

Expandable Nasogastric Tube

Week 6 October 19th – October 25th

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 a 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 mid-semester presentation
- All- Hand in completed and updated notebooks

Team Role Accomplishments:

- Leaders – Completed Progress Report.
- Communicator – Coordinated paper write up.
- BWIG – Put progress report, power point, report online.
- BSAC – Will attend next BSAC meeting

Summary of Design Accomplishments:

- All –Mid-semester presentation
- All – Wrote up mid-semester report.
- All – Design Notebooks

This Week's Goals/Individual Goals

- All- Order materials for tubes to test in lab.
- All- Determine testing date to get lab scheduled.

Difficulties:

None this week.

Activities:

Person(s)	Task	Time (hrs)	Weekly Totals	Semester Totals
Darren	Progress report	.5		
	Paper Sections	1.0		
	Notebook drawings	2.5	4.0	17.0
Mike	Paper sections	2.5		
	Notebook	1.0	3.5	15.75
Alex	Notebook	1.0		
	Paper Sections	2.0		
	Updating Website	.5	3.5	14.0
Sarah	Paper Sections	2.0		
	Editing, compiling, adding pictures	4.0	2.0	24.0
Megan	Report Sections	1.5		
	Editing, Compiling Paper	1.5	3.0	16.5

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	X	X							
Materials							X							
Design Modeling							X							
Testing														
Presentations														
Mid-Semester							X							
Final														
Deliverables														
Progress Reports	X	X	X	X	X	X	X							
PDS	X													
Mid-Semester Report														
Final Report														
Meetings														
Team Meetings	X	X	X	X	X	X	X							
Advisor Meetings	X	X	X	X	X	X	X							
Client Meetings	X				X									
Website	X	X	X	X	X	X	X							

Expenses:

No expenses to date