

Title: Device for acute rehabilitation of the paretic hand after stroke (Project #20)

Team: Medical College of Wisconsin: Dr. Michelle Johnson (client)
Sasha Cai Leshner-Pérez (Leader)
Mike Socie (Leader)
Carly Brown (Communicator)
Karissa Thoma (BSAC)
Justin Lundell (BWIG)

Date: October 27, 2006 – November 2, 2006

Project Design Statement:

We will design a portable device that will facilitate hand rehabilitation in the acute phase (first three months) after stroke; the device will consist of a simple attachment to the impaired arm, comfort for the user and accommodations for almost complete universal use.

Restatement of Team Goals:

- Research materials
- Order/Purchase some materials
- Work on internal details of final design
- Begin fabrication

Individual Goals:

- **Sasha Cai:** Research materials for computing/running game/interaction
- **Mike:** Research monitors, hose clamps for arm braces
- **Carly:** Research material for “therapy cylinder” (possibly PVC)
- **Karissa:** Look for donor/cheap purchase of laptop
- **Justin:** Research materials for base tray

Summary of Accomplishments:

- 1) Visited physical therapy
- 2) Set appointment with Client for 11/3
- 3) Started specific internal designs for final design
- 4) Gained some idea of materials

Team Goals:

- Research materials
- Start purchasing materials
- Start fabrication

Difficulties:

None this week.

Activities:

10/27/06 – In class meeting: discuss materials/meet with Mitch	1 hour
10/30/06 – Team meeting: materials/design concepts	1.5 hour
11/1/06 – Team meeting with Mitch: Mid semester eval's	0.75 hour

Budget:

Total budget: \$750
Spending this week: \$0
Total budget remaining: \$750

Timetable

Project Tasks	Due Date	Team Hours Work	Mike	
Progress Report	Every Thursday		3	1.5
Solidworks of Designs	October 15, Sunday		10	2
Midterm Powerpoint	October 18, Wednesday		2	0
Midterm Presentation	October 20, Friday		5	1
Midterm Paper	October 22, Sunday		10	4
Clinical Visit	TBA		5 TBA	
Client Visit	TBA		5 TBA	
Components/Materials	October 30, Monday		10	2
Manufacturing	November 17, Friday		73	18
Testing	December 1, Friday		15	2
Final Paper	December 4. Monday		5	1
Final Powerpoint	December 4. Monday		5	1
Final Presentation	December 4. Monday		5	1