

## **Progress Report 3**

**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:** 2/9/07-2/16/07

**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:** Research other designs, research details of suturing procedure.

### **Individual Goals:**

Jenny Wager:

1. Research design topic
2. Brainstorm

Joe Cabelka:

1. Research design topic
2. Brainstorm

Therese Rollmann:

1. Research design topic
2. Brainstorm
3. Meet with Tim Pierce

Mark Yarmarkovich:

1. Research design topic
2. Brainstorm
3. Speak with Dr. Garfinkle

### **Summary of Accomplishments:**

1. Researched the procedure and other autosuture designs as well as sewing machine designs.
2. Met with previous group
3. Revised PDS

### **Summary of Team Goals:**

1. Further research into the procedure and other devices
2. Develop design ideas

### **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
5/04/07 – 5/08/07	Prepare final report, PDS, and design drawings
5/09/07	Final report due

## Activities:

### Team:

½ hour client meeting

	Activities	Description
<b>Jenny Wager</b>	-0.5 hr updating notebook -1 hr brainstorming -1 hr research	This week I did some brainstorming around an idea of a passable needle device and a sewing machine. I researched the mechanism of the sewing machine and I also did additional research on the procedure and how the nose is sutured after surgery.
<b>Joe Cabelka</b>	-2.5 hr researching -45 min updating notebook -30 min updating PDS	This week I researched patented autosuture devices, purse-string sutures, and aspects of the surgical procedure.
<b>Therese Rollman</b>	-30 min mtg with Tim Pierce -30 min watching rhinoplasty online -1 hour brainstorming designs of auto sutures	I met with Tim Pierce, the leader for the auto suture team from last semester, and we discussed the project. He told me about the designs that they had thought of, and went into detail about the design they created. He shared with me some of the steps they took when researching auto suture devices and gave some good advice about how to obtain research materials. I also watched a rhinoplasty surgery that Mark found online. And, I spent some time brainstorming and drawing possible device designs.
<b>Mark Yarmarkovich</b>	- 2 hour research - 1 hour brainstorming - 30 min speaking with Dr. Garfinkle	This week I spoke with Dr. Terry Garfinkle who performs septoplasty. He referred me to a surgical atlas that has a step-by-

		<p>step procedure of the surgical protocol. I looked into the procedure and watched an online movie of a rhinoplasty. I looked into the design of a sewing machine and considered possible designs based around this mechanism.</p>
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<b>Total Team Hours (x 4 people) for Week</b>	<b>2 hours</b>
<b>Total Individual Hours for Week</b>	<b>12.25 hours</b>
<b>Cumulative Team Hours to Date</b>	<b>36.75 hours</b>