

## **Patient Transfer Device**

Client: *Ashish Mahajan, MD*

Team Members:

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2/27/09 – 3/6/09

### **Problem Statement:**

Currently, patients are transferred by 5-6 workers using a 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**

- Make final ordering decisions.
- Select exact joints and bearings
- Get mid-semester presentation out of the way.
- Order single bearing to test, unless another bearing shows up somewhere else.

### **Summary of Accomplishments**

- Finalized design
- Completed Mid-Semester presentation
- Completed Mid-Semester report
- Revised and completed design matrix

### **This Week’s Goals**

- Order ball bearings for testing
- Order joints and joint materials
- Cut raw materials down to size
- Test ball bearings to assure they will work

### **Project Difficulties**

- Flanged bearings not available so we will have to do some experimenting with un-flanged bearings to make sure they will work.
- Not exactly sure how ball bearings will work with our tubing so we have to buy a sample to test.
- A lot of manufacturing has yet to be completed...or started.

