**STS Aortic Valve Surgeon Worksheet V2.9**

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| **Aortic Stenosis**: □Yes □No (If Yes →) Smallest Aortic Valve Area: \_\_\_\_\_\_\_\_\_\_cm2 Highest Mean Gradient: \_\_\_\_\_\_\_\_ mmHg |
| **Aortic Insufficiency:** □None □Trace/Trivial □Mild □Moderate □Severe |

**Aortic Disease Etiology (choose one primary etiology)**

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| □Bicuspid valve disease: (If Yes →) Sievers Class: □0-no raphe □1-one raphe □2-two raphe |
| □Congenital (other than bicuspid) |
| □Degenerative: (If Yes →) □Calcified □Leaflet prolapse (If Yes →) □with annular dilatation □without annular dilatation  □Leaflet perforation/hole □Extensive fenestration □Pure annular dilatation without leaflet prolapse □Commissural rupture |
| □Endocarditis (If Yes →) □With root abscess □Without root abscess |
| □LV Outflow Tract Pathology: (If Yes →) □ HOCM □Sub-aortic membrane □Sub-aortic tunnel □Other |
| □Primary Aortic disease: (If Yes →) □Aortic dissection □Atherosclerotic aneurysm □Ehler-Danlos Syndrome □Hypertensive aneurysm  □Idiopathic root dilatation □Inflammatory □Loeys-Dietz Syndrome □Marfan Syndrome □Other connective tissue disorder |
| □Reoperation - failure of previous AV repair or replacement |
| □Rheumatic |
| □Supravalvular aortic stenosis |
| □Trauma |
| □Tumor (If Yes →) □Carcinoid □Myxoma □Papillary fibroelastoma □Other |
| □Mixed Etiology |

**Procedure Performed**

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| **Repair/Reconstruction (If Repair/Reconstruction↓)** |
| □Annuloplasty: (If Yes →) □Commissural suture □External Suture □Ring (If Yes→) □External □Internal |
| □ Leaflet Procedure (If Yes →) □Plication □Free edge reinforcement □Commissural resuspension suture □Resection suture □Shaving □Pericardial patch □Debridement □Division of fused raphe |
| □Nodular release |
| □Repair of periprosthetic leak |
| □Aortic annular enlargement with patch: (If Yes →) Technique: □Nicks-Nunez □Manougian □Konno □Other |

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| **Root Procedure (If Root Procedure↓) – For AV surgery involving the root please also complete Aorta/Aortic Root Worksheet** |
| □With coronary ostial reimplantation (Bentall) (If Yes ↓) |
| □Mechanical □Autograft with native pulmonary valve (Ross) □Homograft with root replacement |
| □Bioprosthetic (If Yes →) □Stented valve composite graft □Stentless biologic full root |
| □Valve-sparing root operation (If Yes ↓) |
| □Reimplantation (David) □Remodeling (Yacoub) □Reconstruction (Florida Sleeve) |
| □Resuspension AV (If Yes →) □Without replacement of ascending aorta □With replacement of ascending aorta |
| □Major root reconstruction/debridement (If Yes ↓)  □With pericardial patch: (If Yes →) Type: □Synthetic □Bioprosthetic □Autologus  □Without pericardial patch |

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| **Replacement (If Replacement↓)** |
| □Transcatheter (If Yes →) □Transapical □Transaxillary □Transfemoral □Transaortic □Subclavian □Other |
| □Surgical Valve Replacement (If Yes →) □Mechanical □Surgeon fashioned pericardium (Ozaki) □Other  □ Bioprosthetic: (If Yes →) □Stented □Stentless subcoronary valve only □Sutureless/rapid deployment |
| □Aortic Valve Implant  Implant Model:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Implant Size:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| **Aortic Assessment (epiaortic ultrasound or echo):**  🞎 Concentric Calcification 🞎 Normal Aorta 🞎 Extensive Intimal Thickening  🞎 Protruding Atheroma < 5mm 🞎 Protruding Atheroma ≥ 5m 🞎 Mobile Plaques |
| **Did Aortic Assessment Alter Operative Plan?** 🞎 Yes 🞎 No |