بسم الله الرحمن الرحيم

Surgical Treatment Of Cardiac Myxoma: II-years Experience At Sohag University Hospital BY

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- Cardiac myxoma is the most common benign tumor of the heart
- The majority located in the left atrium.
- Most patients are aged 30–60 years
- More prevalence in females

- Patients often present with one or more symptoms of a triad of obstructive, embolic and constitutional manifestations
- Some cases are asymptomatic and they are incidentally discovered

- Diagnosis depends on a high index of suspicion and it is established with echocardiography.
- Once diagnosis is made, prompt surgical resection is recommended.

Crafoord in 1954, reported The first successful surgical resection of a left atrial myxoma

- The basic principles of surgical treatment for cardiac myxomas include:
- ✓ complete wide resection of the tumor with safety margin
- ✓ avoidance of residual tumor
- ✓ prevent intra-operative embolization.

AIM OF THE STUDY

We Retrospectively review our experience with 2 l patients who were subjected to surgical treatment for cardiac myxoma at our department over an 1 l-year period. (Jan. 2006 - Dec. 2016)

This retrospective study was conducted at our tertiary university hospital. All cardiac myxoma patients who have been operated upon at our cardiothoracic surgery department in the period from January 2006 to December 2016 were enrolled in the study.

- Our aim from this study is to report and evaluate our hospital experience in the surgical treatment of cardiac myxoma.
- Complete data of those patients have been extracted from the department database
- The pre-operative, operative and post-operative details were collected and analyzed.

- Preoperative data: included age, sex, main complaint, other symptoms
- Pre-operative diagnosis was established in all patients by echocardiography.
- Pre-operative coronary angiography was carried out in all patients older than 40 years and in younger patients with suspected coronary artery disease.

As seen by Trans-thoracic Echo -cardiography



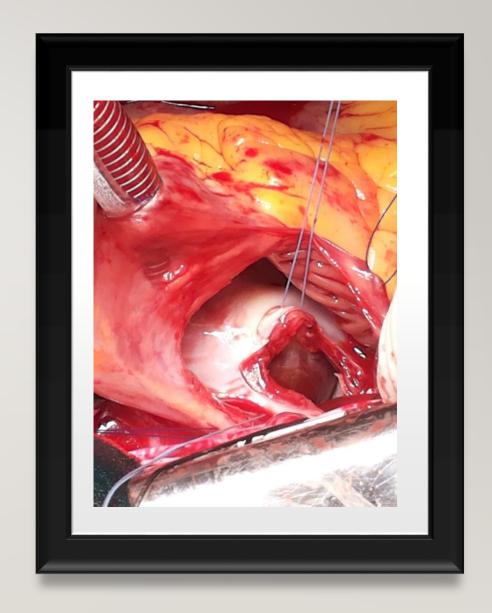
Once the diagnosis of cardiac myxoma was made, the patients were subjected to operation without delay.

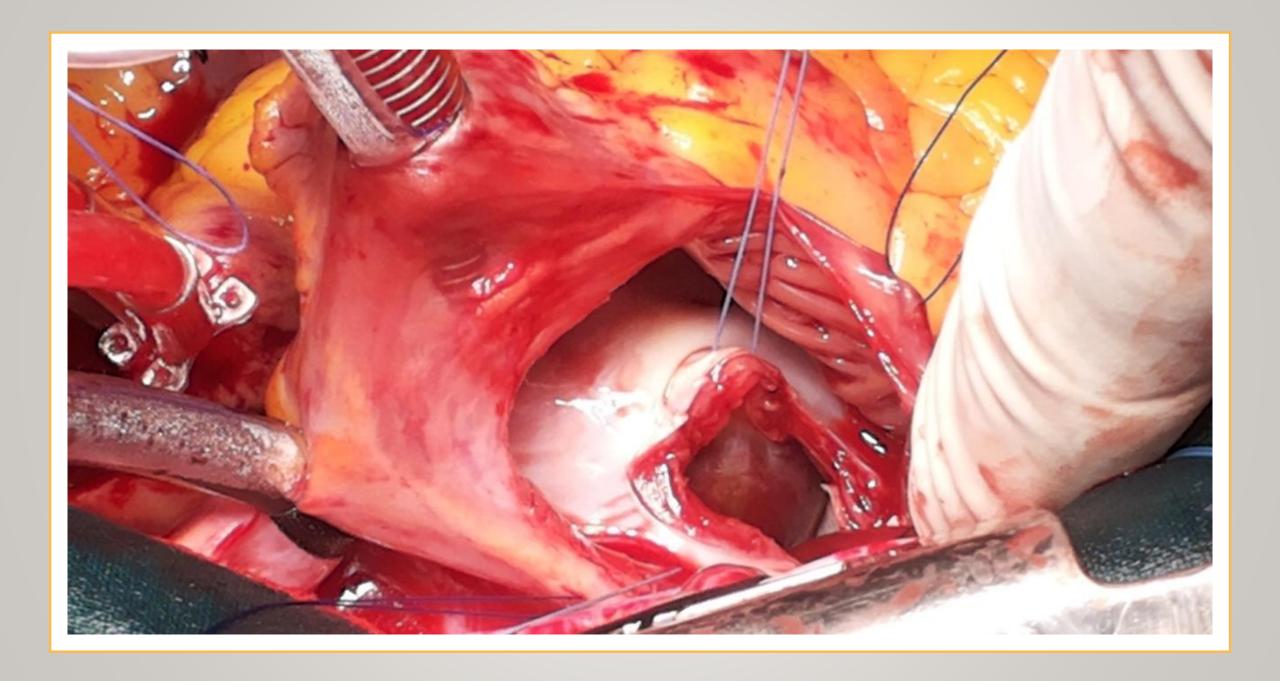
- Heart was not manipulated until the aorta had been cross clamped to avoid tumor fragmentation and systemic embolization.
- In case of right atrial myxoma and in left atrial myxoma with shunt, pulmonary artery was included in the aortic cross clamp to avoid pulmonary embolization.

- The main surgical approach for most cases of left atrial (LA) myxoma was right atrial trans-septal approach,
- Right atriotomy for right atrial myxoma.

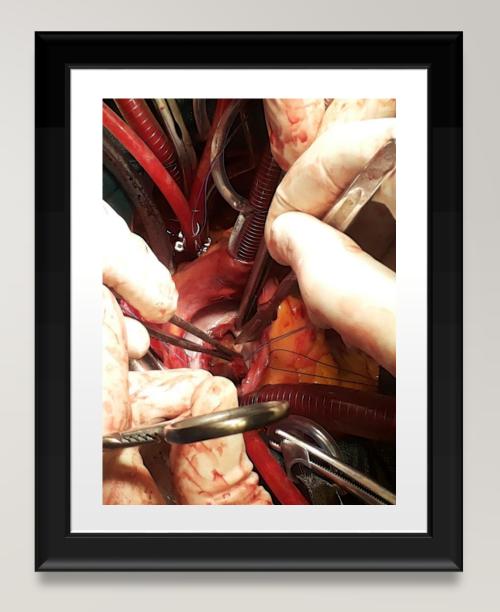
Right atrial -trans-septal approach

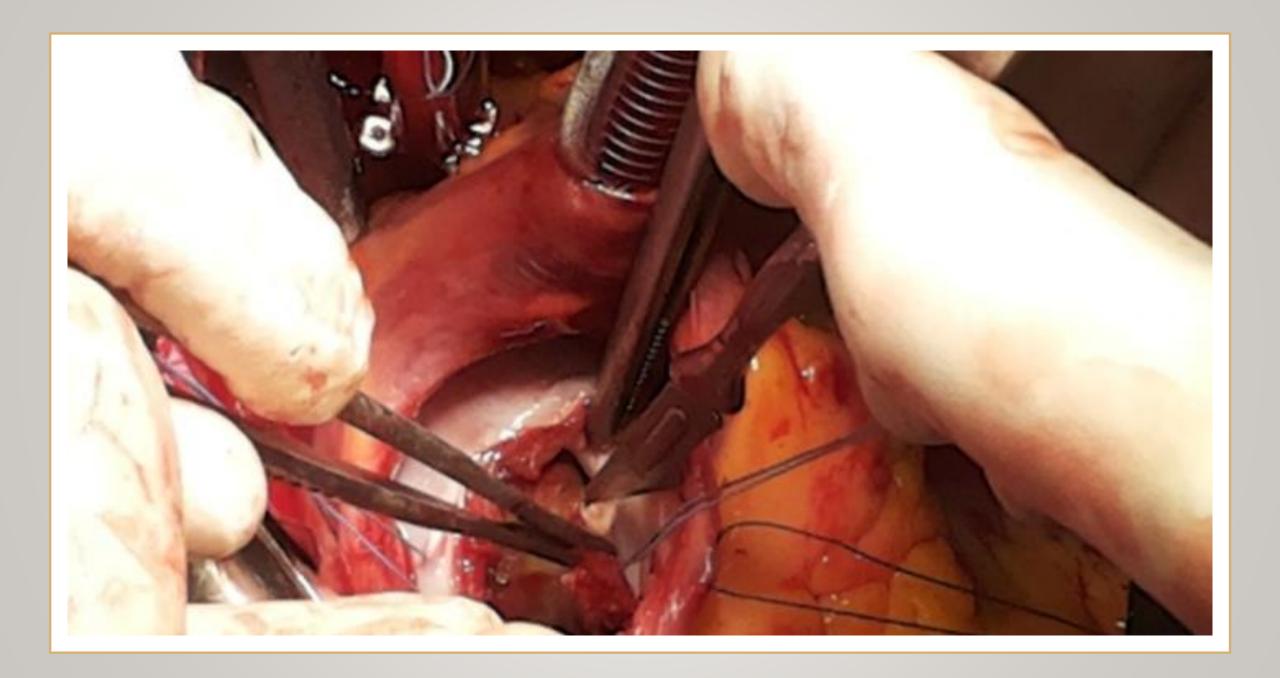
Operative – view

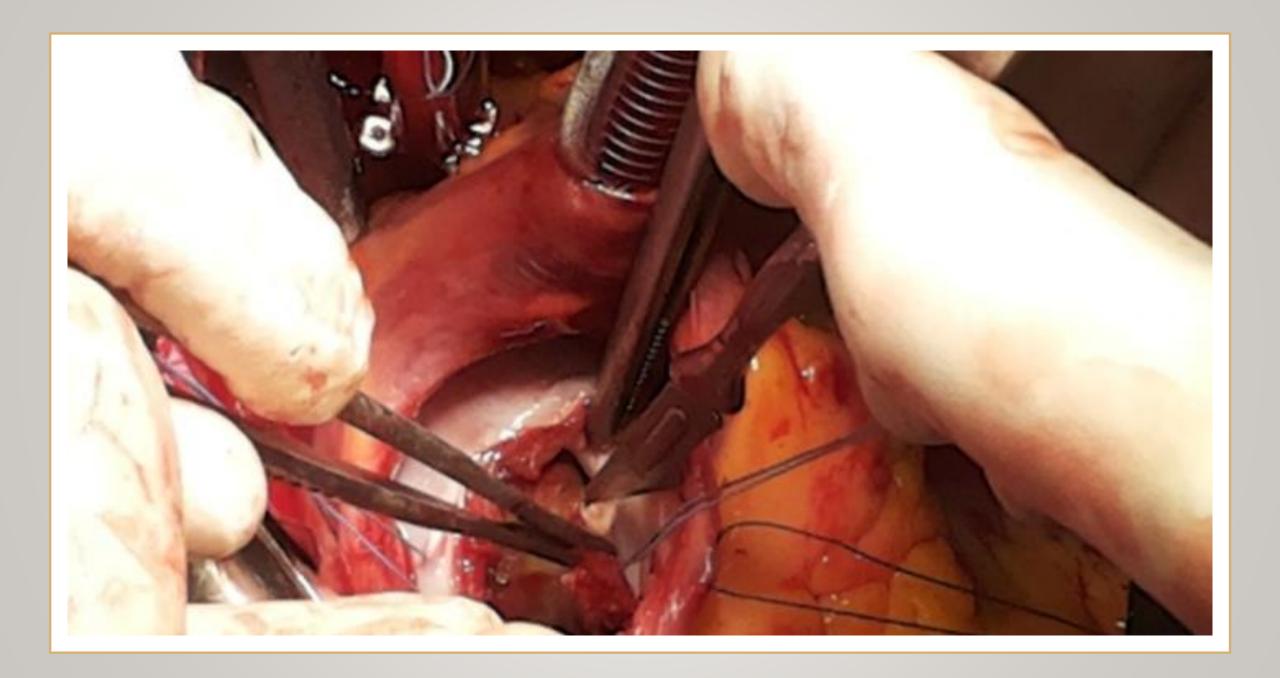




Left atrial myxoma

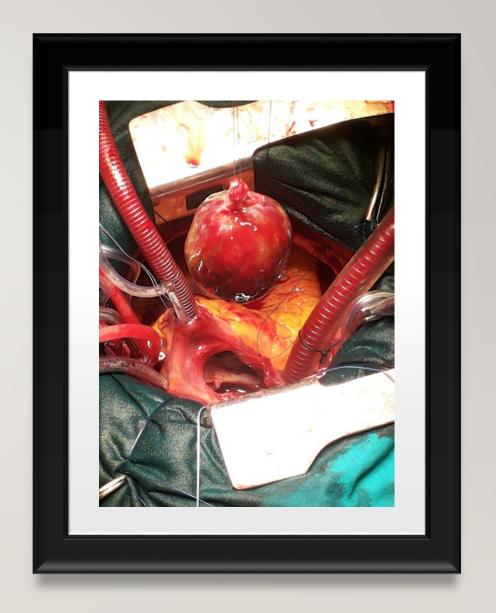


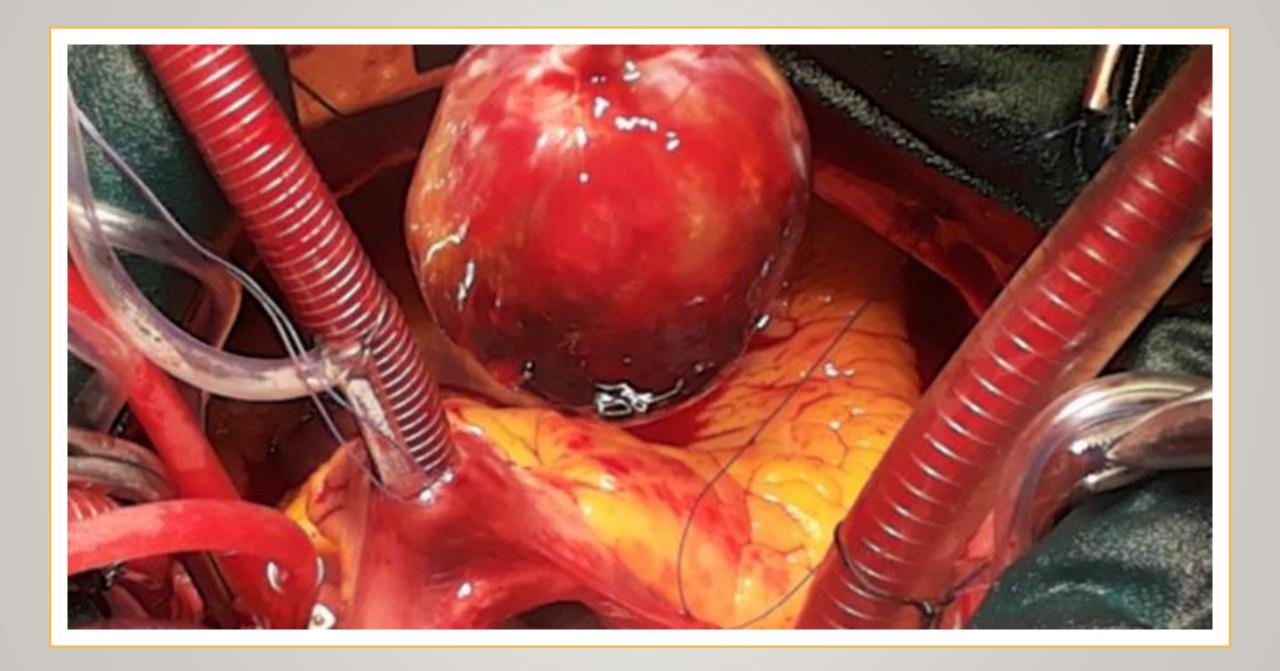




Right atrial -trans-septal approach

Operative – view

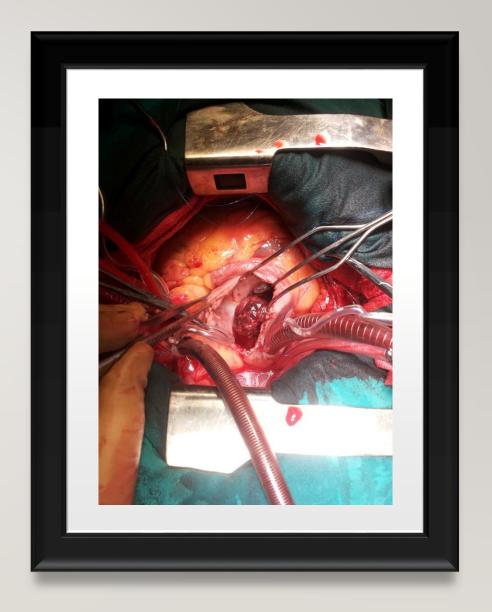




RIGHT ATRIAL MYXOMA

Right atriotomy

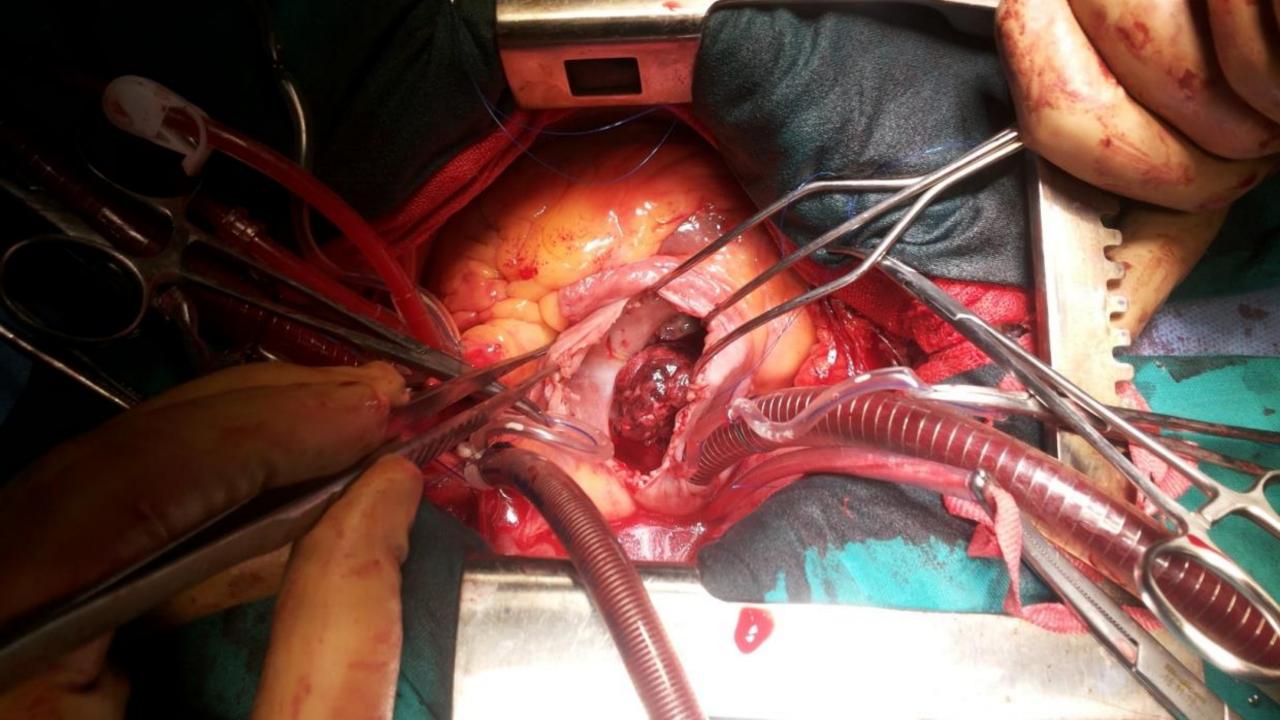
Operative view



CARDIAC MYXOMA

SPECIMEN





total number	21		
sex			
	females	13	61.90%
	males	8	38.10%
age			
	range	28 - 71	
	mean age	55.2	
	20-30	1	4.76%
	31-40	1	4.76%
	41-50	4	19%
	51-60	10	48%
	61-70	4	19.00%
	71-80	1	4.76%

Symptoms	dyspnea	15	71.40%
	syncope	3	14.20%
	palpitation	5	23.80%
	lower limb edema	1	4.76%
	chest pain	1	4.76%
	stoke	3	14.20%
	prepheral embolism	1	4.76%
	costitutional symptoms	6	28%
	cardiogenic shock	1	4.76%

location	left atrium	17	81%
	right atrium	4	19%
surgical approach	right atrium	right atriotomy	4 (100%)
	left atrium	left atrial	1 (5.9%)
		biatrial	3(17.6%)
		right atrial trans-septal	13(76.5%)

associated procedures		5	23.80%
	CABG	2	
	Tricusped valve repair	1	
	mitral valve repalcement	1	
	Bullectomy	1	

NYHA functional class	before	after
	3 (14.3%)	14 (66.7%)
	6 (28.6%)	5 (23.8%)
	10 (47.6%)	1 (4.76%)
V	2 (9.5%)	1 (4.76%)

ICU stay	2.1±0.6 days	
Hospital stay	8.4±1.6 days	
X-clamp time (min)	20-130 (35)	
CPB time (min)	30- 170 (55 min)	
recurrence		0

post operative complications		6	28.60%
	AF	2	
	atelectasis	1	
	temporary conduction defect	2	
	bleeding (revision)	1	
peri-operative mortality	1		4.76%

CONCLUSION

- □Although cardiac myxomas are benign tumors, they should be treated surgically as soon as possible after diagnosis because of embolic complications and obstructive signs which may lead to death
- □Appropriate surgical technique gives excellent results.

Thank You