Project Title: An airway pressure device for use in an MRI machine

Team Members:
Laura Sheehan - Leader
Jon Cappel – Communications
Noelle Simatic – BWIG
Kevin Johnson – BSAC

Client: Victor Haughton, M.D.
UW Department of Radiology
3252 Clinical Science Center-E3
Phone: 263-5306
email: vmhaughton@facstaff.wisc.edu

Advisor: Mitch Tyler

Date: 9/9/05 – 9/15/05

Problem Statement: Design a MR compatible airway pressure device to measure the increase in intra-abdominal pressure as a patient performs a Valsalva maneuver.

Last Week’s Goals:
- Meet with client to get a better understanding the project and his requirements
- Take team picture on Friday, 9/9/05
- Revise problem statement
- Complete first draft of PDS
- Research project topic
- Begin brainstorming

Individual Goals:
Laura – Progress report, research
Jon – Contact client to set up meeting, research
Noelle – Work on project website, research
Kevin – Research

Summary of Accomplishments:
- Met with client on Wednesday, 9/14/05
- Took team picture on Friday, 9/9/05
- Created a more detailed problem statement
- Drafted the first version of our PDS
- Started researching commercially available airway pressure devices

This Week’s Goals:
- Get website up to date
- Continue background research (Airway pressure devices, Spirometers, Valsalva maneuver, Chiari I)
• Brainstorm and research possible design ideas (Mouthpieces, valves, tubing, nanometers, pressure sensors, monitoring capabilities, etc.)
• Start evaluating design alternatives
• Outline Midsemester Presentation
• Determine section headings for paper and assign individual tasks

**Project Difficulties:** None

**Activities:**
- **Laura** – In-class meeting, client meeting, progress report, research: 4 hours
- **Jon** – In-class meeting, team meeting to work on PDS, contact client to set up meeting, research: 4 hours
- **Noelle** – In-class meeting, client meeting, team meeting to work on PDS, work on project website, research: 4 hours
- **Kevin** – In-class meeting, client meeting, team meeting to work on PDS, research: 4 hours

**Team Total Hours for this Week:** 16 hours

**Rough Project Schedule:**

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