

Prolapse Model

Week 9–October 31–November 6, 2008

Team: Hallie Kreitlow – *Team Leader*
Graham Bousley – *Communicator*
Andrew Bertram– *BSAC*
Sarah Switalski– *BWIG*

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Problem Statement

Dr. Tova Ablove needs a dynamic model to teach the pelvic organ prolapse quantification exam (POP-Q). Currently, there is no easy way to teach the different types of prolapse including cystoceles, rectoceles, and vault prolapse. Our objective is to design and fabricate a dynamic, to-scale model, which will accomplish these teaching goals.

Restatement of Team Goals

This week the team will finish their prototype to determine if there are any obvious problems with their design. They will play with dimensions and determine how big their mold for the vaginal tube will need to be. They will also look into using SolidWorks to map out the box that the pelvis will lie in.

Activities

Date	Activity	Time	Team	Individual	Grand Total
10.31.08	Team: In-class meeting.	2.00h	35.25h		
11.06.08	Hallie, Sarah, Andrew: client meeting.	1.50h			
11.03.08	Hallie: Solidworks blueprint of box.	1.50h		14.25h	52.50h
11.06.08	Hallie: Design ideas.	1.00h			
11.06.08	Hallie: Progress report.	0.50h			
	Graham: No individual hours to add.			7.00h	42.25h
	Andrew: No individual hours to add.			10.50h	47.25h
11.06.08	Sarah: Webpage, materials, prices.	1.00h		9.50h	47.25h

Summary of Accomplishment

This week, the team was able to meet with their client and discuss the prototype of the final prototype. They discussed materials, actuation, and orientation. Hallie developed the box on Solidworks and the team did more research on materials.

Statement of Team Goals

The team will research and begin purchasing materials (wood, magnets, aluminum, rods). They will determine how far the silicone can stretch and from that determine their final dimensions. They will draw out the mold for the vaginal tube and begin fabrication.

Individual Goals

Hallie	Materials, fabrication, send out progress report.
Graham	Materials, fabrication, set up time to meet with client.
Andrew	Materials, fabrication, attend BSAC.
Sarah	Materials, fabrication, team webpage.

Difficulties

Determining materials to use and how they will all come together.

Project Schedule

Tasks	Sept.						Oct.						Nov.			Dec.						
	5	8	12	15	17	19	26	3	10	12	17	19	22	24	31	7	14	21	5	10	12	
Research	█	█	█			█	█															
Brainstorming	█	█	█			█	█															
PDS			█	█		█																
Prototype Design						█	█	█	█	█	█	█	█	█								
Prototype Fabrication														█	█	█	█					
Testing																	█					
Re-designing																		█				
Re-testing																		█				
Meeting with client						█					█		█									
Team meeting	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Presentation												█								█		
Written Report													█								█	
Peer/Self Evaluations														█								█

Expenses

There are no expenses at this time.