

Verification of Proficiency Module for Knot Tying Skills SIU Surgical Skills Laboratory

OBJECTIVES: *By the end of this module, the resident will meet proficiency standards for the performance of the following procedures:*

- Tying ten complete two handed square knots using braided suture at the surface
- Tying ten complete two handed square knots using braided suture at depth
- Tying ten complete one handed square knots using braided suture at the surface
- Tying ten complete one handed square knots using braided suture at depth
- Instrument tying four complete square knots using monofilament suture at the surface

GUIDELINES FOR PRACTICE

- Prior to beginning practice, request videotaping of your performance on the five tasks.
- View the videotape of the expert performance of these skills
- Using the performance rating instrument as a guide, practice with focus on completing each step of the skill in the correct order.
- Practice performing each step of the skill and the total skill without any extra motion
- Practice performing the skill more quickly.
- Request verification of proficiency on the skill when you are able to perform the skills in less than time stated below.

Basic Skill	Time (seconds)
Tying ten complete two handed square knots on surface	2 minutes
Tying ten complete two handed square knots at depth	3 minutes
Tying ten complete one handed square knots on surface	2 minutes
Tying ten complete one handed square knots at depth	3 minutes
Instrument tying four complete square knots on surface	1 minutes

INSTRUCTIONS FOR VERIFICATION FOR PROFICIENCY TESTING

When you believe that you are proficient in the five skills you may request an evaluation for proficiency by the skills laboratory personnel. Once this videotape has been completed, a faculty member will evaluate it and determine whether or not you are proficient in these skills.

Surface Level Two Handed Knot Tying Performance Evaluation
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Global Characteristics of Entire Performance	Present?	
	Yes	No
1. Tension maintained on suture throughout performance		
2. Economy of movement (without unnecessary movement)		
3. Smooth transition between knots		
4. Hands crossed at appropriate time to create square knot		

Total time for performance: _____ seconds

Overall Evaluation	Yes	No
Proficient in this skill?		

Deep Level Two Handed Knot Tying Performance Evaluation

Global Characteristics of Entire Performance	Present?	
	Yes	No
1. Tension maintained on suture throughout performance		
2. Economy of movement (no unnecessary movement)		
3. Smooth transition between knots		
4. Hands crossed at appropriate time to create square knot		
5. Traction placed with one hand while knot is slipped down using index finger of the other hand.		

Total time for performance: _____ seconds

Overall Evaluation	Yes	No
Proficient in this skill?		

Surface Level One Handed Knot Tying Performance Evaluation
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Global Characteristics of Entire Performance	Present?	
	Yes	No
1. Tension maintained on suture throughout performance		
2. Economy of movement (no unnecessary movement)		
3. Smooth transition between knots		
4. Hands crossed at appropriate time to create square knot		

Total time for performance: _____ seconds

Overall Evaluation	Yes	No
Proficient in this skill?		

Deep Level One Handed Knot Tying Performance Evaluation

Global Characteristics of Entire Performance	Present?	
	Yes	No
1. Tension maintained on suture throughout performance	<input type="checkbox"/>	<input type="checkbox"/>
2. Economy of movement (no unnecessary movement)	<input type="checkbox"/>	<input type="checkbox"/>
3. Smooth transition between knots	<input type="checkbox"/>	<input type="checkbox"/>
4. Hands crossed at appropriate time to create square knot	<input type="checkbox"/>	<input type="checkbox"/>
5. Traction placed with one hand while knot is slipped down using index finger of the other hand.	<input type="checkbox"/>	<input type="checkbox"/>

Total time for performance: _____ seconds

Overall Evaluation	Yes	No
Proficient in this skill?	<input type="checkbox"/>	<input type="checkbox"/>

Instrument Knot Tying Performance Evaluation
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Global Characteristics of Entire Performance	Present?	
	Yes	No
1. Suture tail at appropriate length at beginning of skill	<input type="checkbox"/>	<input type="checkbox"/>
2. Tension maintained on suture throughout performance	<input type="checkbox"/>	<input type="checkbox"/>
3. Economy of movement (no unnecessary movement)	<input type="checkbox"/>	<input type="checkbox"/>
4. Smooth transition between knots	<input type="checkbox"/>	<input type="checkbox"/>
5. Fluid movement with instrument	<input type="checkbox"/>	<input type="checkbox"/>
6. Hands crossed at appropriate time to create square knot	<input type="checkbox"/>	<input type="checkbox"/>

Total time for performance: _____ seconds

Overall Evaluation	Yes	No
Proficient in this skill?	<input type="checkbox"/>	<input type="checkbox"/>