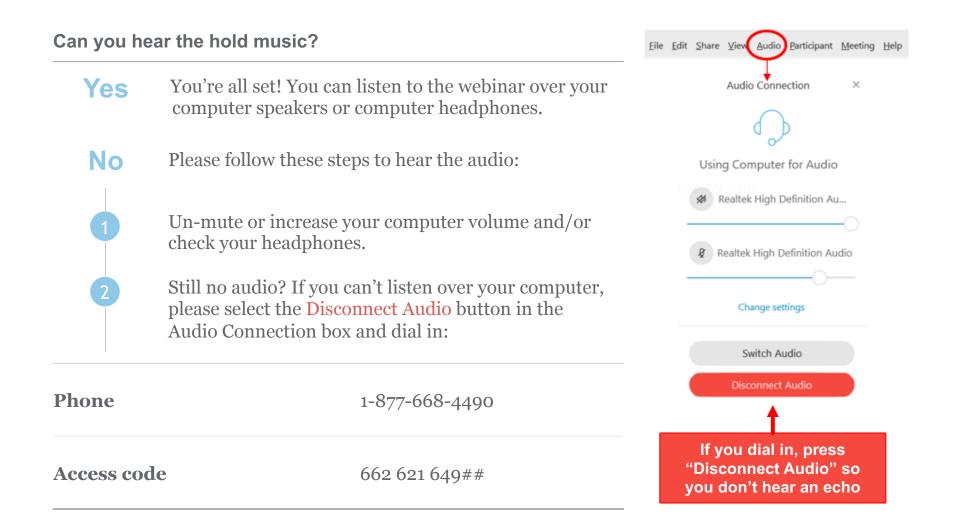
## Welcome, we will begin shortly.



## From catastrophic injury through recovery: What treating the whole person really means

Steven Moskowitz, MD Senior Medical Director, Paradigm

Hassan Moinzadeh, MD, PhD Medical Director, Paradigm Catastrophic Care Management



## **Welcome and Logistics**

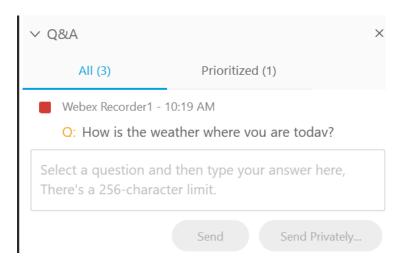
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## Presenters and Objectives

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#### Paradigm's Aim

With a mission to help as many people as possible, we work to restore an injured worker's health, their spirit, and their hope for a brighter future.

#### **Presenters**





#### Steven Moskowitz, MD

Paradigm Senior Medical Director

- Leads Paradigm's pain program
- Physiatrist with 30 year experience chronic pain, neurological rehabilitation
- 30 years experience in managed care and program development
- Certified in Managed Care Medicine

#### Hassan Moinzadeh, MD, PhD

Medical Director, Paradigm Catastrophic Care Management

- Physiatrist specializing in inpatient acute rehabilitation, musculoskeletal medicine, and pain management
- Associate professor at University of California, Irvine
- On staff at Long Beach Memorial Medical Center
- Licensed clinical psychologist

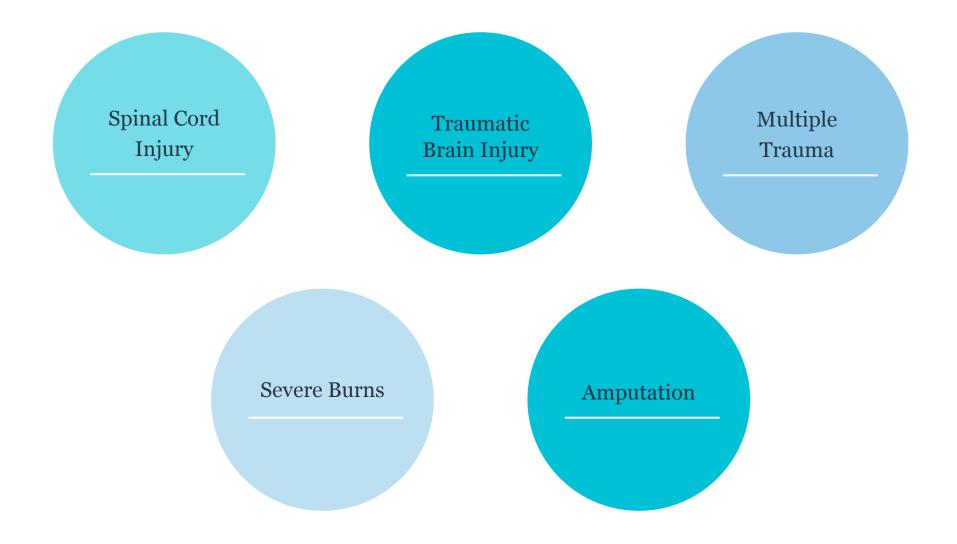
## "Our life is shaped by our mind; we become what we think."

Attributed to Gautama Buddha

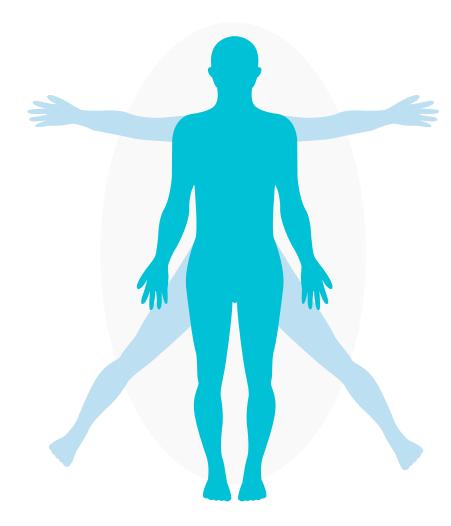
### **Objectives**

- Explore the psychosocial and mental health challenges commonly experienced by an injured worker and their family after catastrophic injury
- Look at the existing psychosocial environment surrounding the injured worker and how this can influence the path of recovery
- Identify appropriate psychosocial interventions based on the injured worker's particular situation including their family and financial needs
- Highlight a more effective, whole person approach to catastrophic injury

#### **Catastrophic injuries are life-changing**



### Catastrophic injuries affect the whole person



#### **High medical complexity**

- ▶ High risk for mortality/death
- High rate of medical complications
- Extensive medical treatment
- Ongoing medical issues

#### **Alteration of body**

- Physical/functional impairments
- ▶ Cognitive impairments
- Change in body image
- Emotional/psychological effects

#### **Change in lifestyle**

- Sudden lifestyle change (catastrophe)
- Sudden change in independence, autotomy
- Altered family and social dynamics
- Need to mourn, accept, adapt, change

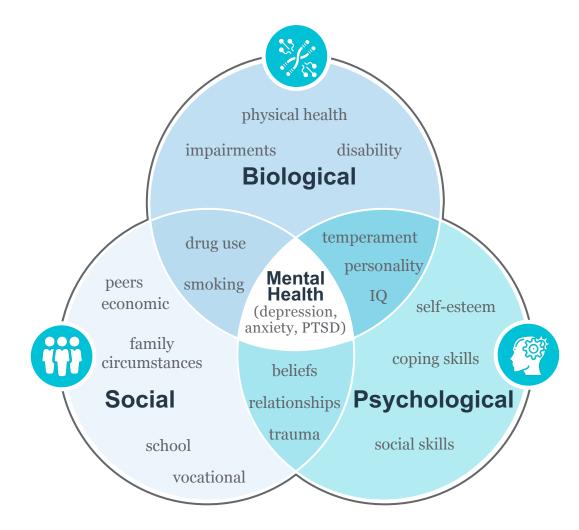
#### Psychosocial issues can lead to poor outcome

Survey of claims professionals reveals agreement that these factors lead to delayed recovery

Answer	Overall Rank	Mean
Psychosocial / co-morbidities	1	4.08
Lack of RTW option / accommodation	2	4.64
Litigation	3	4.79
Employee / employer relationship	4	5.04
Late injury / claim reporting	5	5.20
Proactive / timely communication with stakeholders (i.e. employee, employer, providers)	6	5.57
Legalese statutory requirements / communication	7	5.63
Employee doesn't understand the workers' comp system	8	5.81
Jurisdiction / geographic differences	9	6.74
Access to care	10	7.50

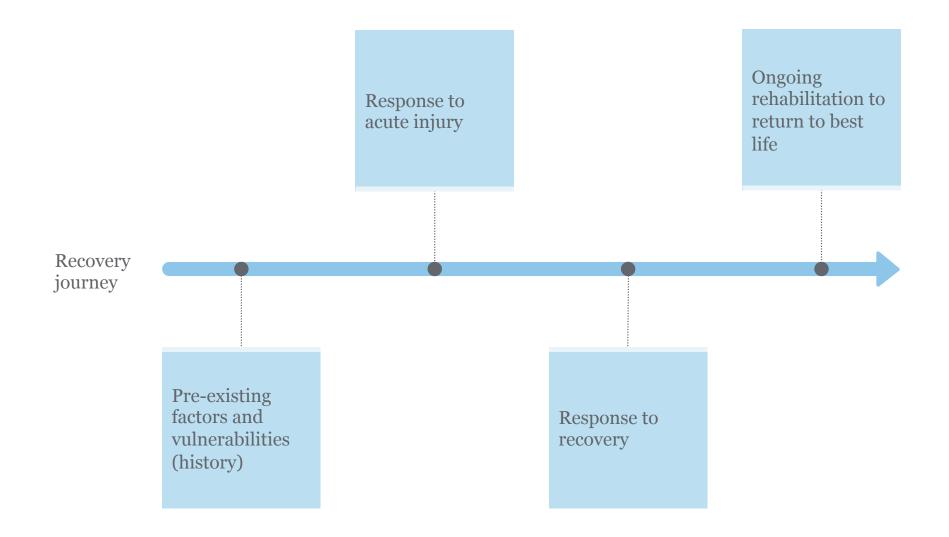
Source: 2016 Workers' Compensation Benchmarking Study; Denise Zoe Algire for Rising Medical Solutions

#### **Biopsychosocial model of mental health**



Source: Adapted from https://www.physio-pedia.com/Biopsychosocial\_Model

### Psychosocial responses affect all stages of recovery



## **Pre-existing Factors**

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#### **Prevalence of mental health conditions**



# 24.8 %

of general population with mental health condition

5.8%

with severe mental health condition

Source: Bagalman & Cornell. Congressional Research Service (CRS) Report to Congress November 2016

### **Psychosocial impact in catastrophic injuries**

- SCI: 52% of SCI-injured people are high school graduates at the time of injury, 11% have college education or higher. 51% are single.<sup>1</sup>
- **TBI:** Up to two-thirds of people with TBI have a history of alcohol abuse or risky drinking. Between 30-50% of people with TBI were injured while they were drunk and about one-third were under the influence of other drugs.<sup>2</sup>
- Severe Burns: It is estimated that one-third of burn patients suffer from physical or psychiatric disorders or alcohol addiction before the injury.<sup>3</sup>
- Amputation: Unmarried (single) amputation patients and patients who had no social support have high levels of anxiety and depression.<sup>4</sup>
- **Multiple Trauma:** Depression 1 month post-injury is an important predictor of recovery.<sup>5</sup>

<sup>1. 2016</sup> SCI Data Sheet; National spinal cord injury statistical center

<sup>2.</sup> https://msktc.org/tbi/factsheets/Alcohol-Use-After-Traumatic-Brain-Injury#fsmenu

<sup>3.</sup> Gilboa D. Long-term psychosocial adjustment after burn injury. Burns 2001; 27: 335-341.

<sup>4.</sup> Hawamdeh ZM, Othman YS, Ibrahim AI. Assessment of anxiety and depression after lower limb amputation in Jordanian patients. Neuropsychiatric Disease and treatment. 2008; 4(3): 627

<sup>5.</sup> The impact of psychological factors on recovery from injury: a multicentre cohort study Blerina Kellezi, C. Coupland, R. Morriss, K. Beckett, S. Joseph, J. Barnes, N. Christie, J. Sleney, and D. Kendrick

## Predictors of acute injury progressing to chronic pain



- ▶ Filing a WC claim<sup>1</sup>
- **Substantial pain disability**<sup>2</sup>
- Catastrophic behavior, high pain intensity<sup>1</sup>
- Litigation<sup>1</sup>
- Chronic opioid use

Compensation and chronic pain; Teasell RW., Journal; Clin J Pain. 2001 Dec;17(4, Suppl):S46-64
 Early Predictors of Chronic Work Disability, A Prospective, Population-Based Study of Workers, With Back Injuries

#### Impact of psychosocial risk factors on catastrophic cases

- Increase medical costs
- Increase 1-year hospital readmission rate
- Decrease return-to-work rates
- The effect increases with the number of risk factors

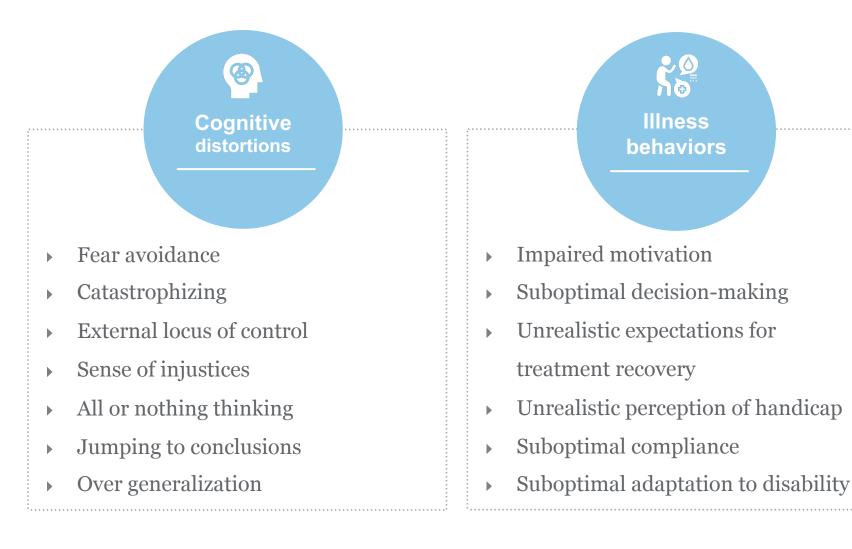
	Medical cost	1-yr readmission rate	Return to work	
1 PSB	10%	0%	-1%	
2-3 PSB	20%	21%	-8%	
4-5 PSB	48%	36%	-29%	
6+ PSB	58%	50%	-40%	

Source: Paradigm

## How Do Psychosocial Issues Delay Recovery?

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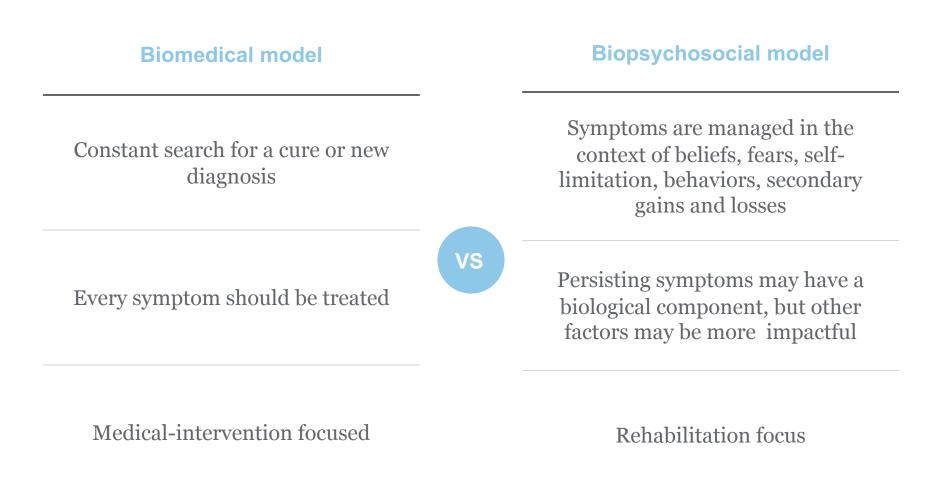
#### **Beliefs and behaviors**



Illness

**behaviors** 

## If you only have a hammer, everything is a nail

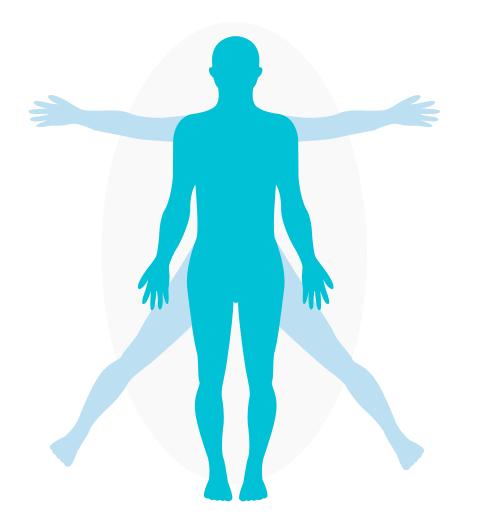


## How to Approach Catastrophic Injury in a More Effective, Holistic Way

What are the resources and how can you use them?



## Treating the whole person



#### High medical complexity

Alteration of body

**Change in lifestyle** 

### An array of possible interventions

#### **Medications**

#### **Diet and exercise**

#### **Psychoeducation**

- CBT
- Neuropsychology
- Mindfulness-based stress reduction

#### Trauma-informed psychotherapy

- Somatic experiencing
- Sensorimotor therapy
- ► EMDR

#### Integrative

- Biofeedback
- Mindfulness
- Meditation
- Hypnosis
- Neuro feedback
- Yoga
- Tai Chi
- Acupuncture

#### **Physical modalities**

- Craniosacral PT
- McKenzie PT
- Feldenkrais PT
- Graded motor imagery
- Mirror box

## Mr. P's story

#### **Case summary**

#### Interventions

- 54 year old male taxi driver s/p MVA 2/2018
- Pre-injury history of tenuous living situation, poor diabetes control, obesity, alcohol abuse, poly substance abuse
- Medical complexity: left wrist fracture, bilateral femur fractures, left open tib/fib and severe crushed ankle fractures, as well as right closed tib/fib fracture, Osteomyelitis, CRPS
- Alteration in body: required left AKA, phantom limb pain, worsened obesity, chronic pain
- Alteration in lifestyle: living in SNF, homeless, no social supports, not open to making changes

- Inpatient opioid detoxification
- Mirror box therapy for phantom limb pain
- Diabetic control
- Weight management
- Prosthetics expertise
- Collaboration on long-term living supports

### Mr. A's story

#### **Case summary**

- 23 year-old pool maintenance employee;
  chlorine explosion with multiple burns
  5/2015; prior poly-substance abuse
- Medical complexity: 27% burns, 25% full thickness: facial burns, hand and arm contractures; 10 surgeries
- Alteration in body: altered dexterity but eventually independent
- Alteration in lifestyle: major issues with illegal substances, problematic family dynamics, PTSD

#### Interventions

- ► CBT/PTSD
- Health and behavior codes
- Opioid weaning
- Involve family when needed
- Establish clear goals, monitor and intervene
- Knowledgeable providers for injury diagnosis
- Education

### Mr. L's story

#### **Case summary**

- 32 year old man who worked as an acrobat had a fall off a trampoline in July 2016; pre-injury poly-substance abuse
- Medical complexity: Right wrist fracture, ORIF, osteomyelitis, chronic pain, below elbow amputation
- Alteration in body: amputation, CRPS, depression, opioid use disorder
- Alteration in lifestyle: lack of social supports, family issues regarding drugs

#### Interventions

- Inpatient detox/functional restoration program
- Residential placement in sober living
- Vocational exploration/job coach
- Appropriate prosthetics for ADL and vocational pursuits

### Ways to use biopsychosocial approach

Humanize communication Assist with process **Clarify expectations** Harmonize contradictory messages Be a liaison with non-compensable services Use UR and Independent Medical Exams judiciously Incorporate whole injured worker into return-to-work plan and workplace

Source: Dr. Renée-Louise Franche, University of British Columbia, Simon Fraser University, Institute for Work & Health

integration

#### **Resources for caring for the whole person**

 Psychological Factors in Delayed and Failed Recovery and Unnecessary Disability, Parts I & II, AMA Guides Newsletter May/June 2019 & July/August 2019

- American College of Occupational and Environmental Medicine Occupational Medicine Practice Guidelines
- Official Disability Guidelines (ODG)

For specific guidelines, see <u>Cognitive therapy for amputation</u>; <u>Cognitive therapy for depression</u>; <u>Cognitive therapy for opioid dependence</u>; <u>Cognitive therapy for panic disorder</u>; <u>Cognitive therapy for PTSD</u>; <u>Cognitive therapy for general stress</u>; <u>Cognitive behavioral stress management (CBSM) to reduce injury and illness</u>; <u>Dialectical behavior therapy</u>; <u>Exposure therapy (ET)</u>; <u>Eye movement desensitization & reprocessing (EMDR)</u>; <u>Hypnosis</u>; <u>Imagery rehearsal therapy (IRT)</u>; <u>Insomnia treatment</u>; <u>Mind/body interventions (for stress relief)</u>; <u>Psychodynamic psychotherapy</u>; <u>Psychological debriefing (for preventing post-traumatic stress disorder</u>); <u>Psychological evaluations</u>; <u>Psychological evaluations</u>, <u>IDDS & SCS (intrathecal drug delivery systems & spinal cord stimulators</u>); <u>Psychosocial /pharmacological treatments (for deliberate self-harm</u>); <u>Psychosocial adjunctive methods (for PTSD</u>); <u>Psychotherapy for MDD (major depressive disorder</u>); <u>PTSD psychotherapy interventions; Stress management, behavioral/cognitive (interventions); Telephone CBT (cognitive behavioral therapy); Computer-assisted cognitive therapy.</u>

## **Q&A and CCMC Credit**

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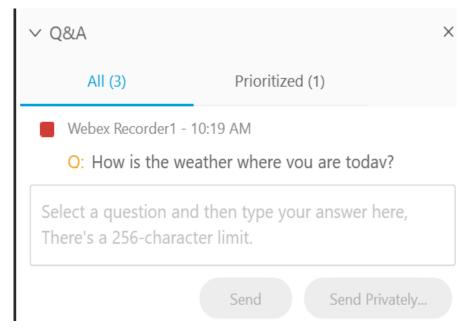
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Type a question into lower section of Q&A panel

Select "Ask All Panelists" and click Send

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## Thank you.

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