

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

- Make a final decision on the type of joint used.
- More decision making.
- Meet to get all loose ends tied up so that we can make an order on parts after this upcoming Friday’s meeting.
- Begin thinking about mid-semester presentation.

Summary of Accomplishments

- Finalized all roller device dimensions.
- Created budget with most expected expenses.
- Selected materials and ordered aluminum rods, block and pipes for our device.
- Met with client to update and get authorized for purchasing

This 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.

Project Difficulties

- Flanged bearings not available so we will have to do some experimenting with un-flanged bearings to make sure they will work.
- Joint between pipe bearings and aluminum plate/end-cap is proving to be a difficult project.
- Trying to predict whether or not the ideas we come up with will actually work with no good way to test before ordering.

