

**Team Spirometer Progress Report**  
**June 5, 2009 – June 11, 2009**

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**Goals for the past week**

- Examine software platform
  - Choices include Adobe AIR, Processing and Java
- Investigate Pros/Cons of using turbulent or laminar flow in our design
- Develop software specifications sheet
- Develop calibration protocol for the iLite chip
- Research alternate pressure sensors

**Accomplishments**

- Developed quality draft of software specifications
- Experimented with programming platforms
- Ordered 2 alternative pressure sensors
- Investigated existing spirometer patents
- Met with PFT lab technician 6/8 on to discuss calibration and hardware design
- Developed iLite calibration protocol
- Met with Prof. Webster on 6/9 to decide to pursue **laminar** flow
- Worked with Medecal interns to discuss cooperative efforts

**Goals for the upcoming week**

- Create and distribute a newsletter
- Manufacture and test laminar flow prototypes
- Meet with Dean Health PFT lab physicians on 6/11
- Assist interns in software development
- Compare new sensors to previous models
  - Weigh cost vs. benefit of these new sensors

**Areas we would like assistance/feedback**

- Feedback on Fleisch vs. Lilly pneumotachometer and how to create an easily cleanable design