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# **BURDEN OF ILLNESS**

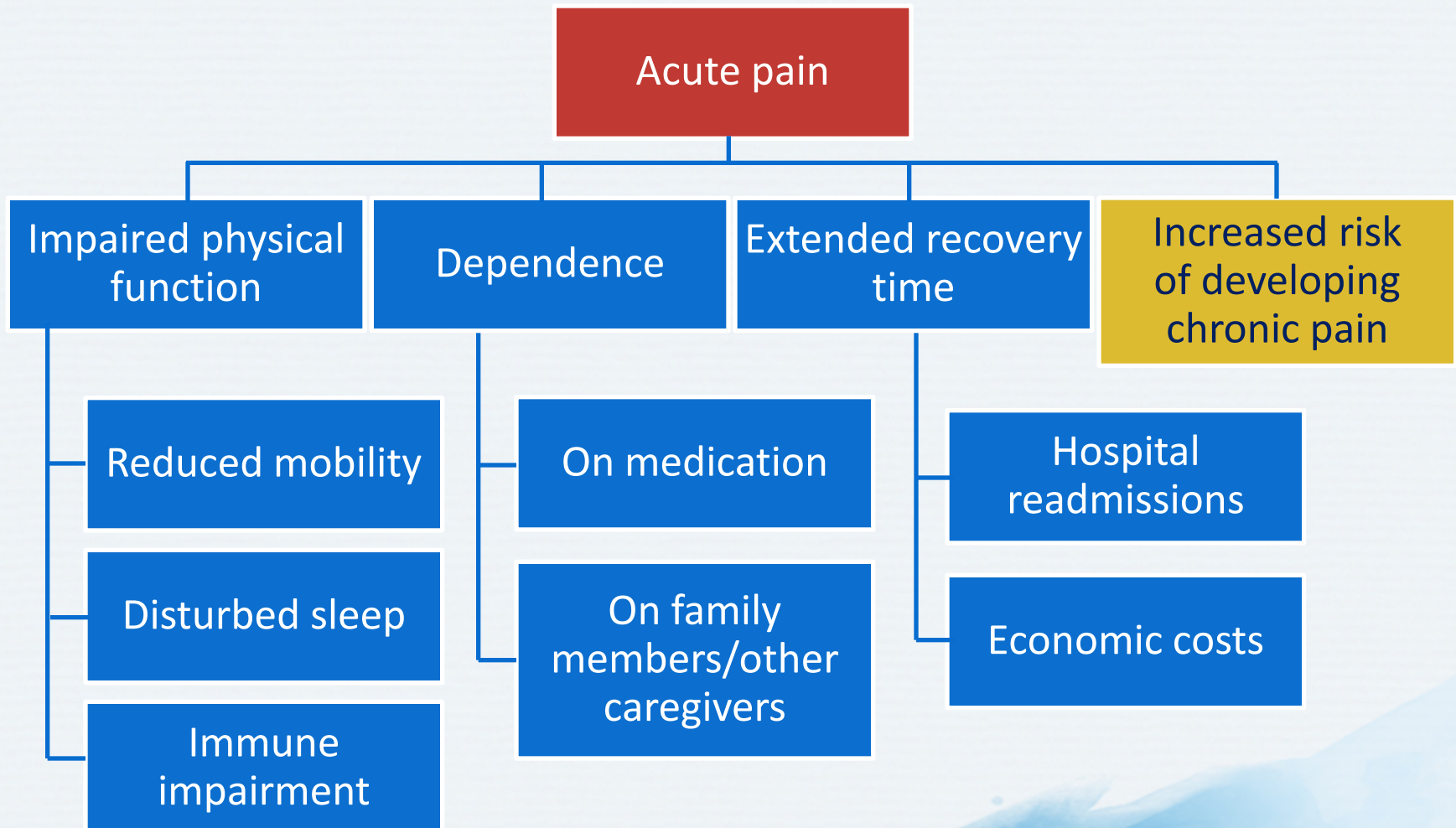
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# Overview

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# Consequences of Unrelieved Pain



# Is pain important to patients?

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- 59% of patients considered pain to be their most significant fear about surgery
- 8% had delayed an operation because of this



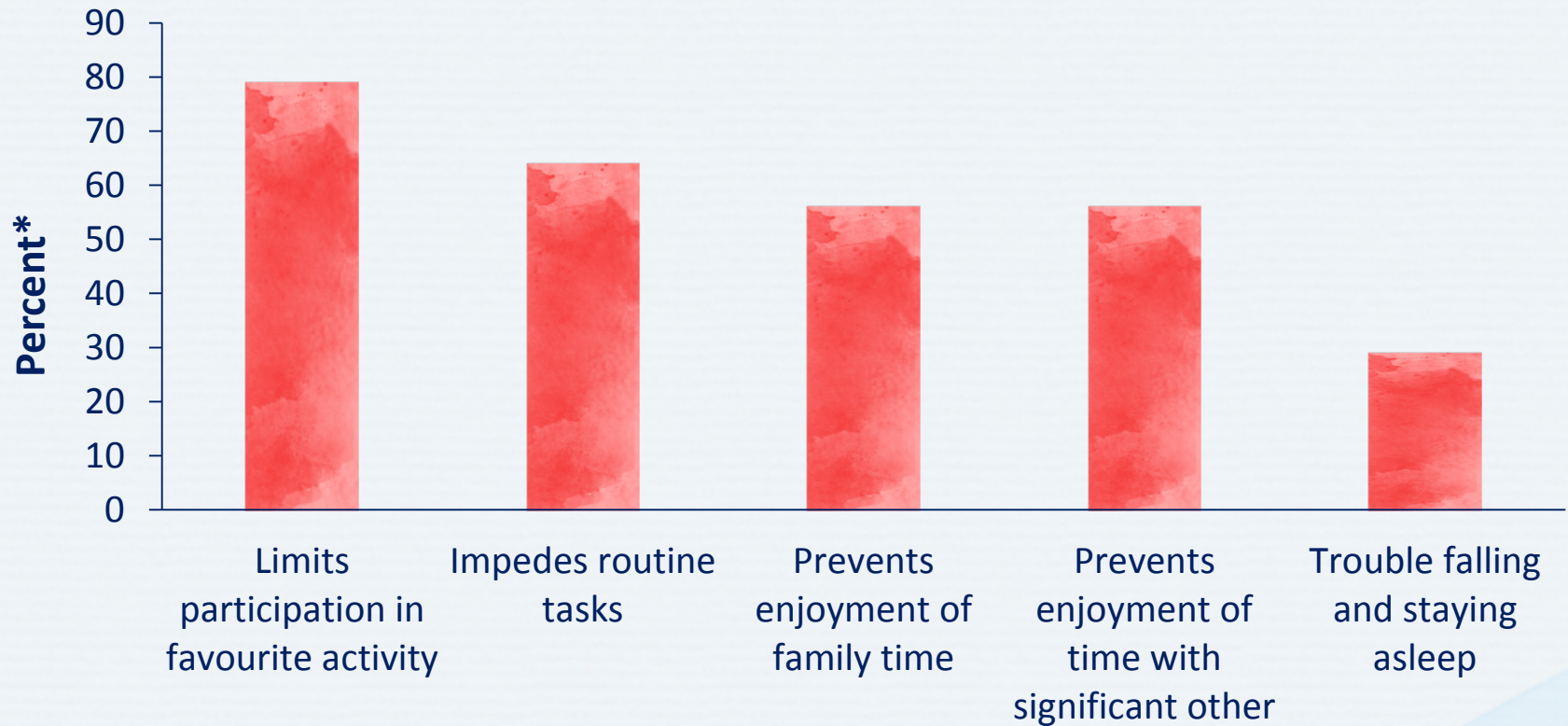
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# Physical Burden

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# Impact of Acute Pain on Daily Activities

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**\*Patients who responded "Sometimes", "Often" or "Always"**

Adapted from: McCarberg BH *et al. Am J Ther.* 2008; 15(4):312-20.

# Musculoskeletal Pain Frequently Associated with Disability

## Extent of Pain-Related Disability among Adults with Pain in the United States, 2009

Type of pain	Difficulty with basic actions* (%)	Complex activity limitation** (%)
Low back pain	51.6	55.0
Neck pain	30.2	34.4
Knee pain	37.3	38.6
Shoulder pain	17.7	21.4
Finger pain	14.3	16.3
Hip pain	15.0	18.4

\*Defined as having difficulties in one or more of the following areas: movement, emotional, seeing, hearing or cognition

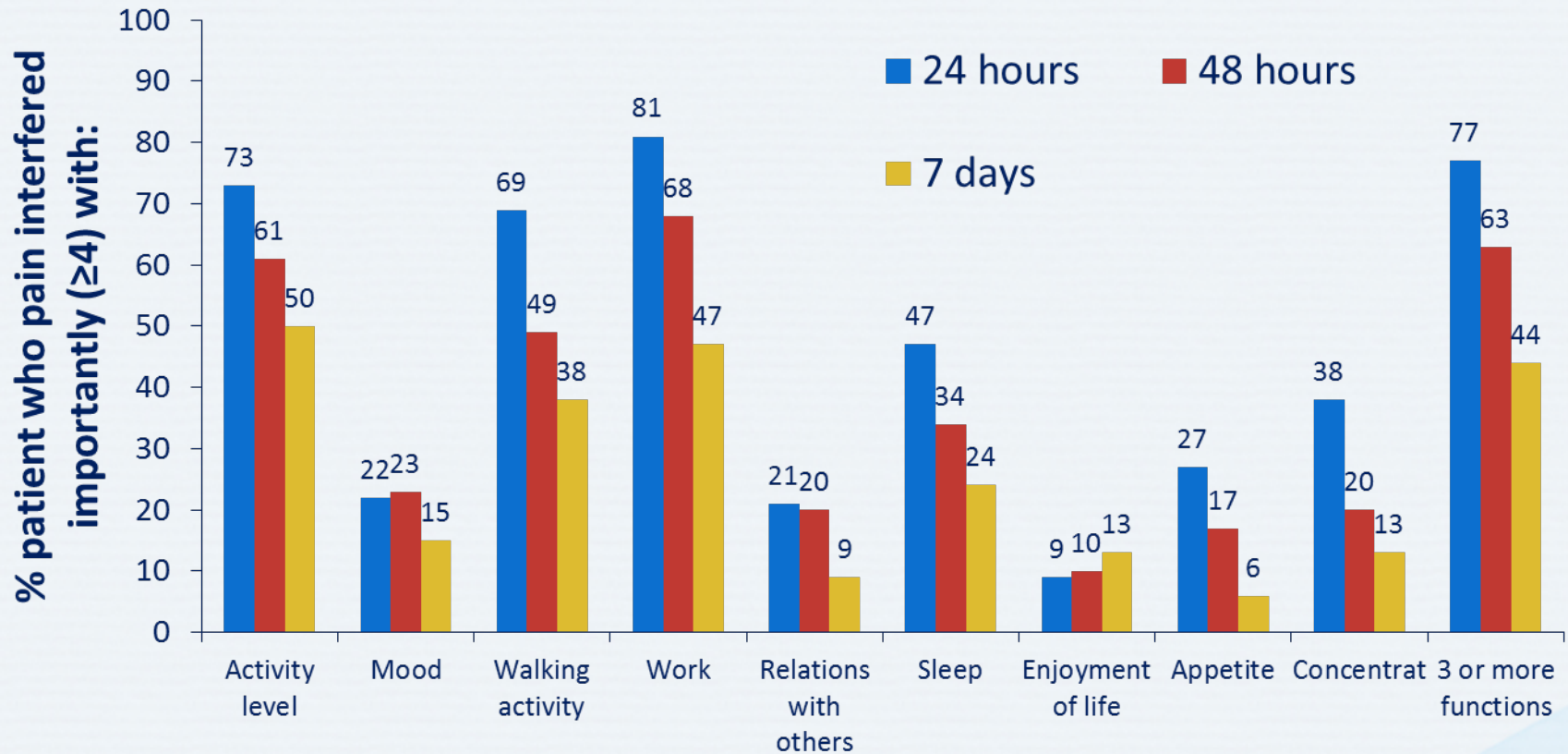
\*\*Defined as having limitations in one or more of the following areas: self-care, social or work

Institute of Medicine. *Relieving Pain in America: A Blueprint for Transforming Prevention, Care, Education, and Research*.

The National Academies Press; Washington, DC: 2011.



# Postsurgical Pain Interferes with Daily Functioning





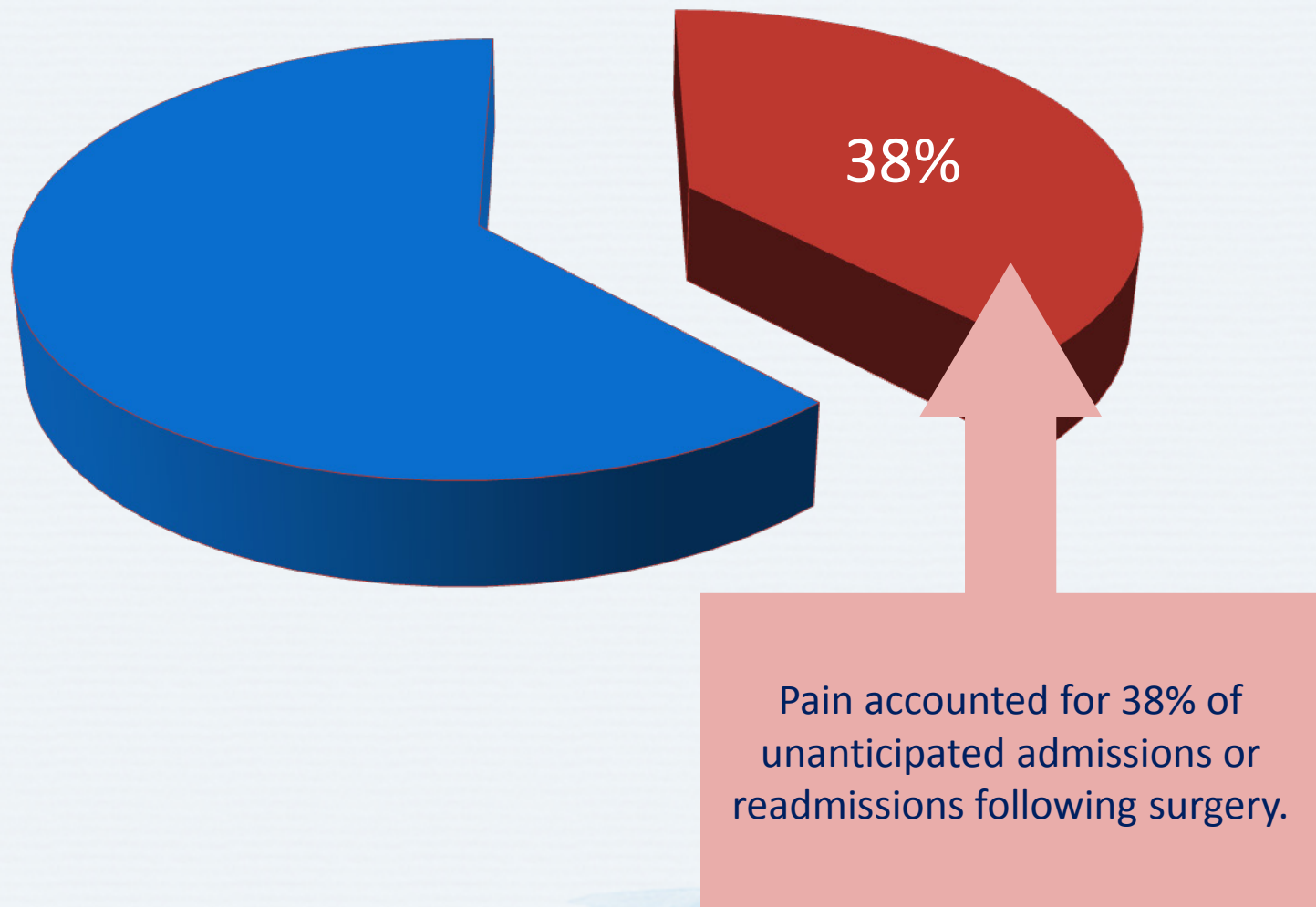
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# Economic Burden

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# Pain: Most Common Reason for Return to Hospital Post-surgery

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# Comorbidities

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# Greater Acute Pain Intensity May Be Associated with Post-traumatic Stress Disorder Symptoms

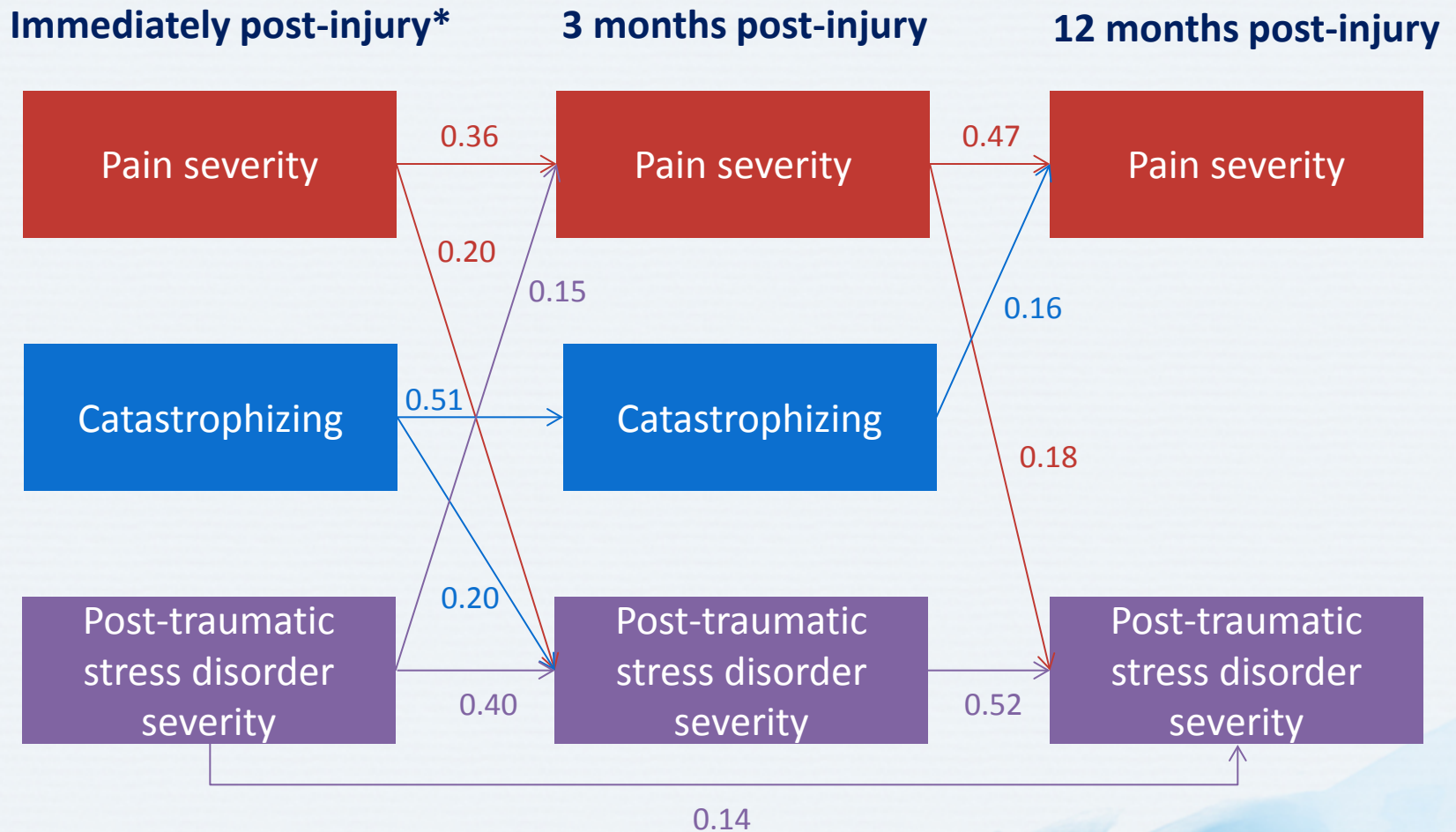
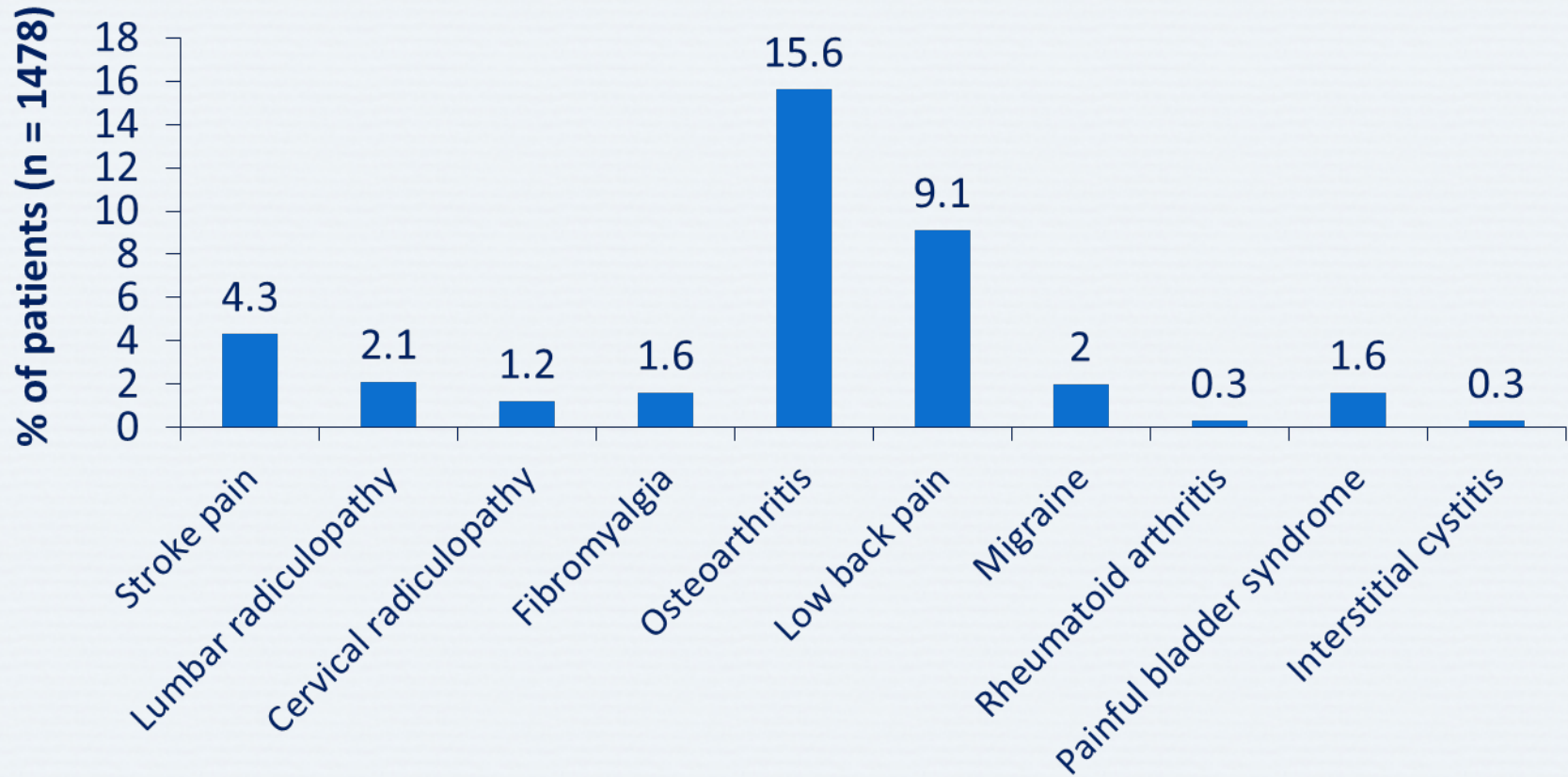


Figure displays standardized path coefficients between measures of post-traumatic stress disorder, catastrophizing and pain severity  
\*Mean = 6.1 days

Carty J et al. *Eur J Psychotraumatol* 2011; 2; McGee LI et al. *Burn Care Res* 2011; 32(1):46-51; Opsteegh L et al. *J Hand Surg Am* 2010; 35(6):961-7.

# Post-operative Pain and Other Pain Comorbidities

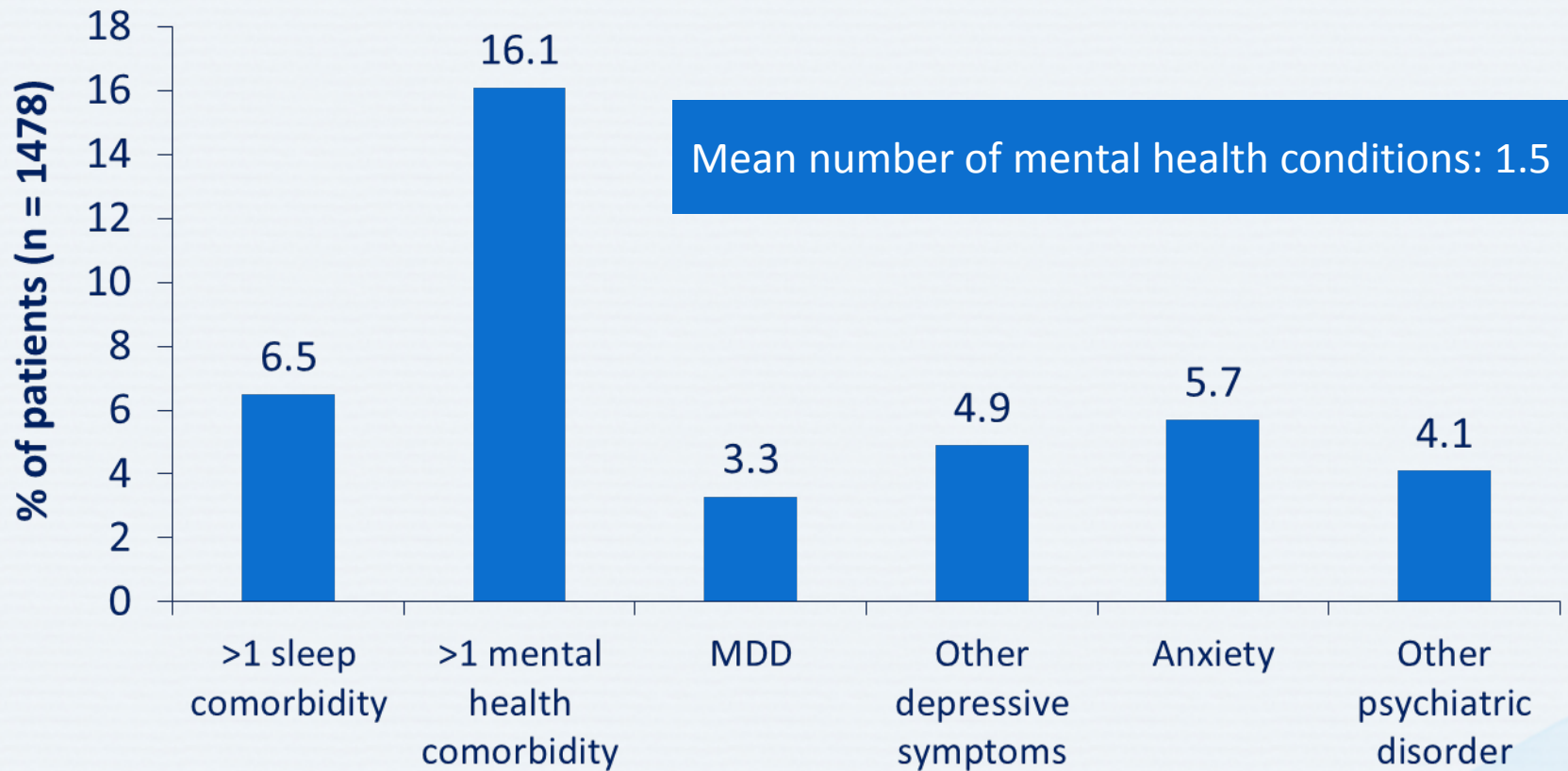


Mean number of pain conditions: 1.4

**Notes: infrequent comorbid conditions were omitted.**

Davis JA et al. *J Pain Res* 2011; 4:331-45.

# Post-operative Pain and Sleep and Mental Health Comorbidities



**MDD = major depressive disorder**

Davis JA et al. *J Pain Res* 2011; 4:331-45.

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# Summary

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# Burden of Illness of Acute Pain: Summary

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- Acute pain can interfere with daily functioning
  - Individuals suffering from acute pain have higher rates of absenteeism
  - Unrelieved pain can also lead to higher use of health care resources
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