

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: 10

Week: 7(April 10– April 17)

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:

Thermoformed: 4/3/09; made decision to keep design one layer of plastic since one layer was not deformable by our hands. Returned piece to Primate house with markings for machinist to modify.

Statement of Team Goals:

Re-obtain modified prototype (4/16). Make the airbladder, pour the silicone and return the piece to the primate house by 4/21 (goal of 4/17) for further modification. Test on 4/24.

Difficulties:

None

Activities:

		Hours This Week	<input type="checkbox"/> Hours
Cole Drifka	Thermoforming, prototype transport, materials research.	5.5	32.75
Lauren Eichaker	Coordination of modifications to plastic with machinist (1.25). Work with Sarah on final report (0.75), thermoforming (1.5).	3.50	36.00
Ben Fleming	Thermoforming.	3	21.00
Adam Pala	Prototype transport, client communications, thermoforming.	2	24.75
Sarah Springborn	Prototype transport and working on final report, thermoforming.	5.5	20.75
Team	Thermoforming 8:30AM-1:45PM (in shifts).	5.25	20

Expenses:

Need to obtain from client: adhesive, silicone, glue gun, watchstrap