Patient Positioning Aid

Week 11
April 11th, 2006
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Work Completed:

This week there was no need for anything major to be done. First we attached poly foam to relieve stress on hospital staff members who help carry patients by placing their hands underneath the positioning aid. We placed a total of 4 pieces of poly foam. Two were placed toward the center of the board in between the two track systems for the arm stabilizer and leg stabilizer. Figure 1 shows these two on the board. One was placed underneath that handbar, and the other all the way on the bottom by the feet. Figure 2 displays the one by the head.

Figure 1: Polyfoam in Between Track Systems
Figure 2: Polyfoam Under Handbar

The foam pieces under toward the top and bottom can be used when more than 1 person is lifting at one side. One hand can be placed on the handle, and the other can be placed underneath by the polyfoam.

We were also able to attach the new pad we received to the board using Velcro. We used 8 pieces of industrial strength Velcro to attach it. This will allow for a secure attachment to the board, and also removal to clean the component. Figure 3 displays the Velcro on the foam.
Figure 3: Velcro on Pad

We also were able to order a few things that we need to complete the positioning aid. These components are not crucial but they allow the aid to be more complete. We put in an order for a case to hold all the detachable components, not including the pad. It will hold all the pieces of the leg and arm stabilizers. This will allow for storage and eliminate any possibility of losing a component due to misplacement. We also ordered adhesive rulers that we will place next to the track systems. The rulers will allow staff members using the device to position the leg and arm stabilizers in the same locations on each side.

Future Work:

For the next week we will be mostly considered with finishing our testing, and writing our final report along with preparing our manual. We will also stencil foam in
the case for component storage once we receive it so the pieces don’t move. In addition we will glue the adhesive rulers to the board.

Project Review:

We have finished our project and only graphical components are left to attach. It functions exactly the way we intended it to and there is no need for immediate action of any kind. We will be considered mostly with our paperwork now that the positioning aid works to specification.

Hours Worked:

Design Lab:    7
Outside:       1
Total:         8