray.

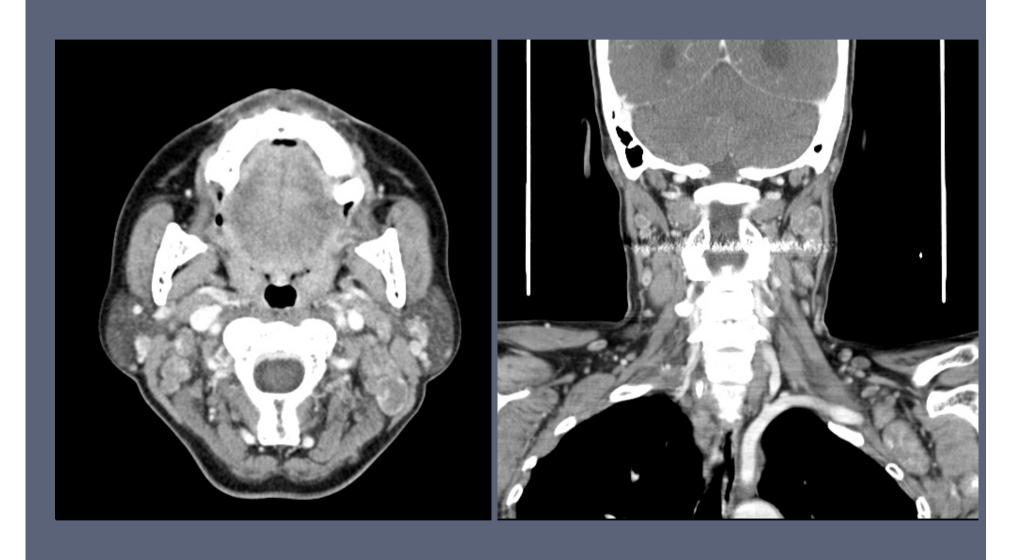
## Hemangioma

- 5-10% of benign tumor
- Any location of the heart
- At any age
- Shape
  - In myocardium: ill-defined, sponge-like
  - In endocardium: well-defined, myxoid
- Chance of spontaneous regression
- CT: Calcification in tumor
- MRI: T2 high, heterogeneous strong enhancement

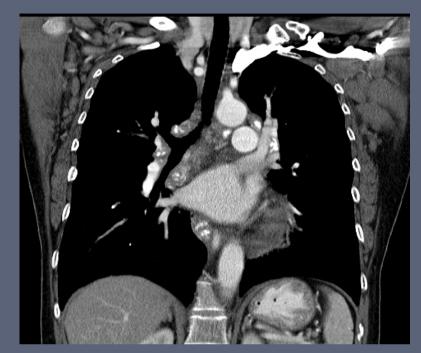
## 55yr / F

- C.C: palpable neck mass
- Past medical history:
  - 3 months ago → intraarterial thrombolytic therapy for acute infarction of left MCA territory

Presented by Joon Won Kang, Tae-Hwan Lim.
Ulsan University Asan Medical Center (AMC), Seoul, Korea

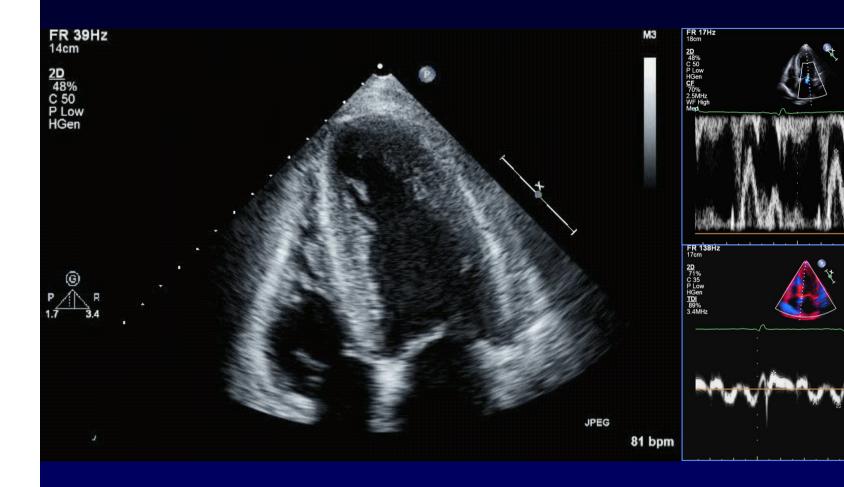












4 chamber view

Mitral inflow DT = 140ms E/E' = 21

Vel 48.1 cm/s
 PG 1 mmHg
 Vmax 81.8 cm/s
 Time 140 ms

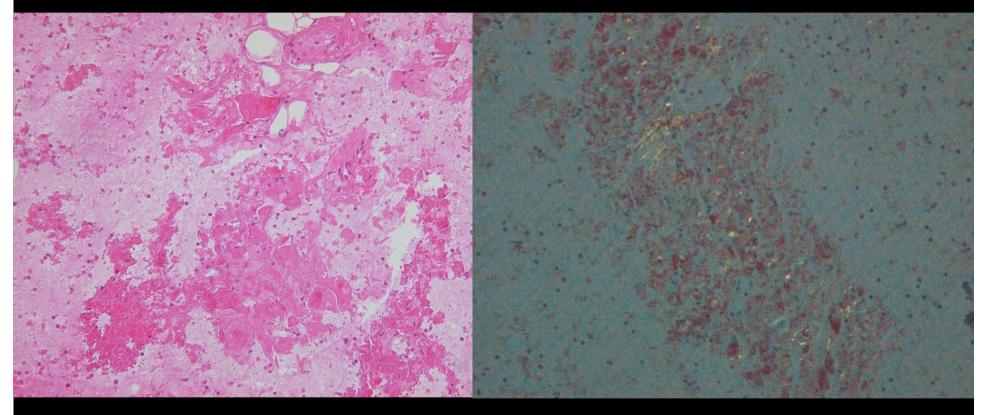
Vel 5.17 cm/s
 PG 0 mmHg
 Vel 4.09 cm/s
 PG 0 mmHg
 Vel 5.17 cm/s
 PG 0 mmHg

T2WI T1WI Delayed-enhancement

## Answer

## **Amyloidosis**

#### Biopsy from axillary lymph node



#### H & E stain

Pinkish fine granular or glassy pettern of amorphous hyalinized material

### Congo red stain

Apple green color of birefringence -> amyloid deposit

## Amyloidosis

- Abnormal extracellular deposition and accumulation of protein and protein derivatives
- Diagnosis
  - Congo red staining
  - 'Apple green birefringence' under polarized light
- Classification
  - Primary (underlying plasma cell disorder or no associated disease)
     VS. Secondary (underlying chronic abnormality)
  - Systemic vs. localized
  - Type of deposited amyloid (Ig light chains, AL)

## **Amyloidosis**

- Lymph node involvement
  - Up to 37% of systemic amyloidosis
- Punctuate calcification in 50% of amyloid LNs
  - Tuberculosis
  - Sarcoidosis
  - Castleman's disease
  - Amyloidosis

- Scleroderma
- Metastasis
- Hodgkin's disease after irradiation