TECH SOCK ENGINEERS

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HOW MIGHT WE MAKE COMPRESSION SOCKS MORE ACCESSIBLE FOR ELDERS

28% OF ADULTS GET VARICOSE VEINS

- Tired
- Weakness
- Long-time Standing
- Age
- Pregnancy
- Sedentary Lifestyle
- Cheap
- Cure
- Easy to Get
- Strength
- University
- Complex
- Strong
- Simple
- Easy to Use
- Accessible

Our Uniqueness
- User-Centered
- No/Little Strength Requirement
- Remain Cheap
- Easy to Use

SOLUTION DIRECTIONS

Handle Sock
- The handle sock adds two strong elastic handles to the sides of the sock to facilitate grip when pulling it up, and the handles are collapsible to make them non-obtrusive. The corset and velcro ideas make the sock loose to put on, then adjustable to tighten on the leg. The corset sock uses polyester boning and laces up, while the velcro sock uses attachable elastic straps.

Corset Sock

Velcro Sock

Subject Tests
- We asked students to wear the handle sock, and added different handles to simulate the difficulties that elders might face.
- We timed them wearing normal vs modified sock.

The corset sock was made too big to test with human subjects, so we tested functionality on the dummy leg.

FUTURE

Refine Prototypes
Approach Hospitals & Elderies to find Early Adopters
More Traction Experiment
Improve Quality
Test Run & Marketing

TRACTION EXPERIMENTS

EARLY ADOPTER PLANS
- Partner with local hospitals and geriatric care homes
- Doctors can recommend our product to patients
- Contact local manufacturers