Expandable Nasogastric Tube

Week 8 October 26th - November 2nd

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

Team Role Accomplishments:

- Leaders Completed Progress Report.
- Communicator Emailed SIM Lab about testing.
- BWIG Put Progress Report online.
- BSAC Will attend next BSAC meeting.

Summary of Design Accomplishments:

- All Ordered materials
 - o Mike PVC tubing
 - Sarah Silicon Tubing
- All Narrowed down materials between PVC and Silicon

This Week's Goals/Individual Goals

- All Test materials at the SIM Lab
- All Determine the type of material to be used for the inner tube
- All Determine size of ID and wall thickness for inner tube
- All Determine possible size of sleeve to contain inner tube

Difficulties:

None this week.

Activities:

Person(s)	Task	Time	Weekly Totals	Semester
Dames	December 1	(hrs)	Totals	Totals
Darren	Progress report	.5		
	Background Research	1.0	1.5	18.5
Mike	Background Research	2.0		
	Progress Report	.5	2.5	18.25
Alex	Talking with Nurse	1.0	1.0	15.0
Sarah	Background Research	3.0		
	Brainstorming prototype production	1.0	4.0	28.0
Megan	Background Research	1.0		
	Communication with SIM Lab	1.0	2.0	18.5
Team	Meeting to order interior tubes for testing	1.0	1.0	10.0

Project Schedule:

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

Expenses:

No expenses to date