

## **Face Cradle Progress Report** **4/6/2009-4/12/2009**

### **Names**

Nate Cira, leader  
Patrick Kurkiewicz, BSAC  
Annie Loevinger, communicator  
Matt Hoffman, BWIG

### **Client**

Susan Frikken

### **Problem Statement**

Current static massage chair face cradles do not adjust as the subject becomes more relaxed. This results in the subject's neck and upper back shifting to an uncomfortable bowed position. This device must perform two important functions. First, it must support the head of a patient receiving a chair massage, specifically preventing the chin from slipping through the cradle. Second, it must adjust along the axis of the spine to accommodate a different position as the patient relaxes during the massage.

### **Last Week's Goals**

- Team: assemble parts as they arrive
- Team: consider tests for device
- Pat: attend BSAC meeting
- Research specific materials and costs
- Annie: contact other massage therapists and Susan for testing time
- Nate: Write progress report for prior week
- Matt: Update website

### **Summary of Accomplishments**

- The team met to discuss the design and order parts. 4/7
- Annie corresponded with the client.
- Annie researched parts.
- Matt updated website.
- Nate wrote progress report. 4/9
- The team met and discussed the design. 4/10
- Nate and Matt tested the balloon bladders. 4/10
- Pat and Annie drilled out holes on the cradle. 4/10
- Pat attended BSAC meeting. 4/10

### **This Week's Goals**

- Team: assemble the device
- Team: consider tests for device
- Pat: attend BSAC meeting
- Nate: Write progress report for prior week
- Matt: Update website

**Project Difficulties:**

None

**Activities**

07/04/2009 Team:	Discussed design	.75 hr
Midweek Annie:	Contacted Client for testing	.25 hr
Midweek Annie:	Researched parts	.25 hr
Midweek Matt:	Updated webpage	1 hr
09/04/2009 Nate:	Wrote progress report	.5 hr
10/04/2009 Team:	Discussed design	2 hr
10/04/2009 Nate and Matt:	Tested balloons	.25 hr
10/04/2009 Annie and Pat:	Drilled holes in cradle	1 hr
10/04/2009 Pat:	Attended BSAC	1 hr

**Totals****Individual:**

Nate:	27.25 hours
Annie:	22 hours
Matt:	16.5 hours
Patrick:	16.25 hours
Together:	
Team:	22.5 hours

**Expenses****Cost of parts****Annie:**

\$15 Sphygmomanometer

\$10 Tracks

**Nate:**

\$49.71 McMaster air cylinders

\$33.73 Peachtree Woodworking Tracks

\$5 ACE tubing and connectors

**Pat:**

\$1 balloons

# Project Schedule

Task	January					February				March				April			May		
	30	6	13	20	27	6	13	20	27	3	10	17	24	1	8				
<b>Deliverables</b>																			
Website																			
Progress Report																			
Notebook																			
Midterm Presentation																			
Final Presentation																			
Final Poster																			
Final Report																			
Client Evaluation																			
Peer and Self Evaluations																			
<b>Meetings</b>																			
BSAC																			
Team																			
Client																			
Advisor																			
<b>Project Research</b>																			
Patent and Product																			
Anatomical Data																			
Padding Research																			
Covering Research																			
<b>Project Development</b>																			
Select Project																			
Brainstorm Ideas																			
Narrow Ideas																			
Select Idea																			
Work on Design																			
Fabricate Prototype																			

Key:	
Team	
Nate	
Matt	
Patrick	
Annie	