

## **Patient Transfer Device**

Client: *Ashish Mahajan, MD*

Team Members:

*Justin Gearing (Leader)*

*Jamon Opgenorth (Communications)*

*Daniel Miller (BSAC)*

*Alex Bloomquist (BWIG)*

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### **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**

- Complete installation of ball bearings
- Complete lathing out of the tubing
- Begin to familiarize ourselves with the mill so we can finish our end plates

### **Summary of Accomplishments**

- Finished lathing all pipes.
- Ordered rest of bearings and Loctite sleeve retainer
- Purchased parts for attaching tubes to end plates

### **This Week’s Goals**

- Complete installation of ball bearings
- Work with the mill, begin and hopefully complete milling of the end plates
- Begin to look at how the screws will fit into the end plate (counter-sink?)

### **Project Difficulties**

- A lot of manufacturing has yet to be completed.
- Unforeseen difficulties are likely with the amount of fabrication left.

