

## **Patient Transfer Device**

Client: *Ashish Mahajan, MD*

Team Members:

*Justin Gearing (Leader)*

*Jamon Opgenorth (Communications)*

*Daniel Miller (BSAC)*

*Alex Bloomquist (BWIG)*

4/10/09 – 4/17/09

### **Problem Statement:**

Currently, patients are transferred by 5-6 workers using an articulating roller, which is designed for a flat bed to flat bed patient transfer. The client would like a jointed roller system that will allow for efficient transfer of patients who are to remain in a sitting up or “crunched” position through the transfer. Design needs to be reliable, lightweight, and compact to fit behind the door of the recovery room.

### **Last Week’s Goals**

- Measure for vinyl (thanks Mrs. Miller)
- Finish plate fabrication
- Build and attach hinge

### **Summary of Accomplishments**

- Measuring for vinyl (again, thanks Mrs. Miller)
- Finished all plate fabrication
- Tapped all aluminum rods
- Began fabricating hinges

### **This Week’s Goals**

- Complete fabrication of hinges
- Trip to hardware store for bolts
- Completely finish ALL fabrication
- Begin testing

### **Project Difficulties**

- The hinges were made exactly the same and now need to be modified to make it work for our hinge design. Not a huge deal.
- The rods did not fit correctly as planned in our end plates.
- Must keep attention to detail nearing the end of fabrication

