### STS Aorta Surgeon Worksheet v4.20.2

Other Endo Repair (Not Aneurysm or Dissection)

*Please Complete AV Worksheet for Combined Procedures*

### Family History of Disease of Aorta:
- [ ] Aneurysm
- [ ] Dissection
- [ ] Both Aneurysm and Dissection
- [ ] Sudden Death
- [ ] Unknown
- [ ] None

### Patient's Genetic History:
- [ ] Marfan
- [ ] Ehlers-Danlos
- [ ] Loews-Dietz
- [ ] Non-Specific familial thoracic aortic syndrome
- [ ] Aortic Valve Morphology
- [ ] Turner syndrome
- [ ] Other
- [ ] Unknown
- [ ] None

### Prior Aortic Intervention:
- [ ] Yes
- [ ] No
- [ ] Unknown (If Yes ↓)

### Location

<table>
<thead>
<tr>
<th>Location</th>
<th>Previous Repair Type</th>
<th>Current Procedure r/t Repair failure (If Yes ↓)</th>
<th>Disease progression (If Yes ↓)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Root (Zone 0-3)</td>
<td>Open □ Endovascular □ Hybrid</td>
<td>Yes □ No</td>
<td>Yes □ No</td>
</tr>
<tr>
<td>Ascending (Zone 0-3)</td>
<td>Open □ Endovascular □ Hybrid</td>
<td>Yes □ No</td>
<td>Yes □ No</td>
</tr>
<tr>
<td>Arch (Zone 0-3)</td>
<td>Open □ Endovascular □ Hybrid</td>
<td>Yes □ No</td>
<td>Yes □ No</td>
</tr>
<tr>
<td>Descending (Zone 4)</td>
<td>Open □ Endovascular □ Hybrid</td>
<td>Yes □ No</td>
<td>Yes □ No</td>
</tr>
<tr>
<td>Suprarenal abdominal (Zone 6,7)</td>
<td>Open □ Endovascular □ Hybrid</td>
<td>Yes □ No</td>
<td>Yes □ No</td>
</tr>
<tr>
<td>Infrarenal abdominal (Zone 8,9,10,11)</td>
<td>Open □ Endovascular □ Hybrid</td>
<td>Yes □ No</td>
<td>Yes □ No</td>
</tr>
</tbody>
</table>

### Current Procedure with Endoleak involvement:
- [ ] Type I → 1a-proximal
- [ ] Type II → 1lb-distal
- [ ] Type III → 1c-iliac occluder
- [ ] Type IV
- [ ] Type II

### Current Procedure with Aorta Infection:
- [ ] Graft infection
- [ ] Valvular endocarditis
- [ ] Nonvalvular endocarditis
- [ ] Native aorta
- [ ] Multiple infection types

### Current Procedure with Trauma:
- [ ] Root
- [ ] Ascending
- [ ] Arch
- [ ] Descending
- [ ] Thoracoabdominal
- [ ] Abdominal

### Primary Presenting Symptom:
- [ ] Pain
- [ ] CHF
- [ ] Cardiac Arrest
- [ ] Syncope
- [ ] Infection
- [ ] Asymptomatic
- [ ] Injury related to Surgical Complication
- [ ] Neuro Deficit
- [ ] Other
- [ ] Unknown

   (If Neuro Deficit →) [ ] Stroke
   [ ] Limb numbness
   [ ] Paralysis
   [ ] Hoarseness (acute vocal cord dysfunction)

### Other - PRE-PROCEDURAL INFORMATION (Not Aneurysm or Dissection Case)

- [ ] Valvular Dysfunction
- [ ] Stenosis/Obstruction
- [ ] Intramural Hematoma
- [ ] Coarctation
- [ ] Endoleak
- [ ] Infection
- [ ] Injury related to Surgical Complication/Perforation
- [ ] Trauma

### Additional Anatomical Information

- [ ] Root: □ Aorta-annular ectasia
  - Asymmetric Root Dilation (if yes →)
  - Right □ Left □ Non-coronary
  - Sinus of Valsalva aneurysm (if yes →)
  - Right □ Left □ Non-coronary
- [ ] Arch Anomalies Type(s) select all that apply:
  - Arch Type Right
  - Arch Type Left Subclavian
  - Arch Type Kommerell/Ductus Bulge
  - Variant vertebral origin
  - Aberrant Left Subclavian
  - Bovine

### Patent Internal Mammary Artery Bypass Graft:
- [ ] Yes
- [ ] No
- [ ] N/A

### Ascending:
- [ ] Asymmetric Dilatation
- [ ] Proximal coronary artery bypass grafts

### Measurements (Largest Diameter)

**Treated Zone with the Largest Diameter:**
- Below STJ □ STJ-midascending □ Midascending-distal ascending □ Zone 1 □ Zone 2 □ Zone 3
  - Zone 4 □ Zone 5 □ Zone 6 □ Zone 7 □ Zone 8 □ Zone 9 □ Zone 10 □ Zone 11

**Measurement____mm** Method Obtained:
- 3D or 4D Reconstruction
- PreOp CT
- PreOp MRI
- PreOp Echo
- Intra Operatively

**Proximal to Treated Zone(s) (Largest Diameter):**
- Below STJ □ STJ-midascending □ Midascending-distal ascending □ Zone 1 □ Zone 2 □ Zone 3
  - Zone 4 □ Zone 5 □ Zone 6 □ Zone 7 □ Zone 8 □ Zone 9 □ Zone 10 □ Zone 11

**Measurement____mm** Method Obtained:
- 3D or 4D Reconstruction
- PreOp CT
- PreOp MRI
- PreOp Echo
- Intra Operatively

**Distal to Treated Zone(s) (Largest Diameter):**
- Below STJ □ STJ-midascending □ Midascending-distal ascending □ Zone 1 □ Zone 2 □ Zone 3
  - Zone 4 □ Zone 5 □ Zone 6 □ Zone 7 □ Zone 8 □ Zone 9 □ Zone 10 □ Zone 11

**Measurement____mm** Method Obtained:
- 3D or 4D Reconstruction
- PreOp CT
- PreOp MRI
- PreOp Echo
- Intra Operatively
### Procedural Information
- **Root Procedure**:  
  - Composite Valve Conduit ([If Yes →]  Mechanical  Stentless Valve Conduit  Stentless Biologic Full Root)  
  - Valve-sparing root operation ([If Yes →]  Reimplantation (David)  Remodeling (Yacoub)  Reconstruction (Florida Sleeve)  
  - Coronary Reimplantation ([If Yes ↓])  
  - Direct to root prosthesis (Button)  With vein graft extension (SVG Cabrol)  With Dacron graft extension (Classic Cabrol)  

- **Major root reconstruction/debridement without coronary ostial reimplantation**  
- **Replacement of non-coronary sinus (Modified Wheat/Modified Yacoub)**

### Endo Procedure Information
- **Access**:  
  - Femoral  Iliac  Abdominal Aorta  Lt. Subclavian/Axila  Rt. Subclavian/Axila  Ascending Aorta  Carotid  Apex  
- **Percutaneous**

### Proximal and Distal Landing Zones: (P = Proximal) (D=Distal)

<table>
<thead>
<tr>
<th>BLW</th>
<th>STJ</th>
<th>Mid-Dist.</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
</tr>
</thead>
</table>

### Arch Vessel Management
- **Innominate**:  
  - Native Flow  
  - Endovascular Branch Graft  
  - Endovascular Parallel Graft  
  - Fenestrated  
  - Extra-anatomic Bypass → **Aorta-Innominate**  
    - Aorta-right carotid  
    - Aorta-right subclavian  
    - Right Carotid- Right Subclavian  
    - Other  
  - No Flow Restored

- **Left Carotid**:  
  - Native Flow  
  - Endovascular Branch Graft  
  - Endovascular Parallel Graft  
  - Fenestrated  
  - Extra-anatomic Bypass → **Aorta- left carotid**  
    - Innominate-left carotid  
    - Right carotid- Left carotid  
    - Other  
  - No Flow Restored

- **Left Subclavian**:  
  - Native Flow  
  - Endovascular Branch Graft  
  - Endovascular Parallel Graft  
  - Fenestrated  
  - Extra-anatomic Bypass → **Aorta- left subclavian**  
    - Left carotid- left subclavian  
    - Other  
  - No Flow Restored

### Visceral Vessel Management
- **Celiac**:  
  - Native Flow  
  - Endovascular Branch Graft  
  - Endovascular Parallel Graft  
  - Fenestrated  
  - Extra-anatomic Bypass → **Aorta- celiac**  
    - Iliac-celiac  
    - Other  
  - No Flow Restored

- **Superior Mesenteric**:  
  - Native Flow  
  - Endovascular Branch Graft  
  - Endovascular Parallel Graft  
  - Fenestrated  
  - Extra-anatomic Bypass → **Aorta- superior mesenteric**  
    - Iliac-superior mesenteric  
    - Other  
  - No Flow Restored

- **Right Renal**:  
  - Native Flow  
  - Endovascular Branch Graft  
  - Endovascular Parallel Graft  
  - Fenestrated  
  - Extra-anatomic Bypass → **Aorta- right renal**  
    - Iliac-right renal  
    - Other  
  - No Flow Restored

- **Left Renal**:  
  - Native Flow  
  - Endovascular Branch Graft  
  - Endovascular Parallel Graft  
  - Fenestrated  
  - Extra-anatomic Bypass → **Aorta- left renal**  
    - Iliac- left renal  
    - Other  
  - No Flow Restored

- **Right Iliac**:  
  - Native Flow  
  - Bifurcated Graft  
  - Extra-anatomic Bypass → **Femoral-Femoral**  
  - Other  
  - No Flow Restored

- **Left Iliac**:  
  - Native Flow  
  - Bifurcated Graft  
  - Extra-anatomic Bypass → **Femoral-Femoral**  
  - Other  
  - No Flow Restored

*Please Complete AV Worksheet for Combined Procedures*
**Internal iliac Preserved:**  [ ] Right iliac only  [ ] Left iliac only  [ ] Both  [ ] No

**Other Visceral Vessel(s) Extra-anatomic Bypass:**  [ ] Aorta-other  [ ] Iliac-other  [ ] Other

**Planned Staged Hybrid:**  [ ] Yes  [ ] No

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**Other Endovascular Procedural Information**

- [ ] 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
- [ ] Intraop Dissection Extension  →  [ ] None  [ ] Antegrade  [ ] Retrograde  [ ] Both
- [ ] Unintentional rupture of dissection septum  →  [ ] Below STJ  [ ] STJ-midascending  [ ] Midascending-distal ascending  [ ] Zone 1  [ ] Zone 2  [ ] Zone 3  [ ] Zone 4  [ ] Zone 5  [ ] Zone 6  [ ] Zone 7  [ ] Zone 8  [ ] Zone 9  [ ] Zone 10  [ ] Zone 11

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**Additional Procedure Information (Check all that apply):**

- [ ] 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
- [ ] IVUSPerformed Intra-Op
- [ ] IntraOp Transcutaneous Doppler Performed Intra-Op
- [ ] IntraOp Angiogram  →  Volume of Contrast _________ ml  Fluoro time___________ min
- [ ] Endovascular Balloon Fenestration of the Dissection Flap:  [ ] PreOp  [ ] IntraOp  [ ] PostOp IntraOp