

# Heated Diagnostic Radiology Examination Table

Week 9 – March 20 to March 27, 2009

## Team Members:

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## Client:

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## 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. Rethink testing procedure, document the new procedure.
- ii. Schedule a time to retest radiolucency and contrast of tubing using “phantom”.
- iii. Begin planning prototype construction/ordering of necessary materials.
- iv. Finalize heating and pumping units.

## Summary of Accomplishments

- i. Joel has contacted Dr. John Vetter to schedule a time for us to retest our materials with a phantom.
- ii. The use of PMMA has been considered in the event that the currently selected materials fail the second round of testing.

- iii. Joey has contacted various professionals concerning the known radiolucency of different materials. Quantifying the radiolucency of different materials will save time during testing and may even lead us to the use of other materials we have not yet considered.
- iv. All team members have submitted applications and are in the process of acquiring a student shop pass. This will allow us the opportunity to use the student shop in the development of our prototype.

### **This Week's Goals**

- i. Retest materials appropriately, document the new procedure.
- v. Begin ordering tubing and other supplies.
- vi. If testing shows current materials will not work begin starting with PMMA.
- vii. Finalize heating and pumping units.

### **Project Difficulties**

N/A

### **Activities**

3.25.2009	Team: General team meeting.	.5 hours
3.26.2009	Joey: Investigate radiolucency of materials.	.5 hours
3.25.2009	Joel: Contact Dr. John Vetter.	.1 hours
3.26.2009	Paul: Updated website.	.5 hours
3.26.2009	Tyler: Wrote progress report.	.5 hours

