Grasping Instrument for Laparoscopic Bowel Surgery
Progress Report 3
9/22/06 – 9/28/06

Client: Charles P. Heise, MD
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Team Members: Richard Bamberg (BME 200)-BWIG
Ann Sagstetter (BME 200)-BSAC
Becky Jones (BME 300)-Communications
Lynn Murray (BME 300)-Team Leader

Problem Statement: During laparoscopic surgery, small clips are used to
hold tissue out of the way of the surgical procedure. Current clips provide
greater pressure on the area of tissue closest to the joint sometimes
causing the tissue to be expelled out of the grasping instrument and
possibly traumatizing the tissue. The goal of this project is to equalize the
pressure across the length of the clip. Due to the small entrance incision,
the prospective device must have a diameter less than 5 mm. Because
the grasping instrument must be made for internal use, precautions must
be taken to minimize moving parts and safety hazards.

Summary of Team Accomplishments
• Completed Rough Draft of PDS
• Briefly discussed project designs
• Discussed background/literature research
• Setup website

Current Week’s Goals
• Continue background/literature research
• Brainstorming for potential designs
• Possible client meeting

Projected Schedule:
Week 1 Form team, select project, contact client.
Week 2 Meet with client, Develop understanding of project.
Week 3 Brainstorm; Produce Project Design Statement (PDS).
Week 4 Work on mid-semester presentation.
Week 5 Mid-semester Oral Presentation.
Week 6 Meet with Client; Agree on final design.
Week 7 Work on design.
Week 8 Work on design; order materials and parts.
Week 9 Work on prototype.
Week 10 Work on prototype.
Week 11 Work on prototype.
Week 12 Test prototype.
Week 13 Work on presentation.
Week 14 Final Project Presentation.

Activities:

**Richard:** Class Meeting 9/22
- Laparoscopy research 1 ½ hr
- PDS proofreading and editing 1 ¼ hr
- Updating Website ½ hr
- Team Meeting 9/26 1 hr
Total: 4 ¼ hr

**Ann:** Class Meeting 9/22
- Snake jaw/joint research 2 hr
- Team Meeting 9/26 1 hr
Total: 3 hr

**Becky:** Class Meeting 9/22
- PDS proofreading and editing ¾ hr
- Current device research ¾ hr
- Team Meeting 9/26 1 hr
Total: 2 ½ hr

**Lynn:** Class Meeting 9/22
- Joint/Mechanical Research ¾ hr
- Trip to Home Depot ¾ hr
- Team Meeting 9/26 1 hr
- Progress Report ½ hr
Total: 3

**Team Total Hours this week:** 12 ¾ hrs
**Team Total Hours to date:** 21 hrs

**Expenses**

- $16.36 at Home Depot for mechanical research