**Vascular Anastomosis Scoring Rubric**

**Name:** \_**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**End-to-Side Anastomosis**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Excellent | Above Average | Average | Below Average | Extremely Poor |
| **Instrument Handling** | | | | | |
| Loading of needle onto needle driver |  |  |  |  |  |
| Manipulation of Castros |  |  |  |  |  |
| **Mechanics** | | | | | |
| Fashioning of anastomotic edges (30°-45°) |  |  |  |  |  |
| Suture passed perpendicular to tissue |  |  |  |  |  |
| Equal distance from edges (1mm) |  |  |  |  |  |
| Equal distance between bites (1mm) |  |  |  |  |  |
| Correct direction of suture placement (90°) |  |  |  |  |  |
| **Anastomosis** | | | | | |
| Tight anastomosis |  |  |  |  |  |
| Appropriate start and end points |  |  |  |  |  |
| Stitches perpendicular to anastomosis |  |  |  |  |  |
| Absence of loose, “air” knots |  |  |  |  |  |
| Appropriate # of knots (3 @ heel, 6 @ to tie ends together) |  |  |  |  |  |
| **Timing** | | | | | |
| Completion time: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | |

**End-to-End Perpendicular Anastomosis**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Excellent | Above Average | Average | Below Average | Extremely Poor |
| **Instrument Handling** | | | | | |
| Loading of needle onto needle driver |  |  |  |  |  |
| Manipulation of Castros |  |  |  |  |  |
| **Mechanics** | | | | | |
| Fashioning of anastomotic edges (90°) |  |  |  |  |  |
| Suture passed perpendicular to tissue |  |  |  |  |  |
| Equal distance from edges (1mm) |  |  |  |  |  |
| Equal distance between bites (1mm) |  |  |  |  |  |
| Correct direction of suture placement (90°) |  |  |  |  |  |
| **Anastomosis** | | | | | |
| Tight anastomosis |  |  |  |  |  |
| Appropriate start and end points (start 2 sutures 180° apart) |  |  |  |  |  |
| Stitches perpendicular to anastomosis |  |  |  |  |  |
| Absence of loose, “air” knots |  |  |  |  |  |
| Appropriate # of knots (3 @ start points, 6 @ to tie ends together) |  |  |  |  |  |
| **Timing** |  |  |  |  |  |
| Completion time: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | |

**End-to-End Oblique Anstomosis**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Excellent | Above Average | Average | Below Average | Extremely Poor |
| **Instrument Handling** | | | | | |
| Loading of needle onto needle driver |  |  |  |  |  |
| Manipulation of Castros |  |  |  |  |  |
| **Mechanics** | | | | | |
| Fashioning of anastomotic edges (45°) |  |  |  |  |  |
| Suture passed perpendicular to tissue |  |  |  |  |  |
| Equal distance from edges (1mm) |  |  |  |  |  |
| Equal distance between bites (1mm) |  |  |  |  |  |
| Correct direction of suture placement (90°) |  |  |  |  |  |
| **Anastamosis** | | | | | |
| Tight anastomosis |  |  |  |  |  |
| Appropriate start and end points (start 2 sutures 180° apart) |  |  |  |  |  |
| Stitches perpendicular to anastomosis |  |  |  |  |  |
| Absence of loose, “air” knots |  |  |  |  |  |
| Appropriate # of knots (3 @ start points, 6 @ to tie ends together) |  |  |  |  |  |
| **Timing** |  |  |  |  |  |
| Completion time: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | |