Supplementary Material S1

Pre-participation Questionnaire:

1. Please describe your current position within the Veterinary Teaching Hospital:

   - 1st year student
   - 2nd year student
   - 3rd year student
   - Resident
   - Faculty

2. Please identify your dominant hand:

   - RIGHT
   - LEFT

3. Have you previously worn an electromyographic (EMG) armband?

   - YES
   - NO

4. Have you had any previous experience with suturing or using surgical instruments? Circle your answer.

   - 1 = No experience
   - 2 = Limited experience
   - 3 = Moderate experience
   - 4 = Significant experience
   - 5 = Extensive experience

   Please describe:

5. Have you practiced suturing on a synthetic skin model previously?

   - YES
   - NO

6. Have you had formal training under guidance of a board-certified surgeon? Circle your answer.

   - 1 = No experience
   - 2 = Limited experience
   - 3 = Moderate experience
   - 4 = Significant experience
   - 5 = Extensive experience

   Please describe:

7. Have you had any practical surgical experience (i.e. assisting a primary vet or surgeon, working in a shelter environment, doing spays/neuters/laceration repairs)? Circle your answer.

   - 1 = No experience
   - 2 = Limited experience
   - 3 = Moderate experience
   - 4 = Significant experience
   - 5 = Extensive experience

   Please describe:

8. Have you had any other training that could be related to this project?

   Please describe:
9. Estimate how many cadavers, if any, you have practiced suturing previously. Circle your answer.

1 ............ 2 ............ 3 ............ 4 ............ 5
1 = 0  2= 1-10  3 = 11-25  4= 26-50  5 = 50+

Please describe:

10. Estimate how many live animals, if any, you have sutured previously. Circle your answer.

1 ............ 2 ............ 3 ............ 4 ............ 5
1 = 0  2= 1-10  3 = 11-25  4= 26-50  5 = 50+

Please describe:

11. Estimate how many hours you have practiced suturing on tissue models. Circle your answer.

1 ............ 2 ............ 3 ............ 4 ............ 5
1 = 0  2= 1-10  3 = 11-25  4= 26-50  5 = 50+
**Post-participation Questionnaire:**

Please rate your level of agreement with the following statements by circling your answer:

1. The electromyography (EMG) armband was uncomfortable and interfered with my performance.
   - Strongly agree  Agree  Neither Agree nor Disagree  Disagree  Strongly Disagree
   Please describe:

2. The camera canopy and experimental set-up interfered with my performance.
   - Strongly agree  Agree  Neither Agree nor Disagree  Disagree  Strongly Disagree
   Please describe:

3. The synthetic tissue model received and held suture well.
   - Strongly agree  Agree  Neither Agree nor Disagree  Disagree  Strongly Disagree
   Please describe:

4. This experience was stressful or caused me anxiety.
   - Strongly agree  Agree  Neither Agree nor Disagree  Disagree  Strongly Disagree
   Please describe:
Practice Log
Estimate how many hours you practiced suturing on the tissue model. Circle your answer.

Week 1:

1 = 0 2 = 1-10 3 = 11-25 4 = 26-50 5 = 50+

Week 2:

1 = 0 2 = 1-10 3 = 11-25 4 = 26-50 5 = 50+

Week 3:

1 = 0 2 = 1-10 3 = 11-25 4 = 26-50 5 = 50+

Week 4:

1 = 0 2 = 1-10 3 = 11-25 4 = 26-50 5 = 50+

Please circle the 3 skills you practiced most:

Week 1:

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<tr>
<th>Instrument handling</th>
<th>Respect for tissue, gentle tissue handling</th>
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<tbody>
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<td>Apposing tissue with correct amount of tension</td>
</tr>
<tr>
<td>Passage of needle through the tissue</td>
<td>Knot tying</td>
</tr>
<tr>
<td>Spacing of suture bites from incision edge</td>
<td>Suture handling</td>
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<tr>
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<td>Time and motion</td>
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<tr>
<td>Use of forceps to handle the needle</td>
<td>Flow of task</td>
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