

Patient Transfer Device

Client: *Ashish Mahajan, Ph. D*

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 major components of this project, namely roller style and joint type to ease fabrication schedule.
- More decision making.
- Meet to go over all of the rough aspects of the project so far, and how we intend to get them fixed.

Summary of Accomplishments

- Met and made final design decisions on type of rollers.
- Final decision on dimensions of our patient transfer device.
- Brainstorming for how all components will come together, for example how the bearings will fit inside tubing and attach to end caps.

This 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.

Project Difficulties

- Many design alternatives, not easy to choose the best one.
- Whether to build from scratch or modify one excessively large patient transfer device to fit with our client’s specifications.
- Cost of project.

