

NATURAL HISTORY AND DELAYED SURGERY OF TYPE A DISSECTION

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Background

- **Aortic type A dissection is lethal**
- **Suspected patients are transferred to operating room as soon as possible**
- **Non-surgical patients?**
- **How is the result of surgical patients?**

Patients and Method

- **Retrospective study**
- **From Jan-2011 to Sep-2012 at Cho Ray hospital**
- **Admitted patients with diagnosis of type A aortic dissection**
- **Non-surgical treatment patients and surgical treatment ones**

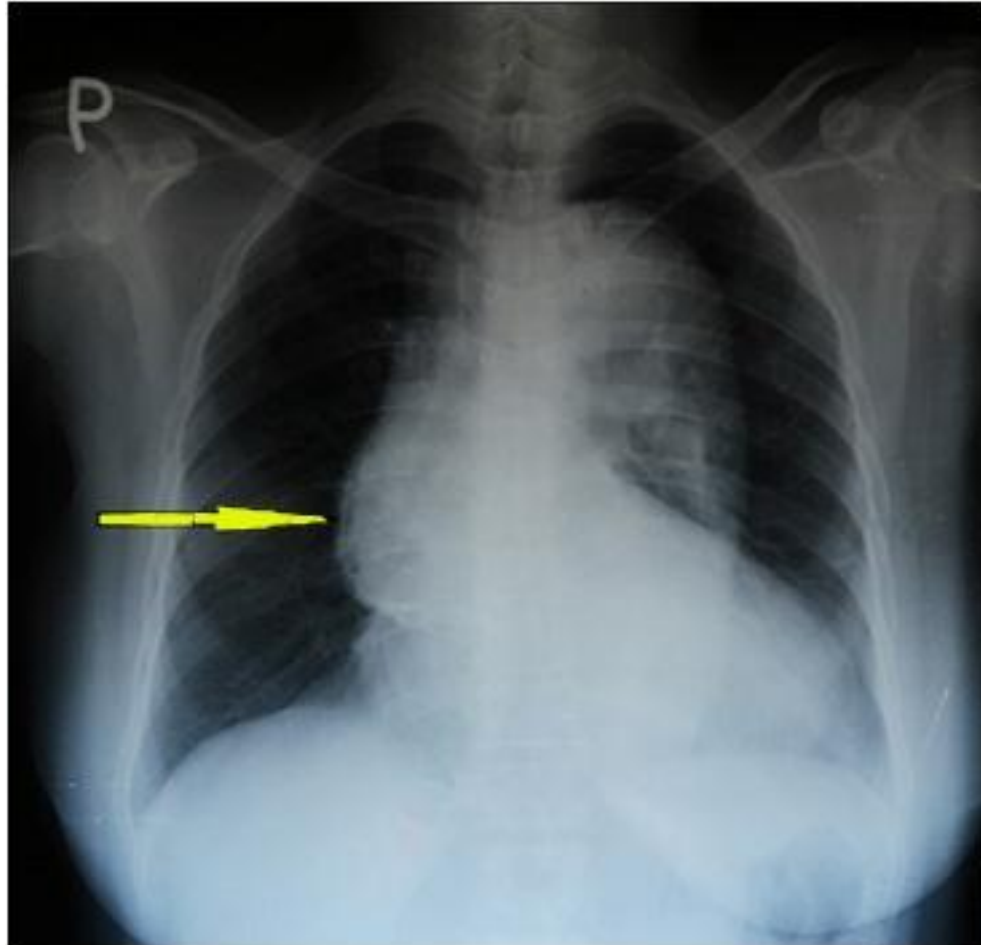
DIAGNOSIS

- **Clinical scenarios**
- **Imaging diagnosis: thoraco-abdominal CT scan with contrast**
- **Differential diagnosis: acute MI**

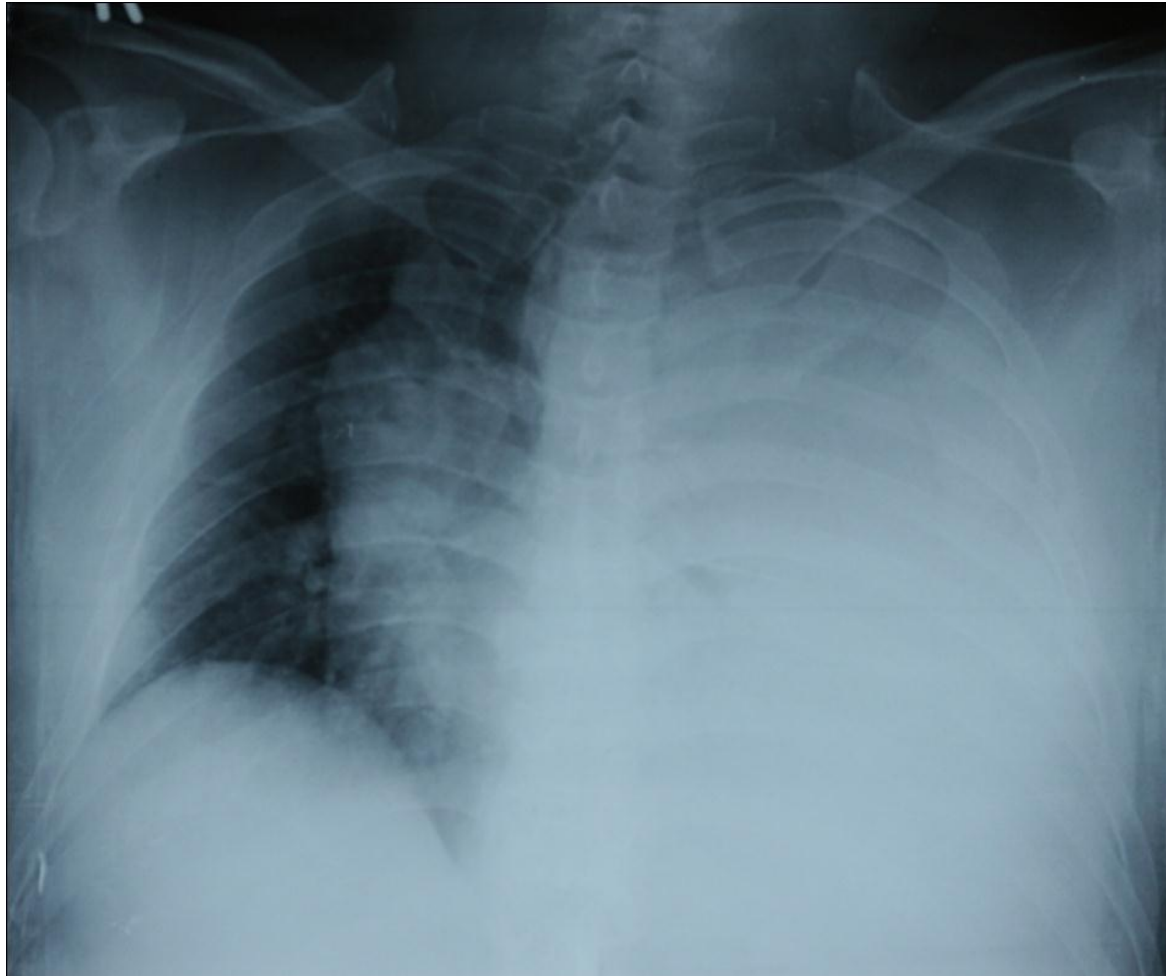
Evaluating tets

- **Echocardiography: tamponade?, AR?...**
- **Vascular echography : head vessels**
- **Chest X-ray**
- **ECG**
- **Cardiac enzyme**

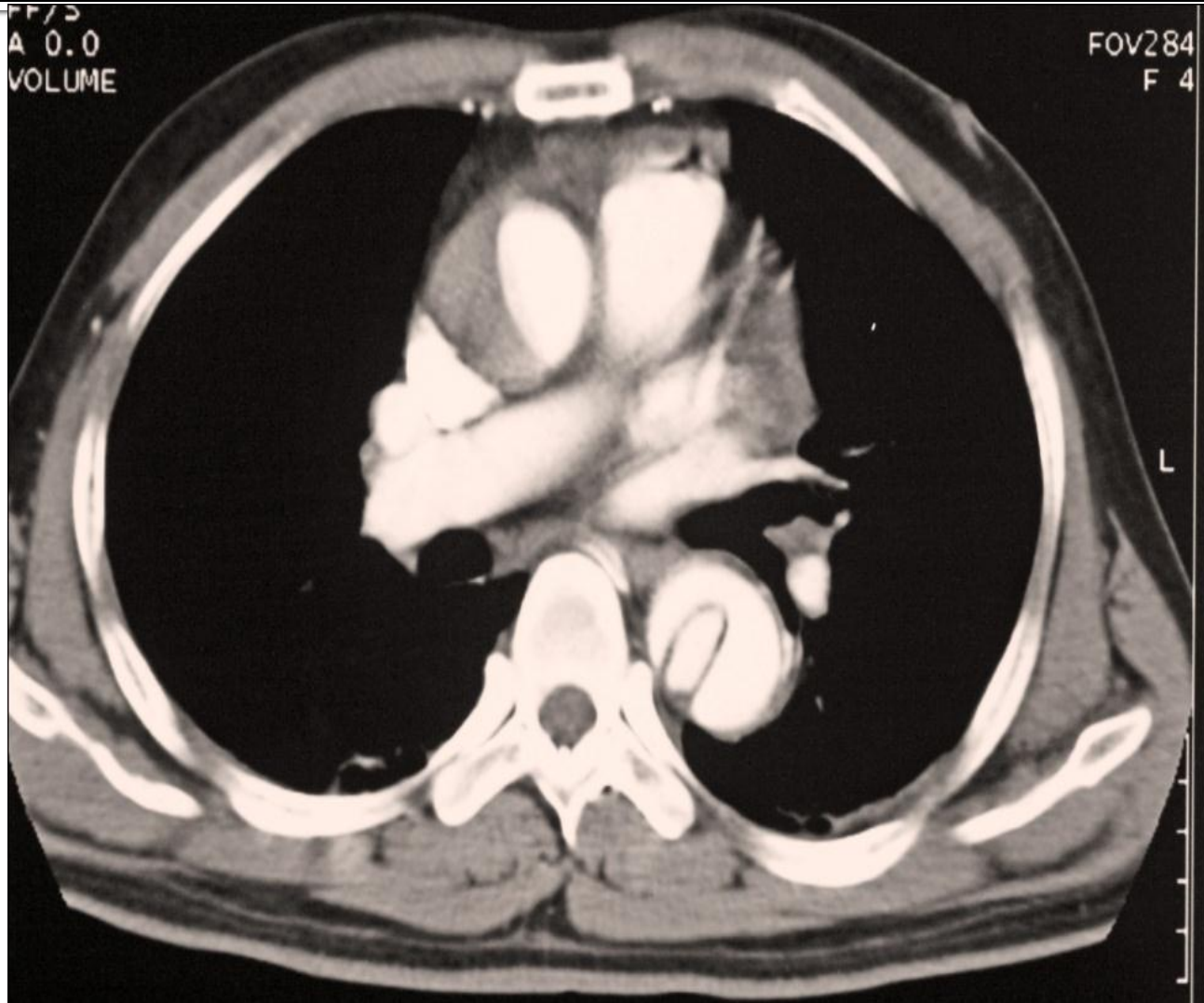
CHEST X-RAY



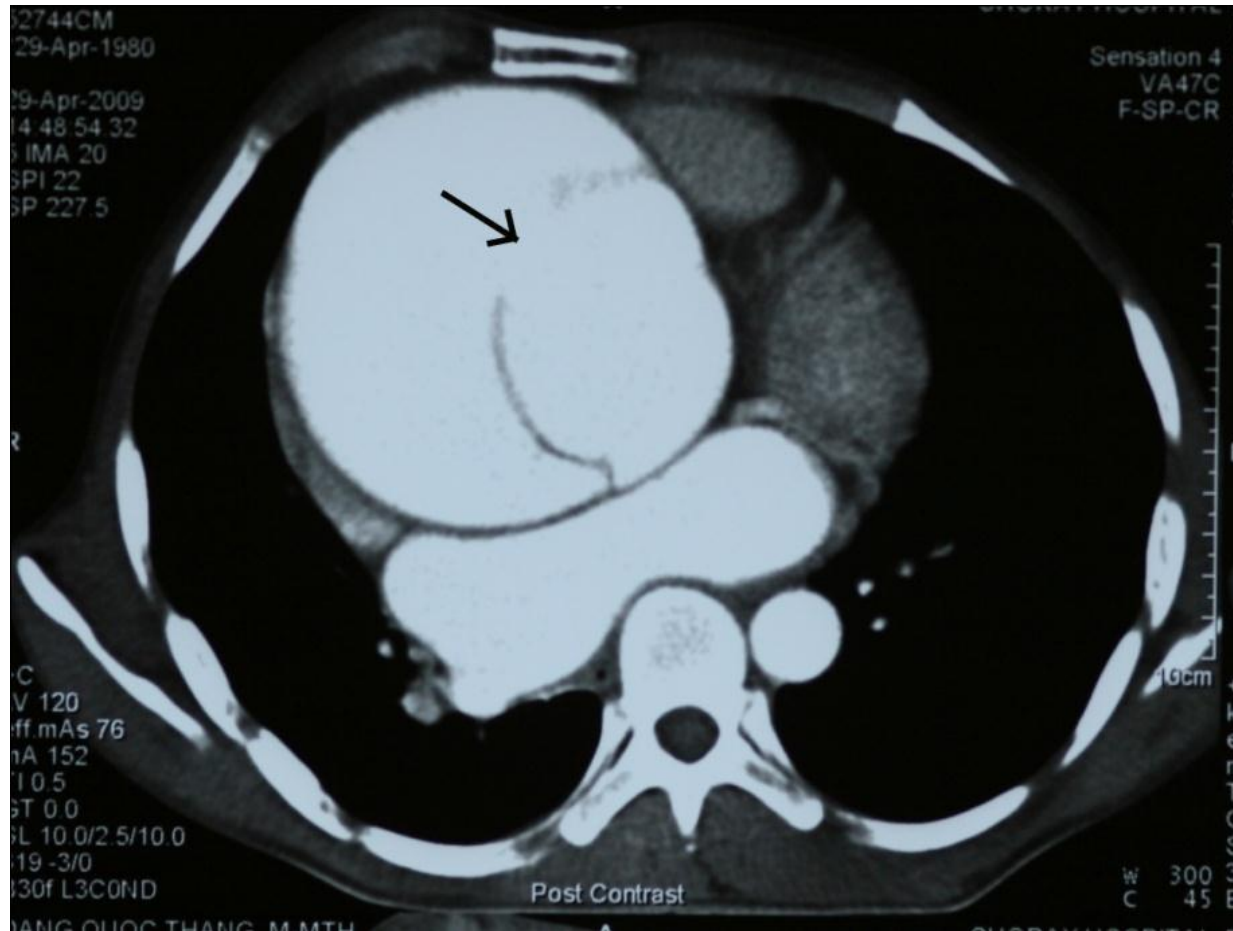
CHEST X-RAY



CT scan with CONTRAST



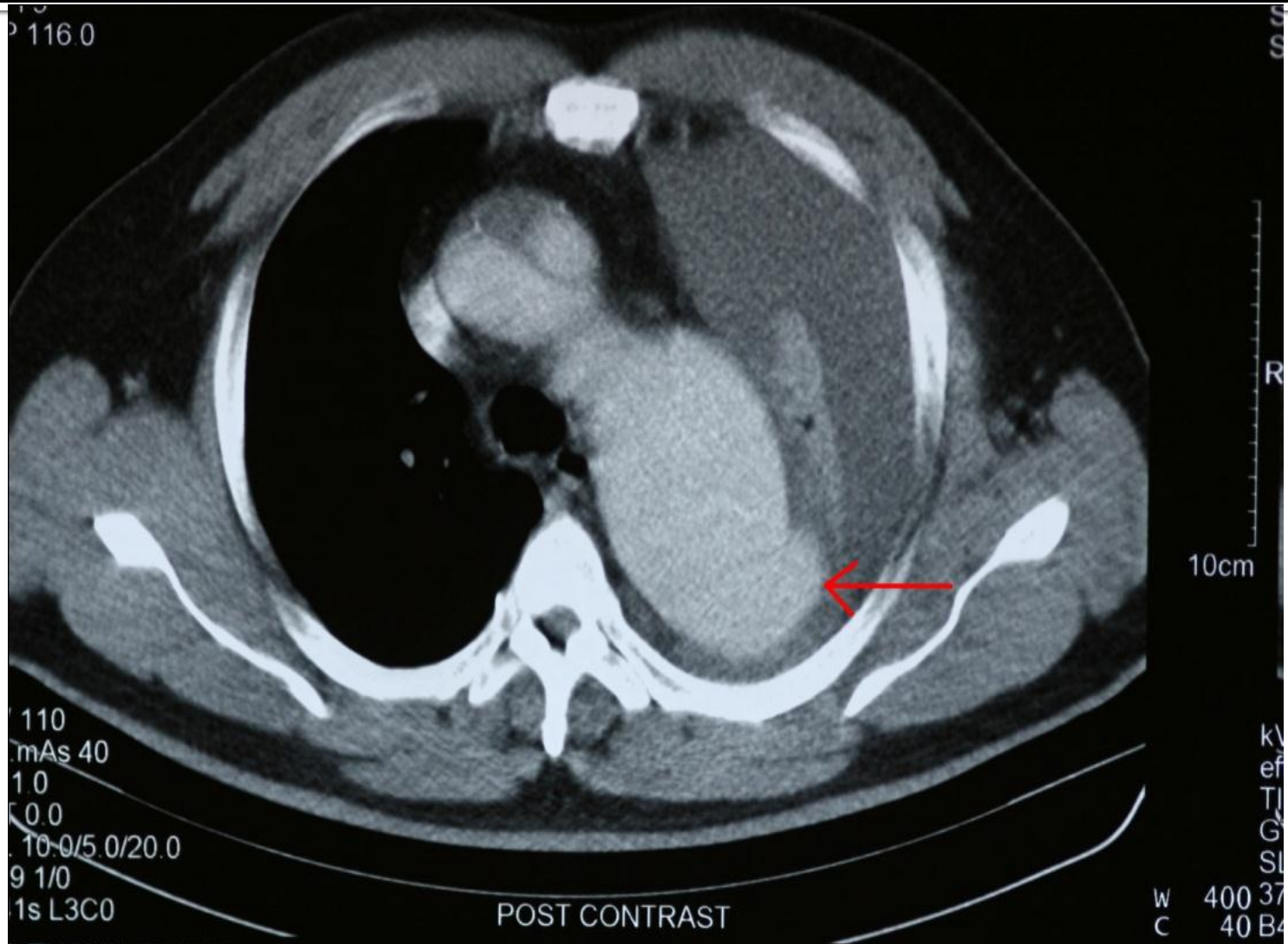
CT Scan with CONTRAST



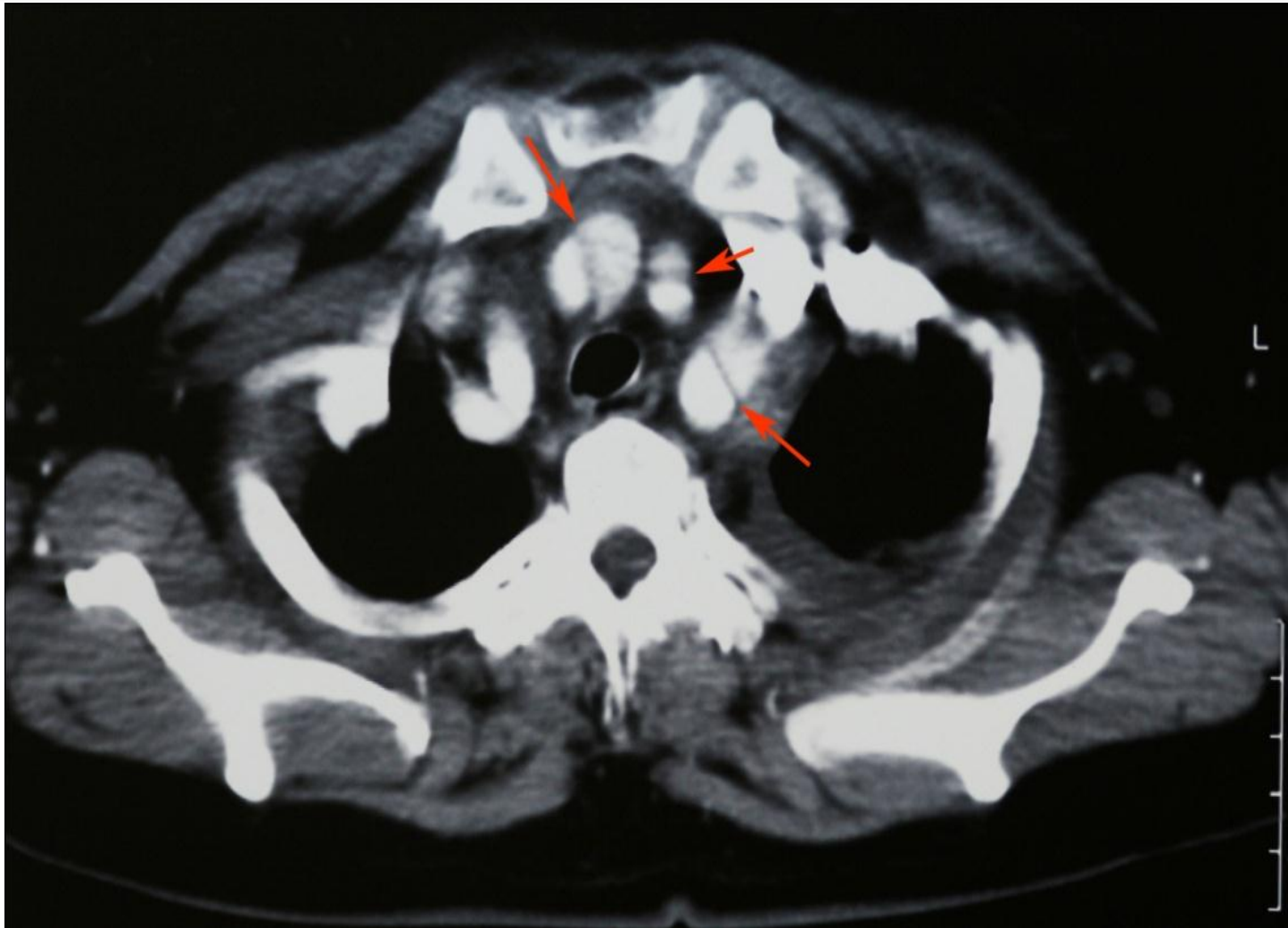
CT scan with CONTRAST



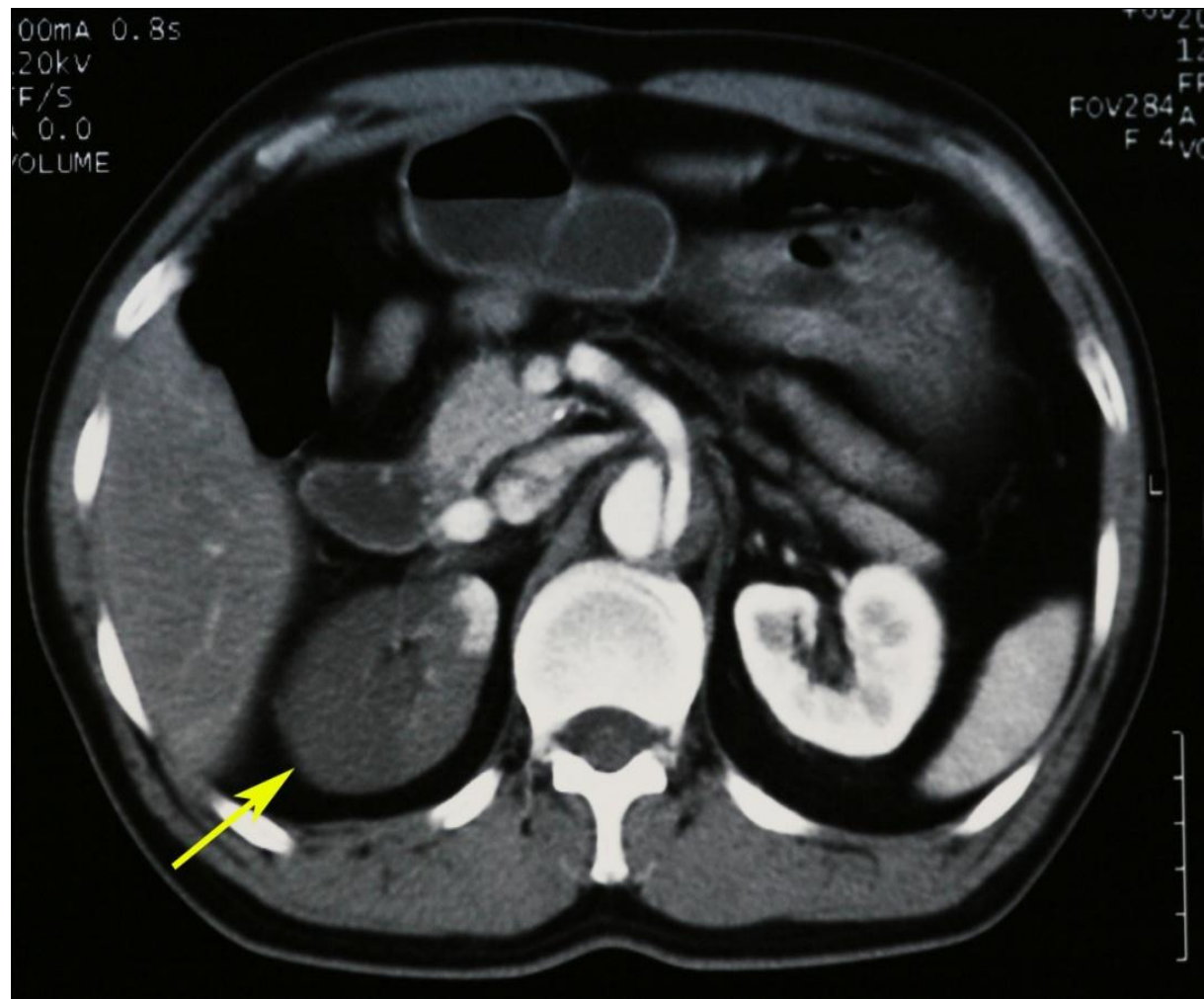
CT scan with CONTRAST



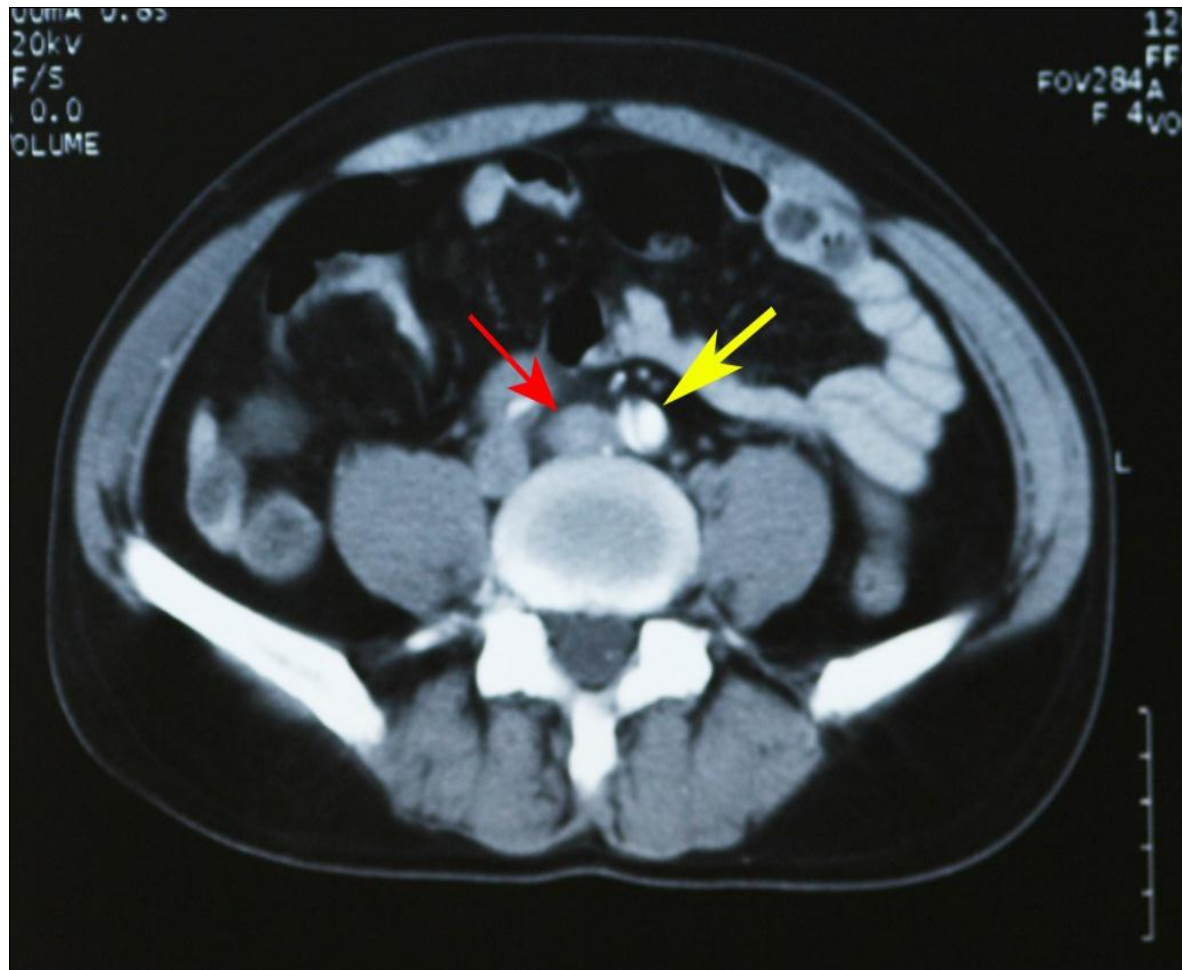
SUPRA AORTIC DISSECTION



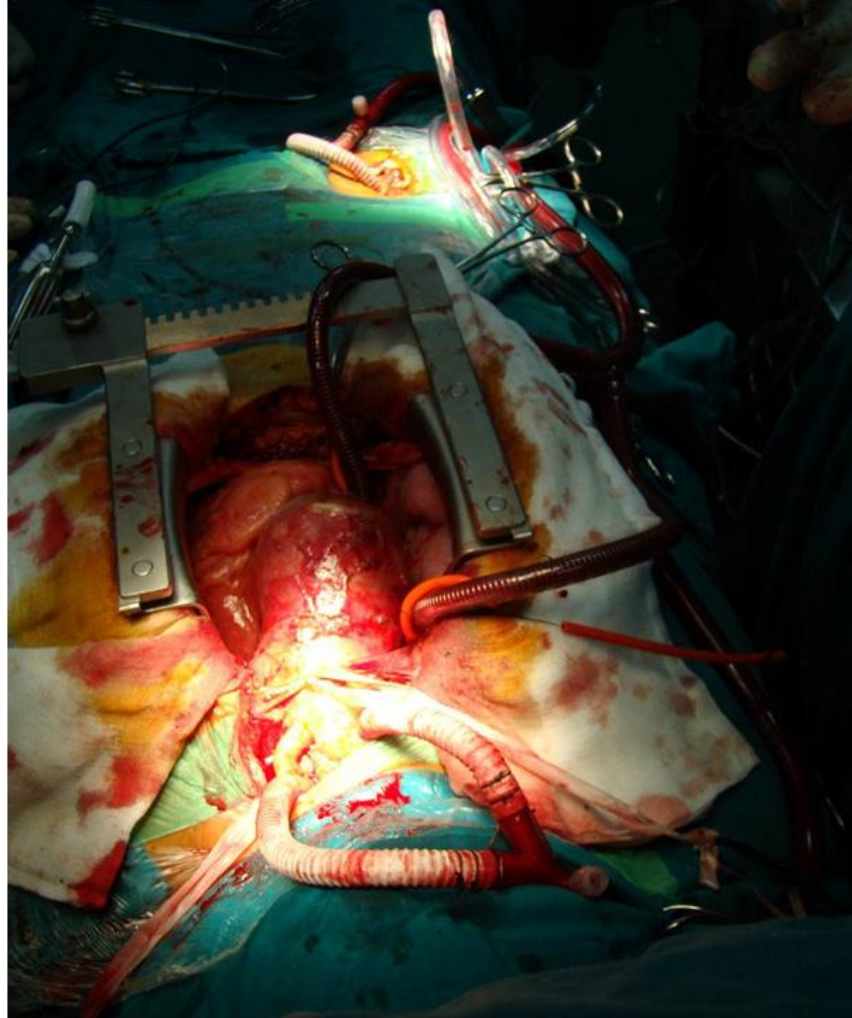
MALPERFUSION SYNDROME



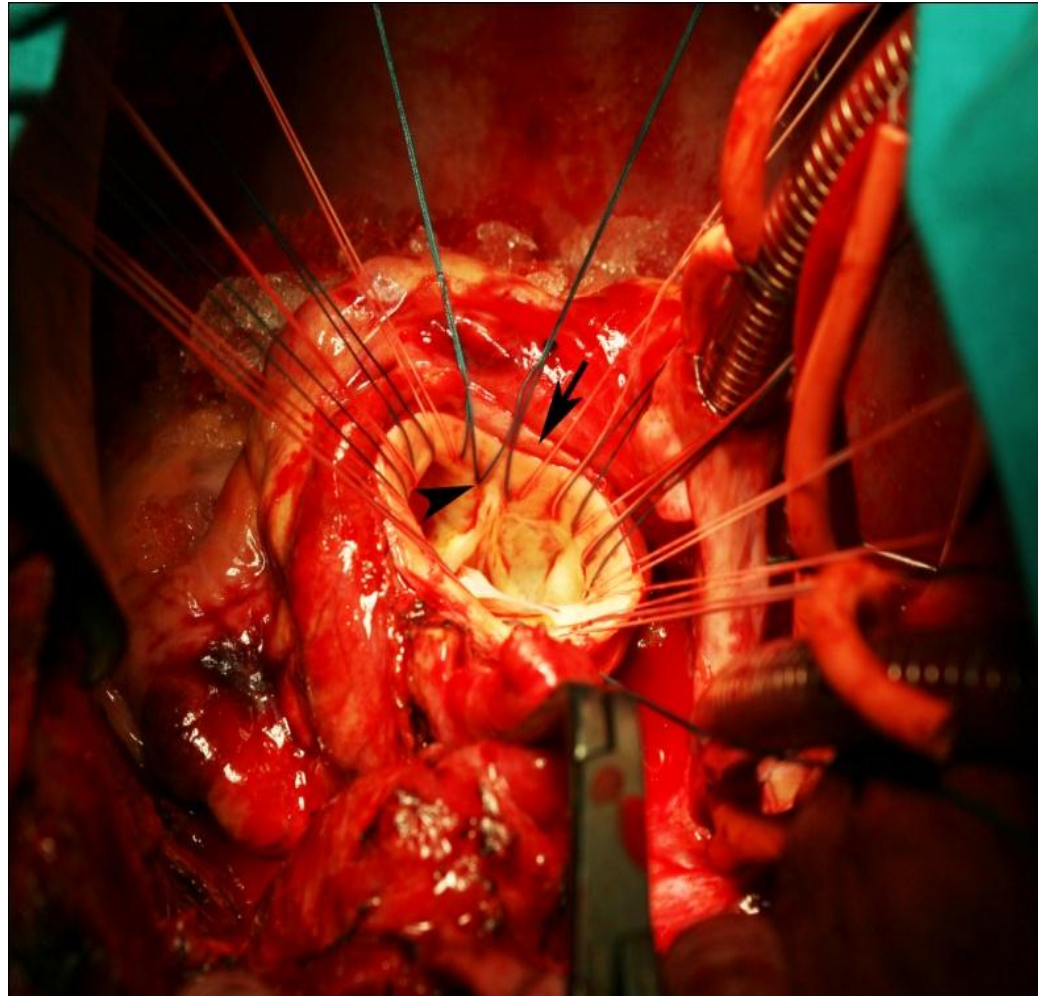
MALPERFUSION SYNDROME



Continuous Anterograde Cerebral Perfusion



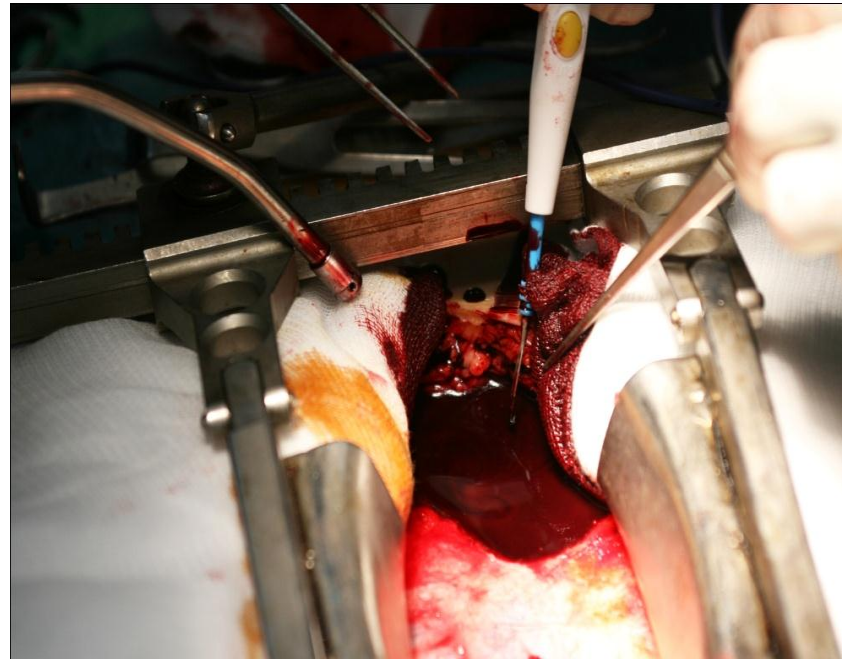
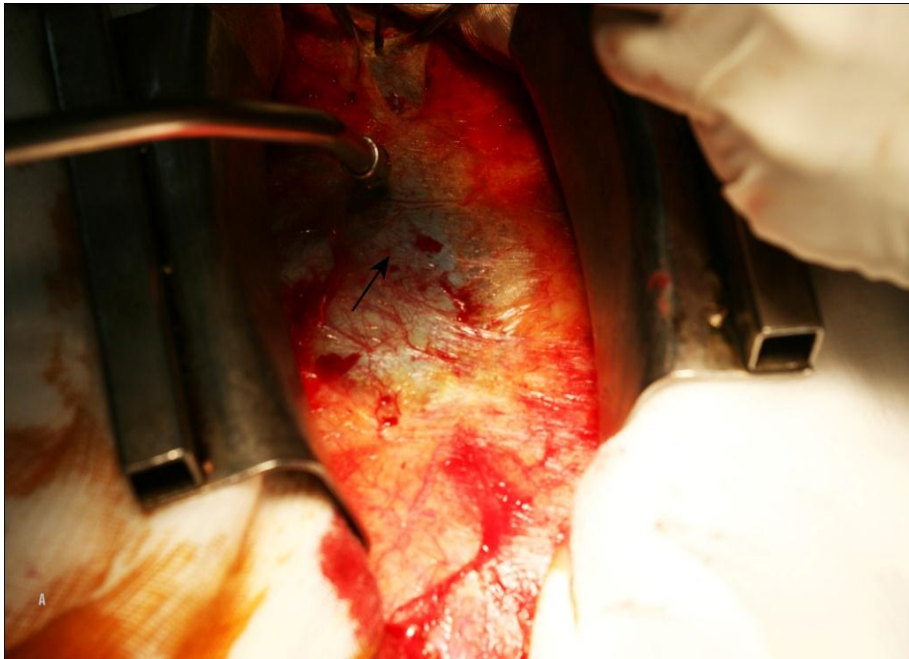
ST junction anastomosis and Aortic valve resuspension



Patients' profile

N	78
Age	52.9±14.9 (14-79)
M/F	7/3
Chest pain	78 (100%)
De Bakey I	73 (93,6%)
De Bakey II	5 (6,4%)
Severe AR	45 (57.7%)
Pericardial effusion	60 (76.9%)
Preop renal failure	35 (44.8%)
Supra-arch dissection	32 (41%)
Malperfusion	5(6,4%)

Hemopericardial effusions



Non- surgical group

- **N= 13**
- **Male/female= 8/5**
- **Age: 60 \pm 12.3 (40-79)**

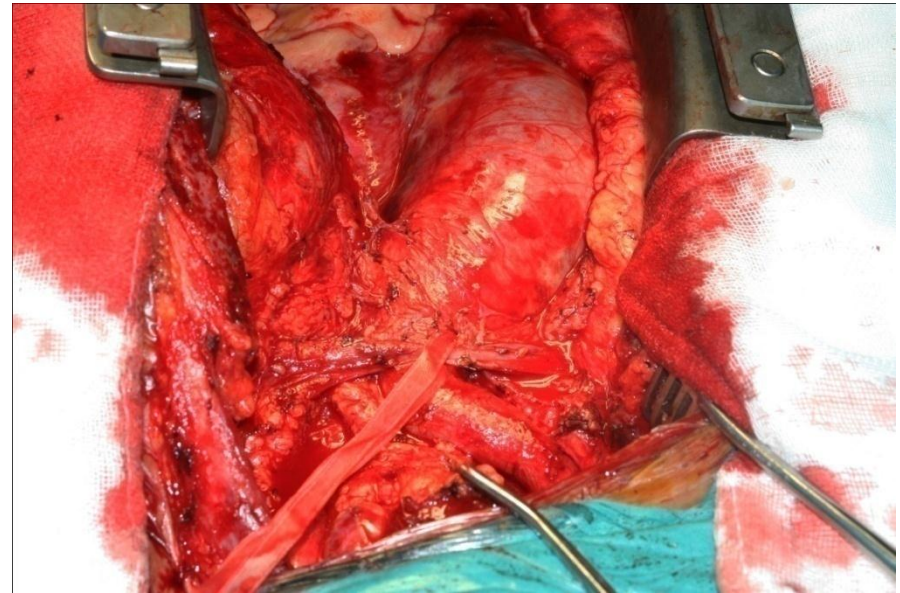
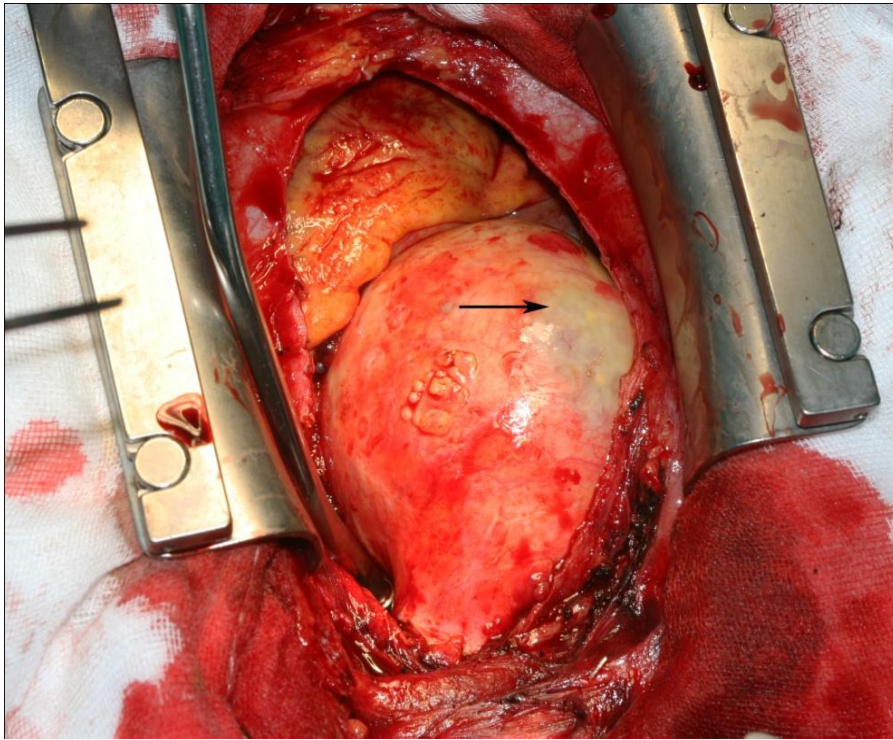
Non-surgical Mortality

Mortality					
		Frequency	Percent	Valid Percent	Cumulative Percent
Day	1st	4	30.8	30.8	30.8
	2nd	6	46.2	46.2	76.9
	3rd	1	7.7	7.7	84.6
	4th	1	7.7	7.7	92.3
	9th	1	7.7	7.7	100.0
	Total	13	100.0	100.0	

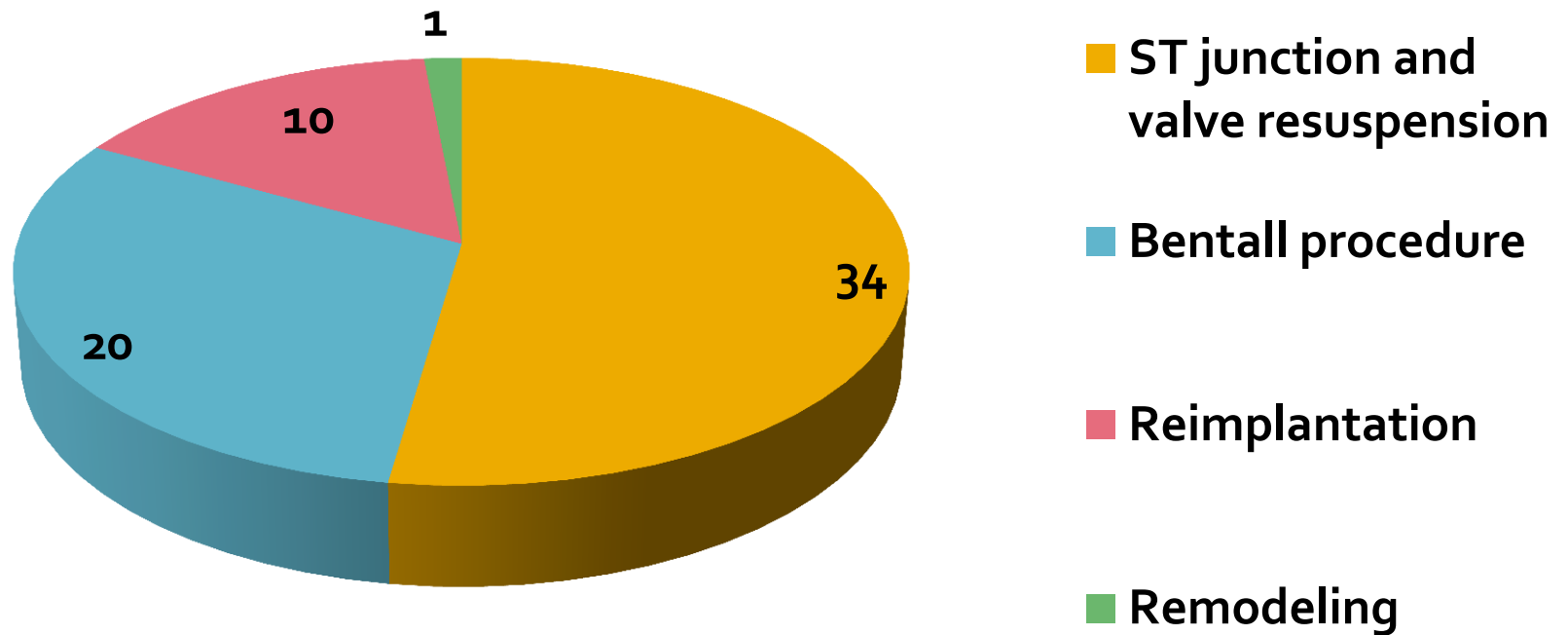
Surgical group

- **N=65**
- **Male/female=7/3**
- **Age= 51.4 ± 15 (14-77)**
- **Time interval between admission and operation: 3.5 ± 4.7 days**

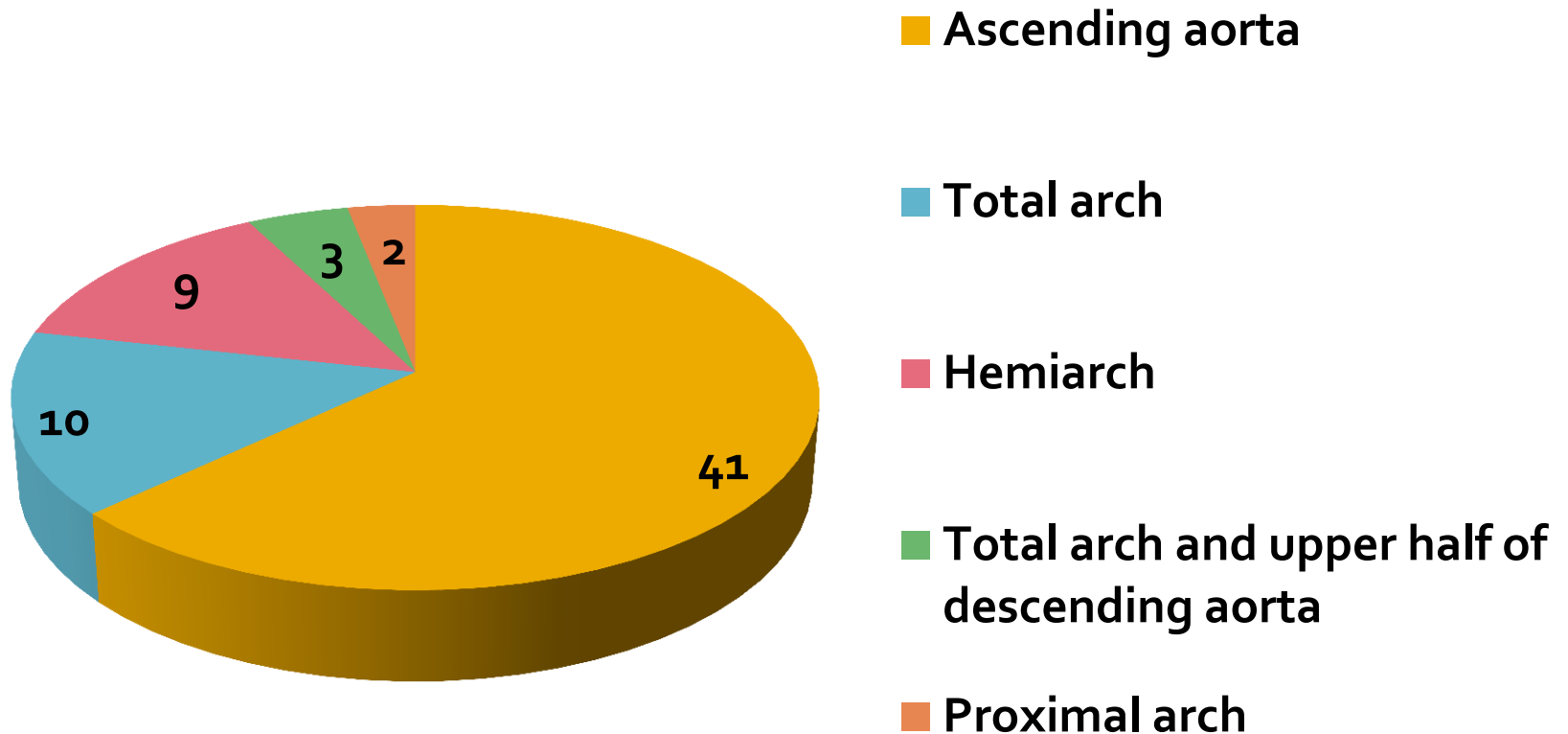
Dissecting aneurysm



Proximal end

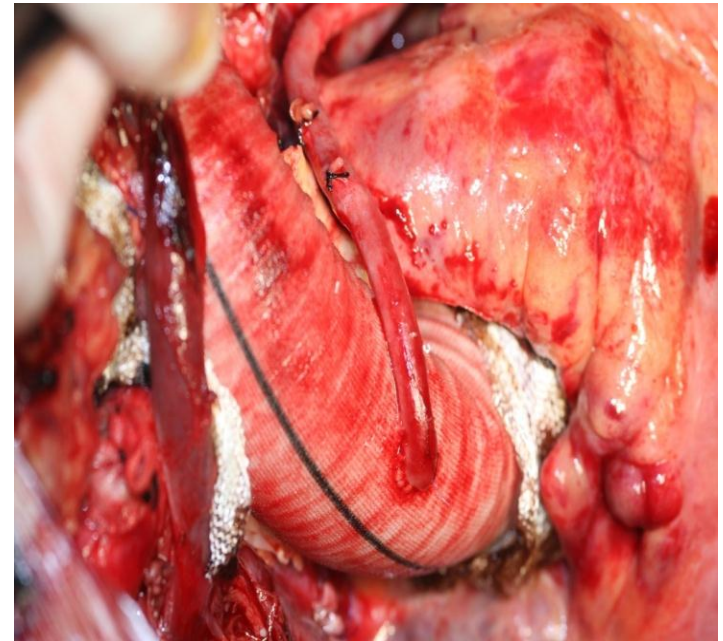


Distal end



OTHER PROCEDURES

Procedures	Frequency
CABG	1
Mitral valve annuloplasty	4
Aorto-bifemoral bypass	3
Femoro-femoral bypass	1
Abdominal aortic aneurysmectomy	1
Total	10



M&M

COMPLICATIONS	N (%)
Neurologic	3 (4.6)
Bleeding	2 (3.1)
Infection	1(1.5)
Pulmonary	4(6.1)
Mortality	6(9.2)

Pre-op Renal failure & mortality

	Sig	Exp	95 % CI	
Renal failure	0.039	2.9	1.056	7.837

Mortality & complications

Surgeons	Year	Patient number	Mortality (%)	Permanent Neu. Compl.(%)
Bavaria	2002	163	9.8	3.0
Kazui	2000	220	12.7	3.3
Gega	2007	394	6.3	4.8
Cho Ray hospital	2012	65	9.2	4.6

Conclusions

- **Continuous selective antegrade perfusion with moderate hypothermia (28 ° C)**
- **Pre-op renal failure**
- **Non-surgical mortality 100%, surgical mortality <10%**

A close-up photograph of several pink orchids with white centers and dark pink lips. The flowers are arranged in a cluster, and the background is a soft, out-of-focus grey. The text "THANK YOU" is overlaid in a bold, green, sans-serif font across the middle of the image.

THANK YOU