

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 20, 2006 – October 26, 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
- Visit Physical Therapy
- Work on internal details of final design
- Finalize mid-semester paper

Individual Goals:

- **Sasha Cai:** Research materials for computing/running game/interaction
- **Mike:** Research monitors
- **Carly:** Research material for “therapy cylinder” (possibly PVC), contact client about another meeting soon
- **Karissa:** Research materials for U-braces on arm support
- **Justin:** Research materials for base tray

Summary of Accomplishments:

- 1) Visited physical therapy
- 2) Started research on materials
- 3) Started specific internal designs for final design
- 4) Finished and turned in mid-semester paper

Team Goals:

- Research materials
- Start purchasing materials
- Arrange another meeting with client

Difficulties:

Activities:

10/20/06 – Give mid-semester presentation (in class)	2 hour
10/24/06 – Visit to Physical Therapy at UW (3 members)	2 hour
10/25/06 – Team meeting: materials and final design details	1.5 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