Auto-Suture Nasal Device

Week – October 20th 2006 – October 27th 2006

Team Members: Tim Pearce – Team Leader
Kuya Takami – Communications
Mollie Lange – BSAC
Peter Ma – BWIG

Client:
Dr. Benjamin Marcus
Dept. of Otolaryngology UW Medical School
Phone: 265-5470
email: marcus@surgery.wisc.edu

Advisor:
Kristyn S. Masters, Ph.D.
Assistant Professor
Dept. of Biomedical Engineering University of Wisconsin
Phone: 265-4052
email: kmasters@wisc.edu

Problem Statement
Our goal is to develop a device which will automatically deploy a suture to a specific region of the nose which is commonly detached in two common nasal surgeries, rhinoplasty and septoplasty. The current procedure is tedious and time consuming for the performing surgeon, often taking 15 minutes or more. Our client would like to develop a device which will automatically suture the desired location with minimal surgeon involvement. This will cut down on surgeon error, and make a more effective suture.

Last Week’s Goals
• Get an understanding of how the device we have works
• Brainstorm possible device ideas for staple deployment
• Finish Mid-semester report.

Accomplishments
• Finished mid semester report
• Completed PowerPoint slides and gave presentation
This Week’s Goals

- Get an understanding of how the device we have works
- Brainstorm possible device ideas for staple deployment

Difficulties

- Still don’t have the suture device (came Thursday).

Activities/Accomplishments

<table>
<thead>
<tr>
<th>Group Member</th>
<th>Weekly Accomplishments</th>
<th>Time (hrs)</th>
<th>Running Total (hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tim Pearce</td>
<td>Class Time, Mid-semester report, Powerpoint</td>
<td>5</td>
<td>22</td>
</tr>
<tr>
<td>Peter Ma</td>
<td>Class Time, Mid-semester report</td>
<td>6</td>
<td>27</td>
</tr>
<tr>
<td>Mollie Lange</td>
<td>Class Time, Mid-semester report</td>
<td>6</td>
<td>28</td>
</tr>
<tr>
<td>Kuya Takami</td>
<td>Class Time, Mid-semester report</td>
<td>6</td>
<td>25</td>
</tr>
</tbody>
</table>

To Do:

Past: Work on report, PowerPoint.

Deadlines: Evaluations due today at 5pm

Future: Final plan (Nov 6)
        Order specific parts (Nov 6)