

Heated Diagnostic Radiology Examination Table

Week 2 - January 28 to February 4, 2009

Team Members:

Tyler Vovos (vovos@wisc.edu) – Team Leader
Joseph Labuz (jlabuz1987@gmail.com) - BSAC
Paul Schildgen (pschildgen@gmail.com) - BWIG
Joel Gaston (gaston@wisc.edu) - Team Communicator

Client:

Lanee MacLean
Dept. of Family Medicine
UW School of Medicine and Public Health
Phone: 845-9531 Ext. 146
Email: lanee.maclean@fammed.wisc.edu

Advisor:

Mitch Tyler
Phone: 262-5112
Email: metyler1@wisc.edu

Problem Statement

A frequent patient complaint is that current x-ray tables are hard and cold. A pad can be used to eliminate the first complaint; however the temperature of the table cannot be altered on standard tables. A heated exam table or attachment that has a temperature control to give patients added comfort during exams, needs to be developed. The materials used need to be radiolucent and may not obscure the body part being imaged. A mechanism must be implemented that eliminates the possibility of patient injury such as burn.

Last Week's Team Goals

- i. Setup team website and post team picture.
- ii. Schedule and attend client meeting as a team.
- iii. Research based off of notes from client meeting.
- iv. Update problem statement and PDS.

Summary of Accomplishments

- i. As a team we met with our client at her clinic in Verona, WI. At the client meeting we learned many of the specifics the client was looking for in our design. We were able to view the exam table at the clinic and even obtain a user's manual. After meeting with the client and observing the exam table at her clinic

we became aware of the design challenges we will face. With these challenges in mind we will refocus our research. The main design challenge is to find a radiolucent material to generate or carry heat. The client mentioned the possibility of allowing us to test various materials for their radiolucency using the clinics x-ray machine.

- ii. All members of our team have been conducting general research including research on radiolucent materials. At our group meeting this Friday we will discuss our research and possibilities for radiolucent heating.
- iii. Paul created our website. Our website will provide our team, client and advisor with a way to easily access deliverables and remain updated on our progress.

This Week's Goals

- i. Research based off of notes from client meeting, focusing on challenges presented.
- ii. Update problem statement and PDS.
- iii. Meet with advisor.
- iv. Brainstorm ideas.
- v. Resolve/discuss funding issues with advisor.
- vi. Apply for student shop permit.

Project Difficulties

During our client meeting we were informed that she did not anticipate funding our project. We will need to find a way to fund our prototype before we begin buying parts for prototype.

Activities

1.30.2009	Team: Client meeting at clinic in Verona, WI	2 hours
2.2.2009	Joey: General research	.5 hours
2.3.2009	Joel: Research/review of radiolucent materials	1.5 hours
2.4.2009	Paul: Created and updated team website	1 hour
2.4.2009	Joel: Reviewed exam table manual provided by client	.75 hours
2.5.2009	Tyler: Research/review radiolucent materials	1.5 hours
2.5.2009	Tyler: Write progress report	.75 hours

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