

Patient Transfer Device

Client: *Ashish Mahajan, MD*

Team Members:

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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

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

Summary of Accomplishments

- Ordered ball bearings in order to test and make sure they work
- Completed Mid-Semester report
- Began testing ball bearings

This Week’s Goals

- Complete testing of ball bearings
- Order joints and joint materials
- Cut raw materials down to size

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.
- We ordered 1” and 1 and 1/16” ball bearings. So far we tested the 1” and they do not fit in our aluminum pipes. We are planning on trying the bigger ones soon.

