Progress Report 12

Project Title: Auto-Suture Device  
Team Members: Jennifer Wager, Joe Cabelka, Therese Rollmann, and Mark Yarmarkovich  
Client: Dr. Marcus, UW Hospital  
Advisor: Prof. Tyler  
Date: 4/13/07-4/20/07

Problem Statement: Our goal is to develop a device that will apply an intra-nasal purse-string suture in a single step for use in nasal surgery.

Restatement of Team Goals: Construct electromagnet, test force of magnet and force required to pass through septum.

Individual Goals:  
Jenny Wager:  
1. Research

Joe Cabelka:  
1. Research

Therese Rollmann:  
1. Research

Mark Yarmarkovich:  
1. Research

Summary of Accomplishments:  
1. Tested material equivalent to septum cartilage.  
2. Began construction of magnet and clamping mechanism.  
3. Assembled strain gauge circuit.

Summary of Team Goals:  
1. Finalize design.  
2. Test functionality.  
3. Test force produced in final design.

Project Schedule:  
1/29/07-2/7/07  Meet with client, research  
2/7/07 - 2/26/07  Research, brainstorm, and develop PDS  
2/26/07 – 3/09/07  Prepare oral presentation and Preliminary Design Report  
3/09/07  Mid-semester oral presentation  
3/16/07  Preliminary Design Report due  
3/16/07 – 3/23/07  Decide on final design  
3/23/07 – 4/23/07  Work on design and build prototype  
4/23/07 – 5/03/07  Prepare final oral presentation and final report  
5/04/07  Final oral presentation
Activities:

Team:
- 1 hr getting materials for testing
- 1 hr testing material
- 2 hr discussing design, building, and testing coil

<table>
<thead>
<tr>
<th>Activities</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jenny Wager</td>
<td>-0.5 hr updating notebook</td>
</tr>
<tr>
<td></td>
<td>-0.5 hr presentation</td>
</tr>
<tr>
<td>Joe Cabelka</td>
<td>-0.5 hr research</td>
</tr>
<tr>
<td></td>
<td>-2 hr working with coil</td>
</tr>
<tr>
<td>Therese Rollman</td>
<td>-1 hr research</td>
</tr>
<tr>
<td>Mark Yarmarkovich</td>
<td>-0.5 hr research</td>
</tr>
<tr>
<td></td>
<td>-1 hr working with coil</td>
</tr>
</tbody>
</table>

Total Team Hours (x 4 people) for Week  16 hrs
Total Individual Hours for Week         6 hours
Cumulative Team Hours to Date           hours