

Project # 18 – Development of a Device for Neurochemical Sample Collection from Freely Moving Monkeys

Team Members: Cole Drifka (Co-Leader), Lauren Eichaker (Co-Leader), Ben Fleming (BWIG), Adam Pala (Communicator), Sarah Springborn (BSAC)

Progress Report: 4

Week: 4(February 21– February 27)

Primary Contacts	Information
Client: Dr. Ei Teresawa	Department of Pediatrics, Primate Center Building Email: terasawa@primate.wisc.edu Phone: (608) 263-3579
Advisor: Professor Brenda Ogle	Assistant Professor, College of Engineering, Biomedical Engineering Email: ogle@wisc.edu Phone: (608) 265-8267

Revised Problem Statement:

To improve on the device created last semester that protects the microdialysis apparatus used during cranial experiments on non-human primates. This involves continued efforts to reduce the weight of the device, secure it around the monkey's head, and better able to cushion the microdrive unit.

Summary of Accomplishment:

This week, we divided up parts of the powerpoint to construct for proofreading an compilation of the midsemester report. We met with the client and proposed our ideas, which she approved; we also invited the client to come to our midsemester presentation and she said that she would be able to come.

Statement of Team Goals:

We plan to meet as a team on Friday to finalize our design concepts and work on our midsemester report. We also would like to complete the powerpoint presentation and practice for the final oral presentations scheduled for 2/06/09.

Difficulties:

The client is pushing us to move quicker, which could compromise the integrity of design decisions made. Our client demanded a meeting this Friday, but we cancelled because we know that we need to make thought out decisions if our prototype is to serve its purpose.

Activities:

		Hours This Week	<input type="checkbox"/> Hours
Cole Drifka	Worked on Mid-Semester Report, brainstormed a "strap-free" design, looked into contacting a plastics specialist.	2	7.5
Lauren Eichaker	Materials research: tried to set up appointment with plastics professor via e-mail. Researched strap materials/ideas/prices. Compiled human factors and ergonomics info. Compiled midsemester report and edited it.	3.5	9
Ben Fleming	Worked on midsemester report and researched materials for airbladder design.	1.5	7
Adam Pala	Worked on midsemester report and corresponded with the client. Viewed surgery procedure at Primate House	3	7.25
Sarah Springborn	Worked on midsemester report.	1	4.75
Team	Met as a team following advisor meeting, then with the client: 2/20/09. Human Factors and Ergonomics considerations.	2.25	6.75

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Expenses:

Pending...