

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.

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

Expenses:

No expenses to date