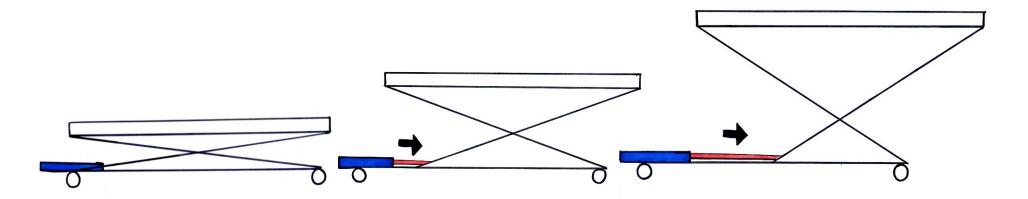


EasyLift Stretcher

Our Concept

- Assisted-lift ambulance stretcher
- Reduce back injuries to EMTs
- 16 million patients transported to hospitals each year in the US



Benchmarking

Ferno 35A



Cheap (~\$3,000)

Lightweight

No lift-assist

Stryker PowerPRO



Expensive (~\$14,000)

Bulky

Lifts 700lbs with ease

Considerations

- Collapsed height constraint
- Speed and smoothness of lifting
- Manual over-ride
- How much load assist is appropriate?
 - 80th percentile male weight= 210 lbs

Need to balance these parameters

Demonstration

- In current configuration:
 - 200 lbs of lifting force
 - 2.5" diameter piston
 - 11" of piston travel for 30" of vertical lift

Lessons Learned

- Several orientations for linkages
 - □ Piston can be moved, re-oriented, adjusted, etc.
- Pedal is a comfortable control
- Need robust locking mechanism when raised

Questions?

