| | 1 | 2 | 3 | 4 | 5 |
|--------------------|--|------|---|------|--|
| Respect for Tissue | Tissue pulled toward hands | | Tissue pulled partially toward hands | | Hands moved towards tissue |
| Time and Motion | Many unnecessary movements | | Efficient time and motion some unnecessary movements | | Clear economy of motion and maximum efficiency |
| Handling | No crossing at first knot and at second knot. Threads repacked | | No crossing at first knot or at next knot. Threads repacked | | Crossing at first knot and at second knot threads not repacked |
| Flow | Frequently stopped and seems unsure of next move | | Demonstrates some forward planning | | Effortless, obviously planned course |
| Knowledge | Deficient knowledge. Needed specific instruction | | Knew all important aspects of the procedure | | Demonstrated familiarity with all aspects of the procedure |
| Knot-Tying | Air Knots. Knots are not correct No guidance with the index finger | | No air knots. Knots mostly correct. Mostly guidance with the Index finger | | All knots are correct. Guidance with the Index finger |
| Results | Unsafe knots | | Most knots are tight | | All knots are tight |
| Overall | Very poor | Poor | Competent | Good | Very good |

Table S1: OSATS Knot-Tying

Table S2: OSATS Suturing

| | 1 | 2 | 3 | 4 | 5 |
|---------------------|--|------|--|------|--|
| Respect for Tissue | Frequent unnecessary tissue force | | Careful tissue handling, occasional inadvertent damage | | Consistently handled tissue careful, minimal tissue damage |
| Time and Motion | Many unnecessary movements | | Efficient time and motion some unnecessary movements | | Clear economy of motion and maximum efficeny |
| Instrument handling | Repeated tentati movements, inap of instruments | | Competent use of instruments occasionally stiff or awkward | | Fluid concise moves with appropriate instruments |
| Flow | Frequently stopped and seems unsure of next move | | Demonstrates some forward planning | | Effortless, obviously planned course |
| Knowledge | Deficient knowledge. Needed specific instruction | | Knew all important aspects of the procedure | | Demonstrated familiarity with all aspects of the procedure |
| Suture | Akward or unsure suturing with poor knot-tying and inability to maintain tension | | Competent suturing with good knot placement and appropriate tension | | Excellent suture control with correct suture placement and tension |
| Result | Poor tissue apposition | | Competent tissue apposition. Sutures are not consistent. Too much tension. Inversion of the wound edges | | Good tissue apposition |
| Overall | Very poor | Poor | Competent | Good | Very good |