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: 4/13/07-4/27/07

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
- 1.5 hr building magnet, testing strength
- 1.5 hr building strain gauge

<table>
<thead>
<tr>
<th>Activities</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Jenny Wager</td>
<td>-0.5 hr updating notebook</td>
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<tr>
<td></td>
<td>-0.5 hr presentation</td>
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<tr>
<td>Joe Cabelka</td>
<td>-0.5 hr research</td>
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<tr>
<td></td>
<td>-2 hr working with coil</td>
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<tr>
<td>Therese Rollman</td>
<td>-1 hr research</td>
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<tr>
<td>Mark Yarmarkovich</td>
<td>-0.5 hr research</td>
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<tr>
<td></td>
<td>-1 hr working with coil</td>
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Total Team Hours (× 4 people) for Week 28 rs
Total Individual Hours for Week 6 hours
Cumulative Team Hours to Date hours