

**ASCENDING AORTA-
OPEN REPAIR IS THE GOLD STANDARD**

CSABA DZSINICH, MÁTÉ DZSINICH

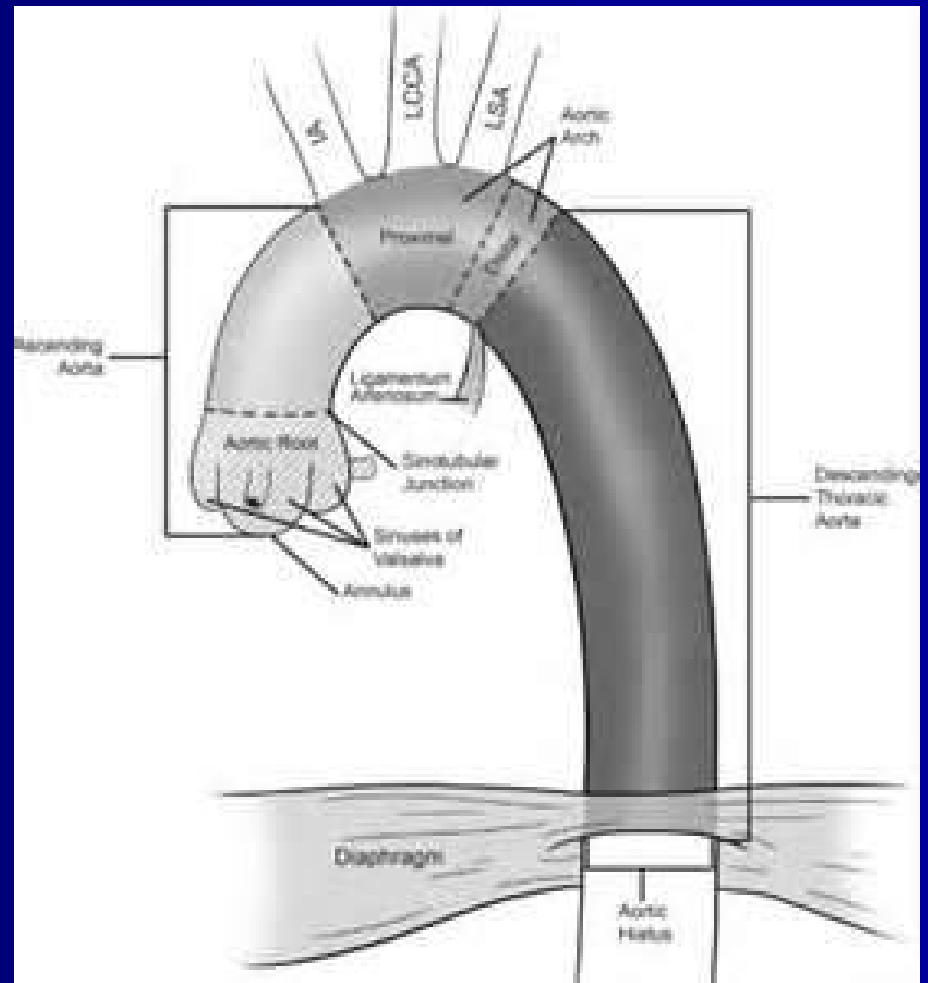
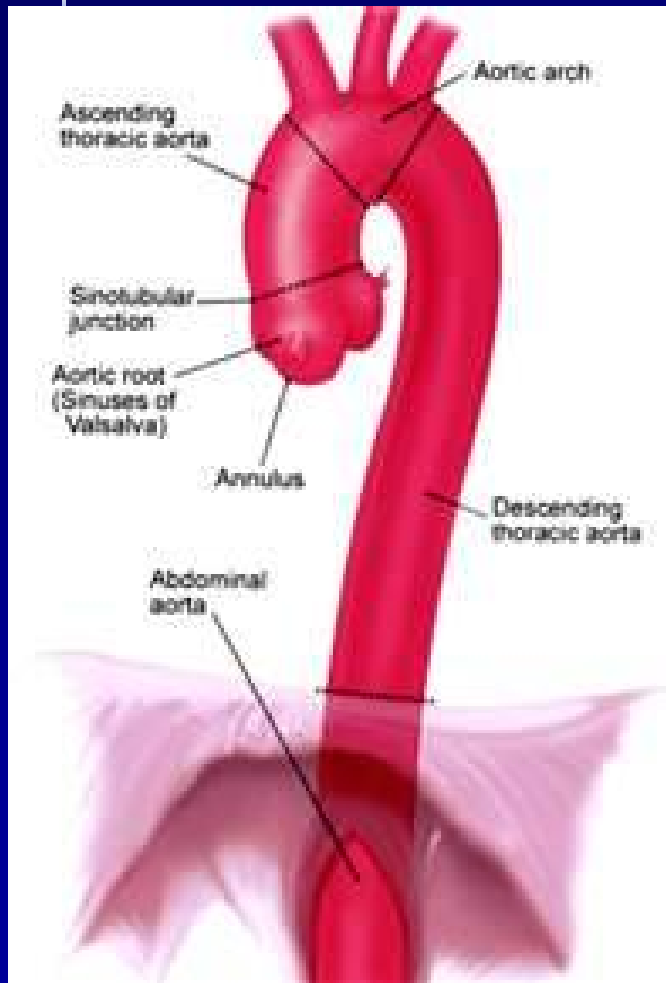
**DEPARTMENT OF CARDIOVASCULAR AND
THORACIC SURGERY**

**NIH OF HUNGARY , CENTRAL MILITARY
HOSPITAL BUDAPEST**

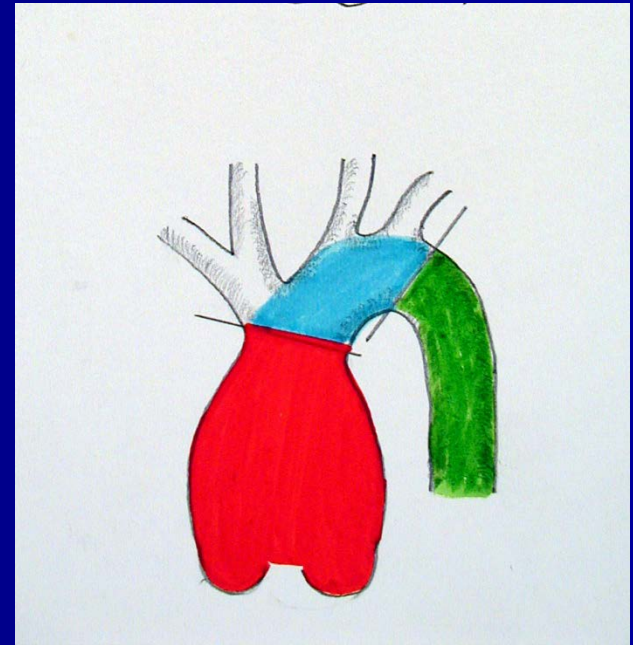
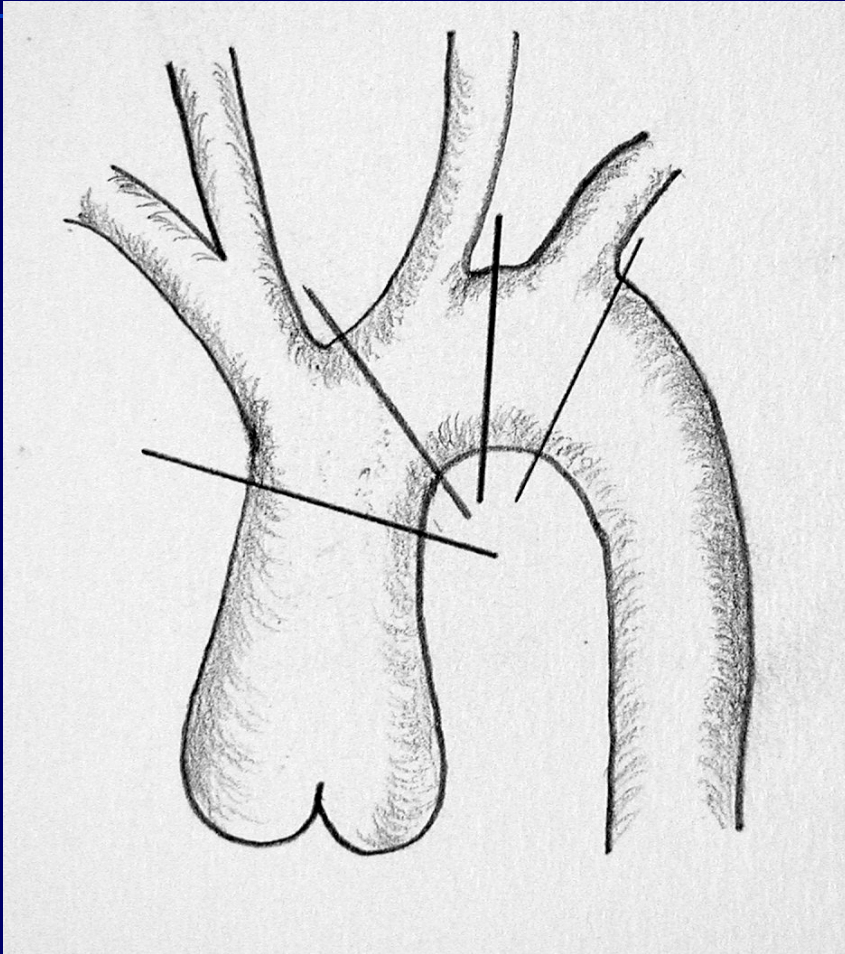
**CONTROVERSIES AND UPDATES IN VASCULAR SURGERY
PARIS, JANUARY 17-19, 2013**

NO DISCLOSURES

SEGMENTS OF THE THORACIC AORTA



LANDING ZONES AT THE AORTIC ARCH



DISEASES OF ASCENDING AORTA

HEREDITARY AORTIC DISEASES

MARFAN SYNDROME

LOEYS-DIETZ SYNDROME

EHLERS DANLOS SYNDROME

BICUSPID AORTIC VALVE

SUPRAVALVULAR AORTIC STENOSIS, etc

AQUIRED AORTIC DISEASES

ATHEROSCLEROSIS –ABEURYSM, DISSECTION

TAKAYASU DISEASE

TRAUMA

CONSEQUENCES OF ASCENDING AORTIC PATHOLOGIES

- **ASCENDING AORTIC STENOSIS**
- **VALVULAR INSUFFICIENCY, STENOSIS**
- **ANEURYSM – FUSIFORM**
- **SACCULAR**
- **COMPLEX**
- **DISSECTION – STANFORD A**
- **DeBAKEY I, II**

HEREDITARY DISORDERS OF ASCENDING AORTA

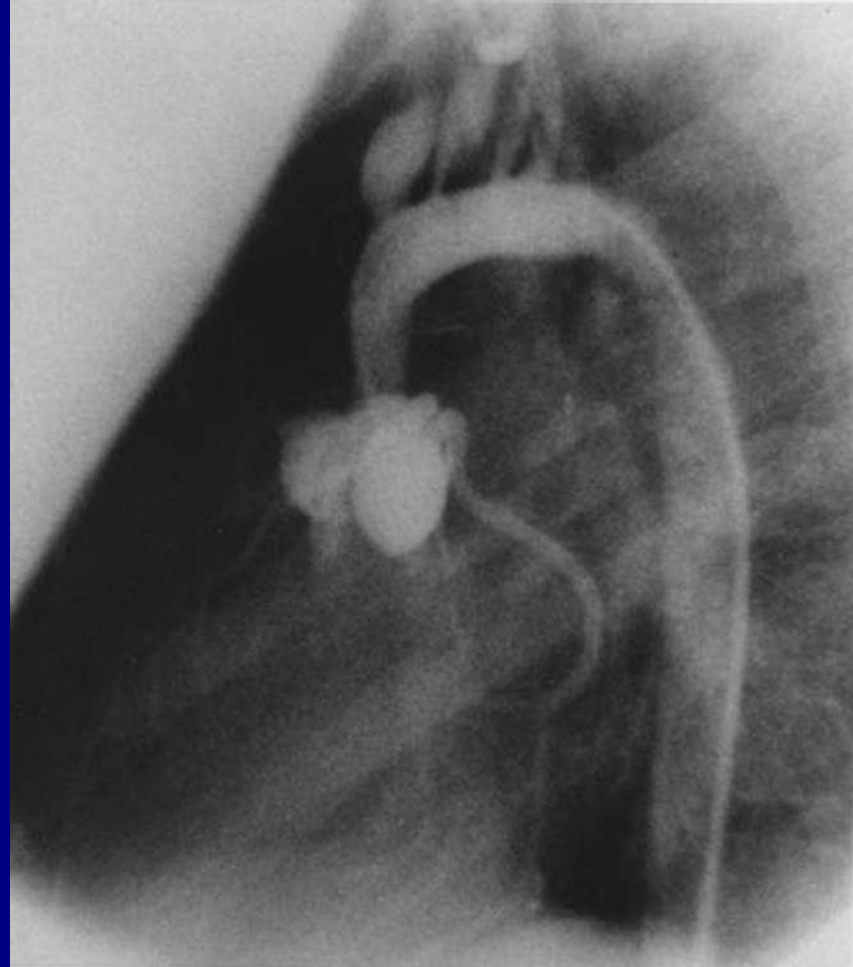
DISEASE	INCIDENCE
MARFAN SY.	2-3 /10 000
LOEYS-DIETZ SY.	Not known
BICUSPID AORTIC VALVE	1-2/100
EHLERS.DANLOS SY	1/75 000
SUPRAVALVULAR AORTIC STENOSIS	1/2000

PATHOLOGIC CHANGES OF ASCENDING AORTA IN DISEASES OF CHILDREN AND YOUNG ADOLESCENTS

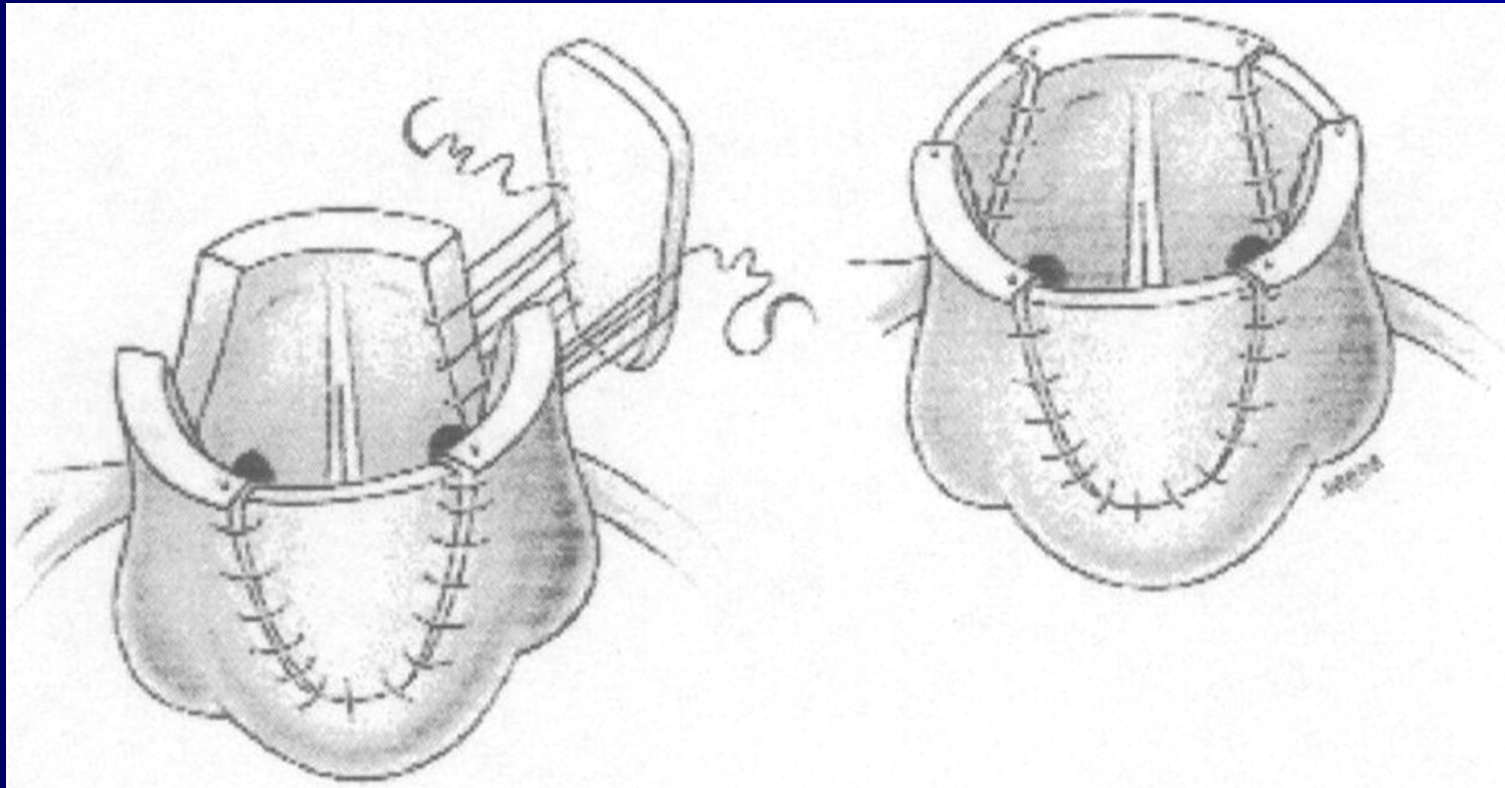
DISEASE	ANEURYM	DISSECTION
MARFAN SY.	+++	++
LOEYS-DIETZ SY.	+++	+++
BICUSP.AO.VALVE	++	++
EHLERS-DANLOS SY	+/-	+++
COARCTATION	++	+

**SURGICAL OPTIONS
TREATING ASCENDING
AORTIC DISEASES**

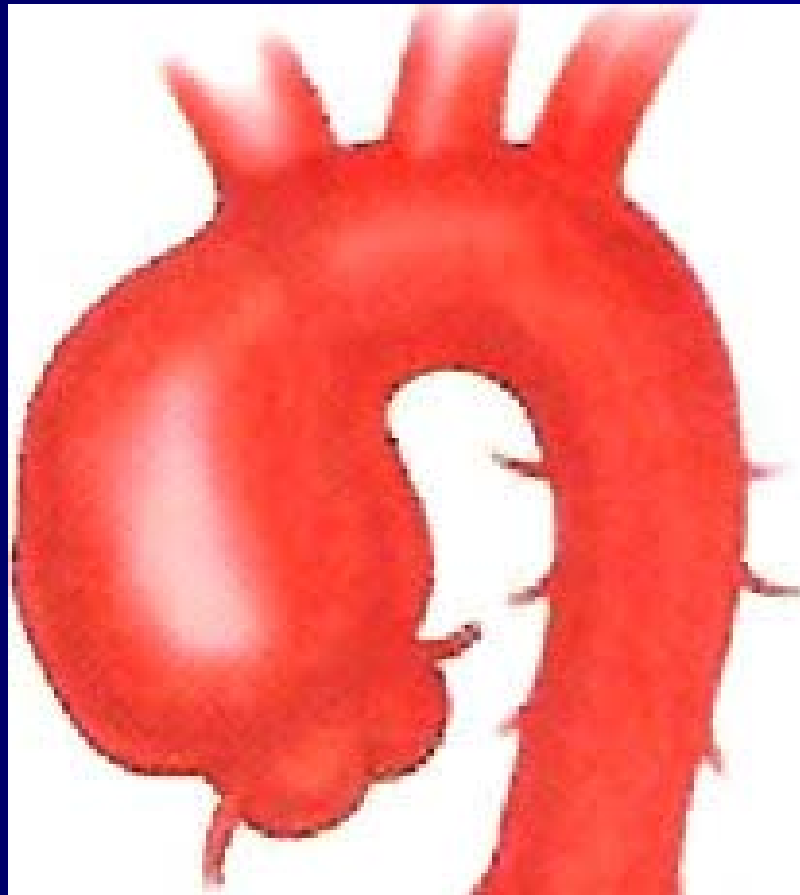
SUPRAVALVULAR AORTIC STENOSIS



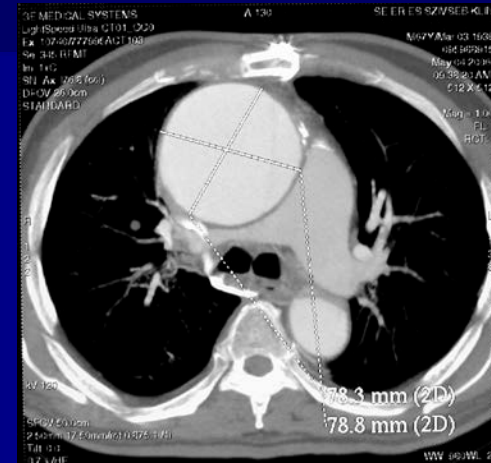
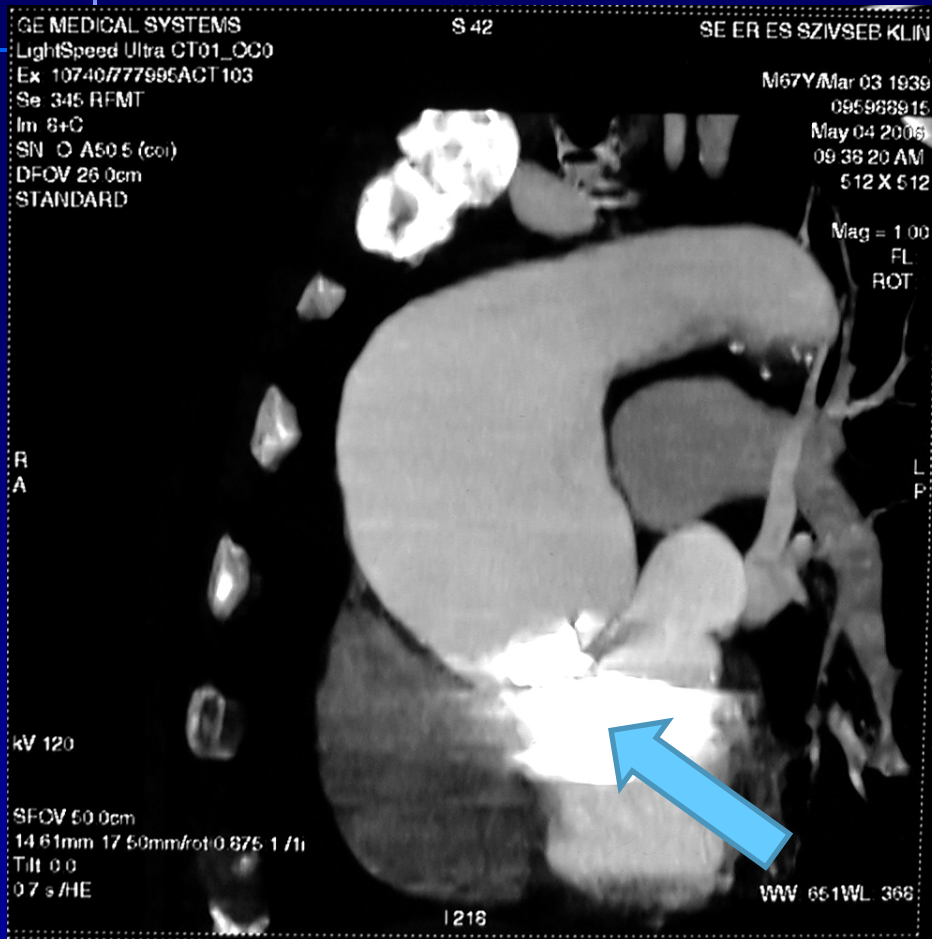
SUPRAVALVULAR AORTIC STENOSIS SURGICAL REPAIR



ISOLATED ANEURYSM OF THE ASCENDING AORTA

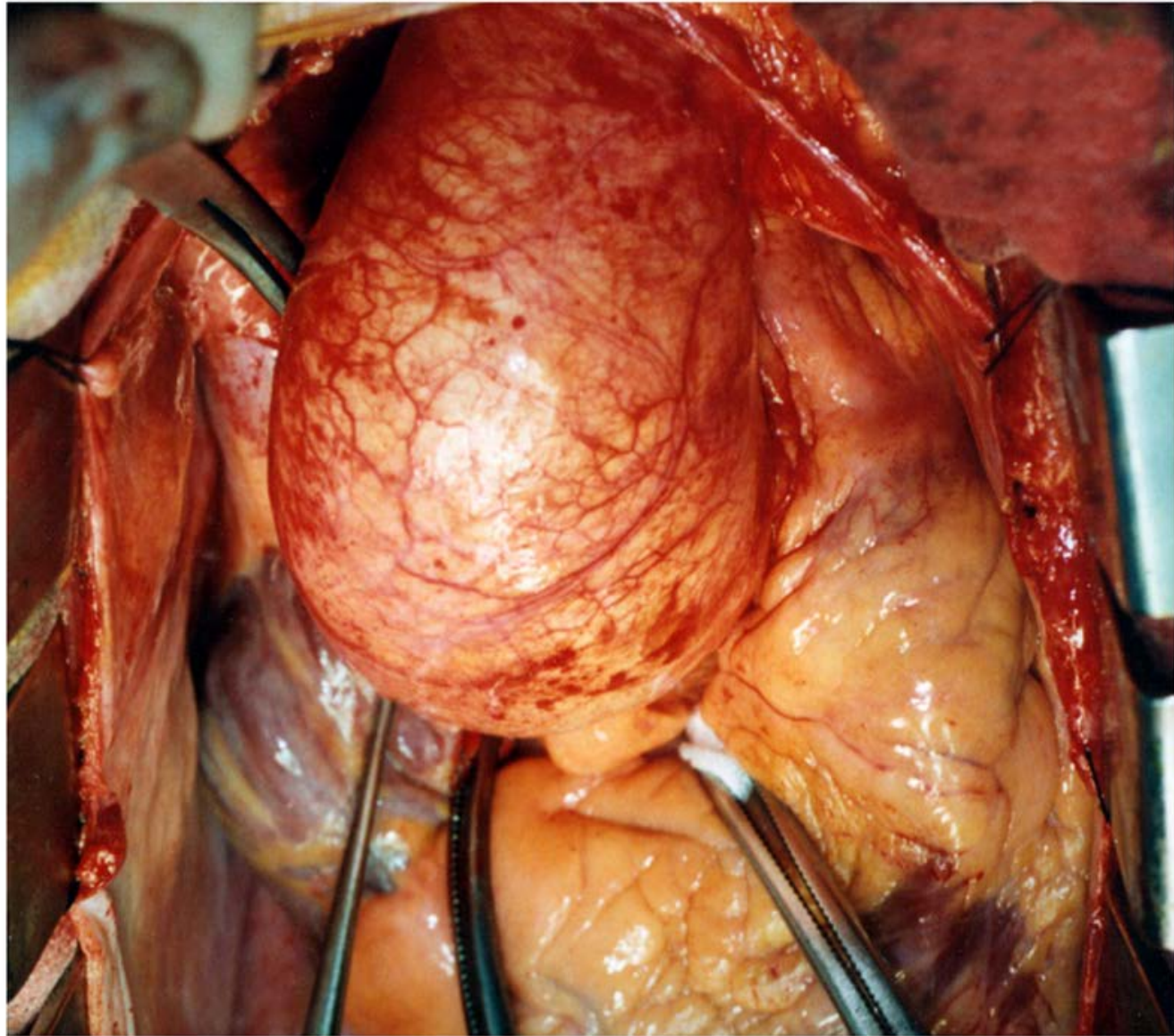


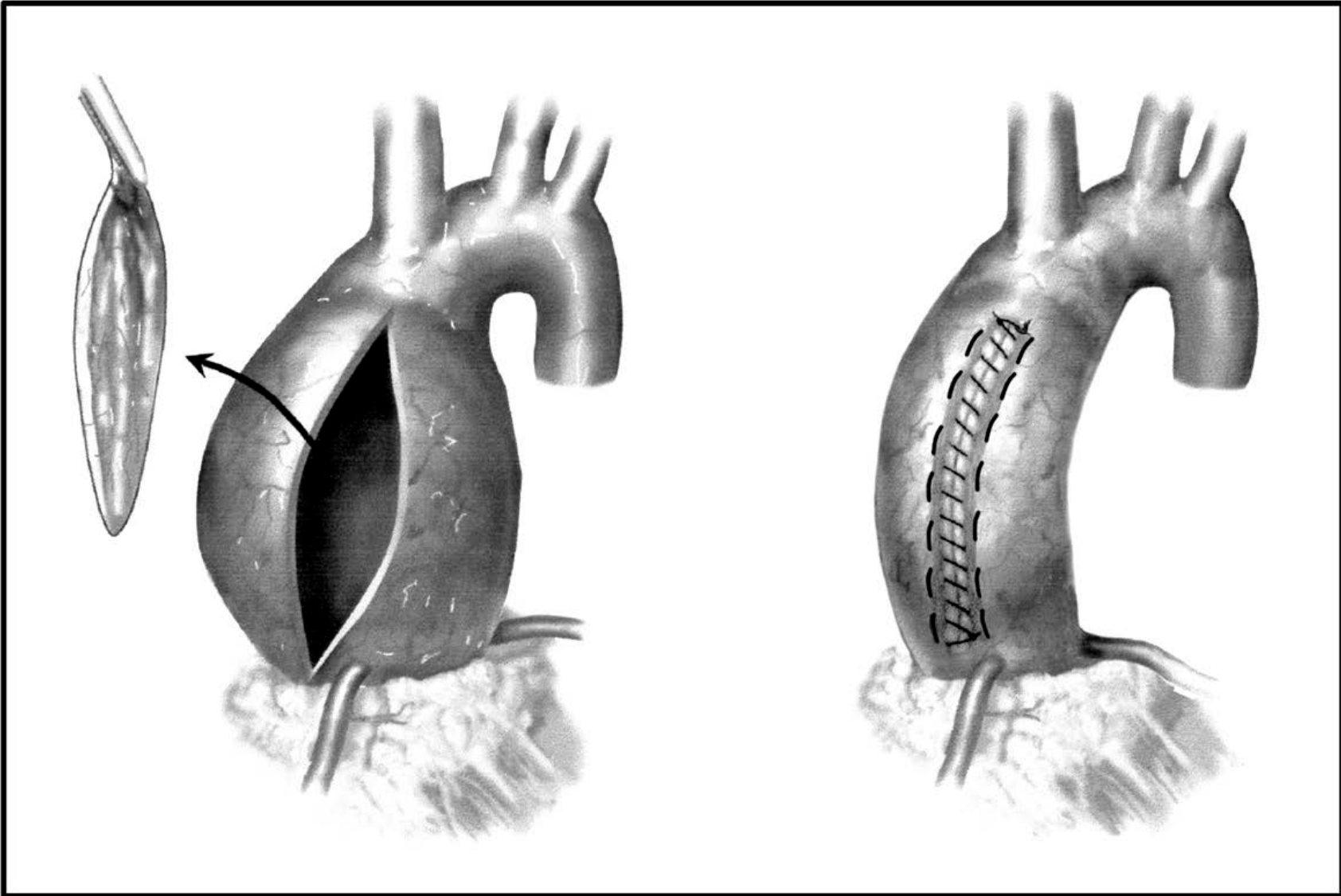
ASCENDING AORTIC ANEURYSM

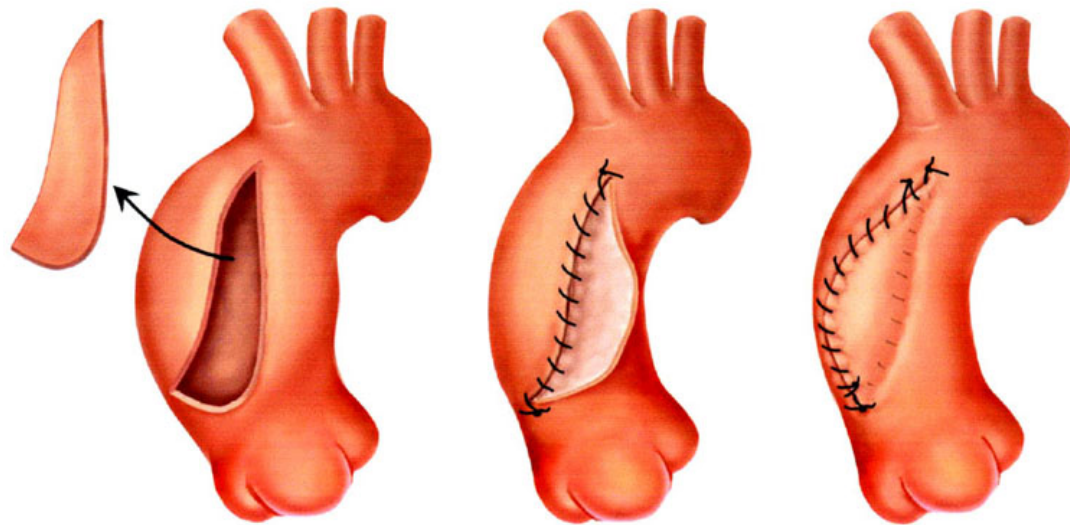


ASCENDING AORTIC ANEURYSM







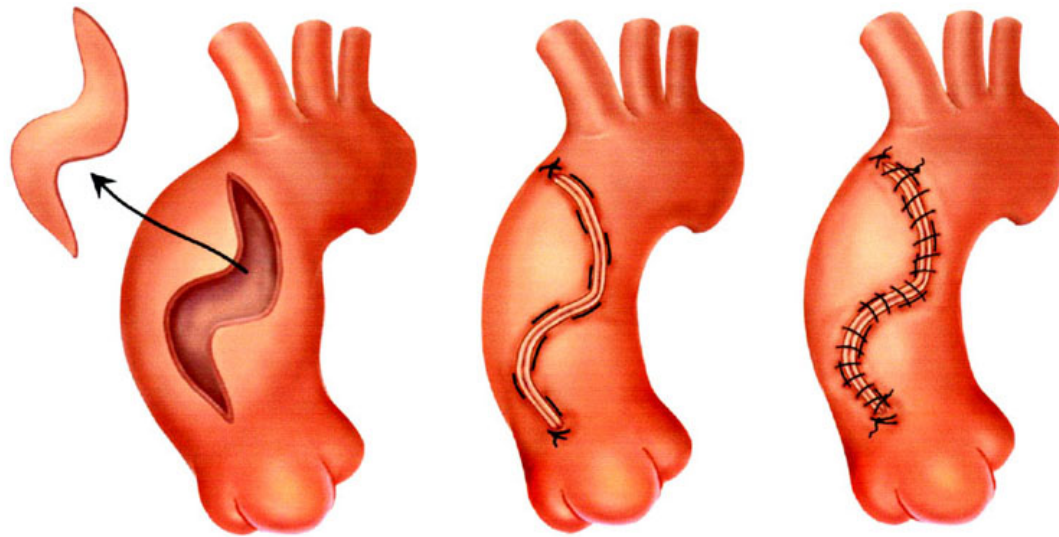


GROUP III

A

B

C

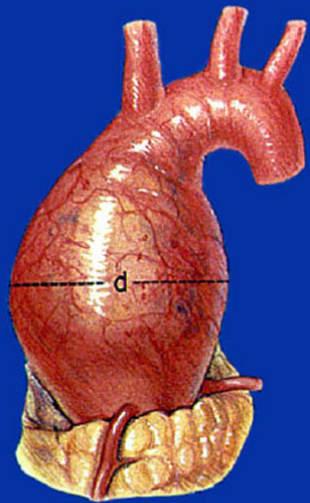


GROUP IV

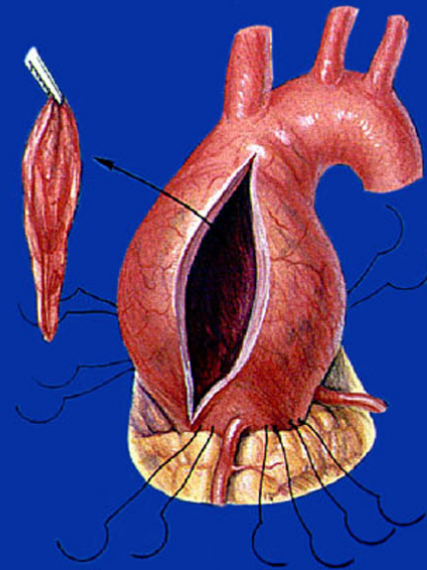
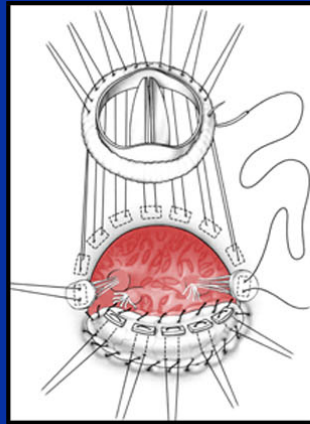
A

B

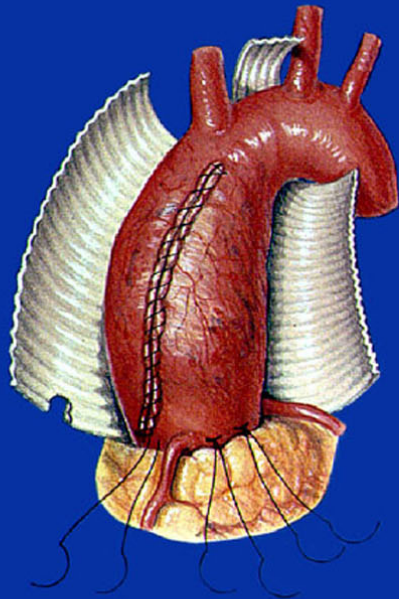
C



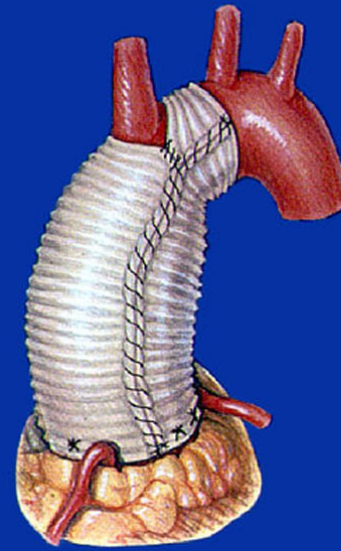
A



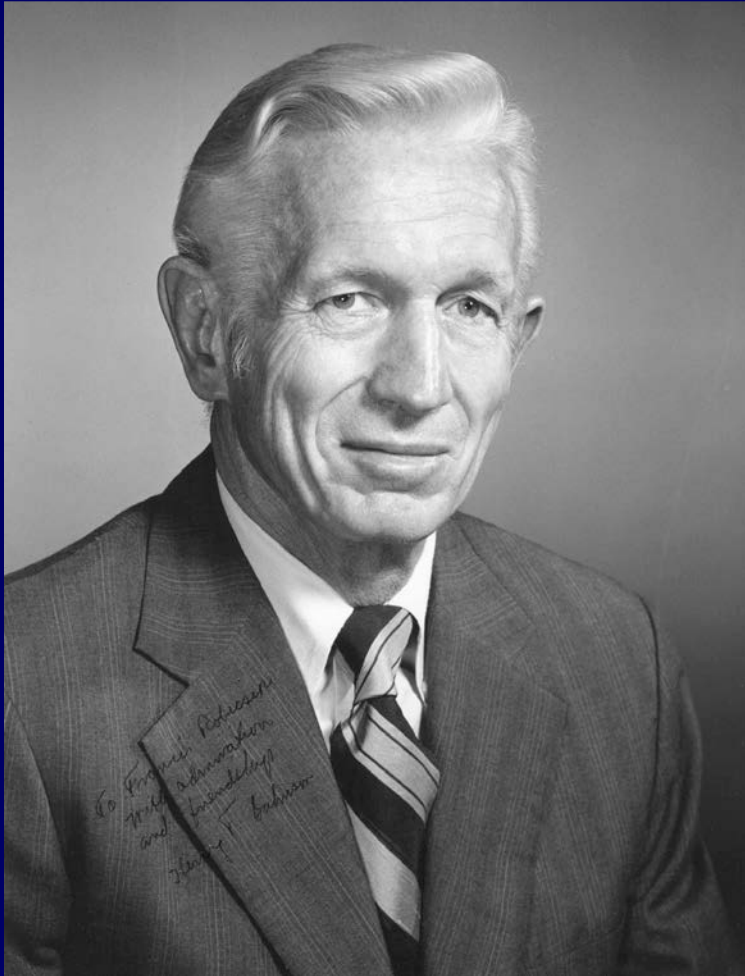
B



C

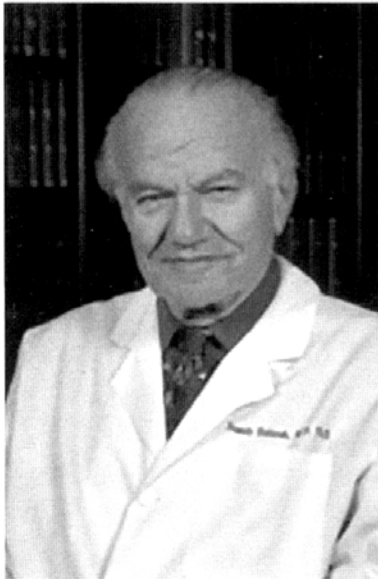


D



Size reduction ascending aortoplasty: Is it dead or alive?

Francis Robicsek, MD, PhD
Joseph W. Cook, MD
Mark K. Reames, Sr, MD
Eric R. Skipper, MD



Dr Robicsek

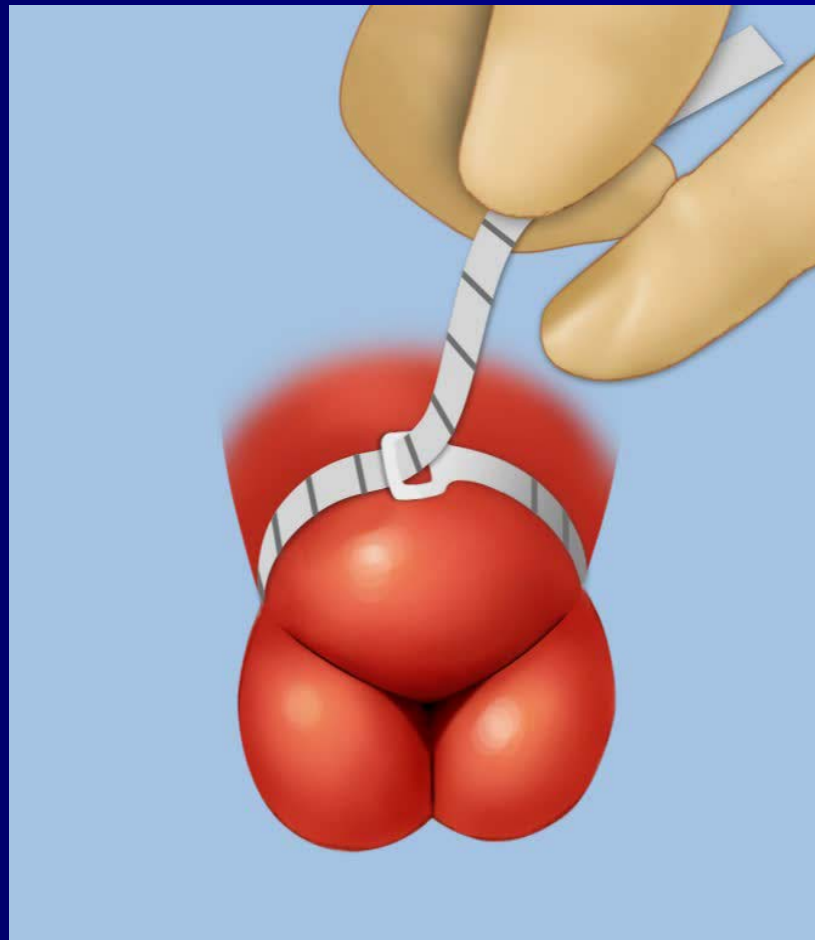
See related editorial on page 499.

Objective: Reduction ascending aortoplasty is a controversial procedure. Some believe that it can be appropriately applied when the anatomic features are favorable. Others suggest that it should be restricted to those patients who are at unacceptably high risk for more radical procedures, and there are also those who believe that reduction ascending aortoplasty should not be applied at all. The purpose of the article is to draw conclusions on the applicability of reduction ascending aortoplasty in modern cardiovascular surgery.

Methods: The issue was examined in the mirror of the authors' own experiences, by review and scrutiny of the literature available on the subject, and by conducting an extensive survey of the profession.

Results: We found that given proper indications (ie, poststenotic dilatations of <6 cm in diameter, absence of cystic medial necrosis, and a technique that decreases aortic diameter to <3.5 cm), nonreinforced reduction ascending aortoplasty performed concomitantly with aortic valve replacement appears to be a simple and safe procedure, with low morbidity and mortality and rare late complications. External reinforcement might extend the scope of indication for reduction ascending aortoplasty to ascending aortic aneurysms associated with aortic regurgitation and to those with primary structural aortic wall disease with comparable results. Experi-

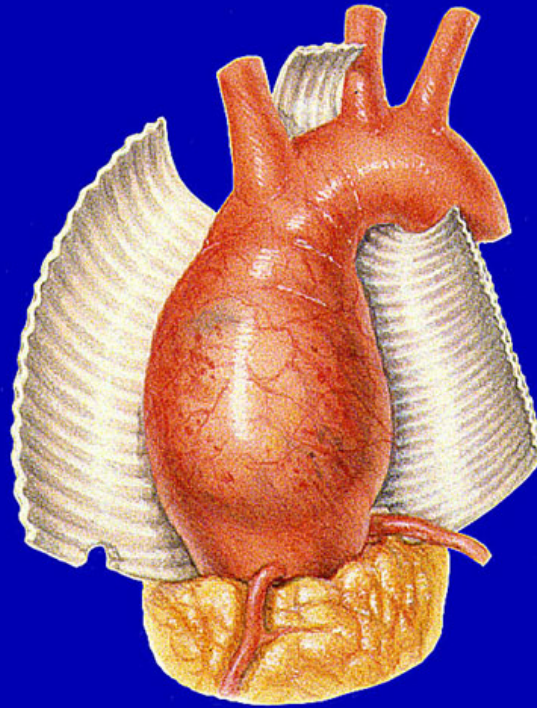
NEW CONCEPT OF WRAPPING THE ANEURYSM OF THE ASCENDING AORTA



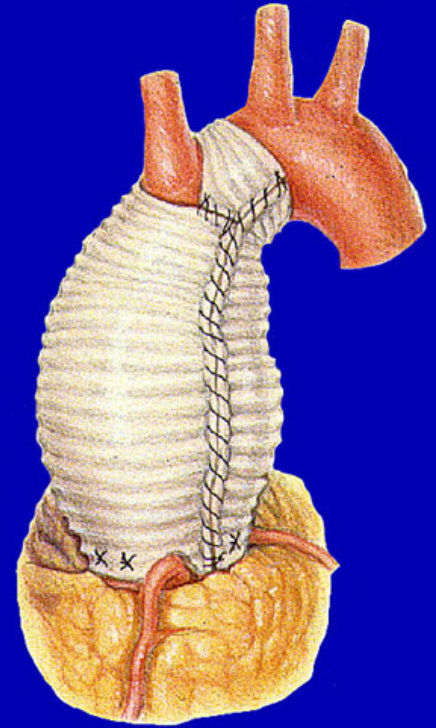




A

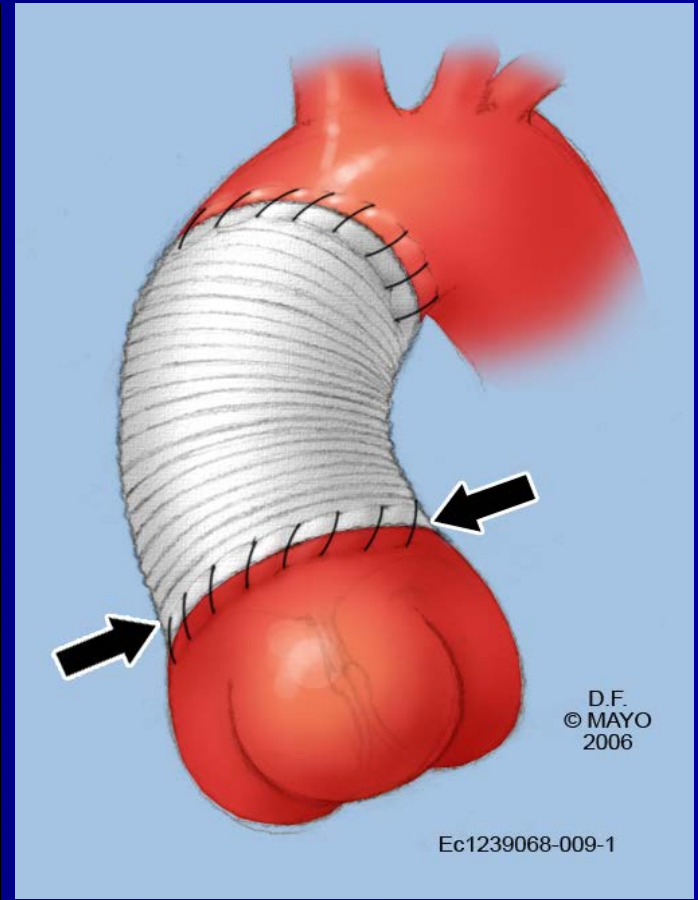


B



C

ASCENDING AORTIC GRAFT INTERPOSITION



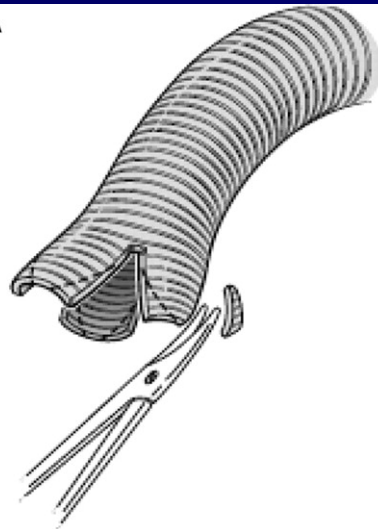
BENTALL-DE BONO PROCEDURE

ASCENDING AORTIC
ANEURYSM/ DISSECTION WITH
VALVULAR DISEASE

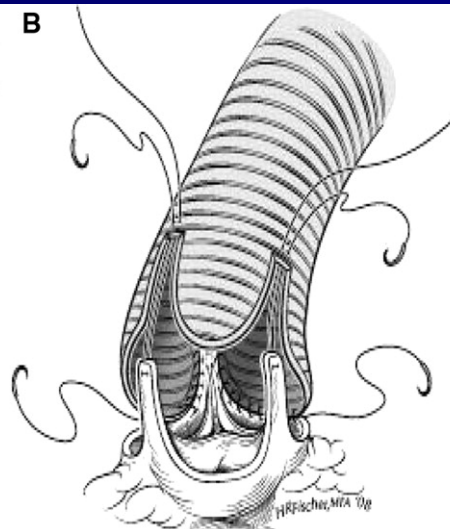


YACOUB'S OPERATION

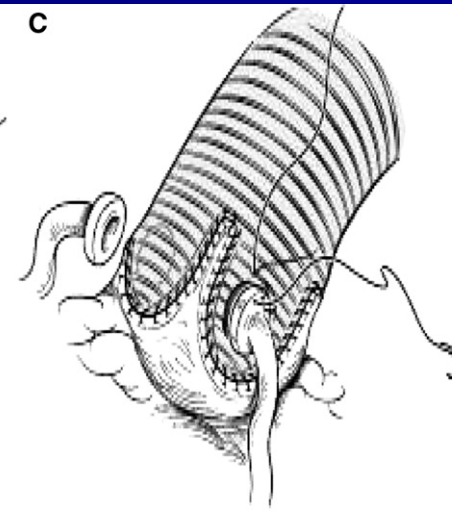
A



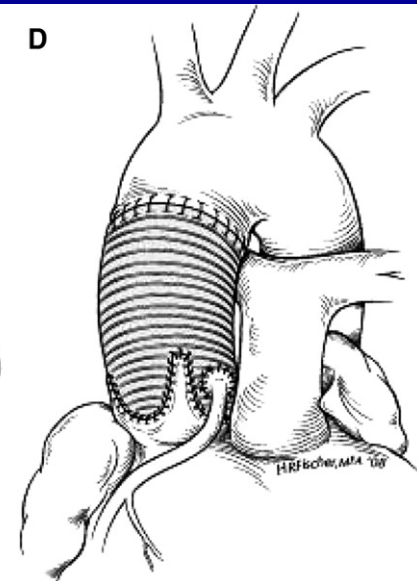
B



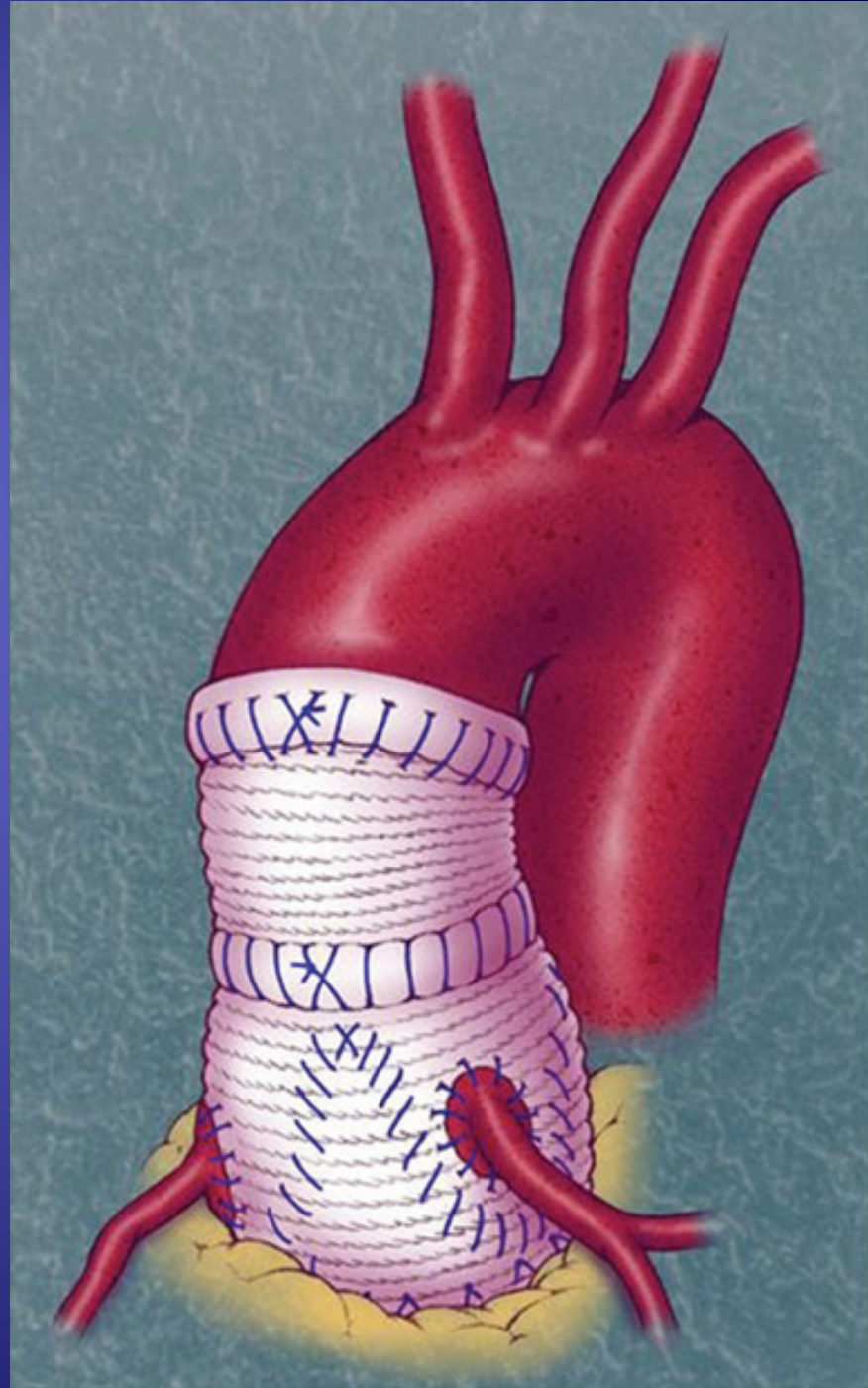
C



D



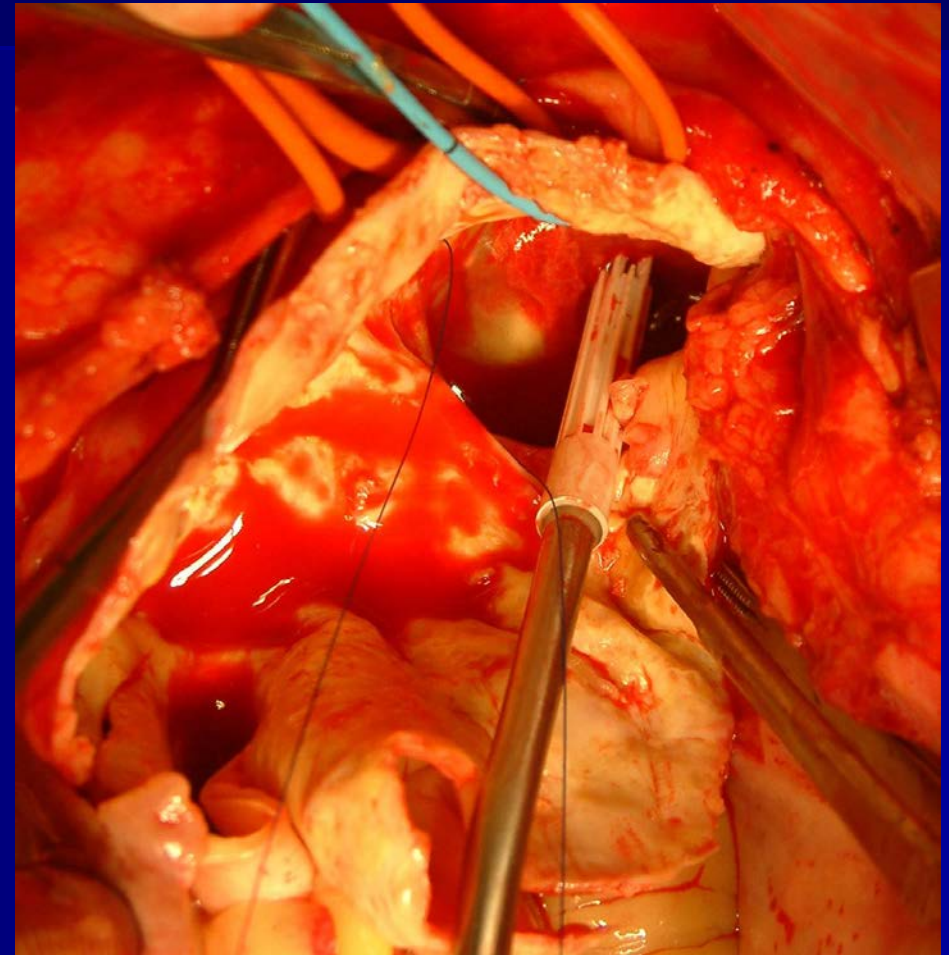
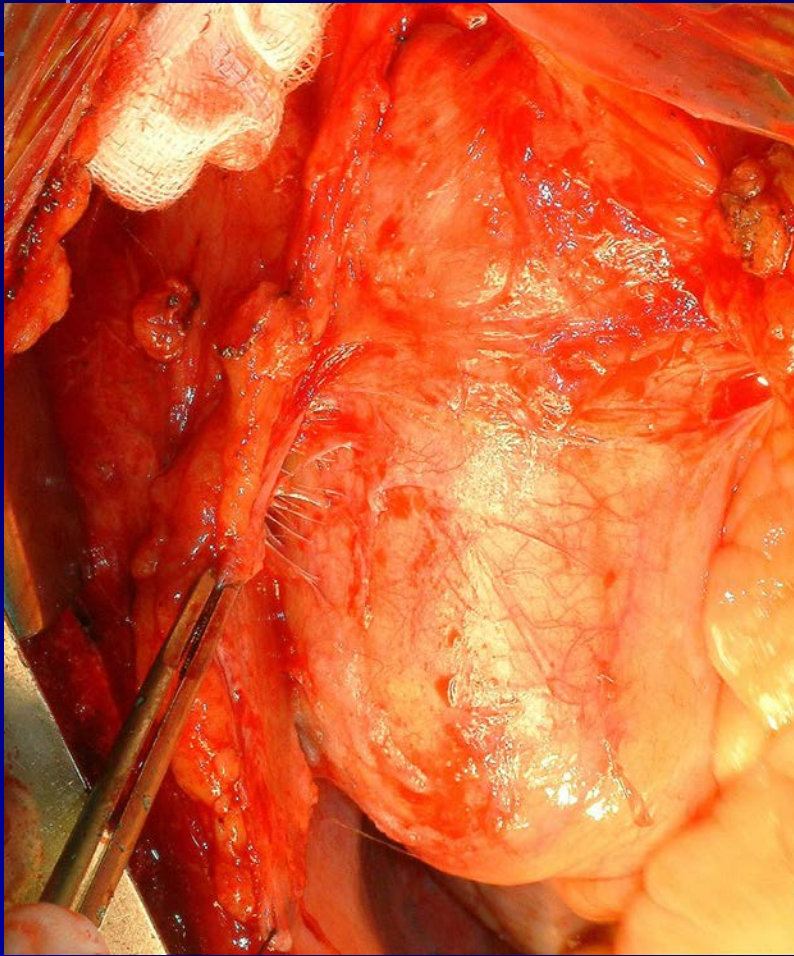
TIRONE DAVID'S PROCEDURE



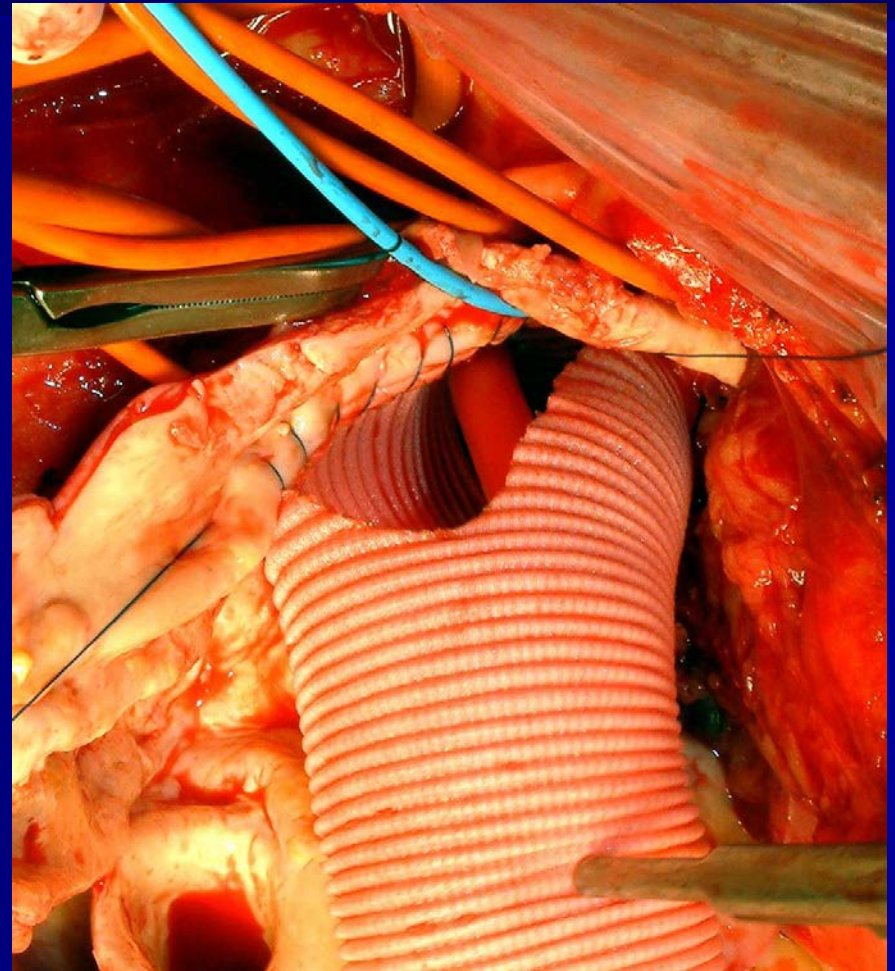
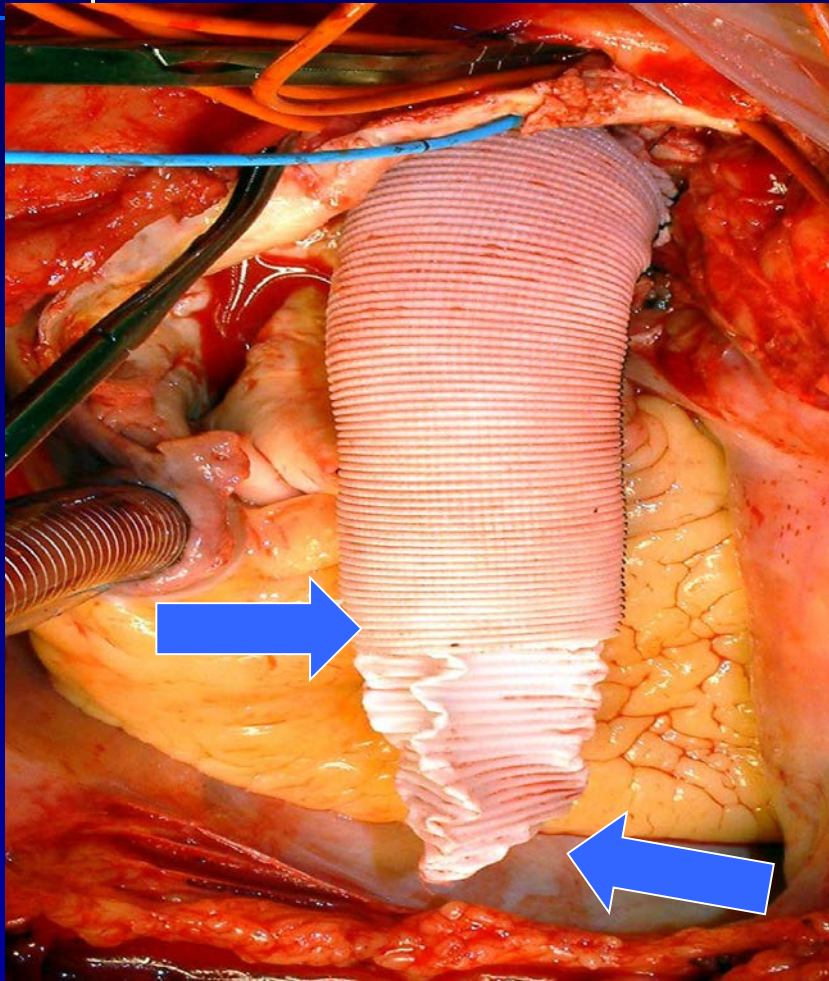
EXTENDED COMPLEX ANEURYSM OF THE THORACIC AORTA



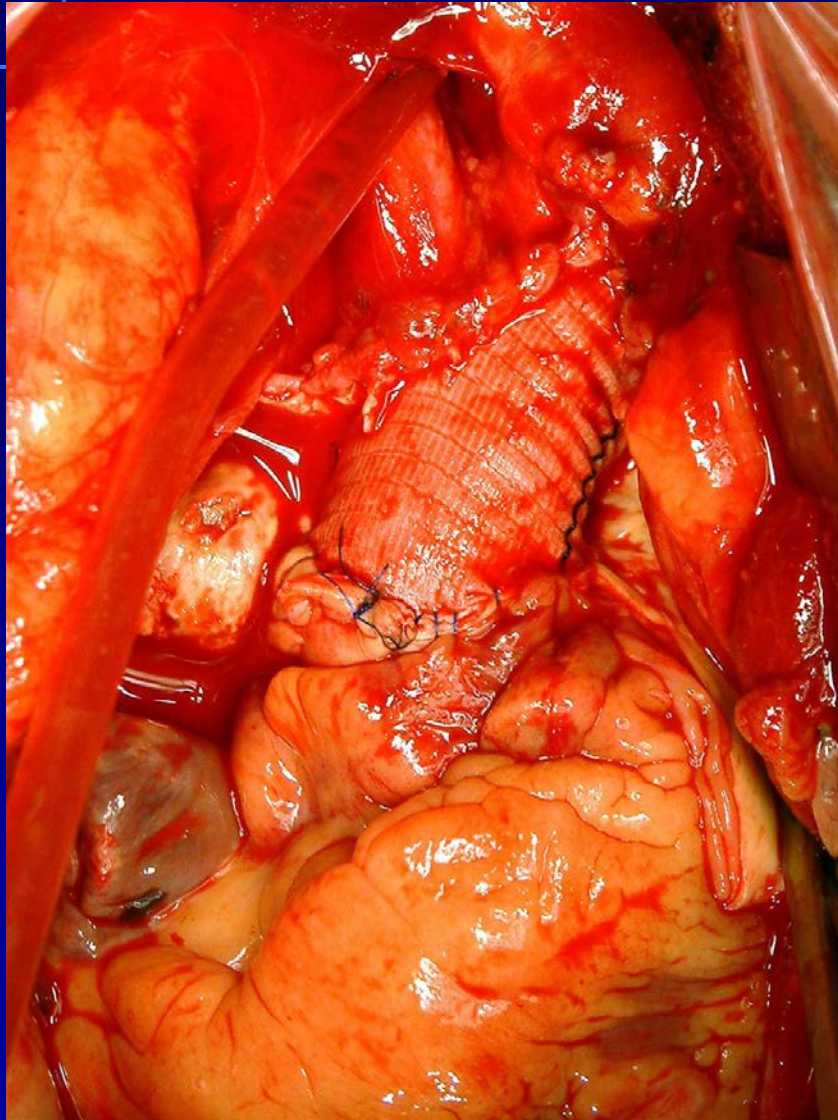
EXTENDED COMPLEX ANEURYSM OF THE THORACIC AORTA



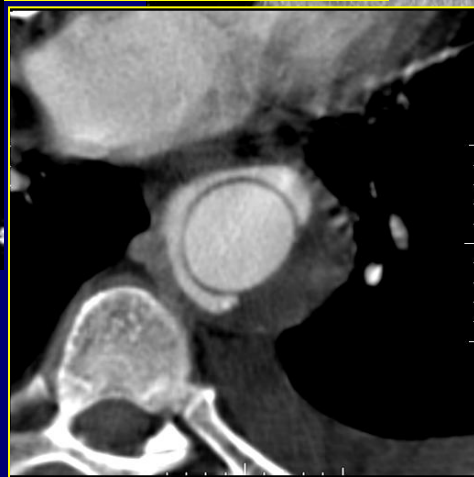
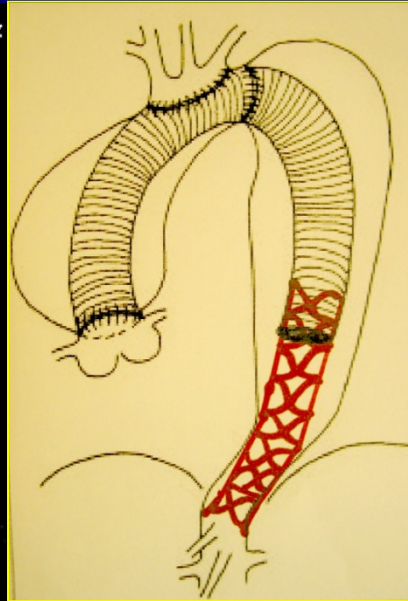
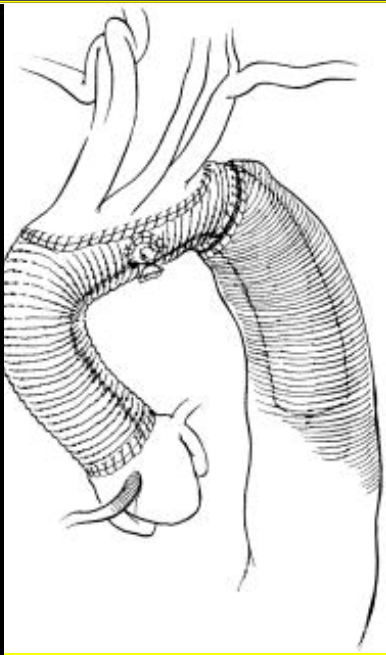
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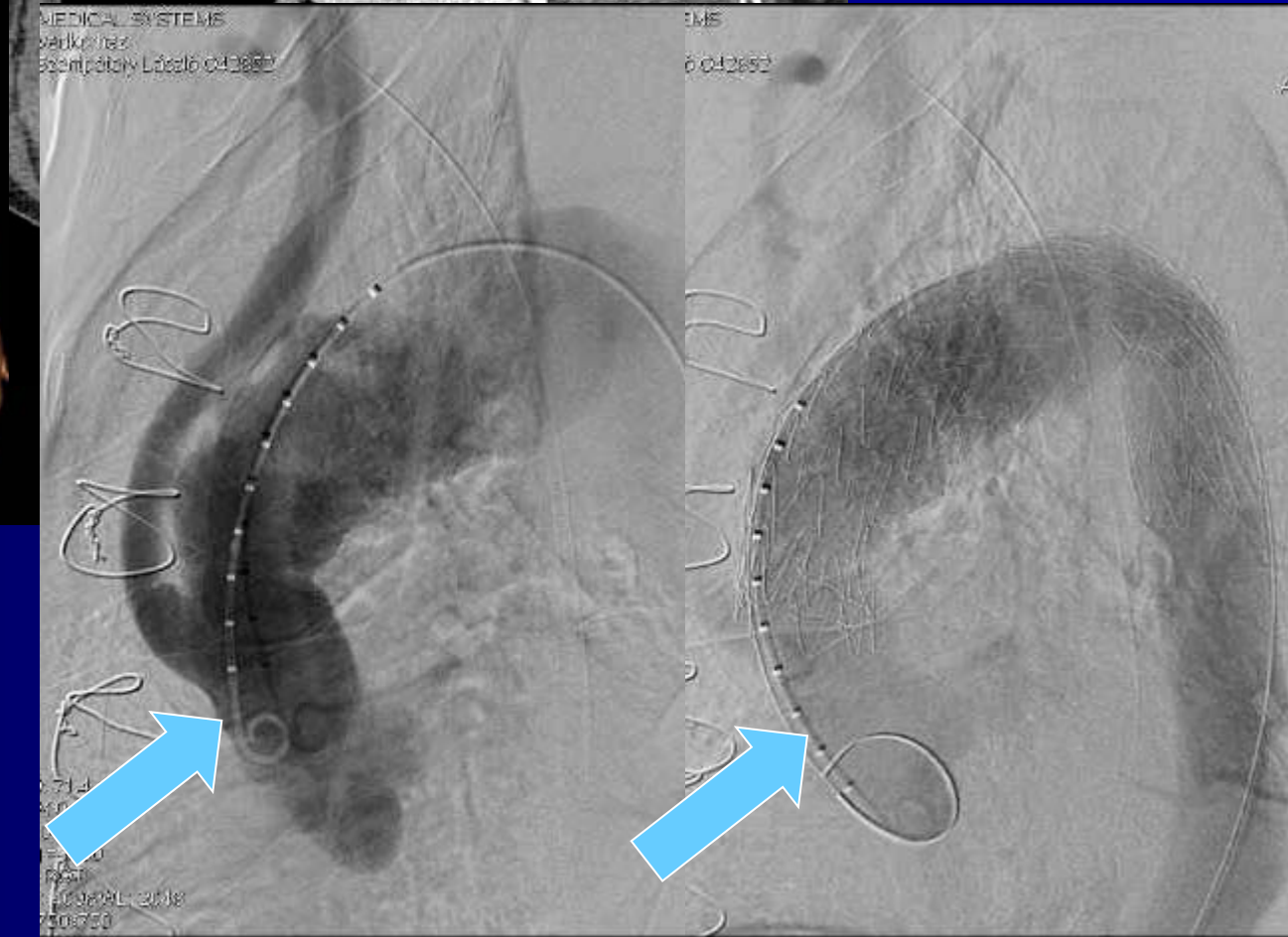
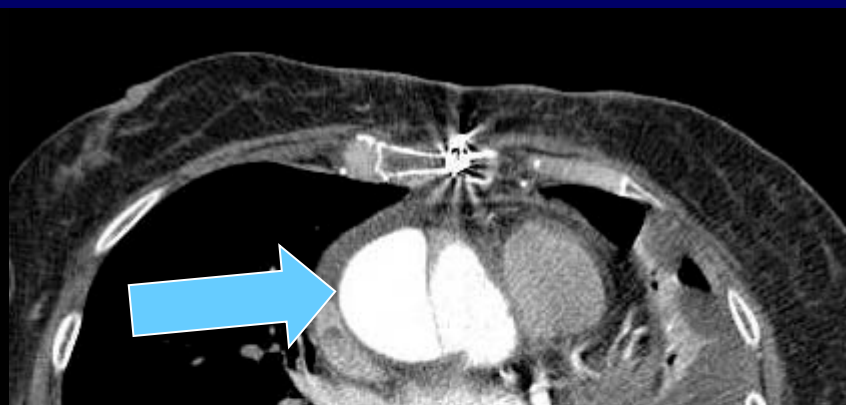
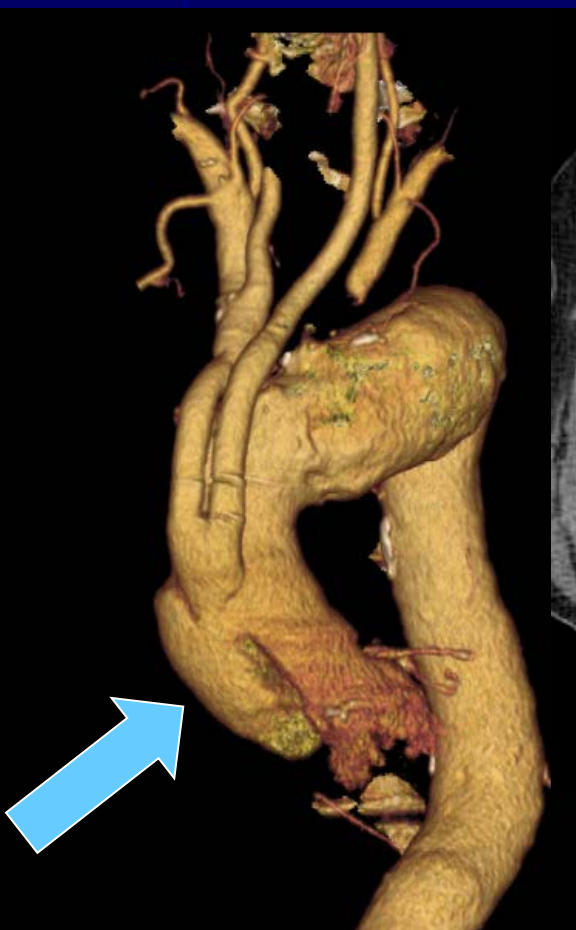


EXTENDED COMPLEX ANEURYSM OF THE THORACIC AORTA



EXTENDED COMPLEX ANEURYSM OF THORACIC AORTA-ENDOGRAFT FIXATION OF THE ELEPHANT TRUNK





FACTS PREVENTING ENDOVASCULAR TREATMENT OF ASCENDING AORTIC PATHOLOGIES

**NO PLACE FOR SAFE PROXIMAL FIXATION
FREQUENT CONCOMITANT VALVE DISEASE
CLOSE LOCATION OF ORIFICES OF
CORONARY ARTERIES
DISEASED CORONARIES
BAD QUALITY OF AORTIC WALL**

ENDOGRAFTS FOR THE ASCENDING AORTA









Repair of Aortic Aneurysm

