Expandable Nasogastric Tube

Week 4 October 5th - October 11th

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

Team Role Accomplishments:

- Leaders Completed Progress Report.
- Communicator Communications with client, set up training facility time.
- BWIG Put progress report online.
- BSAC Will attend next BSAC meeting

Summary of Design Accomplishments:

- All Developed individual design ideas.
- All Design Matrix
- Sarah Met with polymer expert
- All Research on design implementation
- All Client meeting for device feedback

This Week's Goals/Individual Goals

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

Difficulties:

None this week.

Activities:

Person(s)	Task	Time (hrs)	Weekly Totals	Semester Totals
Darren	Progress report	.5	Totals	Totals
	Design implementation	1.5		
	Power point slides	1.0	3.5	10.5
Mike	Tube fabrication research	2.0		
	Progress report	.5	2.5	9.25
Alex	Updating website	.25		
	Talking to Nurse	.5		
	Background Research	1.0	1.75	9.25
Sarah	Polymer expert meeting	0.5		
	Research	3.0	3.5	15.0
Megan	Research, expert meeting	4.0	4.0	10.5
Team	Design Matrix meeting	1.0		
	Client meeting	1.0		
	Advisor meeting	0.5	2.5	6.5

Project Schedule:

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

Expenses:

No expenses to date