Laparoscopic Banding Device Progress Report #12

Team Members:
Gina Stuessy – Team Leader / BSAC
Anna Moeller – Communications
Kailey Feyereisen – BWIG

Client:
Dr. Thomas Julian
Department of OB/GYN
U.W. – Madison Medical School
Email: tmjulian@wisc.edu

Date: April 21 to April 27, 2007

Problem Statement:
“Design a laparoscopic banding instrument for tubal sterilization that is less traumatic and more dependable” than current, cumbersome, rough, inaccurate product. (Julian)

Past Week’s Goals:
• Continue constructing prototype
• Begin planning presentation, paper

Summary of Accomplishments:
• Altered design
• Bought more materials, continued construction

This Week’s Goals:
• Finish constructing prototype
• Plan presentation slides, paper

Individual Goals for This Week:
• All: work on power point slides for poster presentation

Rough Schedule:
1/26—Chose design project, set team roles
1/27-2/2—Client meeting, researched background information
2/3-2/9—Project Design Specifications
2/10-2/16—PDS revisions, brainstormed designs
2/17-2/23—Brainstormed
2/24-3/2—Chose three alternatives, prepare report and presentation
3/3/-3/9—Mid-Semester Presentations, report
3/10-3/16—Finished mid-semester report, work on chosen design
3/17-3/23—Worked on design
3/24-3/30—Work on design
3/31-4/6—Spring Break
4/7-4/13—worked on design, construction of prototype
4/14-4/20—construction
4/21-4/27—construction, prepare poster presentation
4/28-5/4—Poster Presentation, write final report
5/5-5/9—Final Report Due
5/11—Final meeting with advisor

**Difficulties:** The “fingers” of our original design were too flexible to hold the rubber bands and release them when pulled inward. We altered the design to have thin metal poles push the rubber bands off the inner tube one at a time. (The vacuum is still inside the inner tube.)

**Activities:**

<table>
<thead>
<tr>
<th>Members</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Gina: experimenting with materials, team meetings</td>
<td>4.5</td>
</tr>
<tr>
<td>Anna: brainstorming, CAD, team meetings</td>
<td>5</td>
</tr>
<tr>
<td>Kailey: brainstorming, website</td>
<td>4.5</td>
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**Hours to Date:**

<table>
<thead>
<tr>
<th>Members</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Gina:</td>
<td>27</td>
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<tr>
<td>Anna:</td>
<td>26</td>
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<tr>
<td>Kailey:</td>
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**Expenses:** Bought approximately $40 worth of materials for preliminary prototype.

**Schedule:**

<table>
<thead>
<tr>
<th>ID</th>
<th>Task Name</th>
<th>Start</th>
<th>Finish</th>
<th>Feb 2007</th>
<th>Mar 2007</th>
<th>Apr 2007</th>
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<tbody>
<tr>
<td>5</td>
<td>Construct Chosen Prototype</td>
<td>4/2/2007</td>
<td>5/2/2007</td>
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