

Barostat to measure esophageal strictures

Names:

Members: Kevin Wright, Julie Sauer, Steve Trier, Hannah Kirking

Clients: Mark Reichelderfer, Kathleen Massoth

Date: 1/25/01-1/30/02

Problem Statement:

The reflux of stomach acid into the esophagus is one of the most common GI ailments. One consequence of such reflux is the formation of scar tissue which forms abnormally stiff regions of esophageal tissue, sometimes leading to obstructive swallowing disorders. There are very few methods for either diagnosing or treating this disorder. There are two different measures which would be useful from a clinical point of view:

a. a device to measure the size of the stricture i.e., the percent reduction in radius of the stricture

b. a device to measure the compliance of the tissue i.e., the stress-strain behavior

Summary of Accomplishments:

1/25-Picked our project and met team members. Each member was assigned the following team position:

Hannah Kirking- team leader

Julie Sauer- BWIG

Steve Trier-BSAC

Kevin Wright-Communications

1/30-Kevin contacted client to find out the best time to meet. We may possibly meet on Friday afternoon.

Team Goals:

1. Meet with our client to discuss the problem and make sure we all (as a team) understand the problem thoroughly.
2. Make sure we understand our clients requirements and wishes to our design.
3. Start brainstorming possible solutions.

Activities:

Picked project and group, discussed each person's roles

Running time to date: approx. 2 hrs.

Contact persons for 29:

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