

Calibrated Eye Dropper

Week 2: January 30- February 5, 2009

Team: Sarah Switalski – Co-Leader
Michelle Tutkowski – Co-Leader
Brooke Sampone – Communicator
Jim Mott – BWIG
Eamon Bernardoni – BSAC

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Problem Statement:

A lab in the Department of Ophthalmology and Visual Sciences needs a device to accurately deliver 5 μ L drops of experimental drugs into the cornea of the eye for glaucoma therapy testing in animals. Currently, the client uses standard micropipettes which deliver exactly 5 μ L drops, but this method poses a danger to the safety of animal and a chance of inaccurate placement of the drop. The objective is to optimize accuracy, efficiency, and animal safety in optical drug delivery.

Previous Week's Goals:

The team needs to further research calibrated eye droppers and continue brainstorming design ideas. The team needs to begin developing the Product Design Specifications (PDS).

Week 2 Activities:

Individual	Activity	Time (hours)	Weekly Total (hours)	Overall Total (hours)
Michelle	Independent	2.00	5.50	9.50
	Team Meeting	3.50		
	Client Meeting	0.00		
Eamon	Independent Work	1.25	4.75	10.50
	Team Meeting	3.50		
	Client Meeting	0.00		
Sarah	Independent Work	1.50	5.00	10.25
	Team Meeting	3.50		
	Client Meeting	0.00		
Brooke	Independent Work	2.50	6.00	10.75
	Team Meeting	3.50		
	Client Meeting	0.00		
Jim	Independent Work	4.00	7.50	11.75
	Team Meeting	3.50		
	Client Meeting	0.00		

Summary of Accomplishments:

The team continued researching the dynamics of micropipettes as well as available products. The team met to brainstorm ideas and to create a draft of the product design specifications.

Next Week's Goals:**Individual Goals:**

- Brooke: Research, brainstorm, contribute to final PDS, keep in contact with client
- Eamon: Research, brainstorm, contribute to final PDS, BSAC
- Jim: Research, brainstorm, contribute to final PDS
- Michelle: Research, brainstorm, contribute to final PDS
- Sarah: Research, brainstorm, contribute to final PDS, send out progress report

Team Goals:

- Complete PDS

Difficulties:

There are no difficulties at this time.

Project Schedule:

Tasks	Jan		Feb				Mar					Apr				May		
	23	29	6	13	20	27	6	11	13	20	27	3	10	17	24	1	6	8
Research	X	X																
Brainstorming	X	X																
PDS																		
Prototype Design																		
Prototype Fabrication																		
Testing																		
Meeting with Client																		
Team Meeting																		
Presentation																		
Written Reports																		
Peer/Self Evaluations																		

Expenses:

There are no expenses at this time.

Note:

Michelle Tutkowski will be absent from the team/ advisor meeting on Friday, February 6, 2009 due to personal reasons.