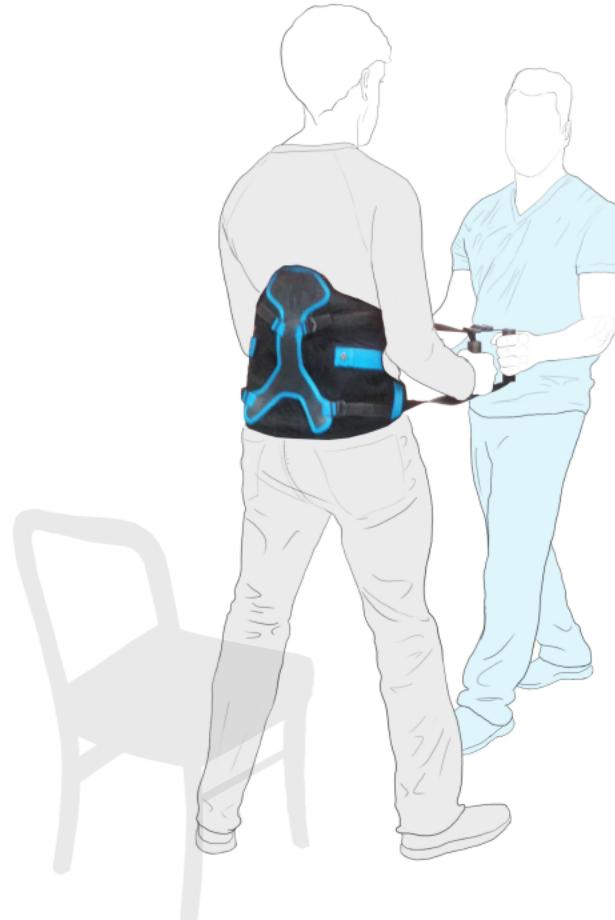
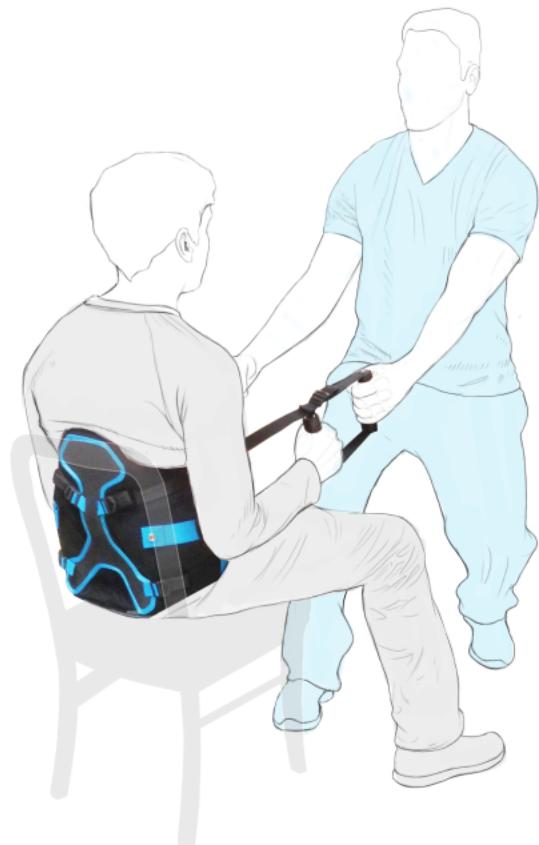


ErgoHUG



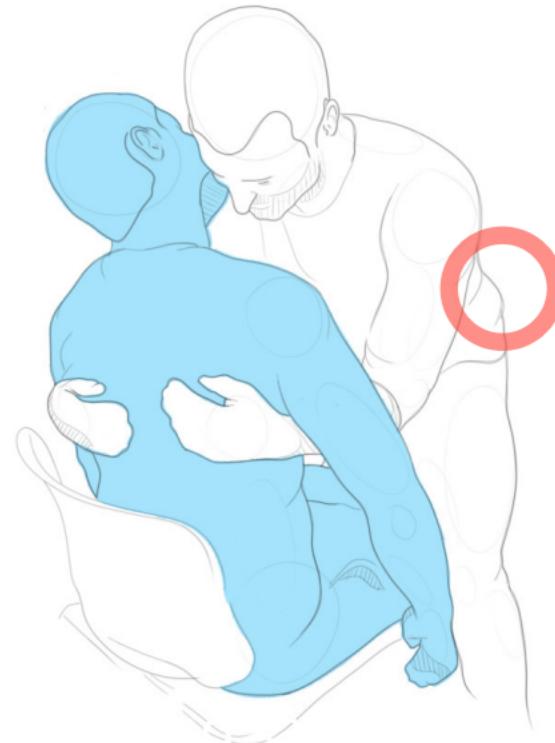
Powered by : StrongArm Technologies, Inc.

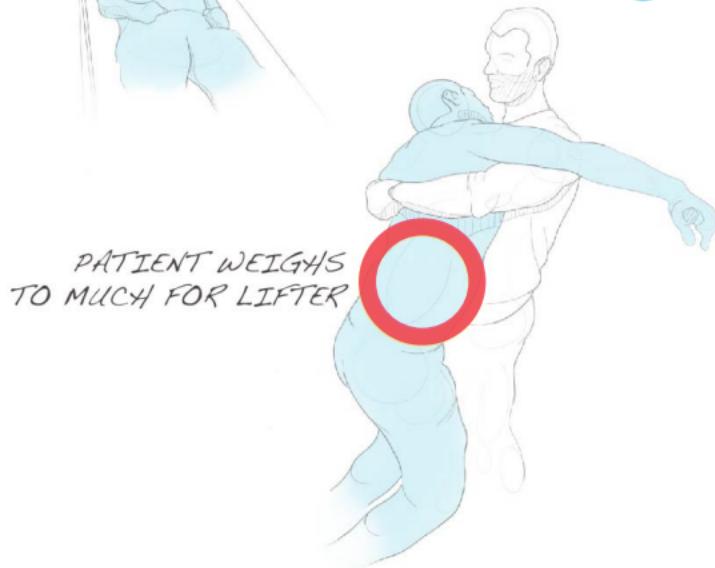


The Hidden Danger

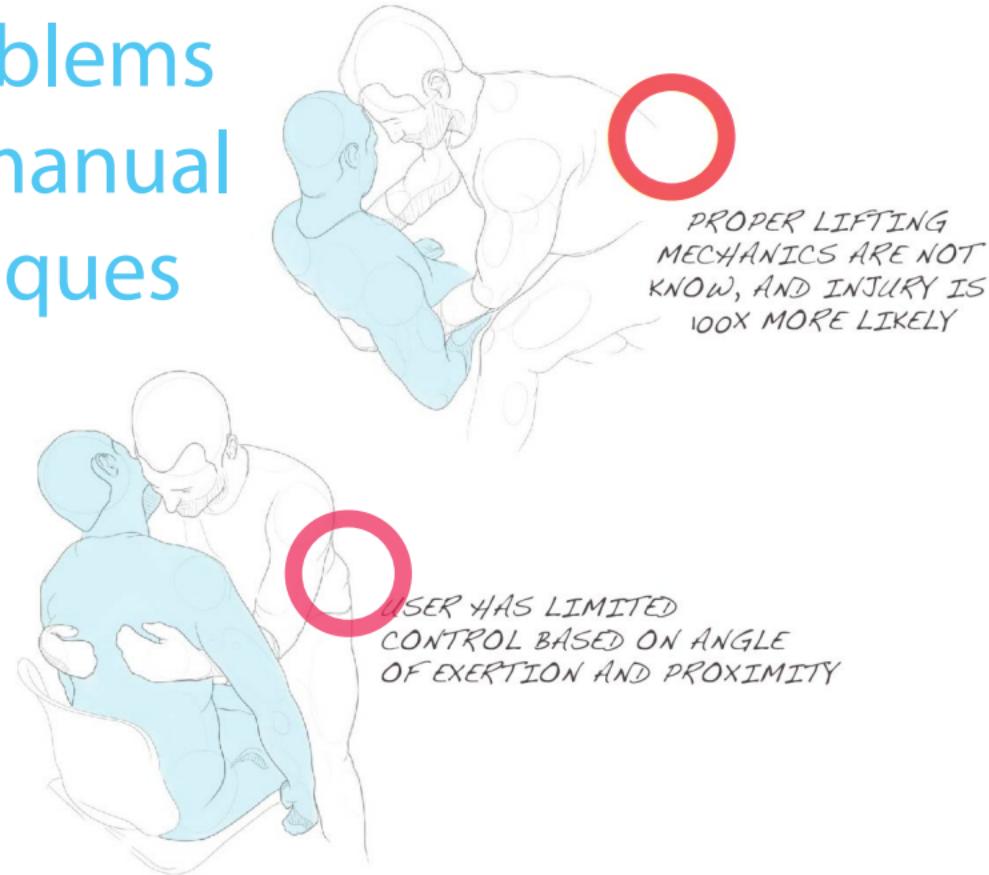
The “hug lift” results in over **1600 LBs of force** on the lower back

That is nearly
2X
the recommended safe limit





There are problems with current manual lifting techniques



Traditional Lifting Techniques ARE Damaging

\$ 60,000 PER INJURY
in productivity and medical costs

Nurses



52% complain of
chronic back pain



30% of annual sick
leave is due to
back pain



70% of back inju-
ries come from
lifting patients



Let's reduce **INJURIES & COST** / Increase **COMFORT & SAFETY**

ErgoHUG

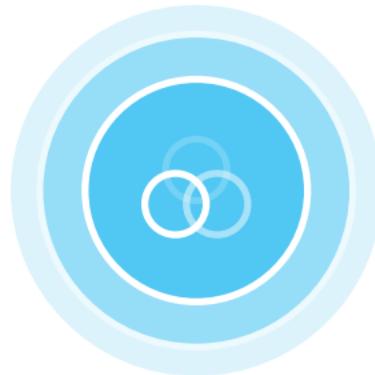
80% Reduction in compressive loading of the spine*





strength capability of the
back/torso increased by
97%*

* When compared to traditional Hug Lift



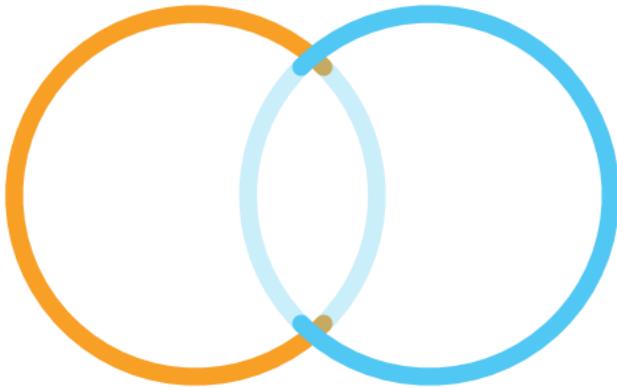
CALM.CONTROLLED.CONSISTENT.

AugmentedEMBRACE

CoOperative Control:

Specifically designed as a holistic feeback system
between both lifter and patient, to augment the
traditional hug lift. Patient feels like they are in control.





THE ALTERNATIVES



DeHumanizing

Fear



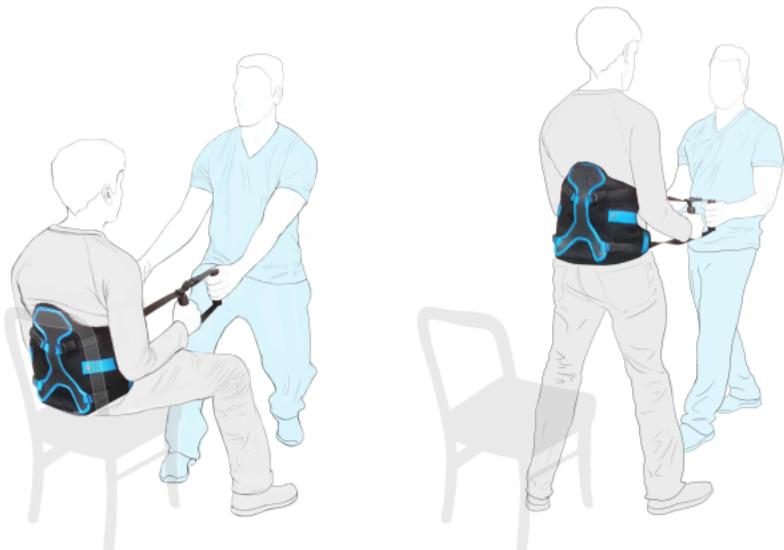
Discomfort

Expensive





Allow us to introduce the StrongArm Solution



The ErgoHUG





Manual (No Assist): Sit-to-Stand Patient Lift

Untitled Task



3D 3DSSPP - 3D Lowback Analysis

Description
Company: Unknown Company, Analyst: Unknown, Date: 04/02/14
Task: Untitled Task
Gender: Male, Percentile: 95th, Height: 74.0 in, Weight: 278.2 lb
Comment:

Muscles	Forces (lb)						Mom. Arms (in)	
Muscle	Result	Shear	X	Y	Z	X	Y	
L.Erector Spi.	1022	0	0	0	1022	1.3	2.3	
R.Erector Spi.	996	0	0	0	996	1.3	2.3	
L.Rectus Abdo.	0	0	0	0	0	1.6	3.3	
R.Rectus Abdo.	0	0	0	0	0	1.6	3.3	
L.Internal Ob.	0	0	0	0	0	4.6	1.4	
R.Internal Ob.	5	3	0	3	3	4.6	1.4	
L.External Ob.	0	0	0	-0	0	5.2	1.3	
R.External Ob.	4	3	0	-3	3	5.2	1.3	
L.Latis. Dorsi.	220	156	-156	0	156	2.8	2.1	
R.Latis. Dorsi.	220	156	156	0	156	2.8	2.1	

L4/L5 Disc

Compression (lb)	
Total	2433

Shear (lb)

Total	
Total	285

Components

Anterior	Posterior
285	

Lateral
-0

3DSSPP 6.0.5 Licensed to: Brian Sherman
Copyright 2011, The Regents of the University of Michigan - ALL RIGHTS RESERVED

Untitled Task



3D 3DSSPP - Sagittal Plane Lowback Analysis

Description
Company: Unknown Company, Analyst: Unknown, Date: 04/02/14
Task: Untitled Task
Gender: Male, Percentile: 95th, Height: 74.0 in, Weight: 278.2 lb
Comment:

Compression Force at L5/S1:

Total Compression (lb)	+/- 199
2606	+/- 199

Shear Force at L5/S1:

Total Shear (lb)	
284	

Components

Erector Spinae:	+/- 199
Rectus Abdominus:	+/- 0
Abdominal:	-125
Hand Loads:	16
Upper Body Weight:	177

Sagittal Plane:	284
Frontal Plane:	0

Estimated Ligament Strain (%):



Lift Partner (Pull Method): Sit-to-Stand Patient Lift

Assumptions: 200 lb patient (100% of load at hands resulting in a total pull force, equally distributed between left and right side of body). Anthropometric model of participant performing lift was based on 95th %-ile male.

