Inspiratory and expiratory flow meter

Client: Christopher Green, M.D.

Team Members: Andrew Eley (Leader)
Sarah Offutt (Communicator)
Darshan Patel (BSAC)
Eric Bader (BWIG)

October 14 to October 20, 2005

Problem Statement
Our client desires a peak inspiratory and peak expiratory flow meter in a single device to monitor for symptoms of asthma and vocal cord dysfunction. It should measure flows up to about 700 liters per second for adults, be cheap, durable, and easy to use with clear measurement readings.

Last Week’s Goals
• Look into ways of building a prototype, what can we use
• Edit paper, make power point presentation

Summary of Accomplishments
• Our team met on Friday, where we gave our powerpoint presentations. We also evaluated others on their presentations.
• We met with our team on Wednesday to make last corrections to our paper and then met with Dr. Green at the UW Hospital where we discussed our proposed design and the next steps to take.

This Weeks Goals
• Look into ways of building a prototype, what can we use
• Start building a prototype
• Meet Friday in class: 1) Review presentation and paper feedback and discuss ways to improve.
• Look for parts online and at hardware stores.

Difficulties
none

Activities
Team: 2.0 hours Team Meeting on Friday
Team: 2.5 hours Met on Wednesday for paper and with Dr. Green.
Sarah Offutt 1.5 hours Independent research, notebook, paper, presentation
Andrew Eley 1.5 hours Independent research, notebook, wrote progress report, paper, presentation
Darshan Patel 1.5 hours Independent research, notebook, attended BSAC, paper, presentation
Eric Bader 1.5 hours Independent research, notebook, update website, paper, presentation
## Project Timeline

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<th>September</th>
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### Preliminary Designs
- Meeting with client
- Design brainstorming
- Presentation preparation
- Mid semester Paper preparation
- Final Paper preparation
- Friday Team meetings

### Deliverables
- Progress Report
- Mid semester Presentation
- Mid semester paper
- End Semester Presentation
- End Semester Paper
- Web site
- Semester Wrap-up with Advisor

### Prototyping
- accounting/budgeting
- final design developments
- rapid prototyping
- analysis/testing
- final prototype manufacturing
- final Testing

## Expenses
none