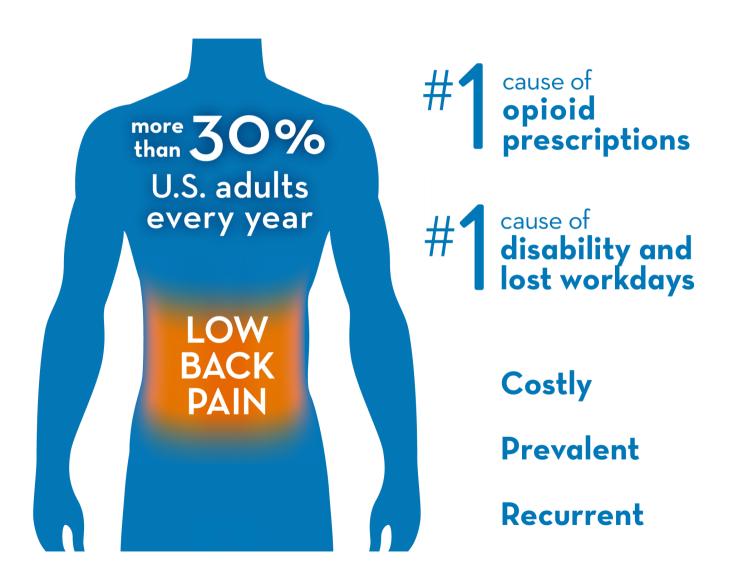


Low Back Pain Program

Lydia Zeller, VP Product Strategy Izeller@kiio.com

IBI 2018 Forum, March 12 2018

Low Back Pain



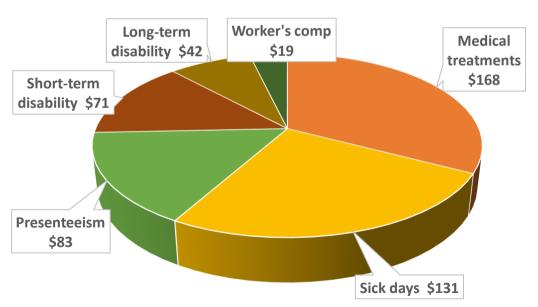


Impact on Employers

Working age issue

- 72% of adult healthcare visits for LBP are working age¹
- \$100,000 Average cost of a chronic LBP disorder²

Cost to employer - \$514 / employee (2013 dollars)³



"Employers stand to benefit from understanding the extent of back pain in their workforce and helping employees prevent, treat and manage their pain."

Tom Parry, PhD., Integrated Benefits Institute
President Emeritus





¹ http://www.boneandjointburden.org/docs/By%20The%20Numbers%20-%20Back%20Pain.pdf

² https://spine.osu.edu/blog/2014/10/high-corporate-costs-back-pain-and-how-control-them

³ IBI Chronic Disease Profile. Low Back Pain. April 2013

Impact on Employers ... and Employees

Absenteeism

40% due to LBP¹

Productivity

24% of adults report LBP affects ability to work²

Wellbeing

- 76% higher medical costs than those without LBP³
- Average of 4.9 co-morbidities⁴
 - Depression
 - Chronic fatigue
 - Obesity





¹ Manchikanti L, Singh V, Datta S, Cohen SP, Hirsch JA, ASIPP (2009). "Comprehensive review of epidemiology, scope, and impact of spinal pain". Pain Physician. 12 (4): E35–70.

² APTA Move Forward Survey https://www.moveforwardpt.com/LowBackPain/Infographic

³ Martin BI, Deyo RA, Mirza SK, Turner JA, Comstock BA, Hollingworth W, Sullivan SD. Expenditures and Health Status Among Adults With Back and Neck Problems. JAMA. 2008;299(6):656–664. doi:10.1001/jama.299.6.656

⁴ IBI Chronic Disease Profile. Low Back Pain. April 2013

20 Years of Frustration



¹ Deyo, RA, Mirza, S, et all. Overtreating Chronic Back Pain: Time to Back Off?. J Am Board Fam Med. 2009; Vol.22 No.1, 62-68.

² Crow, WT, Willis, D. Estimating Cost of Care for Patients with Acute Low Back Pain: A Retrospective Review of Patient Records. The Journal of the American Osteopathic Association. 2009; Vol. 109, 229-233.

³ Martin, BI, Deyo, RA, et all. Expenditures and Health Status Among Adults With Back and Neck Problems. JAMA. 2008; Vol.299 No.6.

Kiio

"Our goal is to engage people in care that is individualized, personal, convenient, and effective ... while also scalable and high-value for the payer."





Kiio Program – Employer Perspective

Screening & care path optimization

- Determination of multi-dimensional risk profile
 - Medical flags, clinically validated psychosocial risk stratification, symptoms
 - Identifies co-morbidities
 - Capture of baselines & demographics
- Automatically optimizes care path by steering complex cases

Evidence-based care & decision support

- Care automatically delivered to employee's mobile device
 - Multi-track, multi-level exercise programs
 - o Pain education International Pain & Spine Institute
 - Automated progression based on individual employee response

Monitored Population Management

- Program overseen by RN care managers
 - Automated alerting & proactive outreach
- Participants have access to 1:1 interaction
- Outcome reporting
 - o Pain reduction; functional ability; work impact





Kiio Program – Employee Perspective



Screening

- · Less than 10 minutes any time, anywhere
- · Immediate referral to appropriate care
 - >75% receive mobile care program

Individualized care delivered via mobile

- Individualized home exercise program
- Education on overcoming chronic pain
- Content delivered automatically based on individual progress & response
- · Virtual coaching visual & audio
- Individualization & relevance
 - Preferred routine length (express / complete)
 - Preferred reminder days/times
 - o Encouragement & support via secure in-app messaging
 - o Progress towards personal goal
 - Access to 1:1 interaction with care managers





Outcomes



8 out of 10 experience reduction in pain (95% CI)

Pain Reduction

50% Average decrease in pain score over all particants

International benchmark for clinical significance in low back pain is 30%*

Efficacy & Cost

More or as effective** as opioids, specialty visits, imaging & surgery at a fraction of the \$

Program User **Empowerment**







Value to Employers

Reduction in utilization of expensive services





Physical Therapy X-rays & MRIs Epidurals Surgery

Employment cost reduction

Missed work days Lost productivity



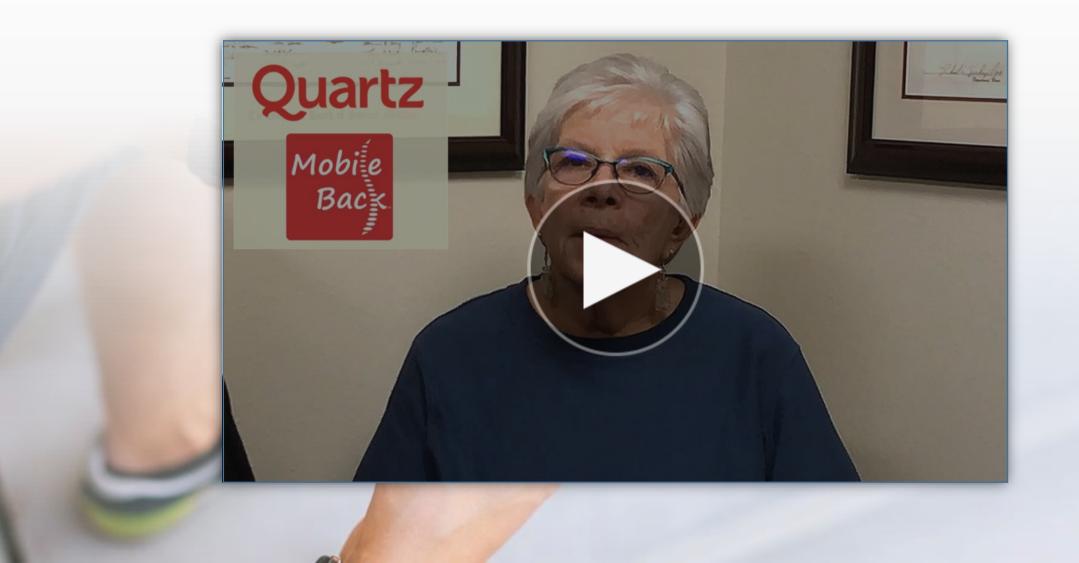
Disability Worker's comp

Long term risk reduction

- Improved employee back health reduces injury risk
- Employees learn techniques to manage flare-ups



Value to Employees



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