

Medical prosthetics for plastic surgery: Adherent Interface System

Client: Greg Gion, Medical Art Prosthetics, LLC

Team Members:

Lindsey Carlson (co-leader)
Nicole Daehn (co-leader)
Matt Kudek (communicator)
Chris Walker (BWIG)
Paul Schildgen (BSAC)

November 23 - November 30, 2007

Problem Statement:

The purpose of our project is to create an efficient method to effectively mix and dispense a platinum-cured, two-component adhesive for prosthetic use. Platinum curing involves a silicone curing system, which utilizes a platinum catalyst to start the reaction. This method should minimize waste and cost for the patient. This will benefit patients making their prosthetic application process more proficient.

Last Week's Goals:

- Meet with client to discuss final design decision and product orders
- Make a preliminary prototype
- Do preliminary tests on prototype to make more modifications
- Develop some tests to explore protective barrier options for prosthesis

Summary of Accomplishments:

- Met with client to discuss final design decision
- Made a few preliminary prototypes to choose from
- Made final decision on prototype to pursue

This Week's Goals:

- Start the final presentation poster
- Complete a few prototypes
- Do some testing on the effectiveness of our prototypes

Project Difficulties:

The client already owned most of our design ideas.

Activities:

Each of constructed a different prototype over thanksgiving break and present our ideas at a group meeting where we made our final decision on the prototype we would go with.

Expenses:

\$1.98-epoxy dispenser

Tasks	September			October			November			Decemb				
	1 4	2 1	2 8	5	1 2	1 9	2 6	2	9	1 6	2 3	3 0	7	1 4
Project Development														
Background Research	Activity	Activity	Activity											
Develop Design Alternatives			Activity	Activity										
Select Final Design				Activity	Activity	Activity								
Order Necessary Materials							Activity							
Develop Final Design								Activity	Activity	Activity	Activity	Activity		
Test Design											Activity	Activity		
Presentations														
Mid-Semester Presentation				Preparation	Preparation	Project Deadlines								
Final Presentation										Preparation	Preparation	Preparation	Project Deadlines	
Deliverables														
Progress Reports	Activity	Activity	Activity	Activity	Activity	Activity	Activity	Activity	Activity	Activity	Activity	Activity	Activity	
Mid-Semester Report					Preparation	Preparation	Project Deadlines							
Final Report											Preparation	Preparation	Preparation	Project Deadlines
Meetings														
Advisor	Activity	Activity	Activity	Activity	Activity	Activity	Activity	Activity	Activity	Activity	Activity	Activity	Activity	Activity
Client			Activity											
Website	Activity	Activity	Activity	Activity	Activity	Activity	Activity	Activity	Activity	Activity	Activity	Activity	Activity	Activity

Activity	
Preparation	
Project Deadlines	