

Prolapse Model

Week 12 and 13-November 21-December 4, 2008

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Graham Bousley – *Communicator*
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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 needs to complete as much fabrication as possible before Thanksgiving break. They need to find molds that can be used for the organs or find something shaped like the mold so they can create plaster casts from them. With these they plan on using expandable foam (with help from Greg) to make the organs. The silicone is expected to arrive on Monday. So, on Monday the team will determine the technique they will use to make the silicone tube whether it be in a flat sheet or with cylindrical molds. The team will work on certain aspects of the poster over Thanksgiving break as well as finish up any fabrication as necessary. Also, their method of testing their design will be fully developed and ready to enact following break.

Activities

Date	Activity	Time	Team	Individual	Grand Total
11.21.08	Team: In-class lecture/advisor meeting	0.00h	66.00h		
11.25.08	Hallie and Andrew: Made silicone sheet.	1.50h			
11.25.08	Team: Fabricated.	4.00h			

Expenses

Item	Quantity	Cost
Home Depot		
Steel Sheet Metal	1	5.84
Aluminum Rod	1	6.61
Hinge	1	2.78
2 oz. Gorilla Glue	1	4.98
Hook & Eye	1	1.69
Screws	1	3.61
Shelving (Pine)	2	21.94
3/4" Magnetic Disks	1	2.49
Wooden Dowels	6	10.68
3 x 2 PVC Pipe	1	5.24
Corner Braces	2	5.96
Tube Straps	2	1.98
Screws	1	5.88
Shelving (Pine)	2	22.96
Smooth-On, Inc.		
Ecoflex 00-30 Trial Kit	1	28.67
Sil-Poxy Silicone Adhesive-3 oz. Tube	1	27.34
Walmart		
Sculpey Clay	1	5.97
Total Cost (w/o tax)		164.62
Total Cost of Materials Used		137.36

Red=Returned

Green=Did not Use

Difficulties

There are no difficulties at this time.