Expandable Nasogastric Tube

Week 3 September 28th - October 4th

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:

- Sarah- Continue to attempt go get a contact at the hospital that will give us access to vacuums for testing.
- All Development of assigned designs.

Team Role Accomplishments:

- Leaders Completed Progress Report.
- Communicator Talked to prospective helpers at hospital. Informed group of hospital equipment room that is available for students (mainly medical) to use.
- BWIG Put progress report online.
- BSAC Will attend next design meeting

Summary of Design Accomplishments:

- All Researched individually assigned ideas for narrowing of options
- All Design development, realistically what is possible to achieve but still extending that.

This Week's Goals/Individual Goals

- All- Choose three designs to compete in our design matrix
- All- Complete Design Matrix and choose design for remainder of semester

Difficulties:

None this week.

Activities:

Person(s)	Task	Time	Weekly	Semester
		(hrs)	Totals	Totals
Darren	Progress report	.5		
	Design work	1.0	1.5	7.0
Mike	Background research	1.75		
	Design Work	.25		
	Progress report	.5	2.5	6.75
Alex	Updating website	.25		
	Talking to Nurse	1.0		
	Background Research	1.0	2.25	7.5
Sarah	Background Research	3.0	3.0	11.5
Megan	Research/Brainstorming	2.0		3.5
	Sim Lab App	1.0	3.0	6.5
Team	Team meeting	1.0	1.0	4.0

Project Schedule:

Tasks		Septe	mber		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										
Design Alternatives				X										
Final Design														
Materials														
Design Modeling														
Testing														
Presentations														
Mid-Semester														
Final														
Deliverables														
Progress Reports	X	X	X	X										
PDS	X													
Mid-Semester Report														
Final Report														
Meetings														
Team Meetings	X	X	X	X										

Advisor	X	X	X	X					
Meetings									
Client Meetings	X								
Website	X	X	X	X					

Expenses: No expenses to date