## **Expandable Nasogastric Tube**

Week 2 September 14th - September 20th

**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- Attend BSAC meeting
- All Continue background research, update notebooks with already acquired information
- Megan Email client for shipment of nasogastric tube

## **Team Role Accomplishments:**

- Leaders Completed Progress Report.
- Communicator Emailed client about receiving shipment of current nasogastric tube
- BWIG Put the first Progress Report and PDS online.
- BSAC Attended BSAC meeting on 9/14.
- All- Completed Preliminary PDS.

#### **Summary of Design Accomplishments:**

- All We all researched background info for the project and familiarized ourselves with the relevant designs and current devices.
- All Completed Preliminary PDS.

#### This Week's Goals/Individual Goals

- Sarah–BSAC meeting
- All Continue background research. Begin brainstorming ideas.

#### Difficulties:

None this week.

### **Activities:**

Activitie	23:			
Person(s)	Task	Time	Weekly	Semester
		(hrs)	Totals	Totals
Darren	Progress report	.5		
	PDS	.5		
	Background research	1.0	2.0	4.5
Mike	Progress report	.5		
	PDS	.75		
	Background research	1.0	2.25	3.25
Alex *	Updating website	.5		
	Background Research, PDS	1	1.5	3.0
Sarah*	Background Research	1.5		
	NG Research	2.0		
	PDS Meeting	.5	4.0	5.5
Megan*	Setting up client meeting	.5		
	Background research	1.0		
	PDS Meeting	.5	2.0	2.5
Team*	PDS	.5	.5	2.0

**Project Schedule:** 

Tasks		Septe	mber			Oct	ober			Nove	mber		D	ec
	7	14	21	28	5	12	19	26	2	9	16	23	1	7
Product R&D														
Background Info	X	X												
Design Alternatives														
Final Design														
Materials														
Design Modeling														
Testing														
Presentations	Presentations													
Mid-Semester														
Final														
Deliverables	Deliverables													
Progress Reports	X	X												
PDS	X													
Mid-Semester Report														

Final Report								
Meetings								
Team Meetings	X	X						
Advisor	X	X						
Meetings								
Client Meetings	X							
Website	X	X						

# **Expenses:**

No expenses to date