**STS Aorta Surgery Worksheet V2.9**

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| **Identify procedural location using**  **graph letters A-N →**  **For Aneurysms**  **Aneurysm Location:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  (area of largest circumference of aneurysm – most proximal zone if largest circumference spans two or more zones)  **For Dissections↓**  **(Select all that apply and fill in location)**    🞎 **Primary Tear Location:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  🞎**Secondary Tear Location:\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  🞎 **Retrograde Extension Location**:\_\_\_\_\_\_\_\_\_\_\_\_    🞎 **Distal Extension Location**: \_\_\_\_\_\_\_\_\_\_\_\_\_  🞎 **Rupture Location:\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Rupture Contained:** 🞎Yes 🞎No  **For Open Descending Thoracic Aorta or Thoracoabdominal Procedures↓**  **Proximal Location: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ □ Reverse Hemi**  **Distal Location:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | | | A. Below sinotubular junction  C  B**→**  A  B. Sinotubular junction to mid ascending  C. Mid ascending to distal ascending  D. Zone 1 (between innominate and left carotid)  E. Zone 2 (between left carotid and left subclavian)  F. Zone 3 (first 2 cm. distal to left subclavian)  G. Zone 4 (end of zone 3 to mid descending aorta ~ T6)  H. Zone 5 (mid descending aorta to celiac)  I. Zone 6 (celiac to superior mesenteric)  J. Zone 7 (superior mesenteric to renals)  K. Zone 8 (renal to infra-renal abdominal aorta)  L. Zone 9 (infrarenal abdominal aorta)  M. Zone 10 (common iliac)  N. Zone 11 (external iliacs) |
| **For Endovascular Procedures ↓**  **Proximal Location: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Distal Location: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Intra OP↓**  **Unintentional Rupture of dissection septum**  **Location: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **↓ PLEASE COMPLETE THE FOLLOWING SECTIONS↓** | | | |
| **Presentation** | **Endoleak↓** | 🞎 Type I (leak at graft attachment site) → Location: 🞎 Ia-proximal 🞎 Ib – distal 🞎 Ic – iliac occluded  🞎 Type II (aneurysm sac filling via branch vessel) → Number of vessel: 🞎 IIa – single vessel 🞎 IIb – two vessels or more  🞎 Type III (leak defect in graft) → Graft defect type: 🞎 IIIa – junctional separation of modular components 🞎 IIIb – endograft fractures/holes  🞎 Type IV (leak through graft fabric)  🞎 Type V (endotension – expansion aneurysm sac without leak) | |
| **Aneurysm↓** | **Etiology:** 🞎 Atherosclerosis 🞎 Infection 🞎 Inflammatory 🞎 Connective Tissue Disorder 🞎 Penetrating Ulcer  🞎 Pseudoaneurysm 🞎 Mycotic 🞎 Traumatic transection 🞎 Intercostal visceral patch 🞎 Anastomotic site    **Type:** 🞎Fusiform 🞎Saccular **Rupture:** 🞎Yes 🞎No | |
| **Dissection↓** | **Timing:** 🞎 Hyper-acute (<48hrs) 🞎Acute (48hrs-2wks) 🞎Sub-acute (>2wks-90days) 🞎Chronic (>90days) 🞎Acute on Chronic  **Malperfusion:** 🞎Yes (If Yes ↓) 🞎No  If Yes → **Subclavian→** 🞎 Right 🞎 Left **Common Carotid→** 🞎Right 🞎Left **Renal**→ 🞎Right 🞎Left  🞎 Coronary 🞎 Celiac 🞎 Superior Mesenteric 🞎 Iliofemoral 🞎Spinal | |
| **Infection** (if yes→)🞎 Graft infection 🞎 Valvular endocarditis 🞎 Nonvalvular endocarditis 🞎 Native aorta 🞎 Multiple infection types | | |
| **Trauma** (if yes→)🞎Root 🞎Ascending 🞎Arch 🞎Descending 🞎Thoracoabdominal 🞎Abdominal | | |
| **Root:** 🞎Aorto-annular ectasia  🞎Asymmetric Root Dilation (if yes→) 🞎Right 🞎Left 🞎Non-coronary  🞎Sinus of Valsalva aneurysm (if yes→) 🞎Right 🞎Left 🞎Non-coronary | | | |
| **Arch Type:** 🞎 Right 🞎 Left  🞎Aberrant subclavian:**→** 🞎 Right 🞎 Left / 🞎 Kommerell / 🞎 Bovine / 🞎 Variant vertebral origin / 🞎 Patent IMA bypass graft | | | |
| **Ascending:** 🞎 Asymmetric Dilatation  🞎 Proximal coronary artery bypass grafts | | | |

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| **Intervention:**  🞎 Planned stage hybrid  🞎 Open Arch Procedure (If Yes↓)  Distal Technique 🞎 Open 🞎Clamped  Site → 🞎Ascending Aorta 🞎 Hemiarch 🞎 Zone 1 🞎 Zone 2 🞎 Zone 3 🞎 Zone 4 *(Refer to graph on 1st page)*  Extension → 🞎Elephant Trunk 🞎 Frozen Elephant Trunk 🞎 No  🞎 Arch Branch Reimplantation (If Yes→) **Subclavian** → 🞎 Right 🞎 Left **Common Carotid** → 🞎 Right 🞎 Left  🞎Innominate 🞎 Left Vertebral 🞎Other |
| **Open Descending Thoracic Aorta or Thoracoabdominal Procedure:**  🞎 Intercostal reimplantation  🞎 Visceral vessel intervention (If Yes→) 🞎 Celiac → 🞎 Reimplantation 🞎 Branch Graft  🞎Superior mesenteric → 🞎 Reimplantation 🞎 Branch Graft  🞎Right renal → 🞎 Reimplantation 🞎 Branch Graft  🞎Left renal → 🞎 Reimplantation 🞎 Branch Graft |
| **Endovascular Procedure:**  Access (If Yes→) 🞎 Femoral 🞎 Iliac 🞎 Abdominal Aorta 🞎 Lt. Subclavian 🞎 Rt. Subclavian 🞎 Ascending Aorta 🞎 LV Apex  🞎 Percutaneous Access 🞎 TAVR (for combination procedures) 🞎 Ascending TEAVR (If Yes→) 🞎 Dedicated IDE 🞎 Off-label stent 🞎 No |

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| **Arch Vessel Management:**  Innominate → 🞎 Native Flow 🞎 Endovascular Branch Graft 🞎 Endovascular Parallel Graft 🞎 Fenestrated  🞎Extra-anatomic Bypass (If Yes→) 🞎Aorta-Innominate 🞎Aorta-Rt Carotid 🞎Aorta Rt Subclavian 🞎 Rt Carotid-Rt Subclavian 🞎Other  Left Carotid → 🞎 Native Flow 🞎 Endovascular Branch Graft 🞎 Endovascular Parallel Graft 🞎 Fenestrated  🞎Extra-anatomic Bypass (If Yes→) 🞎 Aorta-Lt Carotid 🞎Innominate-Lt Carotid 🞎 Rt Carotid-Lt Carotid 🞎Other  Left Subclavian → 🞎 Native Flow 🞎 Endovascular Branch Graft 🞎 Endovascular Parallel Graft 🞎 Fenestrated  🞎Extra-anatomic Bypass (If Yes→) 🞎Aorta-Lt Subclavian 🞎 Lt Carotid-Lt Subclavian 🞎Other  Other Arch Vessel(s) Extra-anatomic bypass (If Yes→) 🞎 Innominate-Carotid 🞎 Innominate-Subclavian 🞎 Subclavian-Subclavian 🞎 Other |
| **Visceral Vessel Management:**    Celiac → 🞎 Native Flow 🞎 Endovascular Branch Graft 🞎 Endovascular Parallel Graft 🞎 Fenestrated  🞎 Extra-anatomic Bypass → 🞎 Aorta-celiac 🞎 Iliac-celiac 🞎 Other  Superior mesenteric → 🞎 Native Flow 🞎 Endovascular Branch Graft 🞎 Endovascular Parallel Graft 🞎 Fenestrated  🞎 Extra-anatomic Bypass → 🞎 Aorta-superior mesenteric 🞎 Iliac-superior mesenteric 🞎 Other  Right renal → 🞎 Native Flow 🞎 Endovascular Branch Graft 🞎 Endovascular Parallel Graft 🞎 Fenestrated  🞎 Extra-anatomic Bypass → 🞎 Aorta-right renal 🞎 Iliac-right renal 🞎 Other  Left renal → 🞎 Native Flow 🞎 Endovascular Branch Graft 🞎 Endovascular Parallel Graft 🞎 Fenestrated  🞎 Extra-anatomic Bypass → 🞎Aorta-left renal 🞎 Iliac-left renal 🞎 Other  Right Iliac → 🞎 Native Flow 🞎 Bifurcated Graft 🞎 Extra-anatomic Bypass → 🞎 Fem-Fem 🞎 Other  Left Iliac → 🞎 Native Flow 🞎 Bifurcated Graft 🞎 Extra-anatomic Bypass → 🞎 Fem-Fem 🞎 Other    Internal Iliac Preserved → 🞎 Rt Iliac only 🞎 Lt Iliac only 🞎 Both 🞎 No  Other Visceral Vessel(s) → 🞎 Extra-anatomic Bypass → 🞎 Aorta-Other 🞎 Iliac-Other 🞎 Other |
| **Intra-Op (Check all that apply):**  🞎 Dissection proximal entry tear covered  🞎 Endoleak at end of procedure → Type 🞎 Ia 🞎 Ib 🞎 II 🞎 III 🞎 IV 🞎V  🞎 Conversion to open → 🞎 Deployment failure 🞎 Endoleak 🞎 Rupture 🞎 Occlusion/loss of branch  🞎 Intra-Op Dissection Extension → 🞎 None 🞎 Antegrade 🞎 Retrograde 🞎 Both  🞎 Spinal drain placement → 🞎 Pre-Aortic procedure 🞎 Post-Aortic procedure  🞎 IntraOp Motor Evoked Potential → Documented MEP abnormality → 🞎 Yes 🞎 No  🞎 IntraOp Somatosensory Evoked Potential → Documented SEP abnormality → 🞎 Yes 🞎 No  🞎 IntraOp EEG → Documented EEG abnormality → 🞎 Yes 🞎 No 🞎 Unknown  🞎 IVUS Performed Intra-Op  🞎 IntraOp Transcutaneous Doppler Performed Intra-Op  🞎 IntraOp Angiogram → Volume of Contrast \_\_\_\_\_\_\_\_\_ml Fluoro time\_\_\_\_\_\_\_\_\_\_\_min |