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Thank you for subscribing to Ekso Bionics® (NASDAQ:EKSO)* mailing. Please enjoy the following news snapshot.

EKSO BIONICS CEO, Thomas Looby to Ring NASDAQ Closing Bell

Watch Ekso Bionics CEO, Tom Looby, ring the closing bell on the NASDAQ stock exchange. This event will be live streamed Tuesday, August 30, 2016 at 3:45pm EST. Don't miss it!

Watch the live stream here.

Watch this Tedx Talk to learn about robotics uses in stroke rehabilitation

This Tedx Talk event (independently organized) features Dr. Karen J. Nolan discussing current uses of robotics for stroke rehabilitation. She provides examples of robotics technologies used by Physical Therapists to re-train patients in body biomechanics.

Karen J. Nolan, PhD is a Senior Research Scientist in the Human Performance and Engineering at Kessler Foundation, Associate Professor of PM&R at Rutgers NJMS, Clinical Research Scientist at Children's Specialized Hospital, and Affiliated Faculty of Biomedical Engineering at the New Jersey Institute of Technology. Dr. Nolan has extensive experience leading the design and implementation of biomechanical research and strong expertise in balance, gait, movement analysis, neuromuscular physiology, rehabilitation robotics, and peripheral motor control. Dr. Nolan is recognized as a leader in the field of biomechanics and motor rehabilitation and has been invited to give presentations on these topics at national and international conferences.

Watch video here.

Bionic Suits- Driving Innovation: Bay Area

Host Doug Kolk takes a drive around the Bay Area to visit some of the amazing bionic suits being made by Ekso Bionics.

Watch the video here.

From walking frame to cane with Ekso

See how Matt Smetten, who had a brain hemorrhage 6 years prior, progresses from walking frame to cane using Ekso GT robotic exoskeleton.

Watch video here.

PATIENT SUCCESS STORY

AVM Stroke Patient; Walking for his Life

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PATIENT BACKGROUND

It was an unexpected scenario. One summer day in August 2013, Brad Berman, 37, a family man, self-proclaimed avid marathon runner and lawyer found himself at home with a horrible headache. Shortly thereafter he found himself barely able to call his wife Jessica while laying on his kitchen floor. She came home and reacted quickly, calling an ambulance. Brad was unable to recall details of what happened next.

Hospital doctors determined Brad suffered a brain AVM (Arteriorvenous Malformation), the blood vessels ruptured leading to a brain hemorrhage on his right side. Doctors performed a life saving surgery (cutting off the right side of his skull and storing it in his stomach to relieve pressure). Surgery was followed by a one month medically-induced coma. When Brad reemerged in September with his family by his side, he was completely paralyzed on the left side.

CONTINUUM OF CARE – FROM ACUTE TO OUTPATIENT

Brad Berman's initial recovery process began at Helen Hayes Hospital followed by Burke Rehabilitation Hospital (acute care) in Westchester, NY, a 150-bed acute care and outpatient facility specializing in stroke, spinal cord, and brain injury rehabilitation. The road to recovery was long and difficult. He underwent several surgeries. At the time down to 119 (from 150 lbs), Brad worked diligently with PTs to regain ambulatory function, strength, and use of his left hand. He worked with OT's and Speech Therapists to improve cognition, speech function. Among Brad's functional deficits were significant short-term memory loss, lifting his left arm and controlling his left leg.

Being a marathon runner and active dad, Brad was relentless in his goal to walk out of the hospital. He was a very motivated patient. After 4 months in acute care, Brad was discharged from inpatient, returned home to his wife and 2 young boys. He started Burke's intensive outpatient rehabilitation using his boys as his greatest motivation. He has always been a hands-on dad.

THE ROAD TO AMBULATORY RECOVERY

Initially Brad was fixated on standing on his right leg, instead of shifting his weight to achieve a standard midline orientation. He would work daily with a team of physical therapists to regain the ability to stand and walk. With each therapist Brad would practice getting used to putting pressure on the left side of his body. Brad described the early ambulation process this way; he wrapped his arms around a very strong therapist, who would help him to stand and take steps. A therapist encouraged Brad to pick a spot on the wall.

CHAMPIONING STATE-OF-THE-ART TECHNOLOGY

While Brad was working hard in outpatient care, Brad's wife was working equally hard behind the scenes, researching the most cutting-edge neuro-rehabilitation technologies for walking. She stumbled upon an emerging field called Assistive Technologies. Neither she nor Brad had ever heard of it. At Burke, they thankfully became acquainted with Dr. Dylan Edwards, Director, Non-Invasive Brain Stimulation and Human Motor Control Laboratory and Associate Professor of Clinical Neurophysiology at Weill Cornell Medical College. He oversees Assistive Technologies. Jessica asked Dr. Edwards about robotic exoskeletons, in particular Ekso GT by Ekso Bionics. She asked how much it would cost? He replied, $600,000 to fund an Assistive Technologies program for a few years. Undeterred, Jessica leaped into action, starting a fundraising campaign to raise the money through a "Run 4 Brad: Train the Brain Campaign". They combined Brad's love of running with community support. Jessica and Brad engaged the entire family (including the 2 boys who raised nearly $9000), and their entire community. They raised over $750,000, and used part of the funds to purchase 2 Ekso lower limb devices for Burke Hospital.

TESTING ROBOTICS IN RECOVERY

Brad began working with Ekso in 2014 and describes Ekso PT's as very encouraging while adjusting to the machine. The therapist validated his progress at the end of each session with # of steps taken. Over the course of 20 months, Brad's Ekso ambulation regimen was 1 time per week for 1-1/2 to 2 hours. Brad describes the most valuable aspect of Ekso; unless you are doing things properly, i.e. stepping the right way, you don't move the machine.

The technology adapts to the patient's level of functionality and strength (in real time), at the same time reeducating the body toward an improved midline orientation, gait, speed, timing, repetition of movement.

COUNTING STEPS

From the very 1st time Brad was using the exoskeleton, he took a few hundred steps per session. By March 2016, Brad took 1300 to 1400 steps per session. He says "he got to know the hospital hallways really well."

After finishing an Ekso session Brad would try to carry over his repetitions and learning to regular activities. As he walked to his car in the hospital parking lot, he would recall what walking looks like, thinking about that day's session. Brad described the Ekso as an "excellent workout".

"I started to do walks in my neighborhood…1 mile, then 2 miles." Brad continued to think about what he learned working with Ekso and over time rebuilt his confidence.

PATIENT ENGAGEMENT WITH THE EKSO GT

Brad describes *patient engagement* as one word: "mindfulness".

"When you are healthy and walking you are not thinking about walking." He was scared of falling, so he took shorter steps on the right, afraid of bearing weight on his left leg. Using Ekso, he started to understand what walking would look like. He was able to visualize it in his mind.

Brad was asked to describe what Ekso meant to his recovery. "It's amazing and a means to an end because I want to run again. I knew the deficits I was facing. It is a game changer."

PSYCHOLOGICAL AND PHYSICAL RECOVERY

Brad said it took him a long time to trust his body. For a competitive marathoner, that's a big deal. He also struggled with confidence, and with every step he would ask, "can I do this"? Sticking with Ekso as long as he did helped to "reset " (the body), "teaching him how to walk and feel comfortable."

There were everyday work and personal life adjustments Brad made over this 2 year period. When he returned to work, Brad had to walk down the hall to meetings. Ekso continued to be helpful, even after Brad was no longer doing weekly Ekso sessions. Brad would think of Ekso and what his therapists were saying are the right and wrong ways to walk. His balance and stamina steadily improved. Brad would describe the process to increasingly walk without his cane. One of his work colleagues watched him walk down the hall every day for a year. She noticed he would be carrying boiling hot coffee down the hall without cane. It took a lot of belief in himself and his body to do that.

PAYING IT FORWARD

Brad's successful ambulatory progression inspired other patients and patient's families to inquire how he achieved his results. Specifically, one time a patient tracked him down in the hospital parking lot. "He'd been watching me walk for nearly a year and asked, what have you been doing. I told him robotics." Patients throughout the hospital took notice. "It's a great machine. It's eye catching, a space-age device."

With an athlete and father's strong will to walk again, combined with family and community by his side, the Bermans provided a unique opportunity for Burke and it's rehab patients to use a state-of-the-art technology to get everyone taking more steps.

www.eksobionics.com

AVM Stroke Patient; Walking for his Life

Learn more about a stroke patient's experience with Ekso GT robotic exoskeleton at Burke Rehabilitation Hospital in White Plains, NY.

Read more here.

Transforming the Construction Industry

With this new suit fatigue from heavy tools and injuries from poor lifting techniques could very well become a thing of the past.

Click here to read article.

Rehabilitation Technology

Rehabilitation Institute of KC showcases Ekso GT on Kansas City Live.

Watch the full video here.