Version 2.9

What's new with Valve and Aortic Sections?

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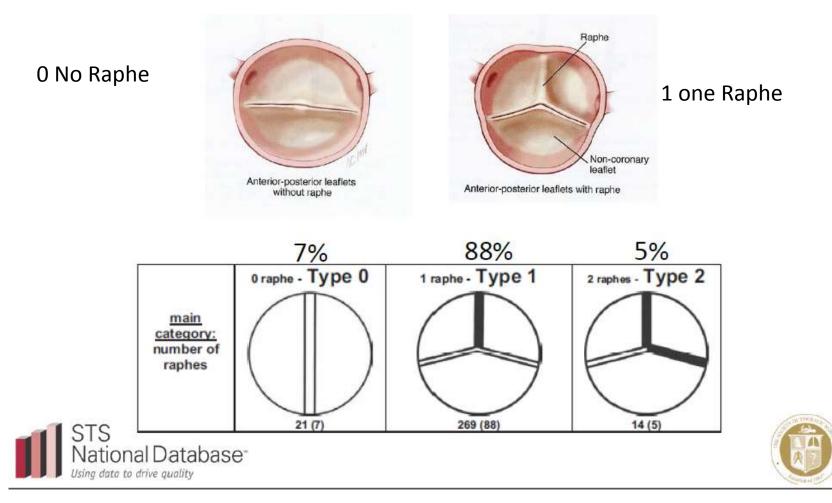
These slides are to be used for quality improvement by the MSTCVS member surgeon champions and data managers. Each slide includes the MSTCVS confidentiality statement.

Section H-Hemodynamics/Cath/Echo

Aortic Valve

Seq#	Field Name	Details
1591	Eccentric Jet	-If AI is not None-Echo report-description of regurgitation
1616	Max Aortic Jet Velocity- Vmax	Find on Echo, common measurement for AS
1646	AV Disease Etiology	-New choices -Can only pick 1 -If multiple, Mixed Etiology -Not Documented added -Other Removed
1647	Sievers Class	If Etiology is Bicuspid

Sievers Class (#1647)



Section H-Hemodynamics/Cath/Echo Mitral Valve

Seq#	Field Name	Details
1681	Eccentric Jet	-If MR is not None -Echo Report-description of regurgitation
1731	MV Disease Etiology	-New choices -Can only pick 1 -If multiple, Mixed Lesion -Not Documented added -Other Removed
1746	MV Lesion	-New choices -Can only pick 1 -If multiple, Mixed Lesion -Not Documented added -Other Removed

Removed Carpentier Mitral leaflet motion classification

Section H-Hemodynamics/Cath/Echo

Tricuspid and Pulmonic Valves

Seq#	Field Name	Detail
1811	TV Etiology	-New choices -Can only pick 1 -If multiple, Mixed Lesion -Not Documented added -Other Removed
1855	PV Etiology	-Can only pick 1 -If multiple, Mixed Lesion -Not Documented added -Other Removed

Section K-Aortic Valve Surgery

Seq#	Field Name	Details
3395	Procedure Performed	 Procedures separated now Separated TAVR from SAVR More AV repair choices
3407, 3408, 3409	Surgical Valve Replacement Device Type Valve Type	-Device-added Surgeon Fashioned -Valve type-more detail for bioprosthetic valves
3460, 3461	Aortic Annular Enlargement Technique	Must choose annular enlargement technique
3462-3468	Root Procedure	Separated into With Valve, Valve Sparing and Reconstruction/Debridement Fill out Section M.2
3469	Patch Used	Was patch used for AV operation and what kind

Section K-Aortic Valve Surgery

Seq# 3409 Valve Type



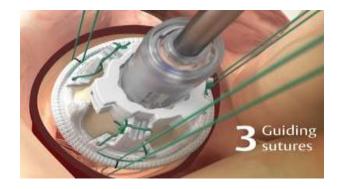
© St. Jude 2017

Stented



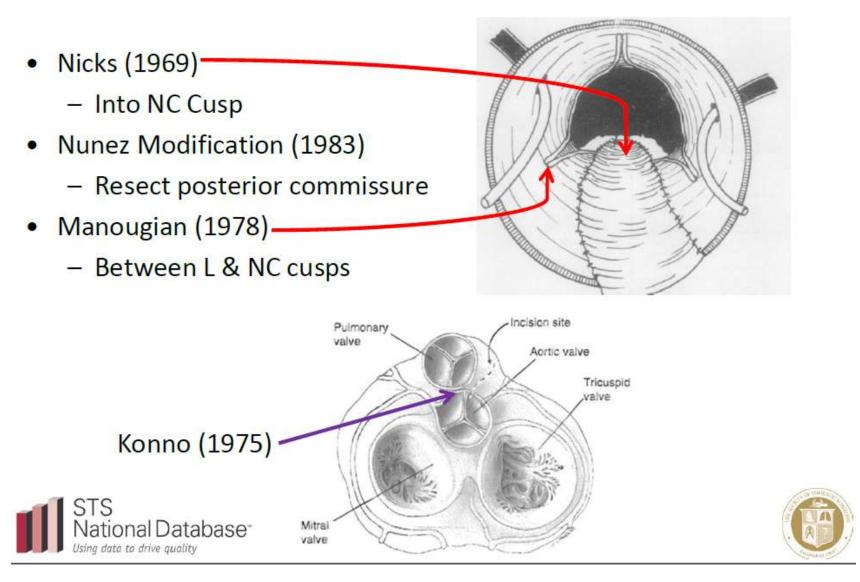
© Medtronic 2017 *

Stentless



Edwards Intuity Rapid Deployment valve

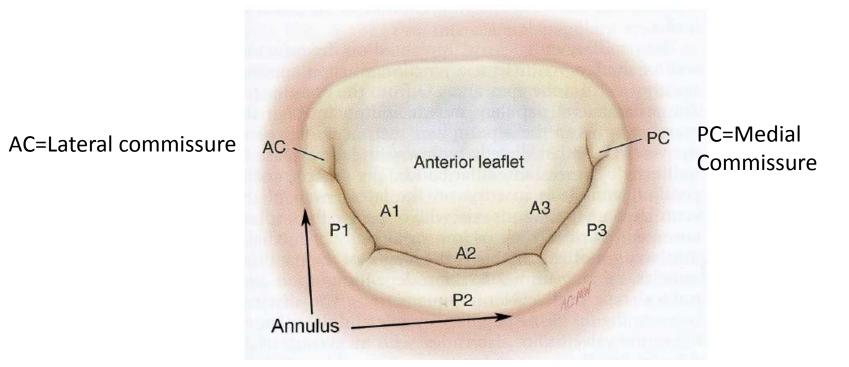
Aortic Annular Enlargement



Section K-Valve Surgery

• Seq# 3500 Mitral Valve

- Very specific MV repair details-Seq# 3501-3591



Section K-Valve Surgery

- Seq#3640 Tricuspid Valve
 - Changed to Repair, Replacement or Valvectomy
 - From 2.81 Annuloplasty only, Reconstruction with annuloplasty and Reconstruction without annuloplasty = Repair in 2.9

Seq#3701 Pulmonic Valve
 Added Surgeon Fashioned Valve for Implant Type

Section K-Valve Surgery

• To prevent this



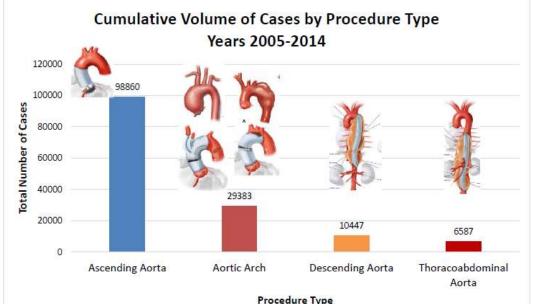
Need Surgeon Input!!!!!





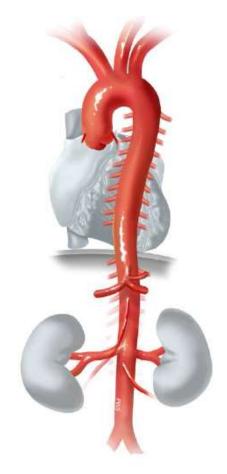
Section M.2 Aorta And Aortic Root Procedures

- Added 298 fields in this section
- Very specific procedural information
- Many fields are for multiple device/implants



Section M.2 Aorta and Aortic Root Procedures

- Clear identification of patient phenotype
- Implantation details/Device-specific information
- Accommodation for Concurrent and Staged Hybrid procedures
- Detailed perioprocedural/30 day outcomes
- Aortic-Specific long-term follow-up for post-marketing analyses



Section M.2

• To prevent this

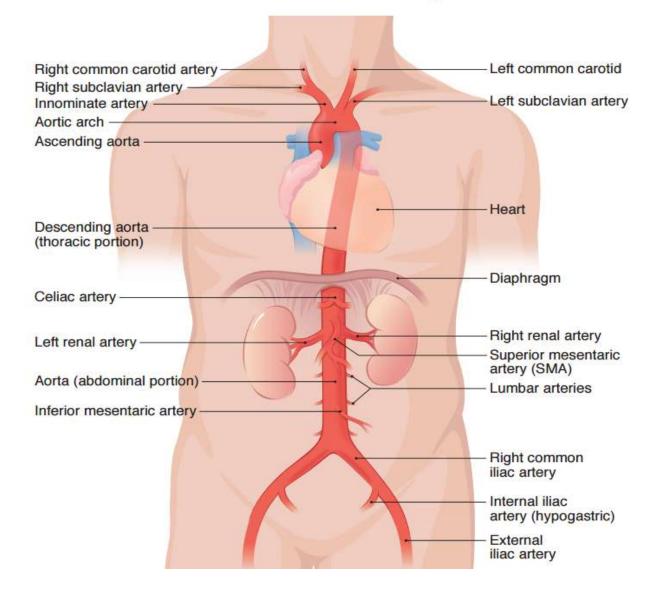


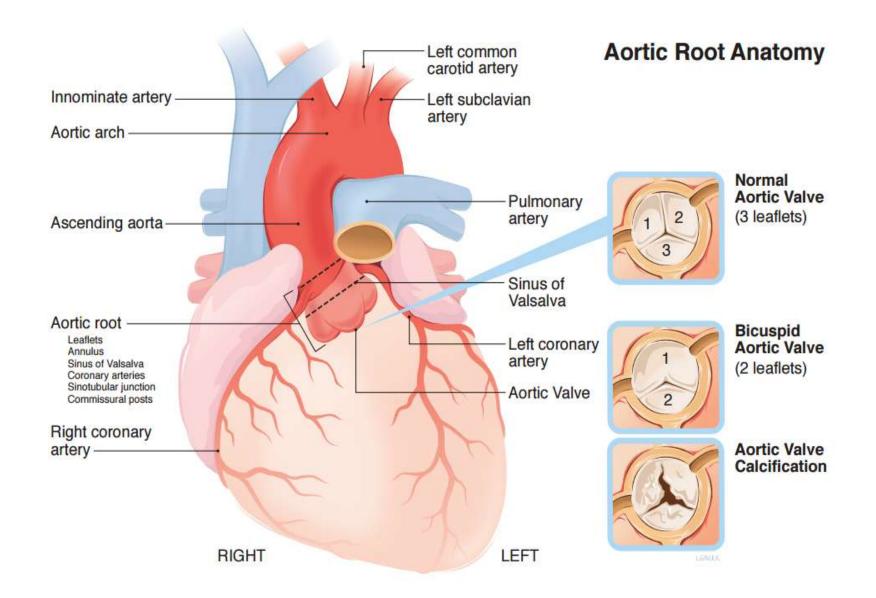
Need Surgeon Input!!!!!





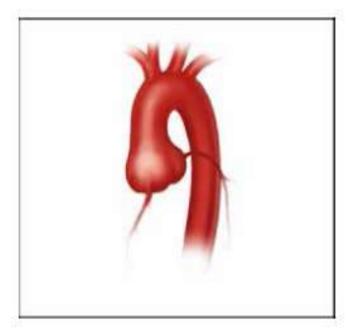
Normal Aortic Anatomy





Root Pathology

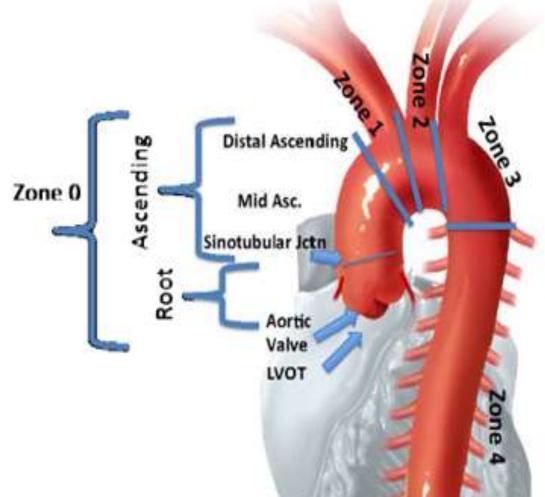
Seq# 4855 Aorto-Annular Ectasia



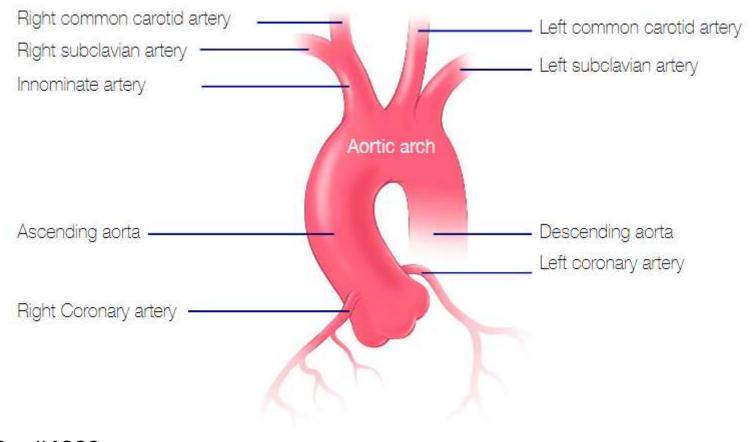
Seq# 4880 Sinus of Valsalva Aneurysm



Ascending Nomenclature

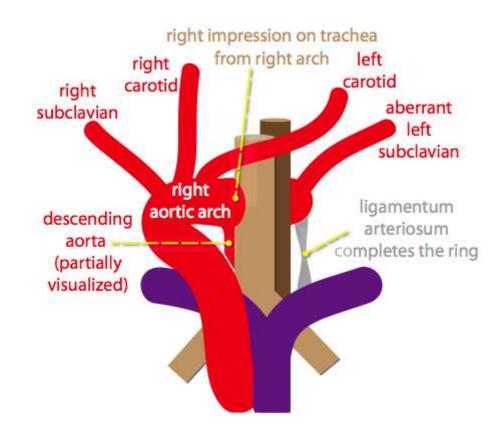


Arch Anatomy



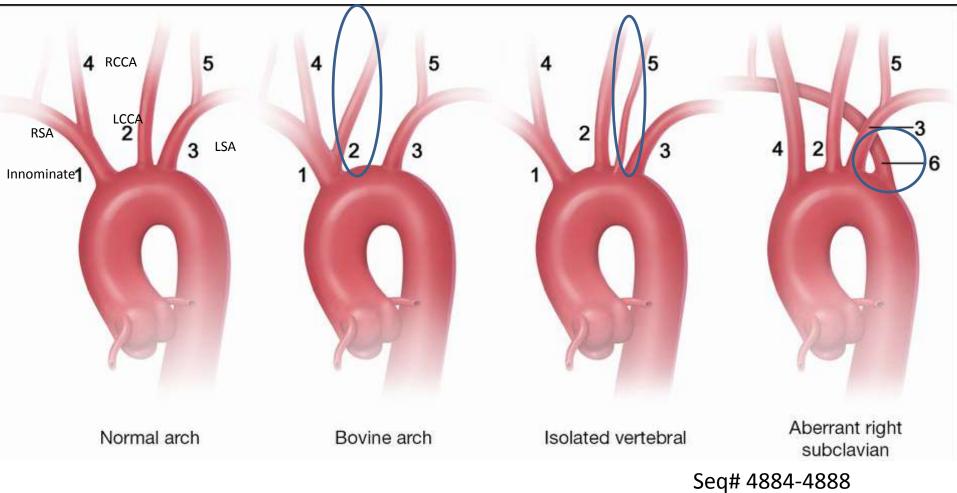
Seq#4882 Left Arch- normal

Right Arch



Seq#4882 Right Arch -rare

Arch Anatomy

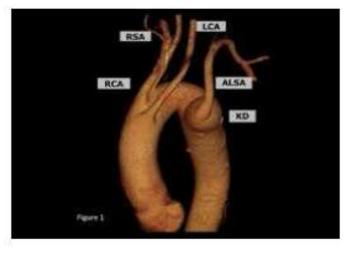


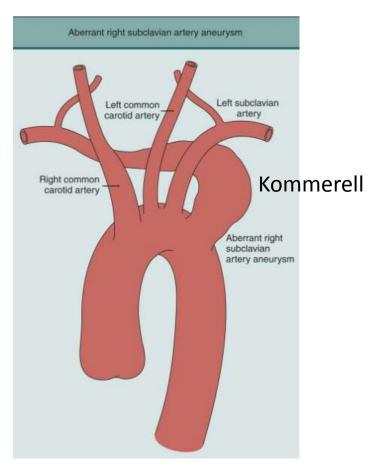
Annals of Cardiothoracic Surgery

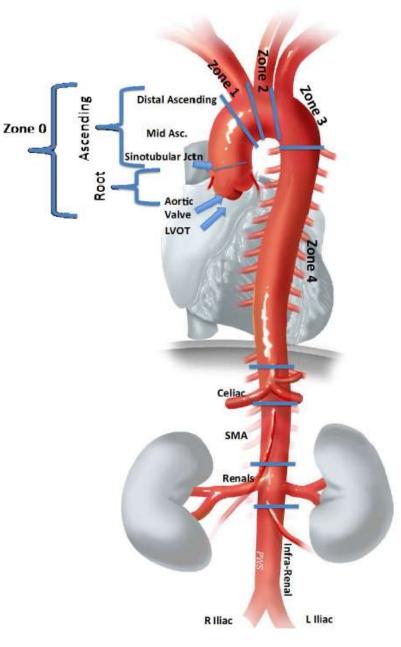
Arch Anatomy Kommerell and ALSA/ARSA

• Kommerell-Seq#4886

Diverticulum of Kommerrell

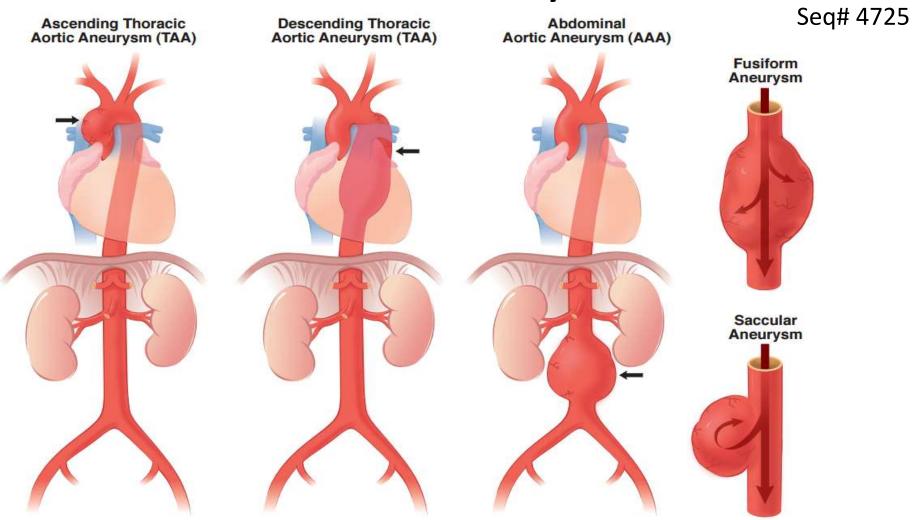






Important for Measurements 3D CT or non 3D CT Also for Device/Implant Location

Aortic Aneurysms

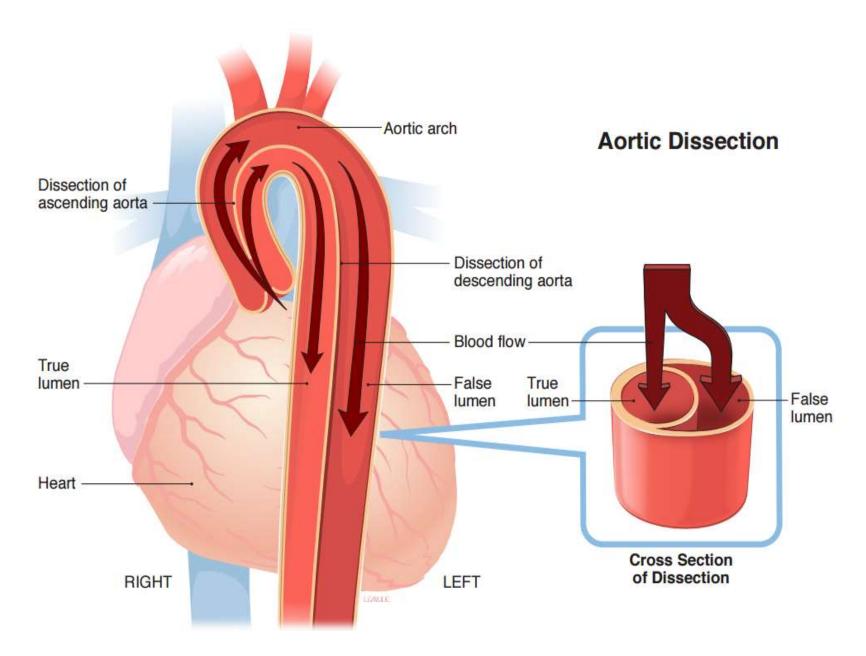


Aneurysms

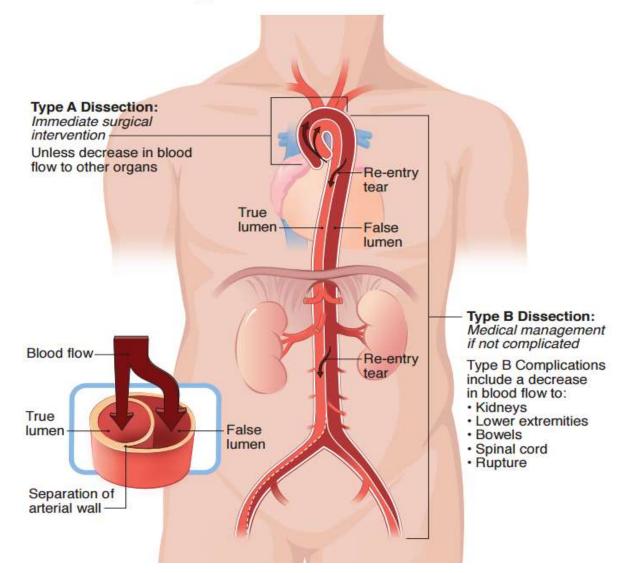




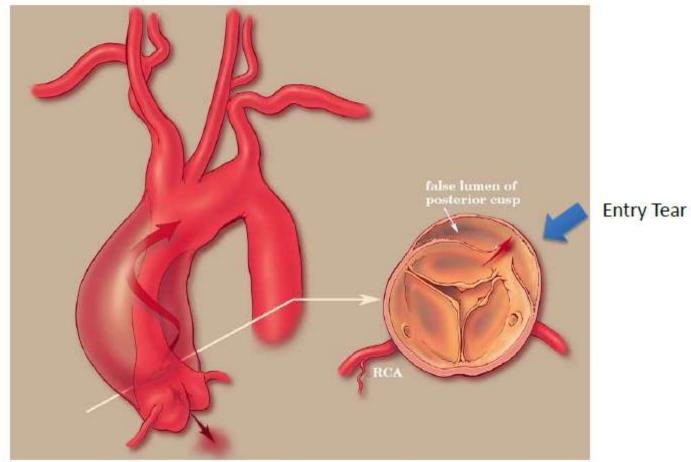
Large Saccular Aneurysm

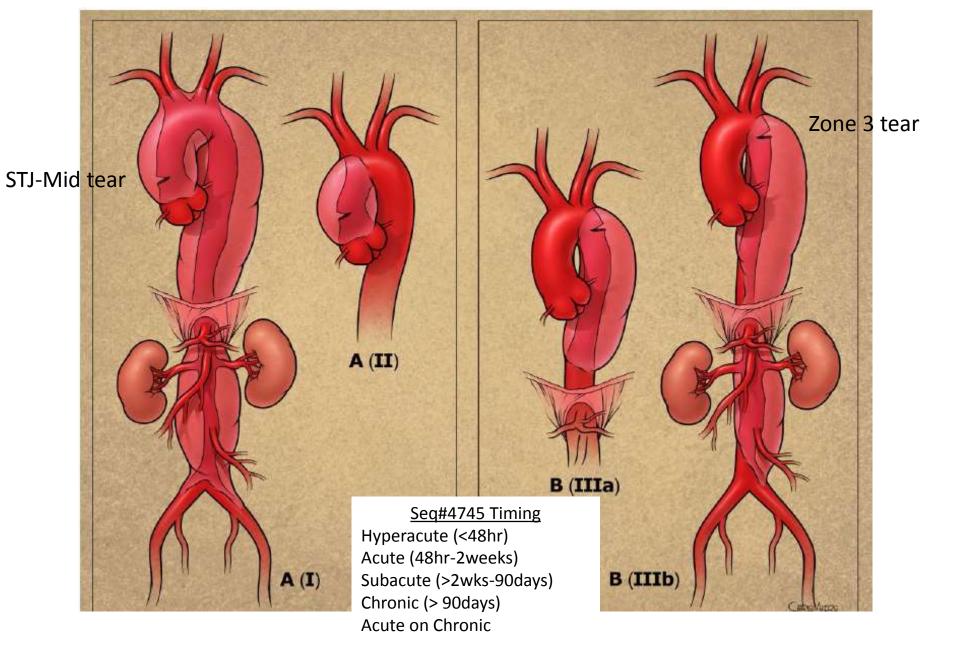


Types of Aortic Dissections

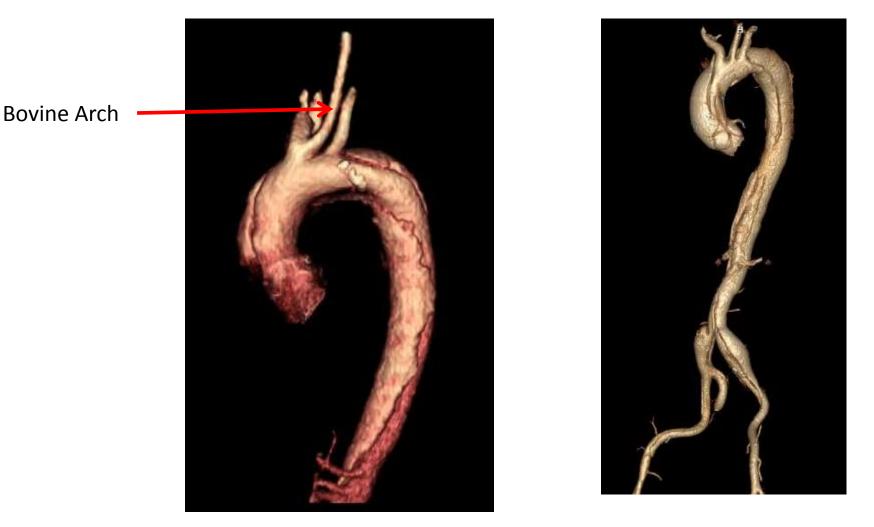


Aortic Dissection

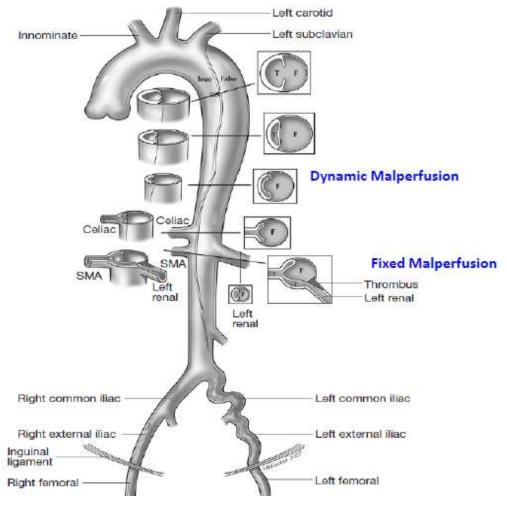




Aortic Dissection

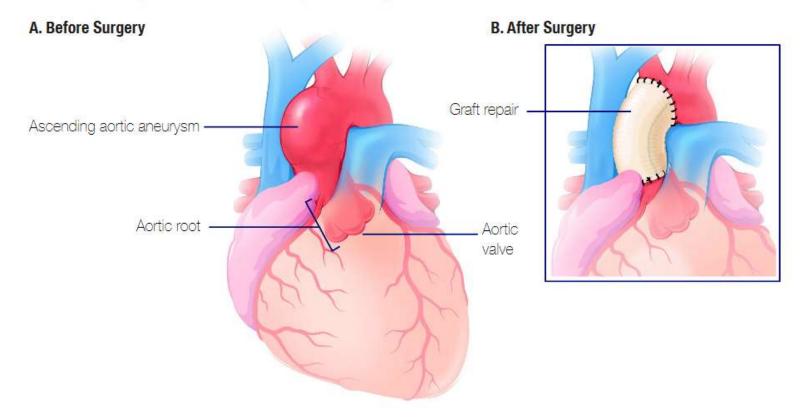


Seq#4785- Malperfusion Syndromes 4835

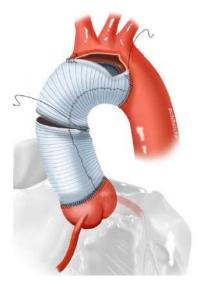


Operative procedures

Ascending Aortic Aneurysm Repair



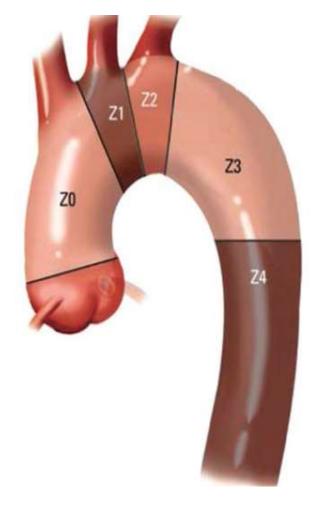
Hemi Arch



Open Arch

Zone 2 Arch





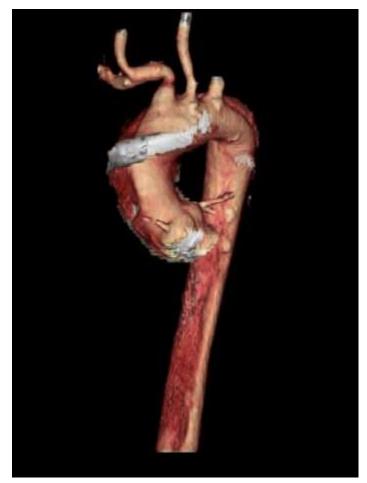
Zone 3 Arch Elephant trunk





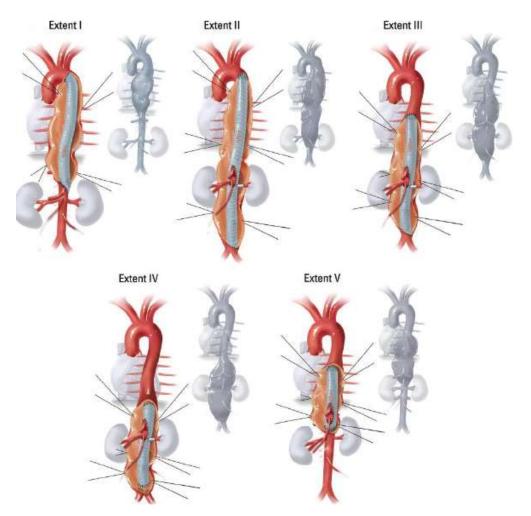
Zone 3 Arch Frozen Elephant trunk

Frozen Elephant Trunk





Open Descending and Thoracoabdominal

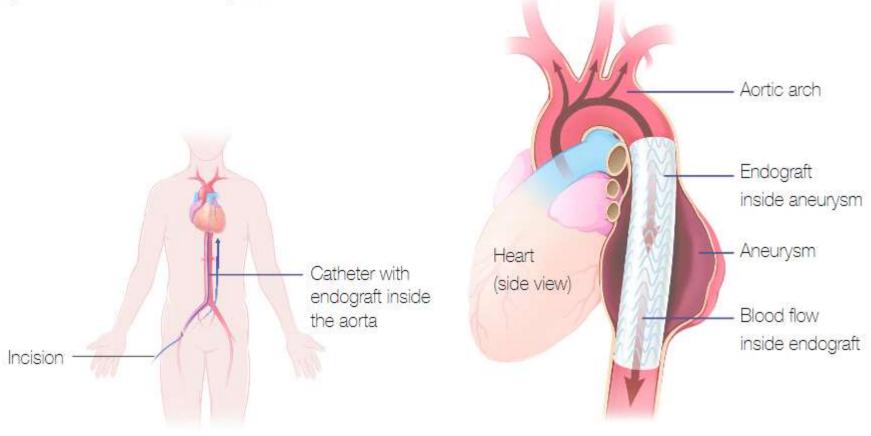


Endograft Repair of Aortic Aneurysm

A. Catheter Placement

A catheter is placed into an artery through a small incision in the groin. The endograft is then guided up through the artery to the location of the aneurysm

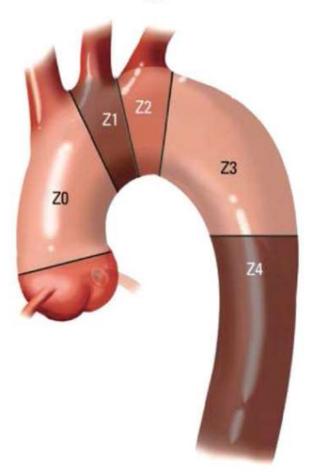
B. Aorta with Endograft



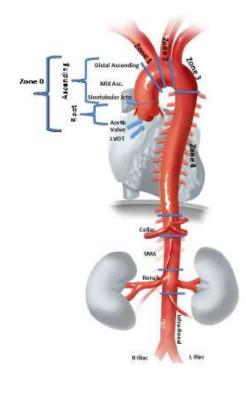
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Aortic Arch Anatomy in the TEVAR era: All about the Landing Zones

- Define complexity of the Arch for various TEVAR procedures.
- Zone 0, 1 and often 2 requires some form of branched graft or debranching procedure



Total Endovascular Examples

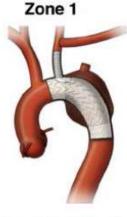




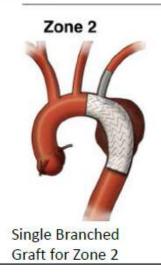
Ascending TEVAR Graft ZONE 0

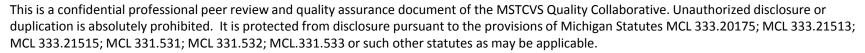


Zone 0 Single branch with double transposition



Zone 1 Single Branch with C-S Bypass

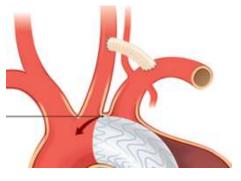


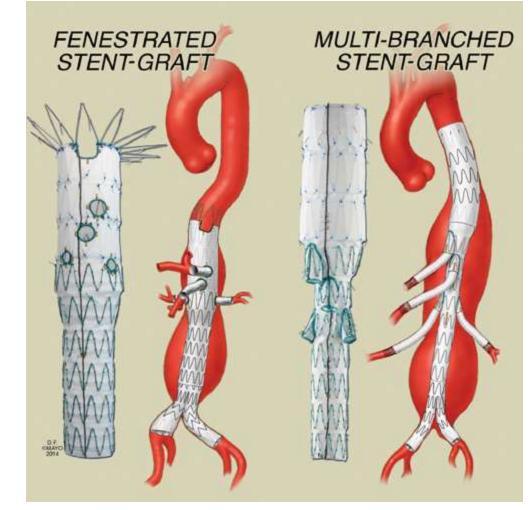


Zone 3 TEVAR

Arch and Visceral Vessel Management







Parallel Grafts

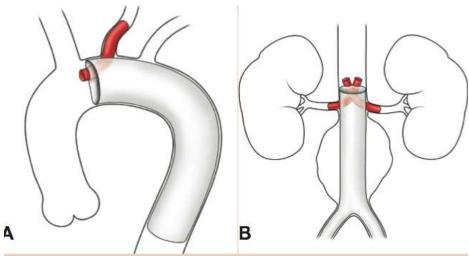
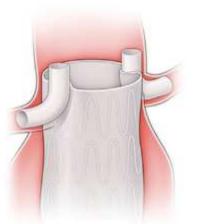


Figure 1. Single short left common carotid artery chimney (A). Bilateral renal artery chimneys (B).



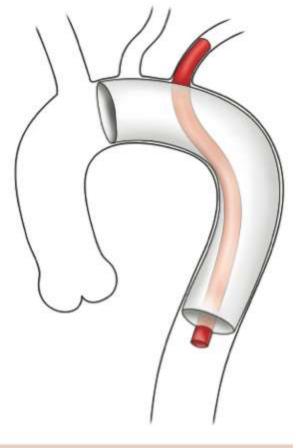
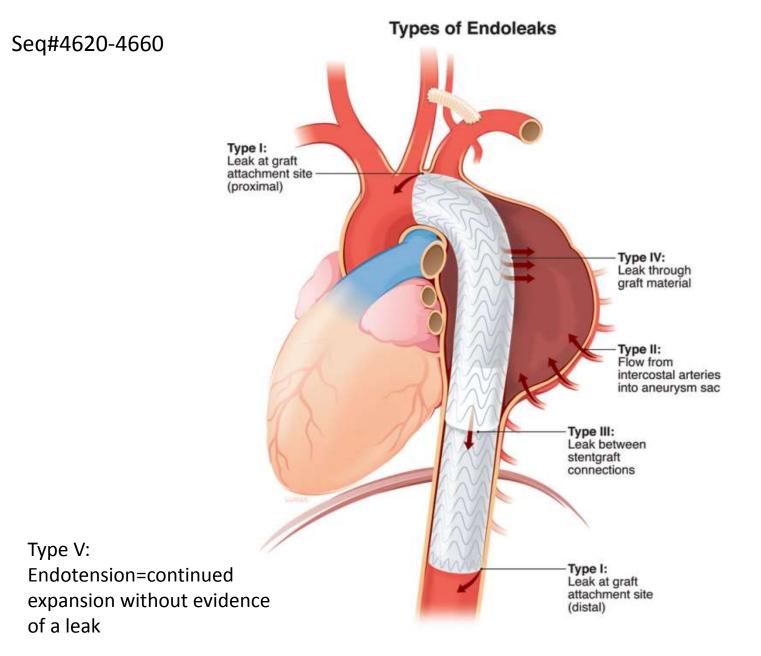


Figure 2. Long periscope graft for the left subclavian artery.

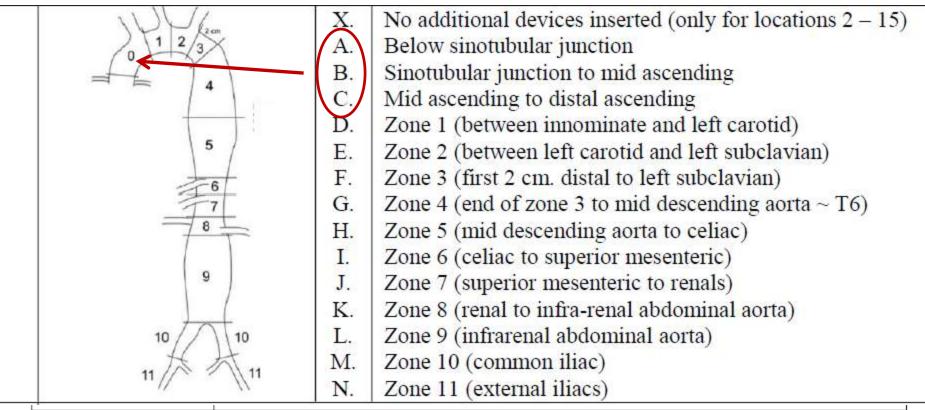




Carotid-Subclavian Bypass LCC stent

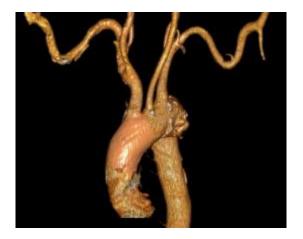


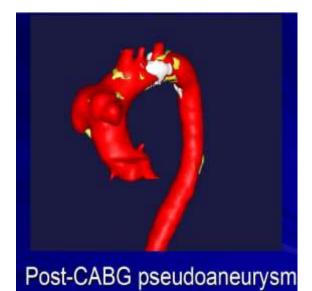
Seq# 5440-5820 Devices/Implant Location

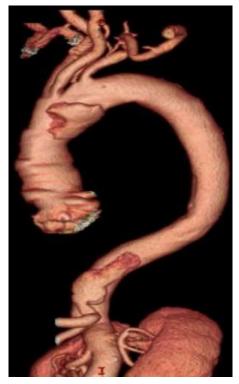


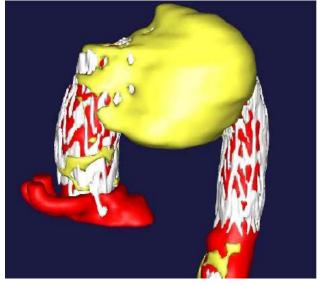
Location (Letter)	Delivery Method	Outcome	Model #	UDI
ADevLoc01 (5450)	ADevDelMeth01 (5455)	ADevOut01 (5460)	ADevModel01 (5465)	ADevUDI01 (5470)
ADevLoc02 (5475)	ADevDelMeth02 (5480)	ADevOut02 (5485)	ADevModel02 (5490)	ADevUDI02 (5495)

Questions?











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