

Surgery for Cardiac Tumors and Pericardial Disease

Jung-Hwan Kim

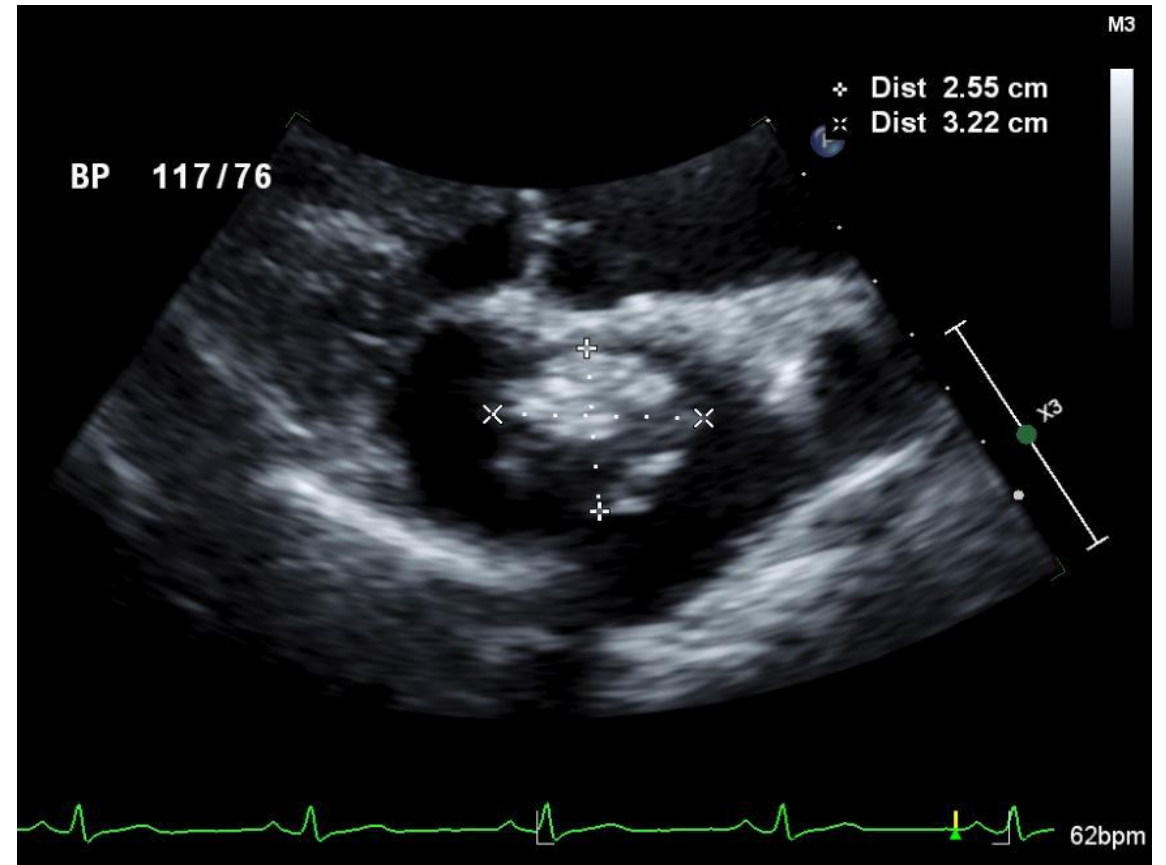
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Severance

Cardiac tumors

Case

- 62세 여자환자가 심초음파상 이상소견으로 내원하였다. 환자는 2년전 Breast cancer로 수술 및 항암치료 받은 과거력이 있었다. 그리고 1년전 뇌경색 진단받았고, 2개월 전 뇌경색 재발하였다. CT와 심장초음파 결과이다. 가장 가능성 높은 진단은?



Cardiac tumors

Table 1. Cardiac tumors

Metastatic tumors		Benign primary cardiac tumors (80%)
Lung		Myxoma
Hematologic		Lipoma
Breast		Fibroelastoma
Esophageal		Rhabdomyoma
Skin		Fibroma
Stomach		Angioma
Renal cell		Teratoma
Hepatocellular		Cystic tumor
Sarcoma		Paraganglioma
		Malignant primary cardiac tumors (20%)
		Angiosarcoma
		Rhabdomyosarcoma
		Mesothelioma

**they are more frequently
visualized during autopsy due
to nonspecific findings**

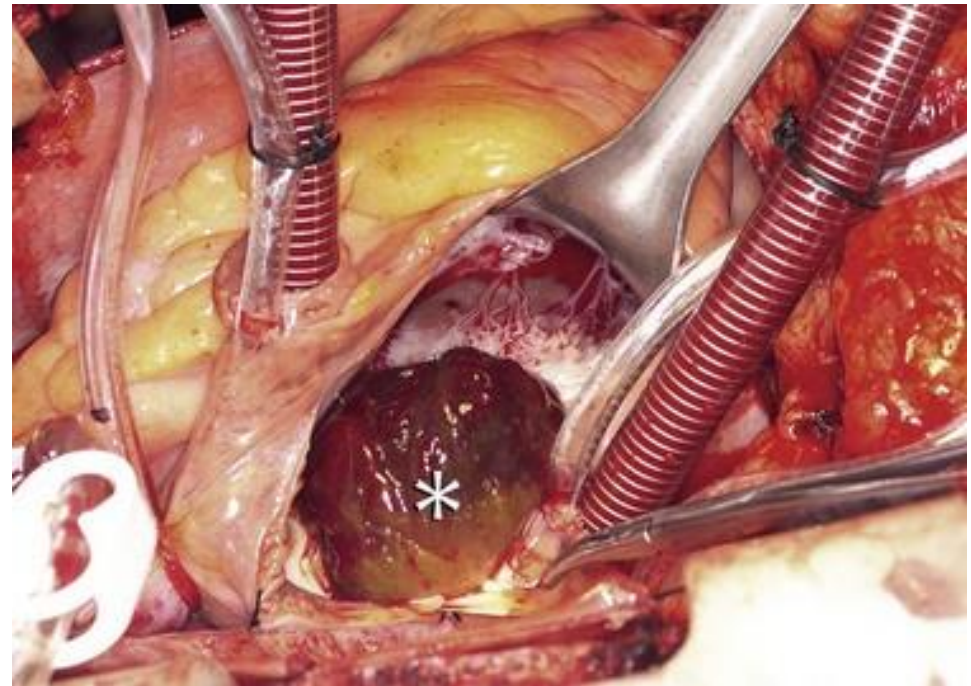
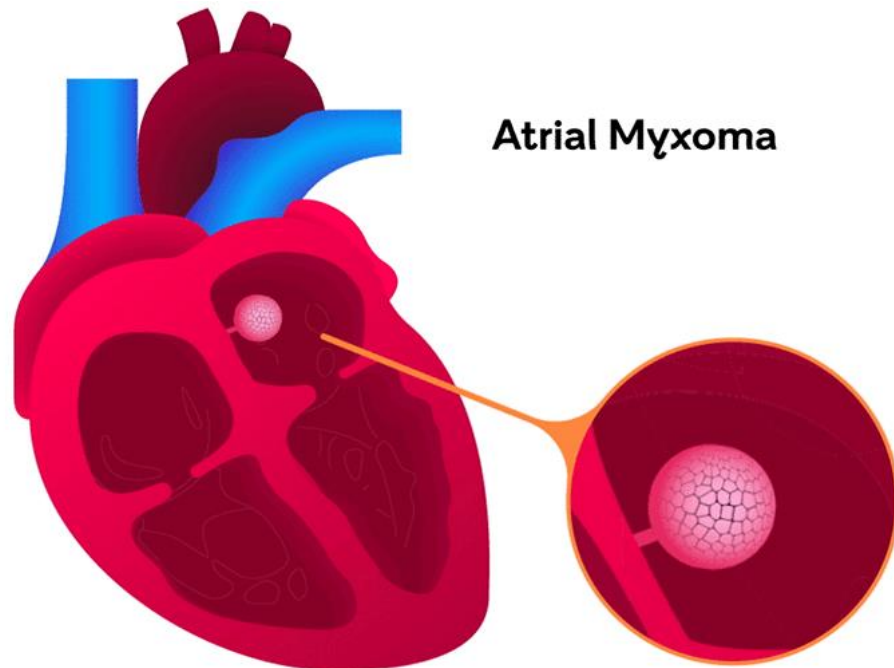
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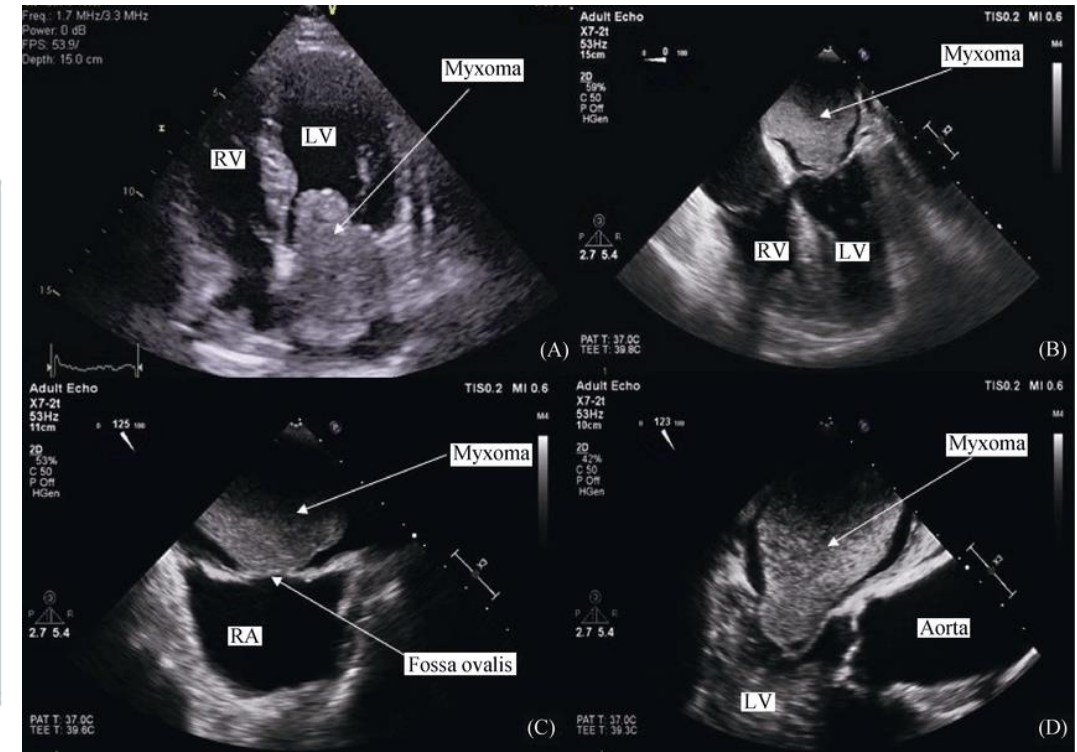
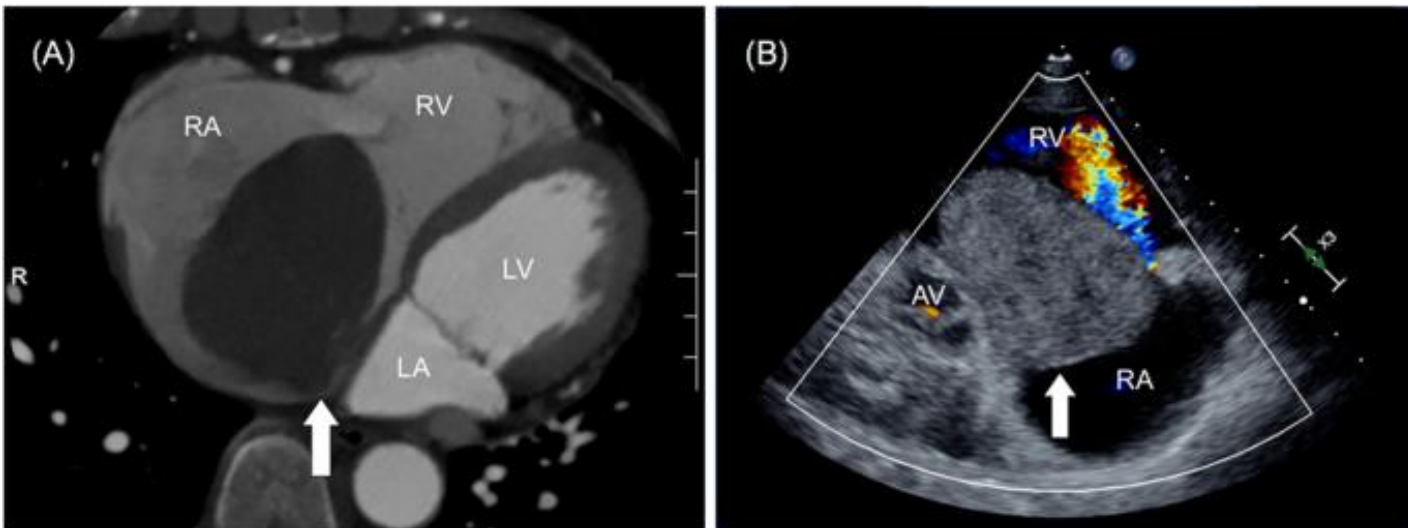
Myxoma

- Most common (~50%)
- Women, 30-60 years old
- Interatrial septum of the LA (fossa ovalis) (75%)
- Polypoid and round/oval with a smooth or gently lobulated



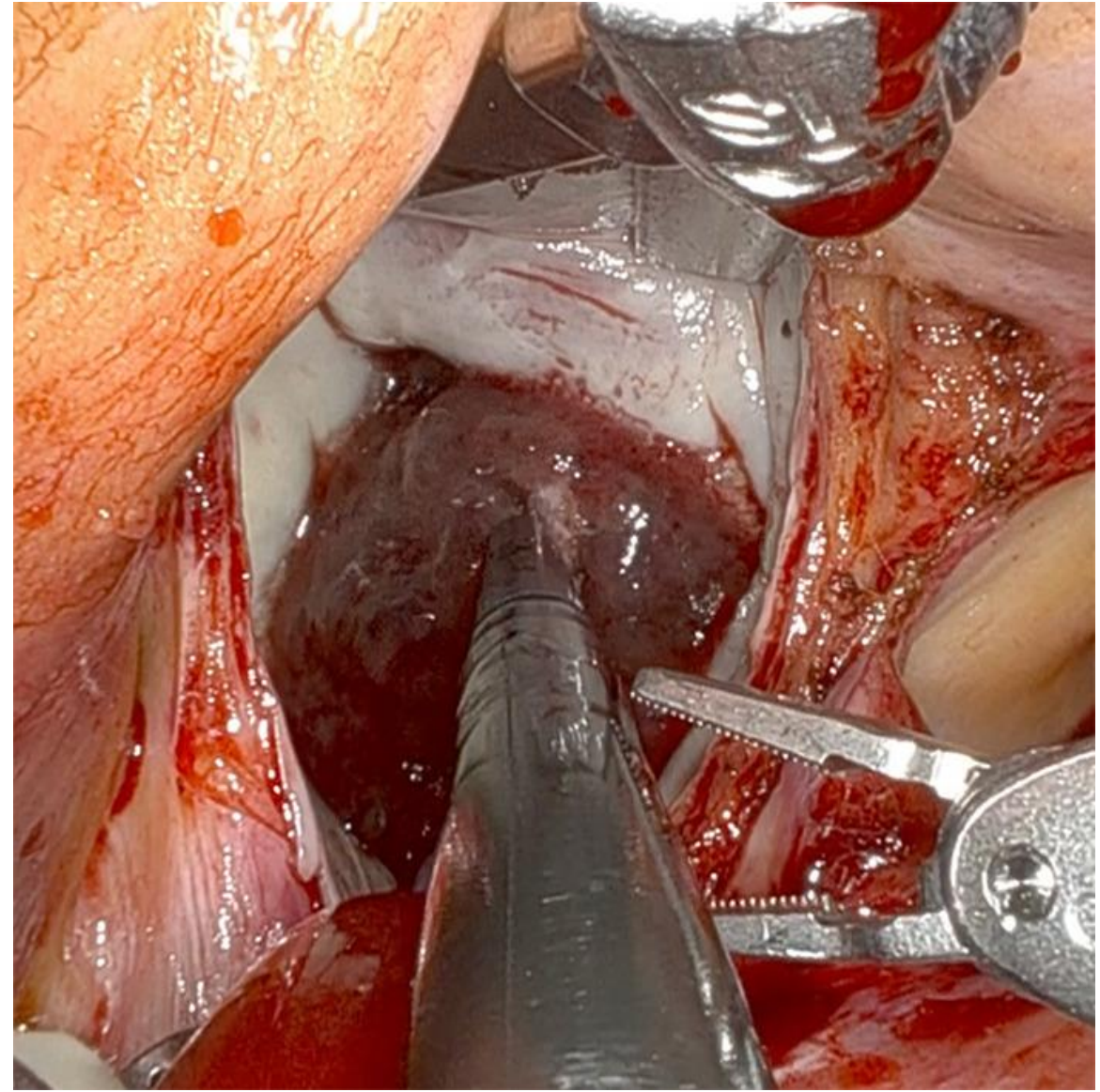
Myxoma

- Asymptomatic
- Obstruction
 - dyspnea, heart murmurs, chest pain
- Embolization
 - stroke, myocardial infarction, peripheral embolization



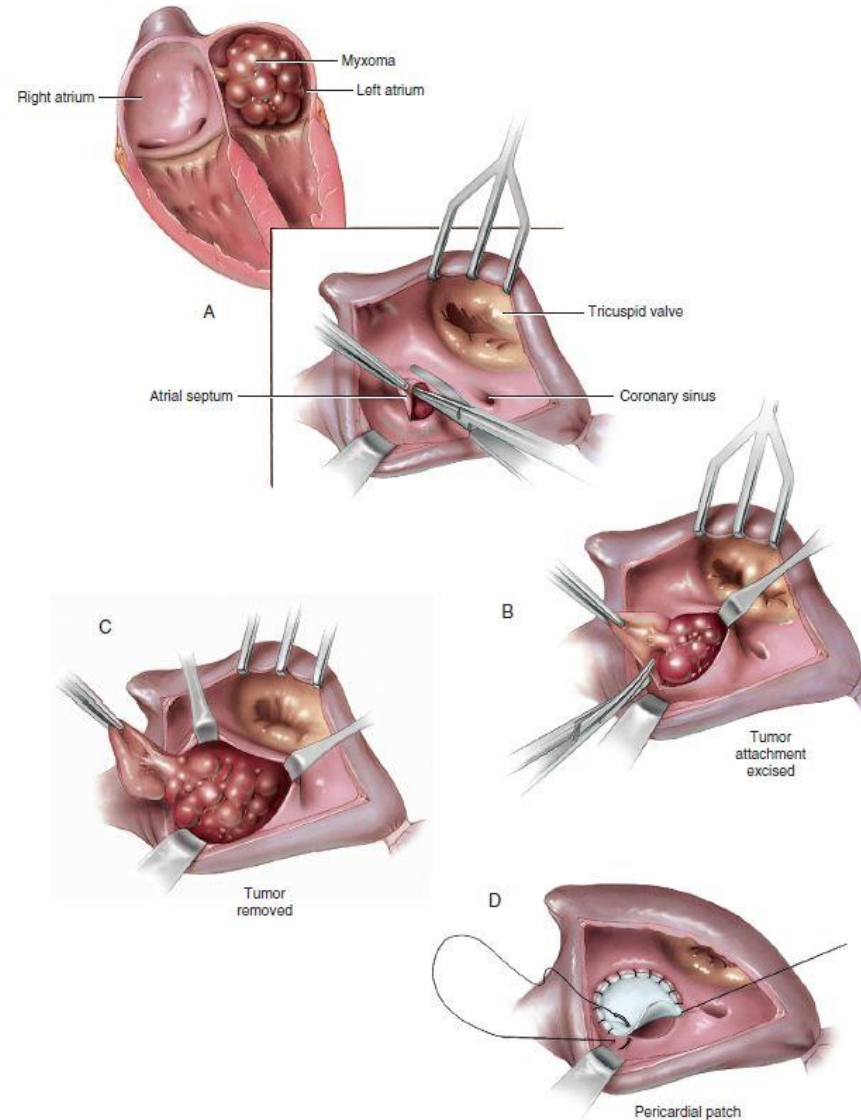
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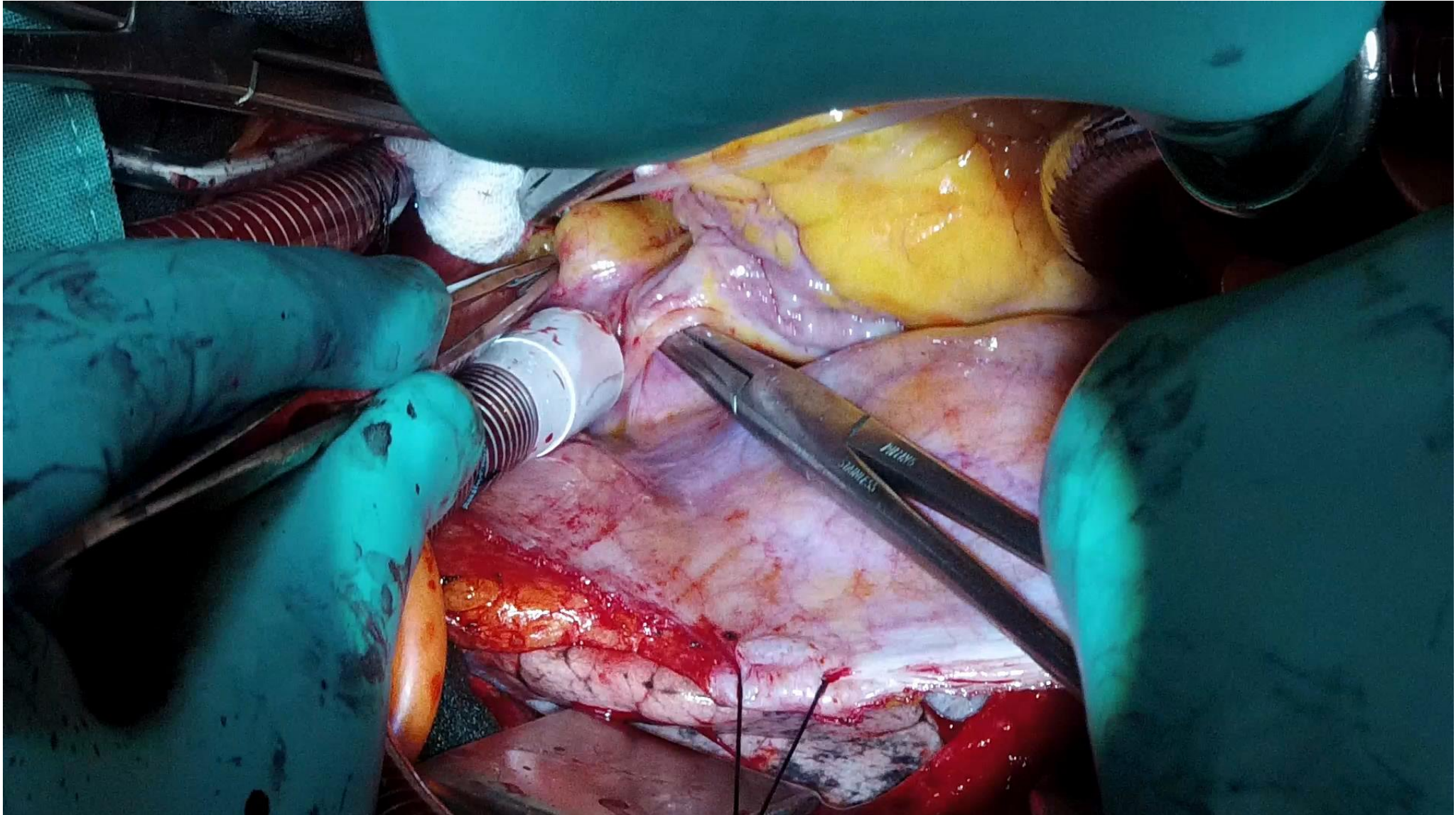


Surgical technique of LA myxoma excision

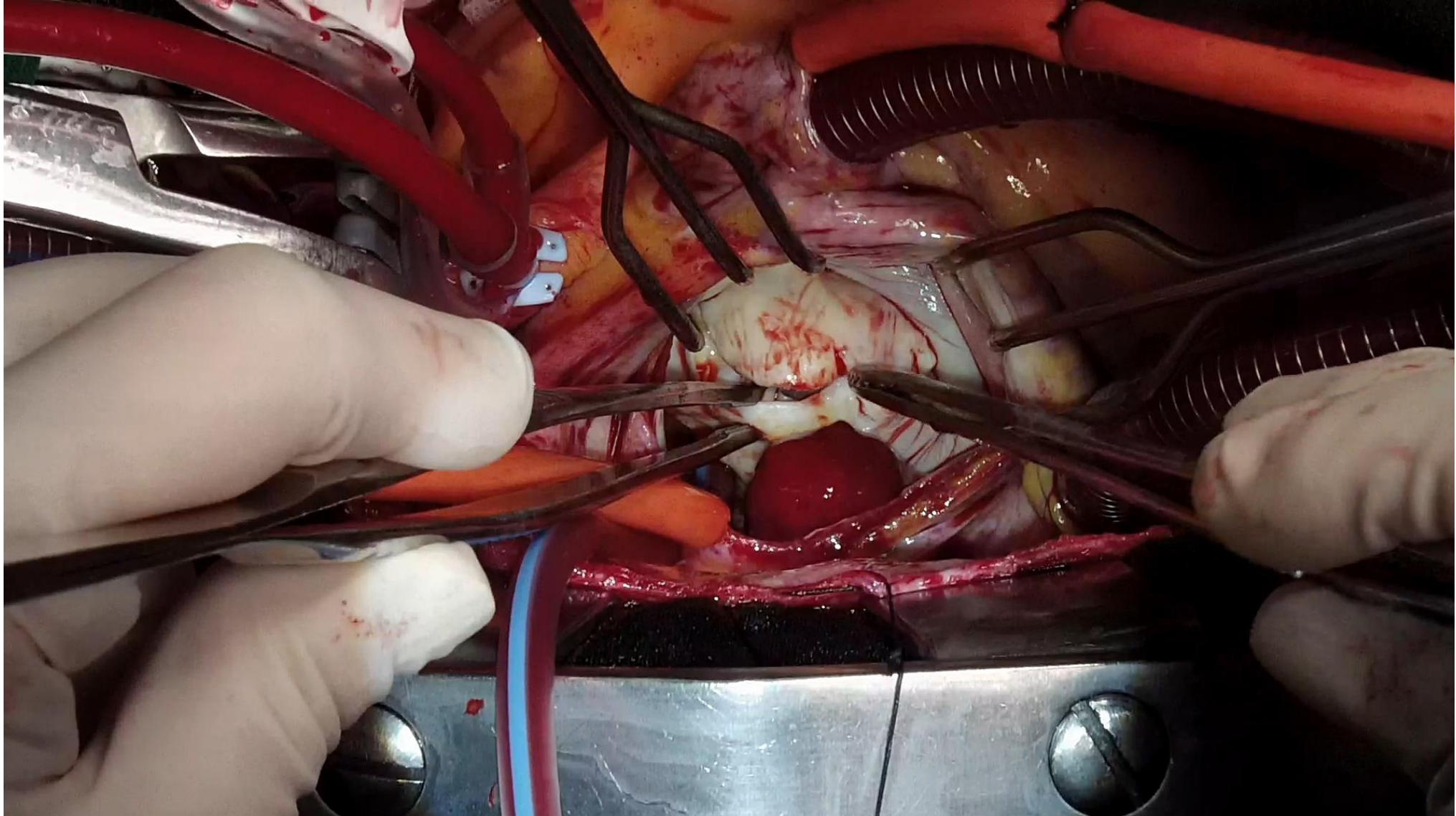
Trans-septal approach



Surgical technique of LA myxoma excision: Trans-septal

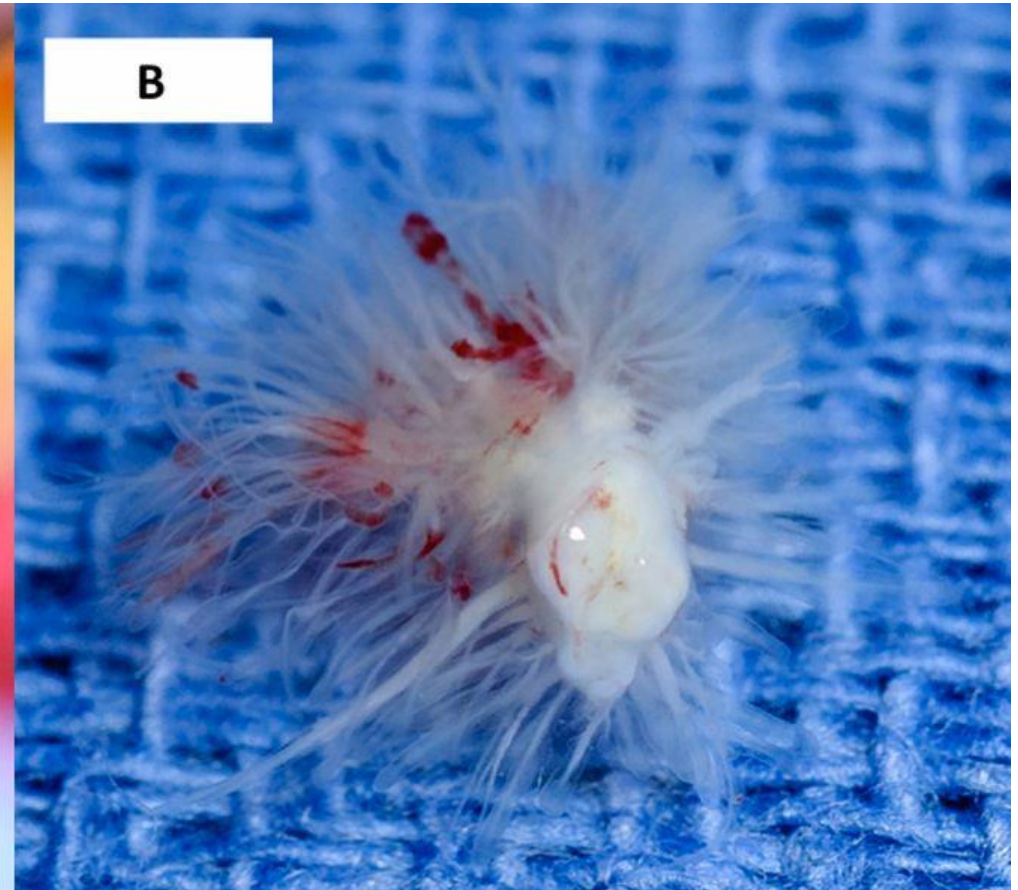
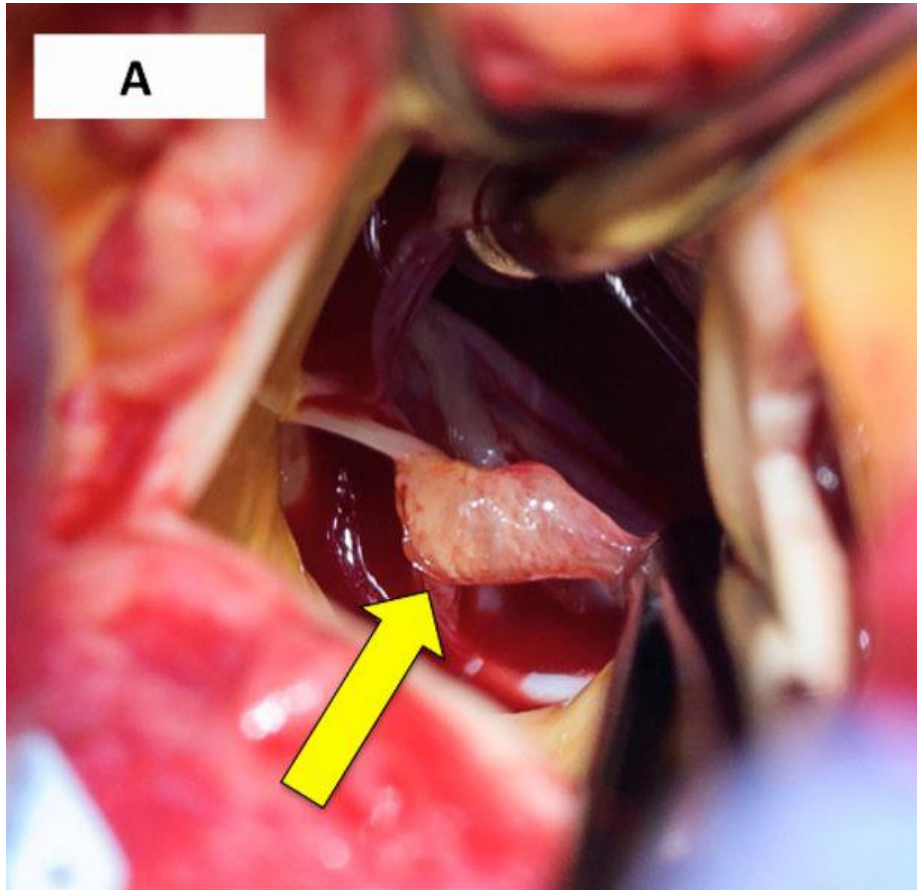


Surgical technique of LA myxoma excision: LA tomy



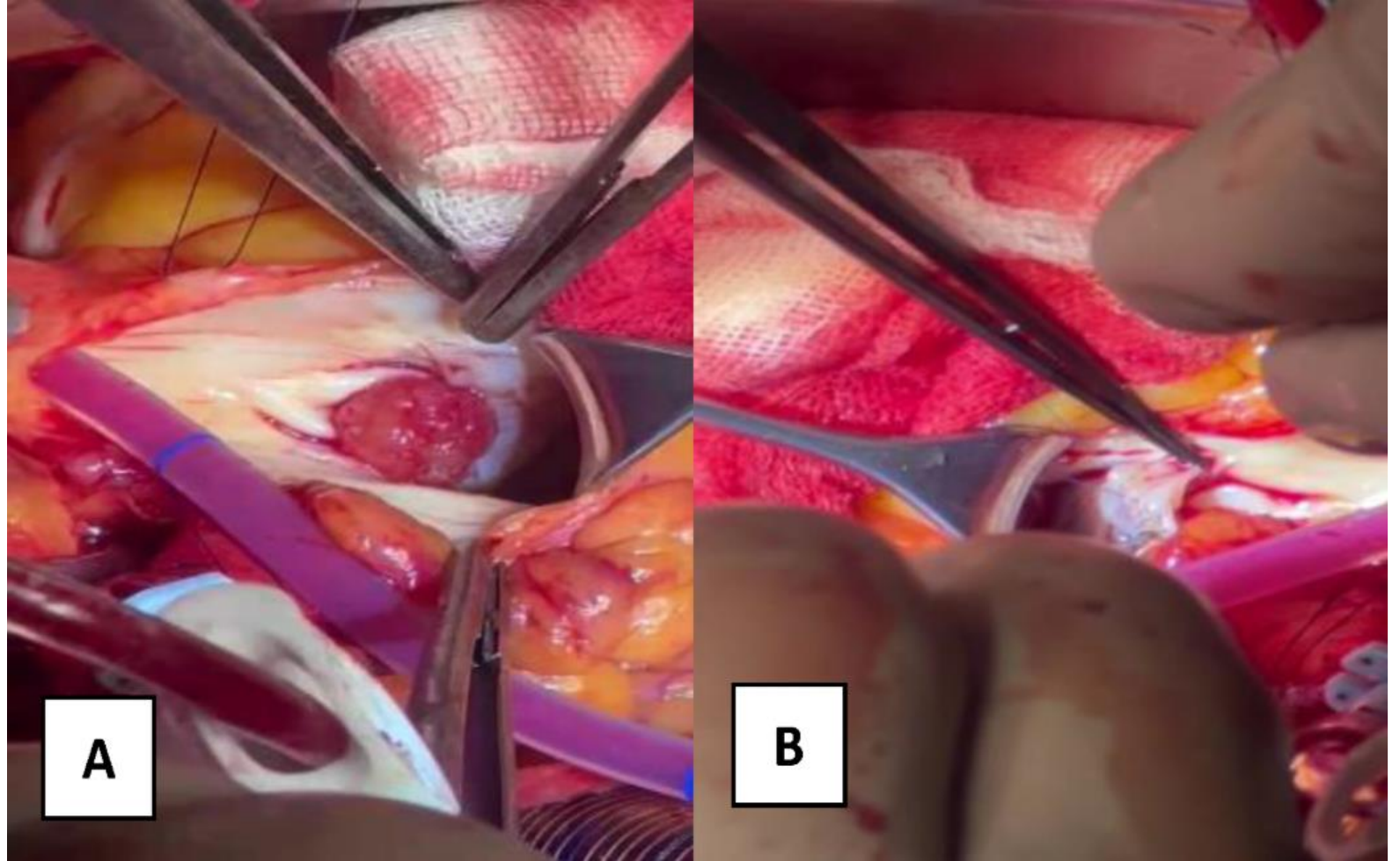
Papillary Fibroelastoma

- Valvular mass
 - Aortic valve (m/c)
- Embolism



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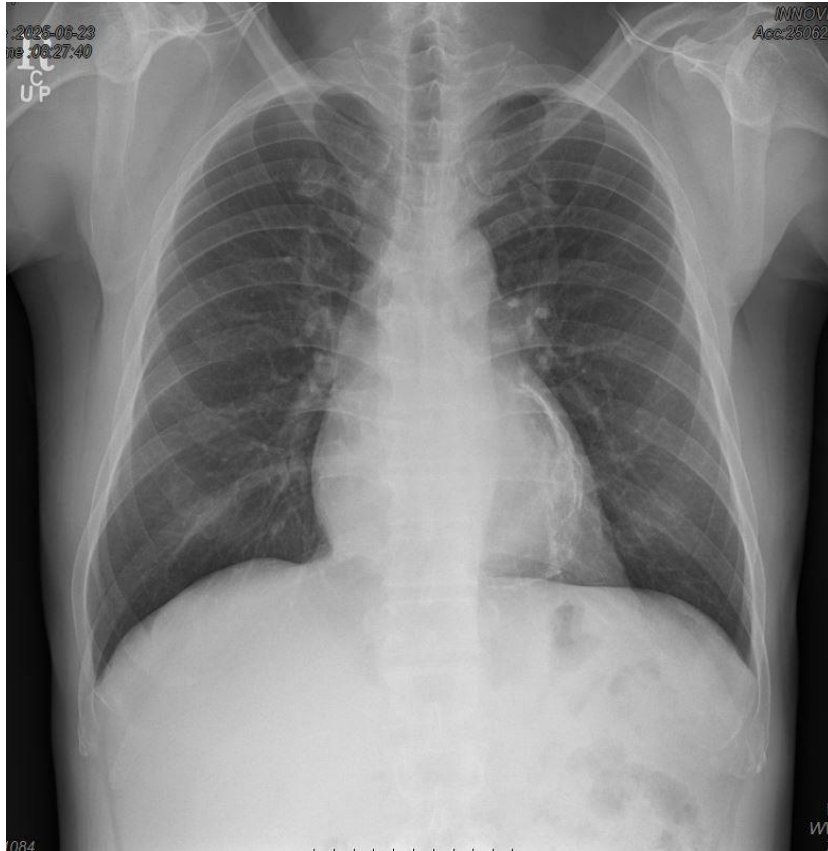
Primary benign cardiac tumors

Tumors	Characteristics
Primary benign	Myxoma: most common type of primary cardiac tumor, 30-60-year-old women, interatrial septum of the left atrium, polypoid and round, surgery is the first line treatment
	Rhabdomyoma: most common cardiac tumor in children, involving the myocardium of both ventricles and interventricular septum, may regress spontaneously, surgical treatment
	Papillary fibroelastoma: small, round pedunculated valvular mass with multiple projections, most commonly in aortic valve, risk for embolic events, surgical treatment
	Fibroma: commonly affecting infants and children, solitary mass, free wall of the left ventricle and ventricular septum, surgical treatment, present in Gorlin-Goltz syndrome
	Lipoma: derived from mature adipocytes enclosed by a collagenous capsule, frequently involving the endocardium of right atrium, left ventricle and pericardium, surgical treatment
	Hemangioma: proliferation of endothelial cells, leading to an increase in vascularization, most common location in right atrium, surgery usually is the first choice of treatment

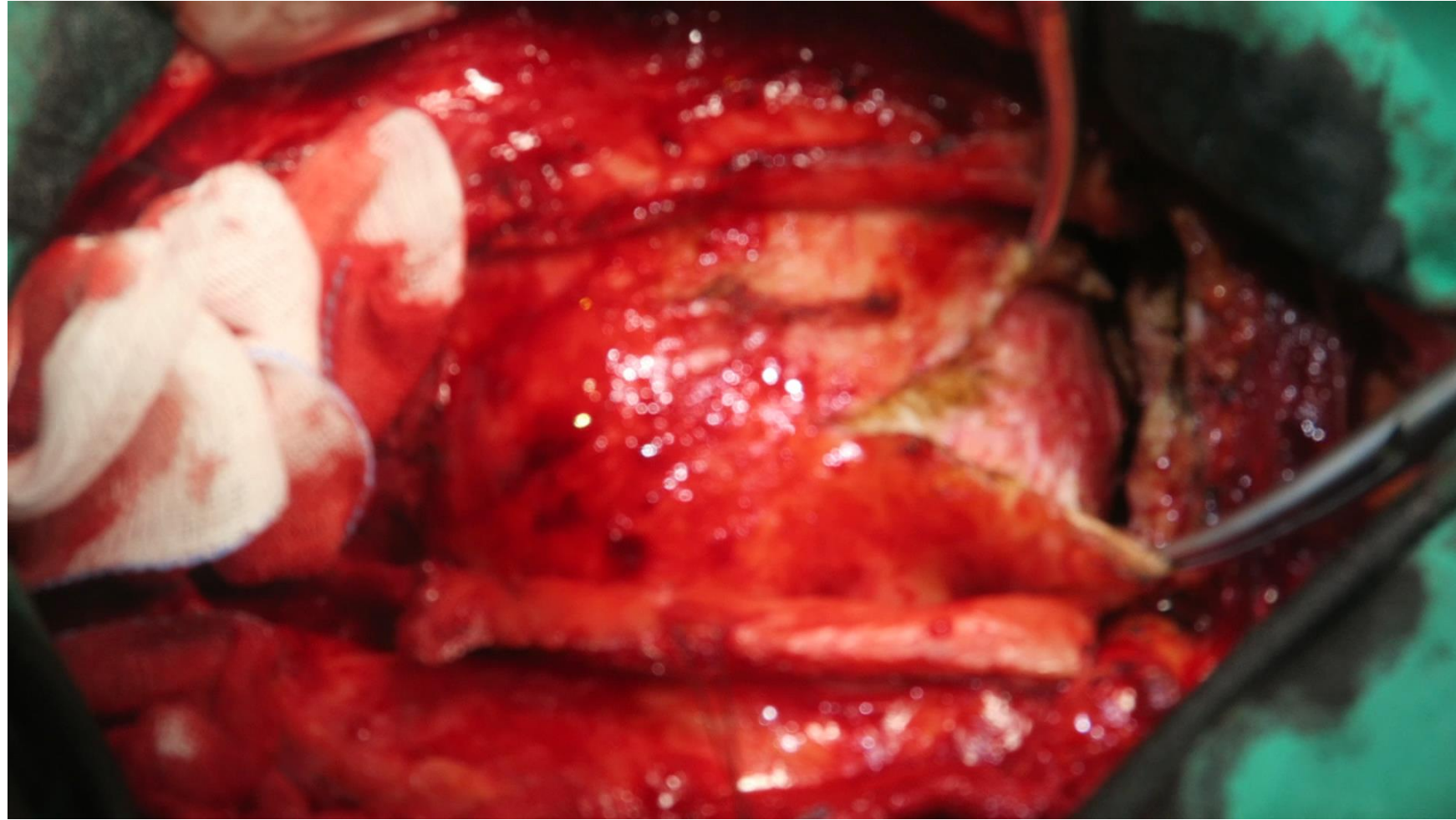
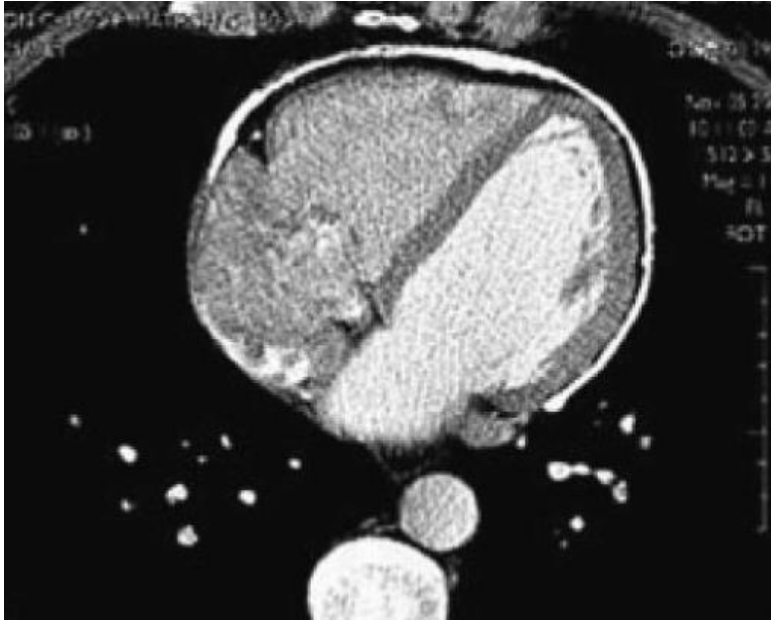
Pericardial disease

Case

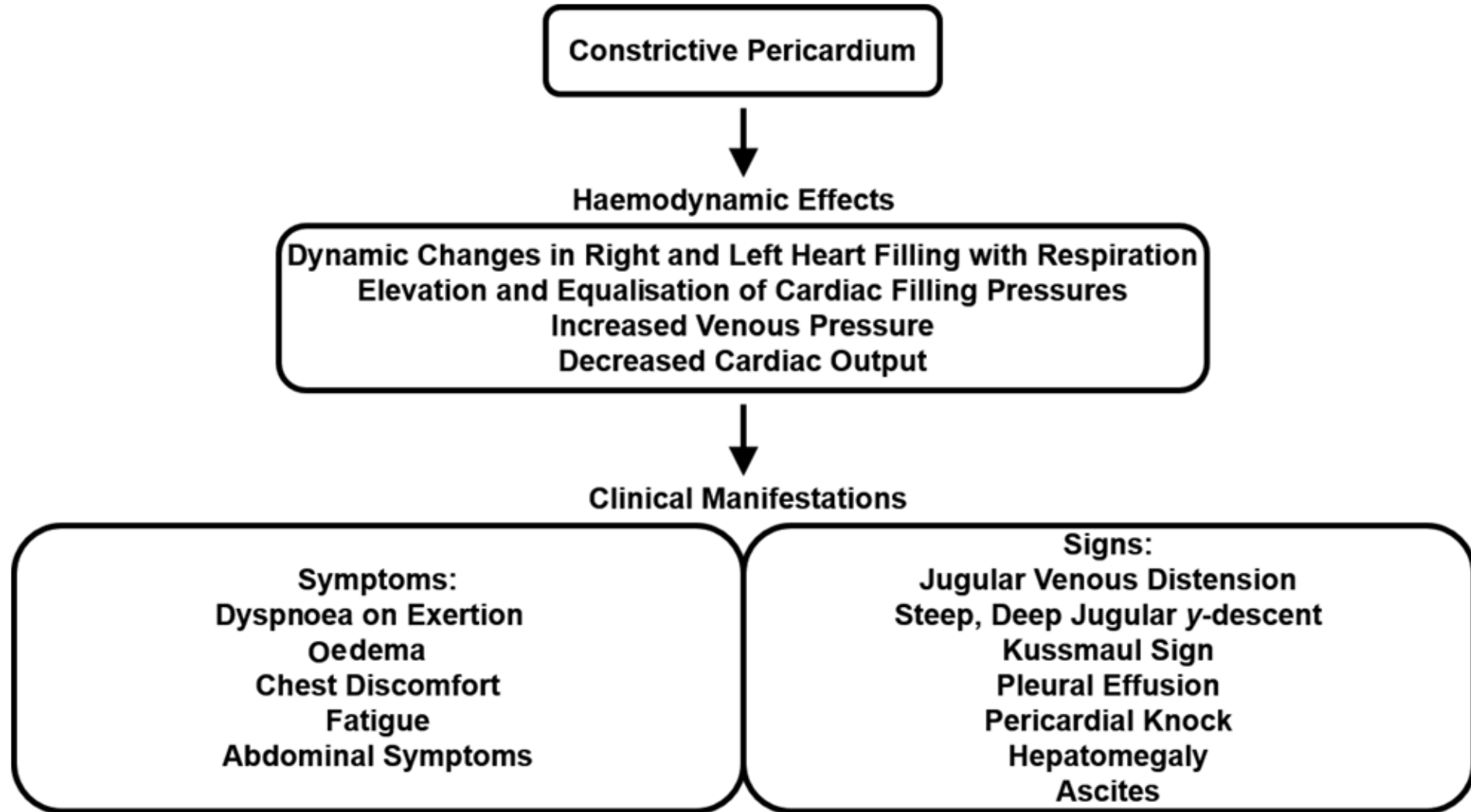
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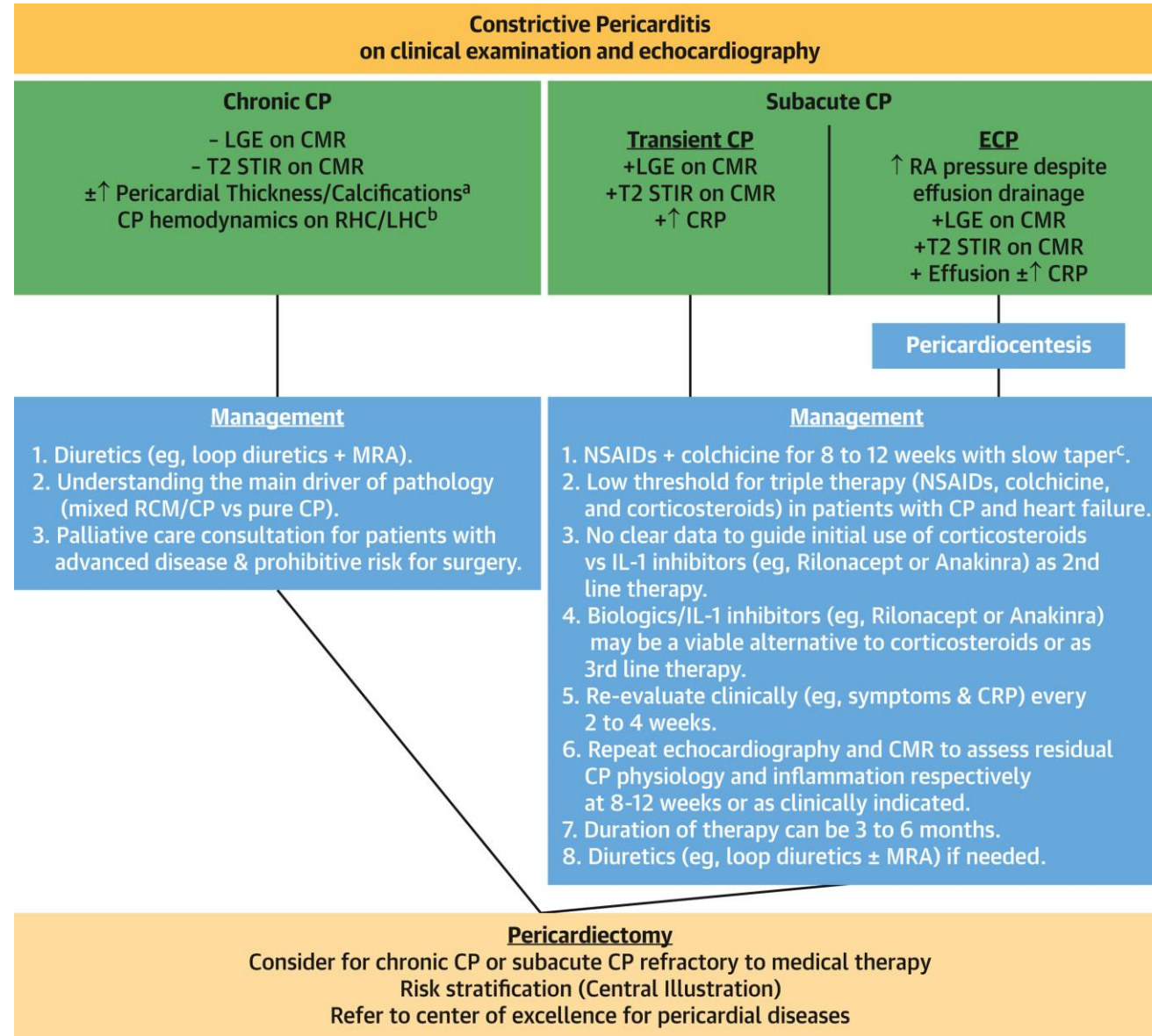
Constrictive pericarditis



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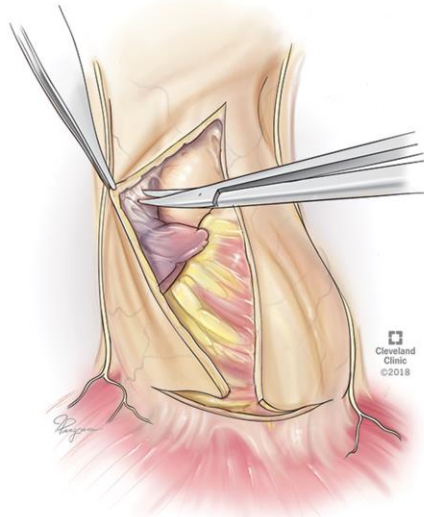


Constrictive pericarditis

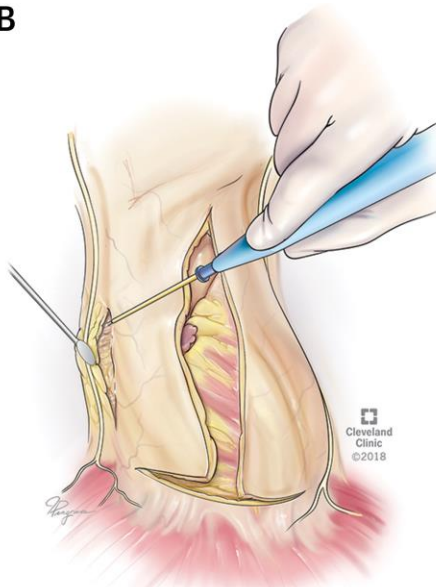


Radical pericardiectomy

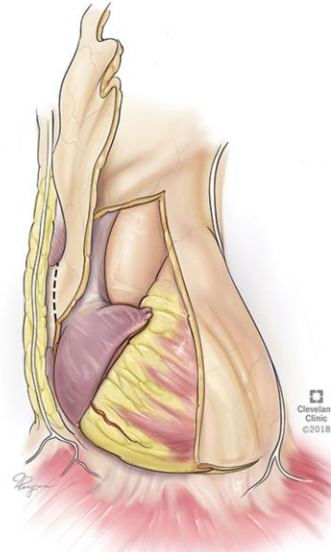
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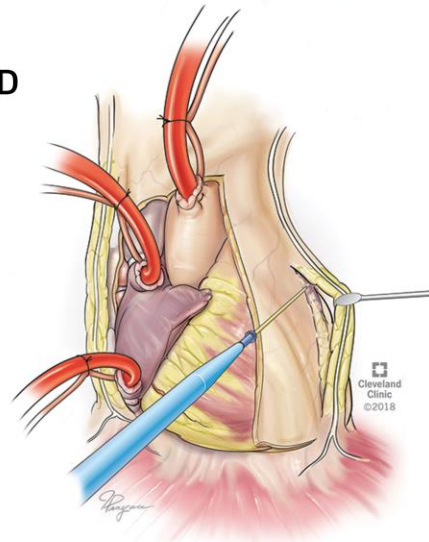
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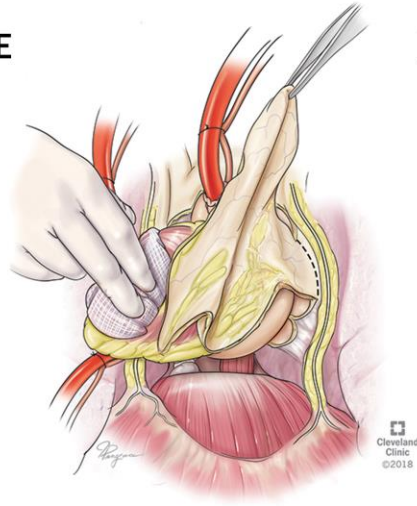
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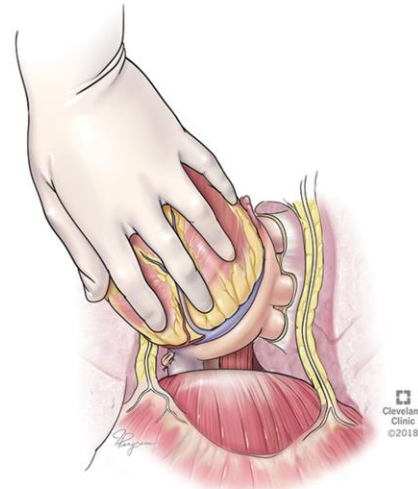
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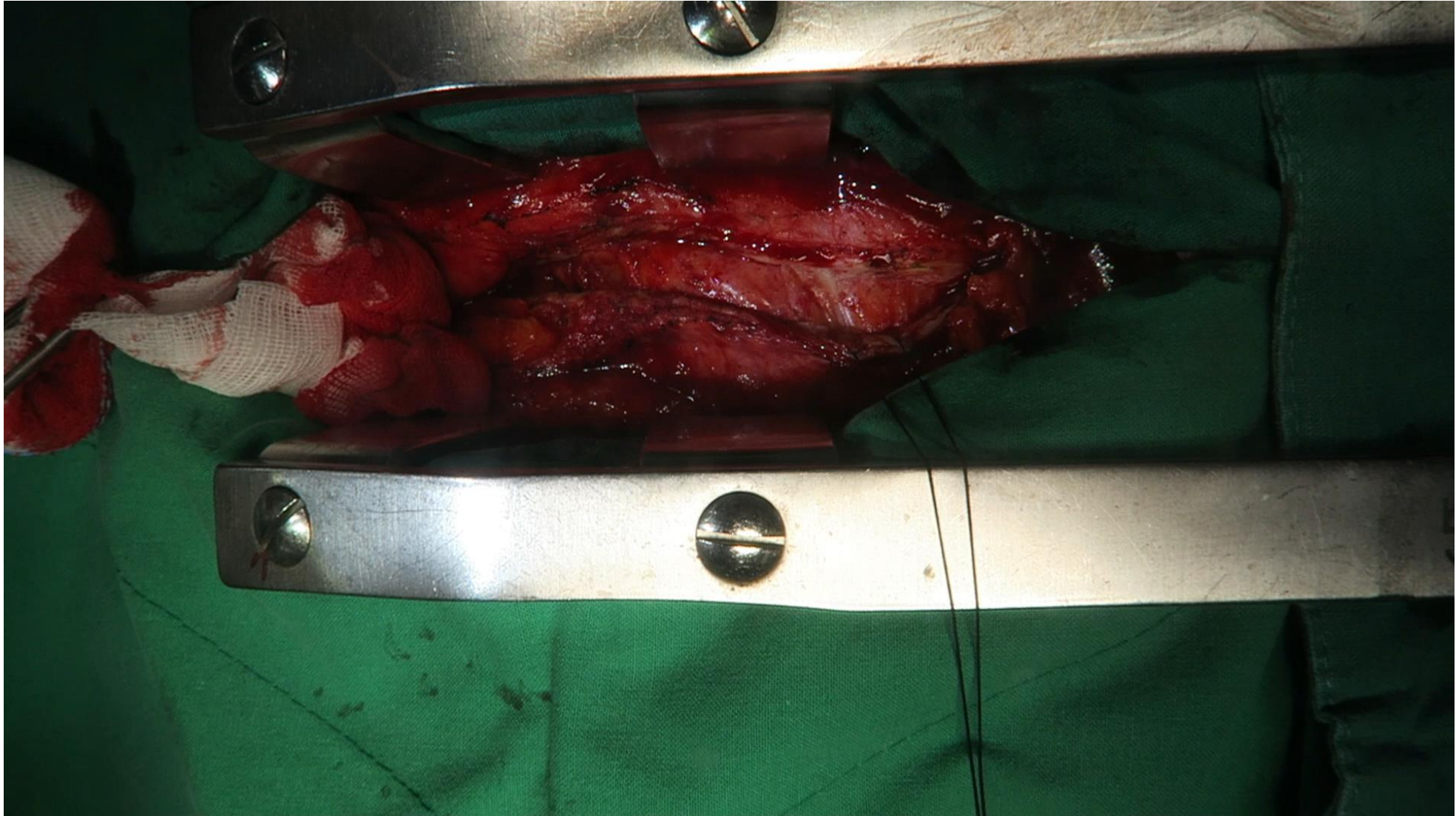
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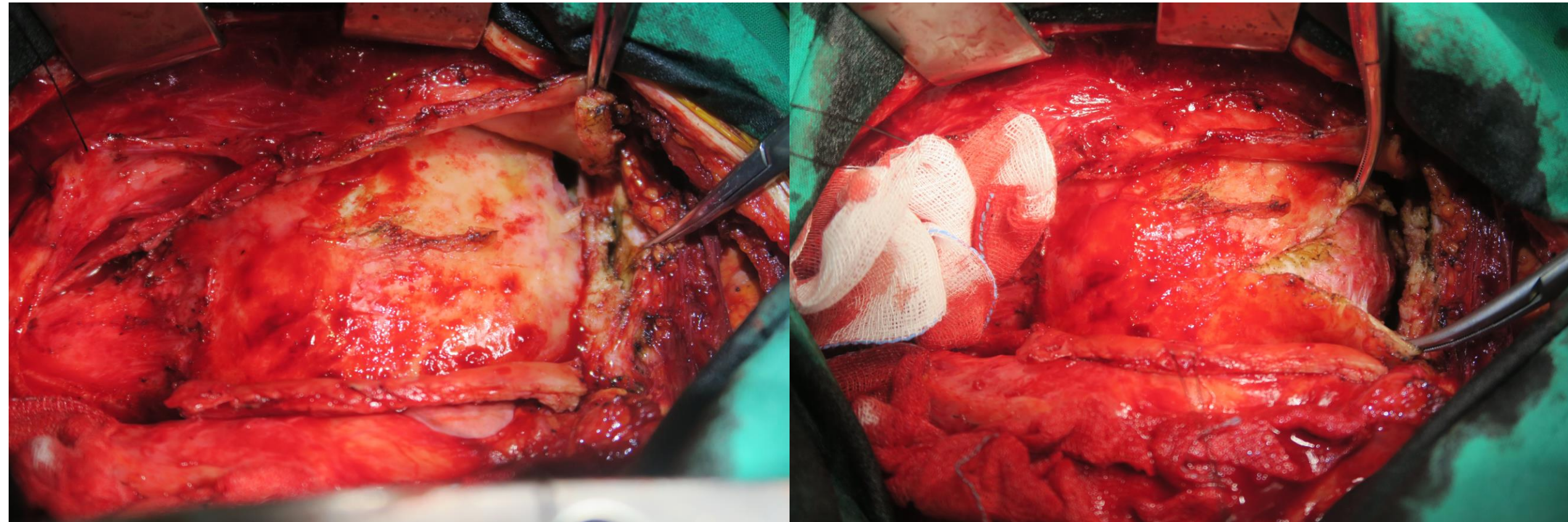
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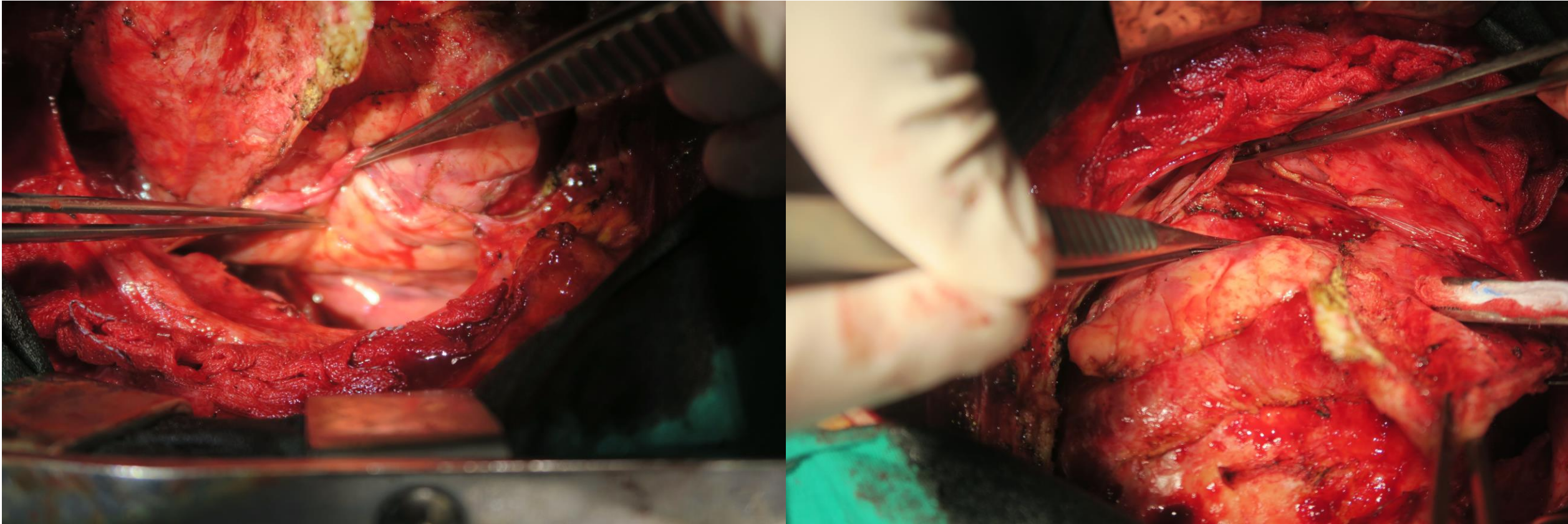
Pericardiectomy



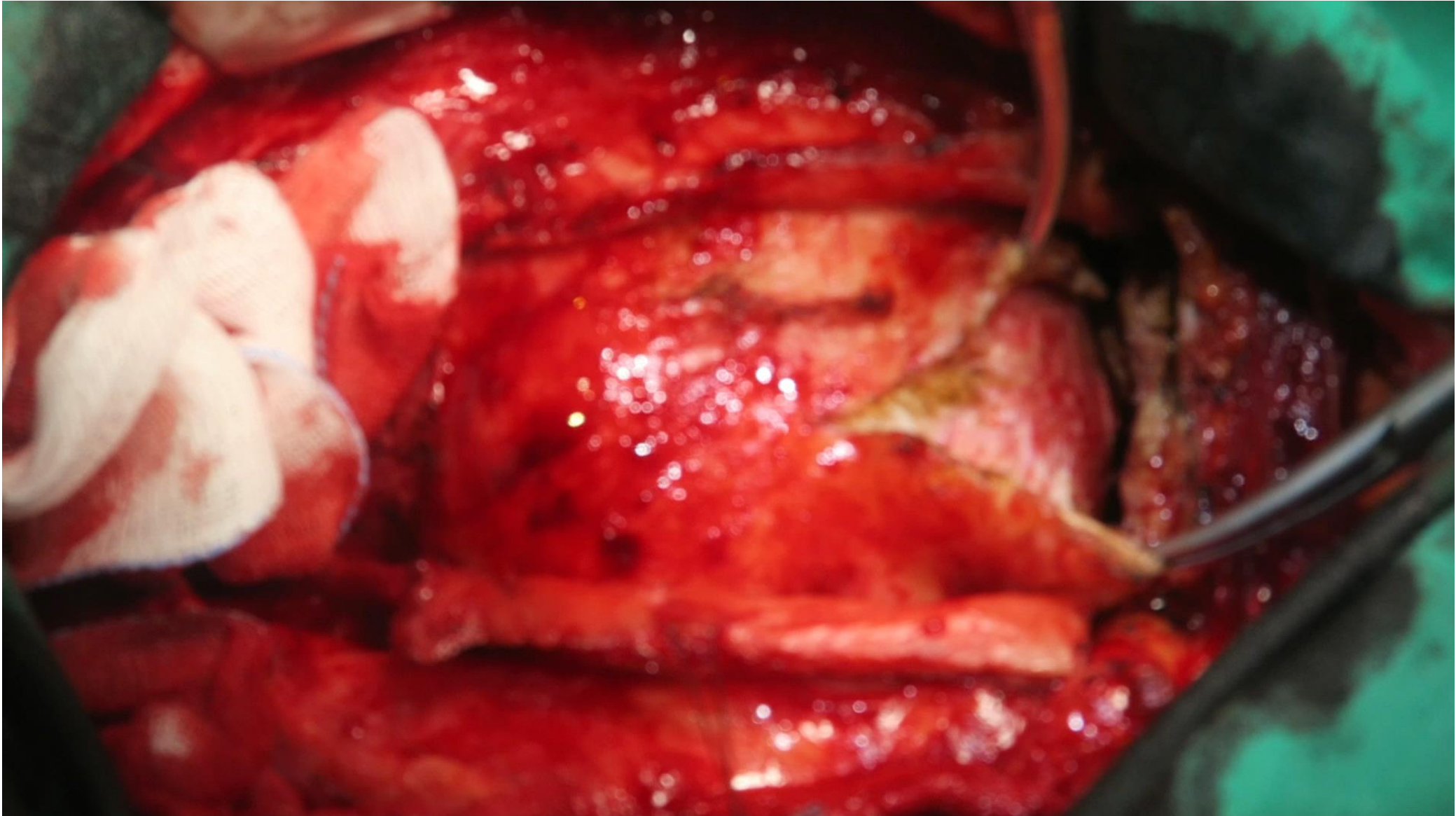
Pericardiectomy



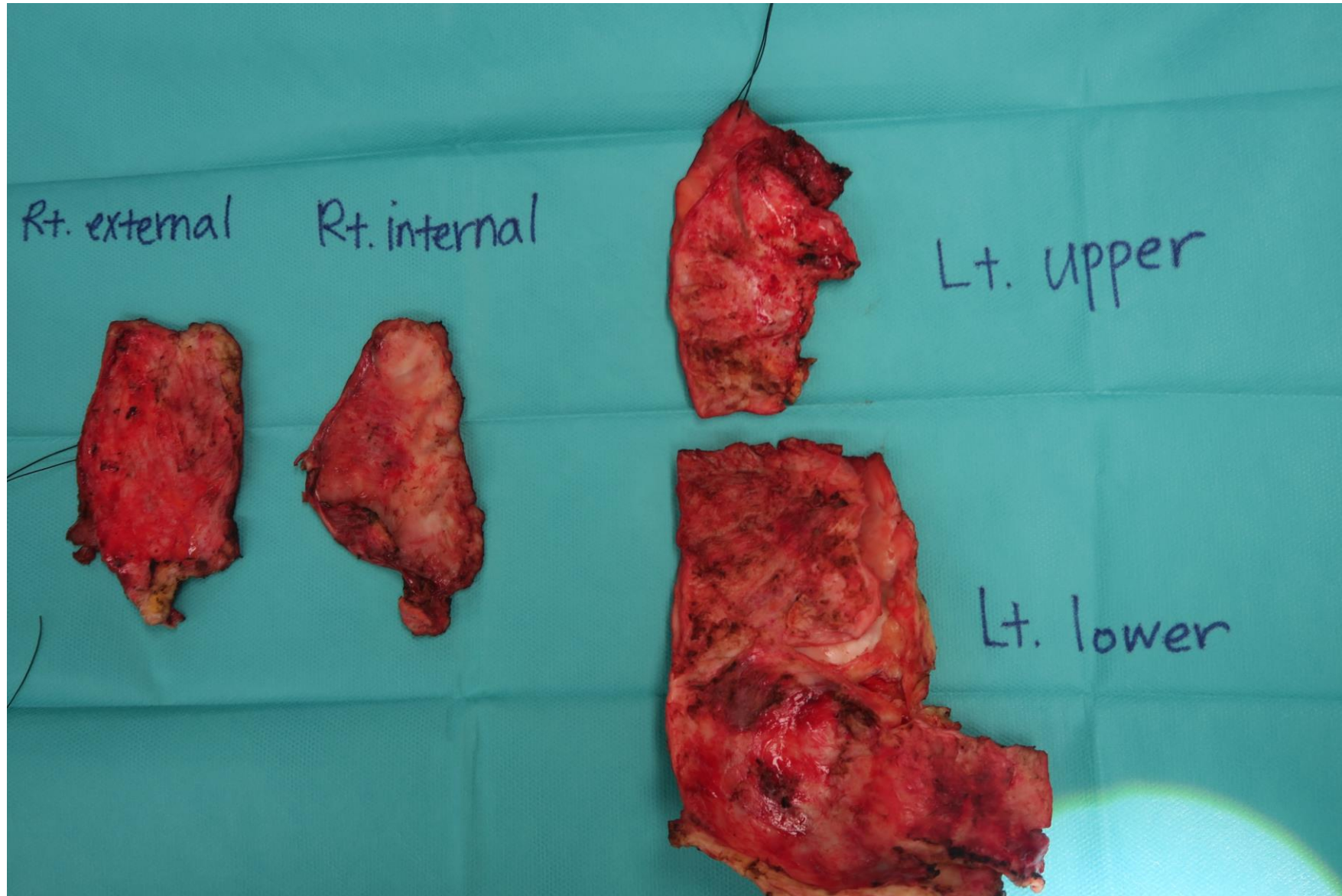
Pericardiectomy



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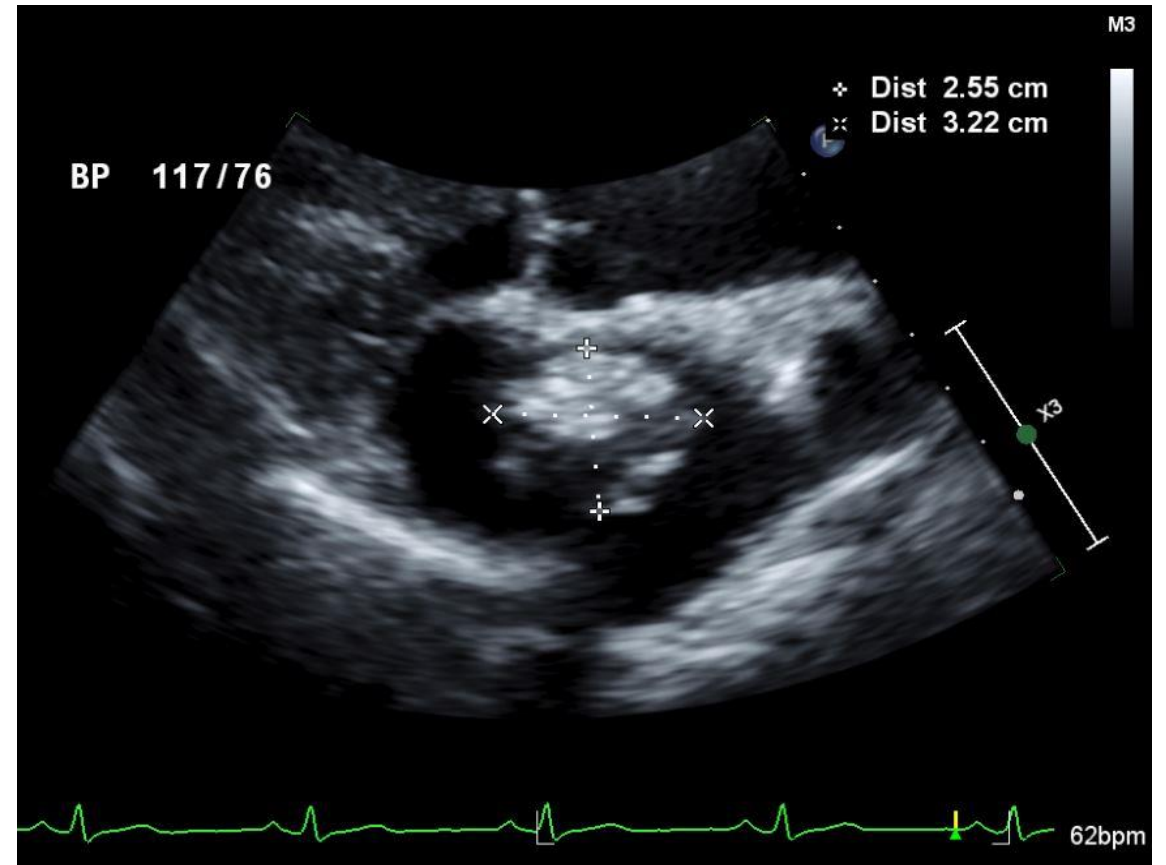


Pericardiectomy



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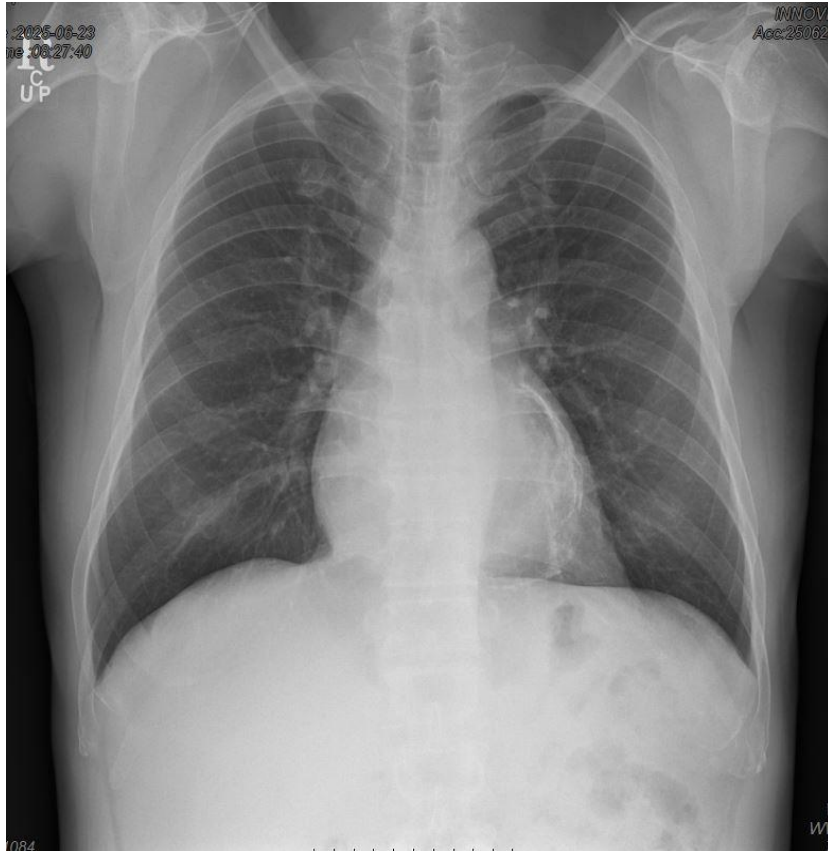
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좌심방 점액종 (LA myxoma)

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Pericardiectomy



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COLLEGE OF MEDICINE

