

Expandable Nasogastric Tube

Week 6 October 12th – October 19th

Team: Darren Klaty – Co-Team Leader
Mike Rossmiller – Co-Team Leader
Alex Broderick – BWIG
Megan Halley – Communicator
Sarah Czaplewski - BSAC

Advisor: Paul Thompson

Client: Dr. Steven Yale

Problem Statement:

Nasogastric tubes (NG tubes) are commonly used for aspiration of gastric contents and gastric decompression in patients with small bowel obstruction. Placement of a NG tube causes discomfort and pain during insertion due in part to the large diameter of the tube. The project requires a nasogastric tube which is small enough to reduce discomfort, while still being functional. Secondary design specifications include pH sensitivity, to allow visual confirmation of when the tube reaches the stomach, and recyclability.

Previous Weeks Goals:

- All- Write up power point slides
- All- Begin mid-semester paper write-up
- All – Prepare for mid-semester presentations

Team Role Accomplishments:

- Leaders – Completed Progress Report.
- Communicator – Communications with UW hospital. Coordinating a training time
- BWIG – Put progress report online.
- BSAC – Will attend next BSAC meeting

Summary of Design Accomplishments:

- All – Completed Mid-semester presentation
- All – Completed design matrix and final design selection
- Megan – Completed preliminary sign up sheet for training room.
- All – Determined future work for remainder of this semester and next semester

This Week's Goals/Individual Goals

- All- Write up mid-semester presentation
- All- Hand in completed and updated notebooks

Difficulties:

None this week.

Activities:

Person(s)	Task	Time (hrs)	Weekly Totals	Semester Totals
Darren	Progress report	.5		
	Slides	.5		
	Background Research	1.5	2.5	13
Mike	Background Research	2.0		
	Slides	.5		
	Progress report	.5	3.0	12.25
Alex	Updating website	.25		
	Slides	.5		
	Background Research	1.5	2.25	11.5
Sarah	Slides	0.5		
	Background Research	2.5	3.0	18.0
Megan	CAD Work	1.5		
	Meeting with SIM lab	1		
	Slides	.5	3	13.5
Team	Prelim Presentation Meeting	1.5		
	Presentation Practice	1.0	2.5	9

Project Schedule:

Tasks	September				October				November				Dec	
	7	14	21	28	5	12	19	26	2	9	16	23	1	7
Product R&D														
Background Info	X	X	X	X	X									
Design Alternatives				X	X									
Final Design					X									
Materials														
Design Modeling														
Testing														
Presentations														
Mid-Semester														
Final														
Deliverables														
Progress Reports	X	X	X	X	X									
PDS	X													
Mid-Semester Report														
Final Report														
Meetings														
Team Meetings	X	X	X	X	X									
Advisor Meetings	X	X	X	X	X									
Client Meetings	X				X									
Website	X	X	X	X	X									

Expenses:

No expenses to date