

Laparoscopic Banding Device

Team Members:

Anna Moeller: Team Leader

Kailey Feyereisen: BSAC

Gina Stuessy: Communications

Tyler Witt: BWIG

Client:

Dr. Thomas Julian

Department of OB/GYN

U.W. – Madison Medical School

Email: tmjulian@wisc.edu

Date: March 21 through March 27, 2008

Problem Statement:

“Design a laparoscopic banding instrument for tubal sterilization that is less traumatic and more dependable” than current, cumbersome, rough, inaccurate product. (Julian)

Summary of Accomplishments:

- Set team roles (1/25/08)
- Came up with two designs for band loader (2/8/08)
- Started building prototype (2/12/08)
- Started computer modeling of band loader (2/12/08)
- Wrote preliminary testing protocol (2/12/08)
- Located school for outreach – Middleton High School (2/28/08)
- Set date for outreach - 4/9/08 (3/6/08)
- Started assembly of prototype (3/7/08)
- Gave mid-semester presentation (3/7/08)
- Created outline for outreach (4/2/08)
- Completed preliminary IDR (4/2/08)

Last Week's Goals:

- Finish Construction of prototype
- Read over and complete IDR
- Complete outline for outreach presentation
- Arrange testing

This Week's Goals:

- Give outreach presentation
- Complete construction on prototype
- Arrange and start testing
- Send out IDR

Individual Goals for Next Week:

Anna: Look Complete outreach, work on prototype, test

Kailey: Complete outreach, work on prototype, test prototype

Gina: Complete outreach, work on prototype, test prototype

Tyler: Complete outreach, work on prototype, test prototype

Difficulties: Did not properly connect syringes together in order to make them long enough to work in the prototype. Currently looking for more syringes to attempt to build the syringe for the prototype again.

Expenses:

Material	Cost
Aluminum tube	\$33.07
White delrin tube	\$23.33
Nylon rod	\$38.28
Second white delrin tube	\$14.75
Springs, Push rod	9.23
Total	\$118.66

Activities:

	Hours
Members	
Anna: Team meeting, progress report updates, outreach outline	3
Kailey: Machine shop	2
Tyler: Team meeting, machine shop, IDR updates	5
Gina: Advisor meeting, machine shop, team meeting	4

Rough Project Schedule

ID	Task Name	Start	Finish	Duration	% Complete	Feb 2008					Mar 2008					Apr 2008								
						1/27	2/3	2/10	2/17	2/24	3/2	3/9	3/16	3/23	3/30	4/6	4/13	4/20	4/27	5/4				
1	Brainstorm Modifications	1/25/2008	2/15/2008	16d	100%																			
2	Computer simulated model of Band Loader	2/7/2008	2/28/2008	16d	100%																			
3	Build Prototype	2/11/2008	3/21/2008	30d	90%																			
4	Test Prototype	3/20/2008	4/10/2008	16d	0%																			
5	Build Second Prototype	3/20/2008	5/2/2008	32d	0%																			
6	Invention Disclosure Report	2/1/2008	2/20/2008	14d	85%																			
7	Midsemester Presentation	2/29/2008	3/7/2008	6d	100%																			
8	Peer Reviewed Journal Article	4/11/2008	5/7/2008	19d	0%																			
9	K-12 Outreach	2/15/2008	4/25/2008	51d	35%																			
10	End of Semester Presentation	4/18/2008	5/2/2008	11d	0%																			

Timeline Key	
	Percent Incomplete
	Percent Complete