

Expandable Nasogastric Tube

Week 3 September 21st – September 27th

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

Team Role Accomplishments:

- Leaders – Completed Progress Report.
- Communicator – Received NG tube from client
- BWIG – Put progress report online.
- BSAC – NA

Summary of Design Accomplishments:

- All – Further research on background on NG tubes
- All – Brainstorming meeting, design development.

This Week's Goals/Individual 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.

Difficulties:

None this week.

Expenses:

No expenses to date