**Operative Performance Rating System (OPRS)**

**CREATION OF ARTERIOVENOUS (AV) FISTULA**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Evaluator:** |  | | **Resident:** |  |
| **Resident Level:** | |  | **Program:** |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Date of Procedure:** |  | | **Time Procedure Was Completed:** |  | | | | **Date Assessment Was Completed:** | |  | **Time Assessment Was Initiated:** | |  | |

Please rate this resident's performance during this operative procedure. For most criteria, the caption above each checkbox provides descriptive anchors for 3 of the 5 points on the rating scale. **"NA" (not applicable) should only be selected when the resident did not perform that part of the procedure.**

**Case Difficulty**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 |
| Straightforward anatomy, no related prior surgeries or treatment |  | Intermediate difficulty |  | Abnormal anatomy, extensive pathology, related prior surgeries or treatment (for example radiation), or obesity |
|  |  |  |  |  |

**Degree of Prompting or Direction**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Substantial Direction  1 | 2 | Some Direction  3 | 4 | Minimal Direction  5 |
| Unable to direct team, use/choose instruments, or anticipate next steps as surgeon or as first assistant without constant attending prompting |  | Actively assists and anticipates own and attending’s needs, performs basic steps with occasional attending direction to resident and/or surgical team. Somewhat hesitant and slow to anticipate or recognize aberrant anatomy, unexpected findings, and/or “slowing down” moments |  | Performs all steps and directs team with minimal direction from attending to either resident or team, i.e., anticipates needs, sets up exposure for self and assistant, transitions fluently between steps, gives clear direction to first assistant, maintains situation awareness, calmly recovers from error and recognizes when to seek help/advice |
|  |  |  |  |  |

**Procedure-Specific Criteria**

Please assess performance and indicate the degree of prompting for **each item.** The assessment score for each item **may differ** from the prompting score for that item.

**Placement of Incisions**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Poor  1 | Fair  2 | Good  3 | Very Good 4 | Excellent  5 | NA |
| No concept of functional needs of procedure –graft too short or too long |  | Position of incision is functional but not optimal for exposure of target vessels |  | Proximal incision slightly distal to antecubital crease – graft to radial side of arm; loop length 2/3 of distal to wrist |  |
|  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Substantial Direction  1 | 2 | Some  Direction  3 | 4 | Minimal Direction  5 | NA |
|  |  |  |  |  |  |

**Dissection of Vessels**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Poor  1 | Fair  2 | Good  3 | Very Good 4 | Excellent  5 | NA |
| Disregard for superficial veins; injury to brachial artery or deep vein |  | Exposes brachial artery sufficiently for anastomosis with guidance. Preserves most significant superficial veins |  | Excellent independent dissection of all vessels; mindful of plans for anastomosis |  |
|  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Substantial Direction  1 | 2 | Some  Direction  3 | 4 | Minimal Direction  5 | NA |
|  |  |  |  |  |  |

**Suturing Graft**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Poor  1 | Fair  2 | Good  3 | Very Good 4 | Excellent  5 | NA |
| Sutures from adventitia to intima on artery; inappropriate thickness/spacing of bites |  | Generally pierces graft and vessels at 90 degrees and passes from intimal surface out of artery |  | Independently sews with correct needle angle and at the correct orientation throughout the anastomosis |  |
|  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Substantial Direction  1 | 2 | Some  Direction  3 | 4 | Minimal Direction  5 | NA |
|  |  |  |  |  |  |

**Tunnel Graft**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Poor  1 | Fair  2 | Good  3 | Very Good 4 | Excellent  5 | NA |
| Kinks; too deep placement; directly below distal incision |  | Able to position graft adequately with guidance |  | No kinks; appropriate depth graft; proximal to distal suture line |  |
|  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Substantial Direction  1 | 2 | Some  Direction  3 | 4 | Minimal Direction  5 | NA |
|  |  |  |  |  |  |

**General Criteria**

**Instrument Handling**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Poor  1 | Fair  2 | Good  3 | Very Good 4 | Excellent  5 | NA |
| Tentative or awkward movements, *often* did not visualize tips of instrument or clips poorly placed |  | Competent use of instruments, *occasionally* appeared awkward or did not visualize instrument tips |  | Fluid movements with instruments *consistently* using appropriate force, keeping tips in view, and placing clips securely |  |
|  |  |  |  |  |  |

**Respect for Tissue**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Poor  1 | Fair  2 | Good  3 | Very Good 4 | Excellent  5 | NA |
| *Frequent* unnecessary tissue force or damage by inappropriate instrument use |  | Careful tissue handling, *occasional* inadvertent damage |  | *Consistently* handled tissue carefully (appropriately), minimal tissue damage |  |
|  |  |  |  |  |  |

**Time and Motion**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Poor  1 | Fair  2 | Good  3 | Very Good 4 | Excellent  5 | NA |
| Many unnecessary moves |  | Efficient time and motion, some unnecessary moves |  | Clear economy of motion, and maximum efficiency |  |
|  |  |  |  |  |  |

**Operation Flow**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Poor  1 | Fair  2 | Good  3 | Very Good 4 | Excellent  5 | NA |
| Frequent lack of forward progression; frequently stopped operating and seemed unsure of next move |  | Some forward planning, reasonable procedure progression |  | Obviously planned course of operation and anticipation of next steps |  |
|  |  |  |  |  |  |

**Overall Performance (not included in calculation of mean score)**

Rating of very good or higher indicates technically proficient performance (i.e., resident is ready to perform operation independently, assuming resident consistently performs at this level)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Poor | Fair | Good | Very Good | Excellent |
|  |  |  |  |  |

**Please indicate the weaknesses in this resident’s performance:**

|  |
| --- |
|  |

**Please indicate the strengths in this resident’s performance:**

|  |
| --- |
|  |