Large Claims Deconstructed

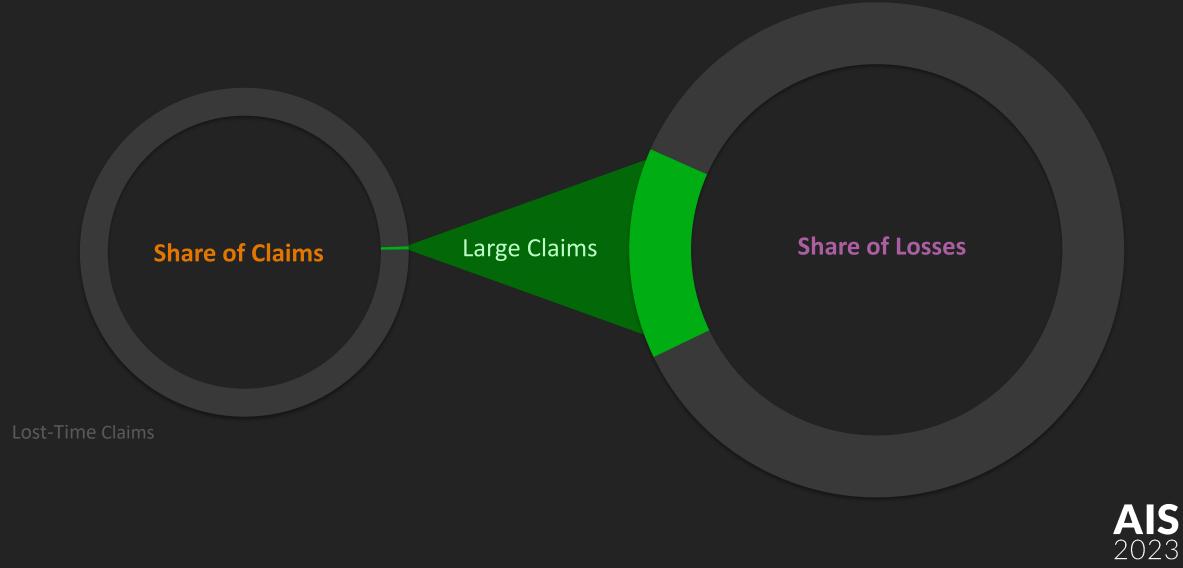
Raji Chadarevian

Executive Director—Actuarial Research NCCI

Anae Myers, ACAS, MAAA

Associate Actuary NCCI

A large claim is defined as exceeding \$1M in incurred loss

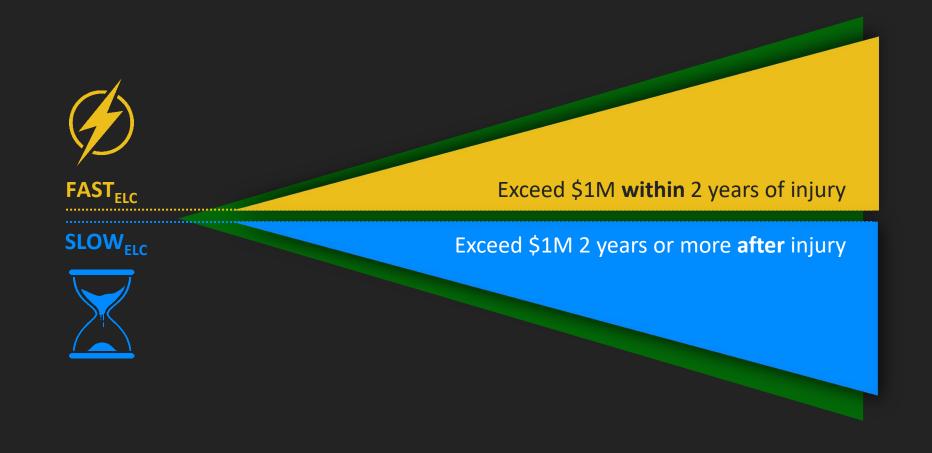


A large claim is defined as exceeding \$1M in incurred loss



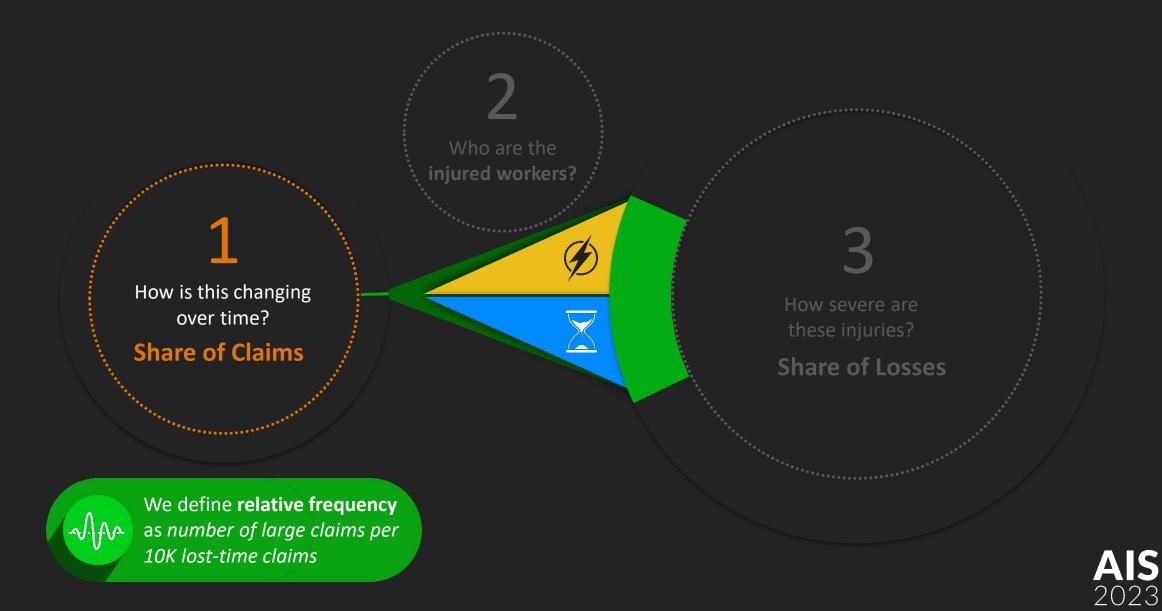


Deconstructing Large Claims

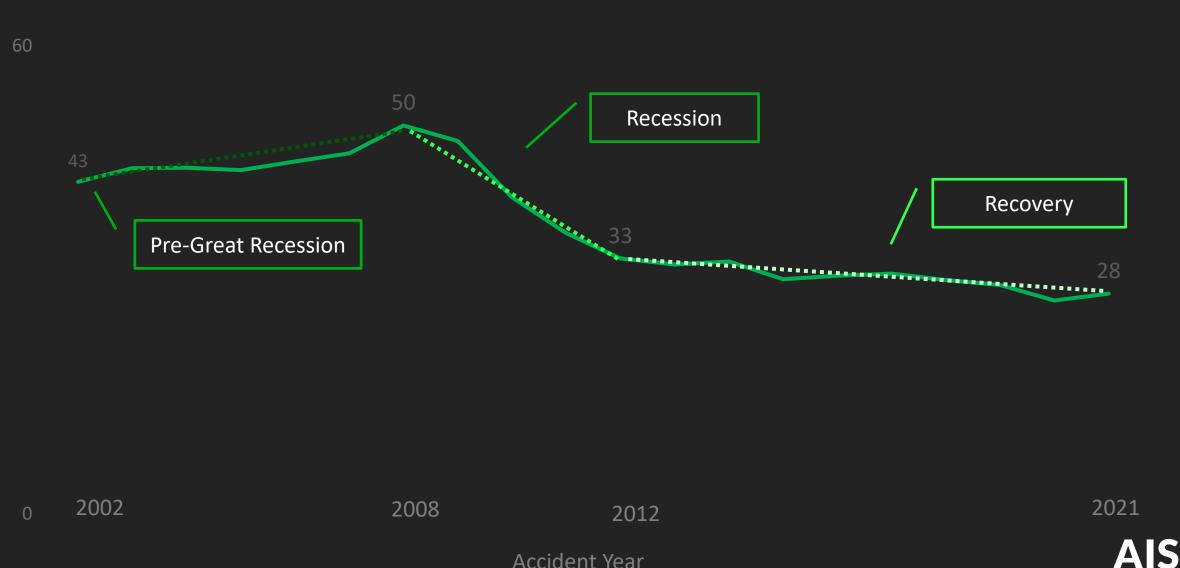




Deconstructing Large Claims



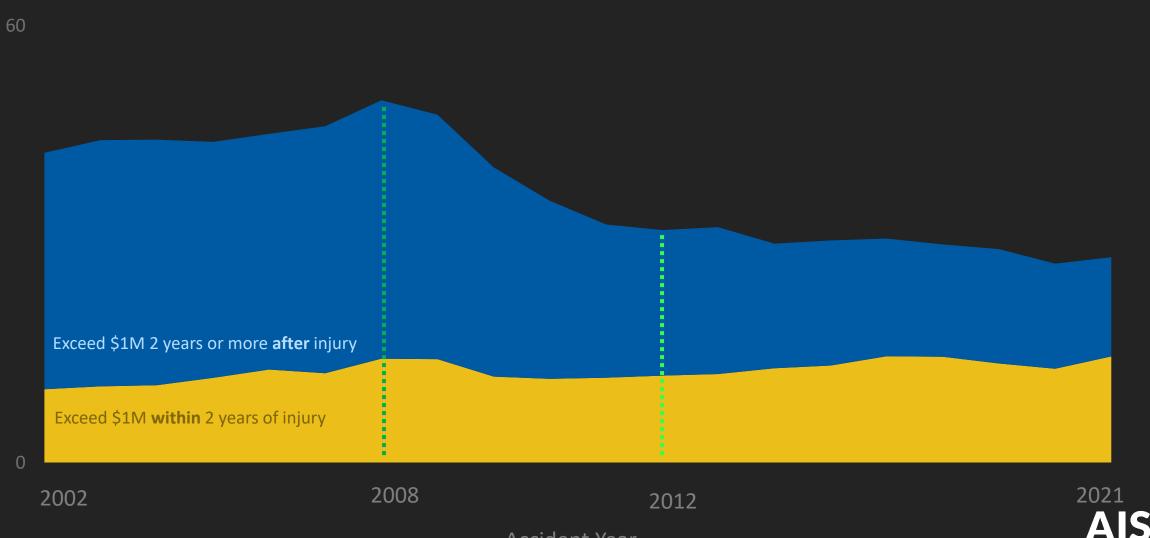
Frequency of Large Claims per 10K Lost-Time Claims



Accident Year

2023

Deconstructing Frequency into FAST_{ELC} and SLOW_{ELC}



Accident Year

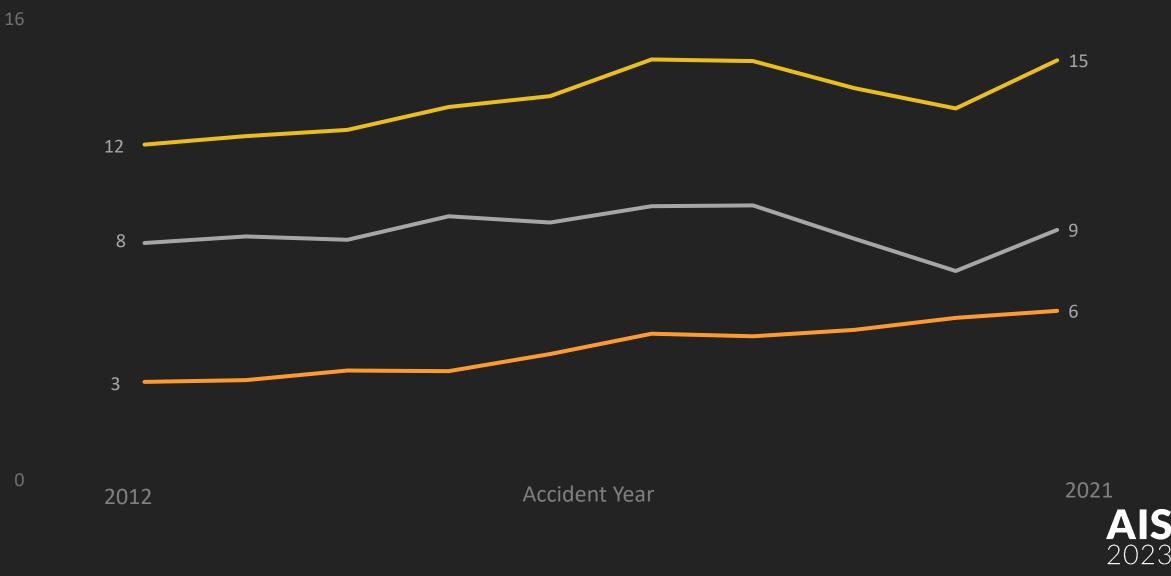
2023

Deconstructing Large Claim Frequency

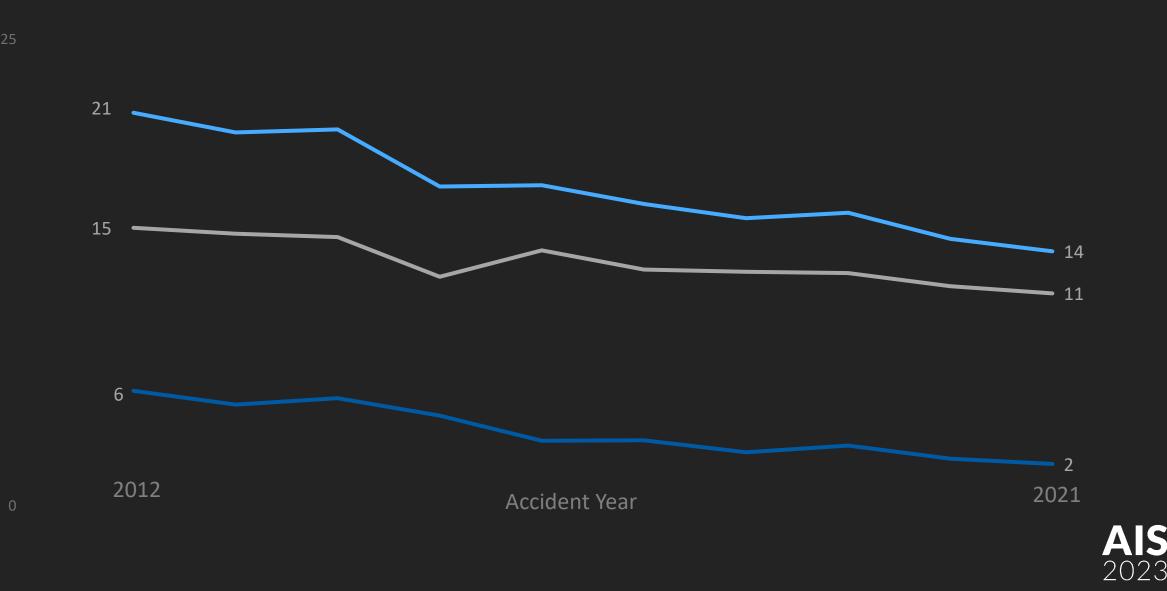




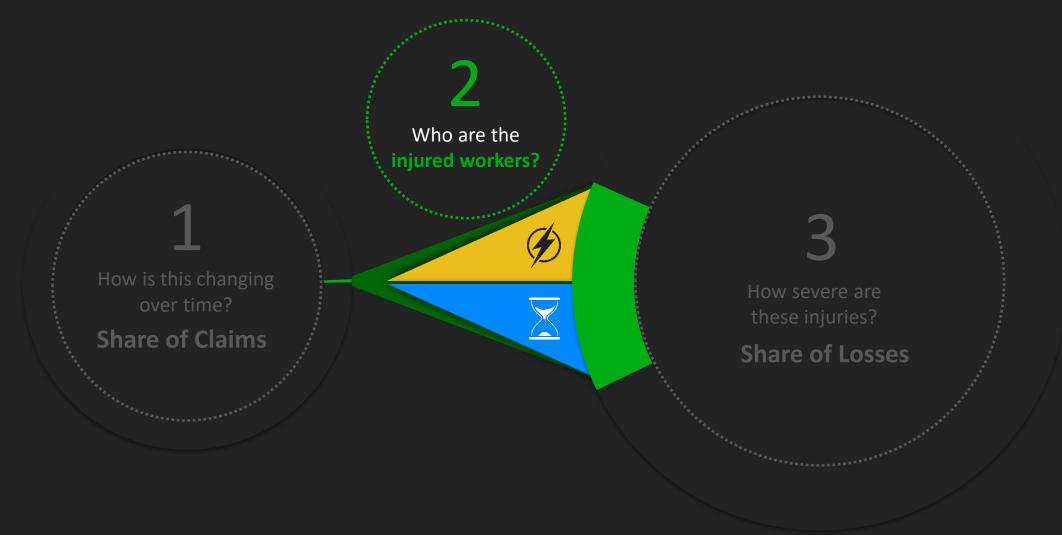
Deconstructing Frequency of FAST_{ELC} per 10K Lost-Time Claims Burns, Spinal Cord Injuries, and Traumatic Brain Injuries (B, SCI, TBI)



Deconstructing Frequency of SLOW_{ELC} per 10K Lost-Time Claims Degenerative Disc Disorders, Pain



Deconstructing Large Claims







CAUSE

Why are injuries resulting in large claims distinct?

Where do injured workers with large claims work?

When is the worker injured?

What are the claim outcomes?

EFFECT



Why are injuries resulting in large claims distinct? Top Causes and Injuries





Where do injured workers with large claims work? Industry Mix

Construction- Related	Operation of Motor Vehicles	Installation of Machines and Equipment
25–31% of FAST _{ELC} are construction-related	8-11%	4-5%
20–24% of SLOW _{ELC} are construction- related	8-10%	4-6%

Where do injured workers with large claims work? Industry Mix



Instructional and Medical Professionals



Clerical

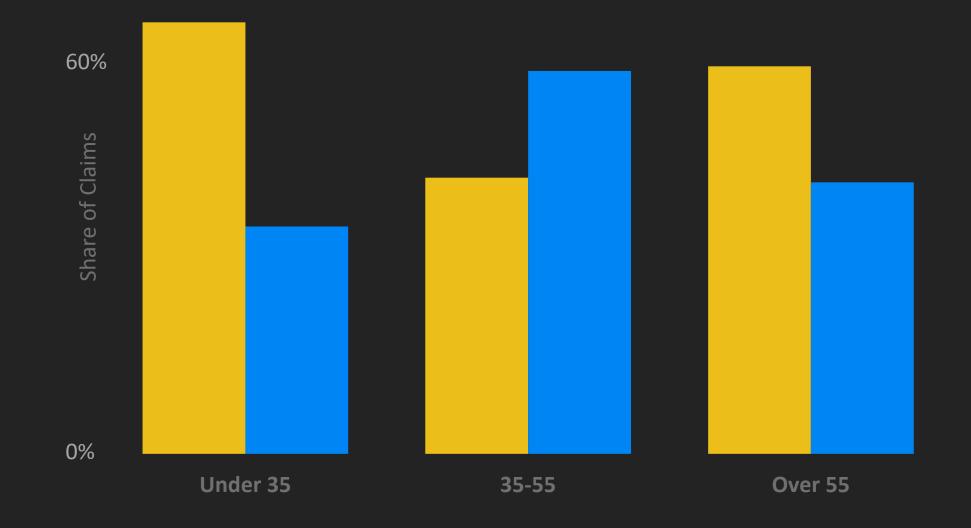
5-7%

4-6%





When is a worker with a large claim injured? Age at Injury for FAST_{ELC} and SLOW_{ELC}





What are outcomes for injured workers with large claims? Injury Type



How are these differences reflected in severity?



Over 75% of Slow ELC are classified as Other, which includes Permanent Partial Injuries

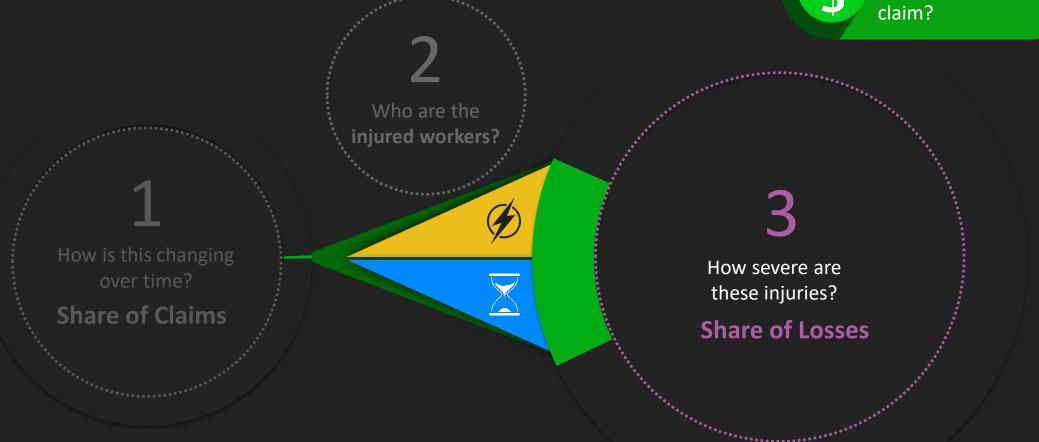




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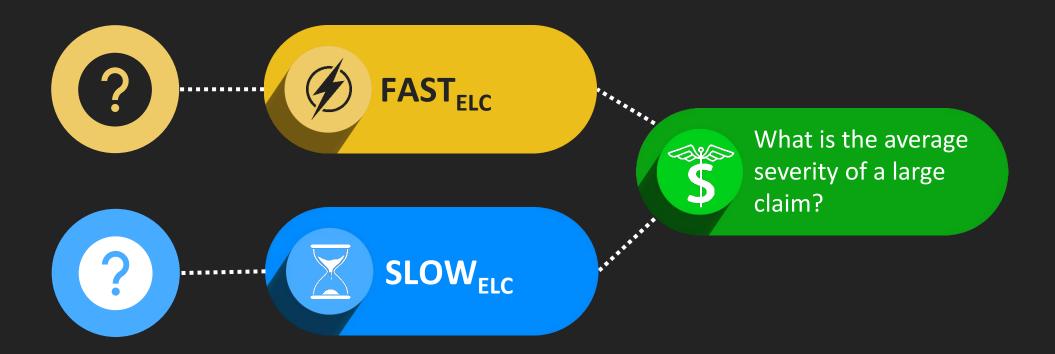
Deconstructing Large Claims

What is the average severity of a large claim?





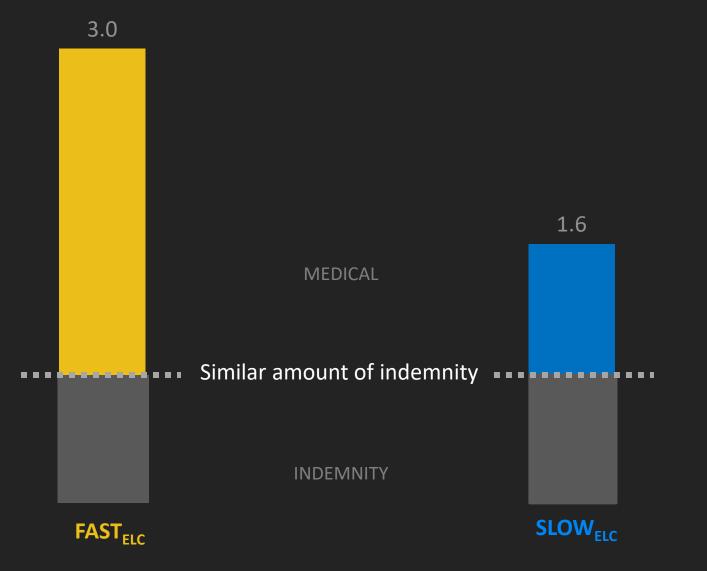
Deconstructing Large Claim Severity





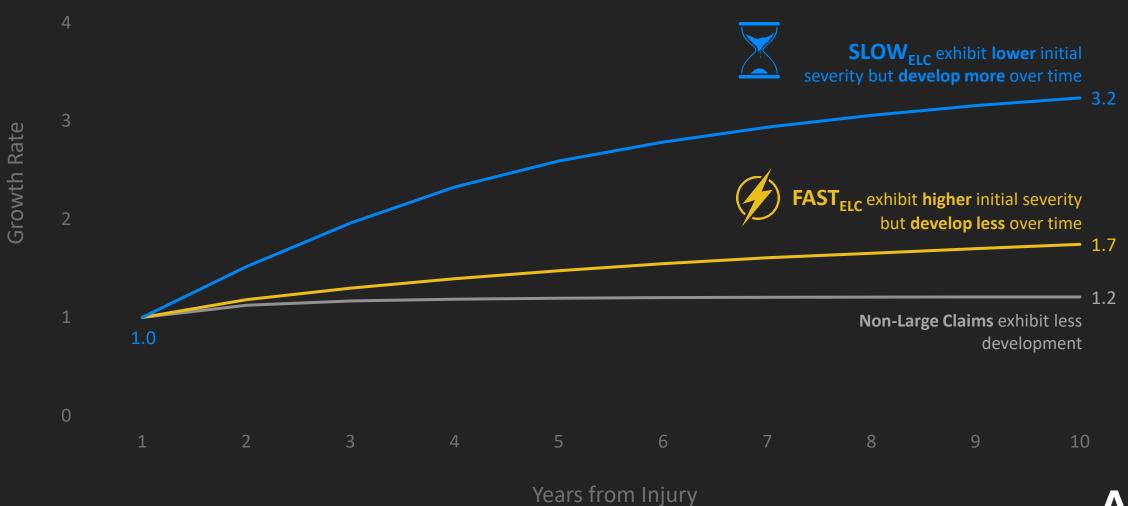
Deconstructing Large Claim Severity

Average Claim Cost (\$ in Millions)



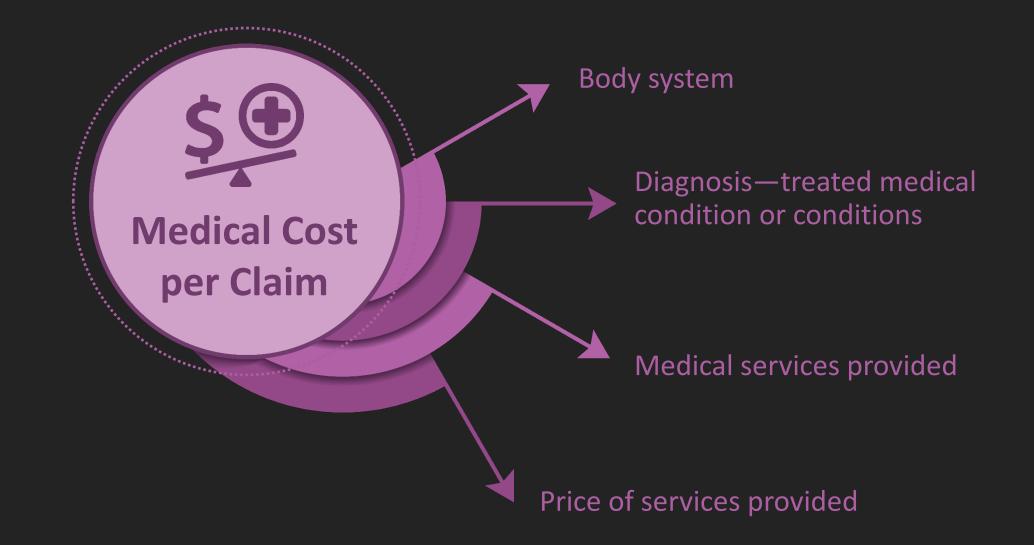


Deconstructing Medical Payment Loss Development

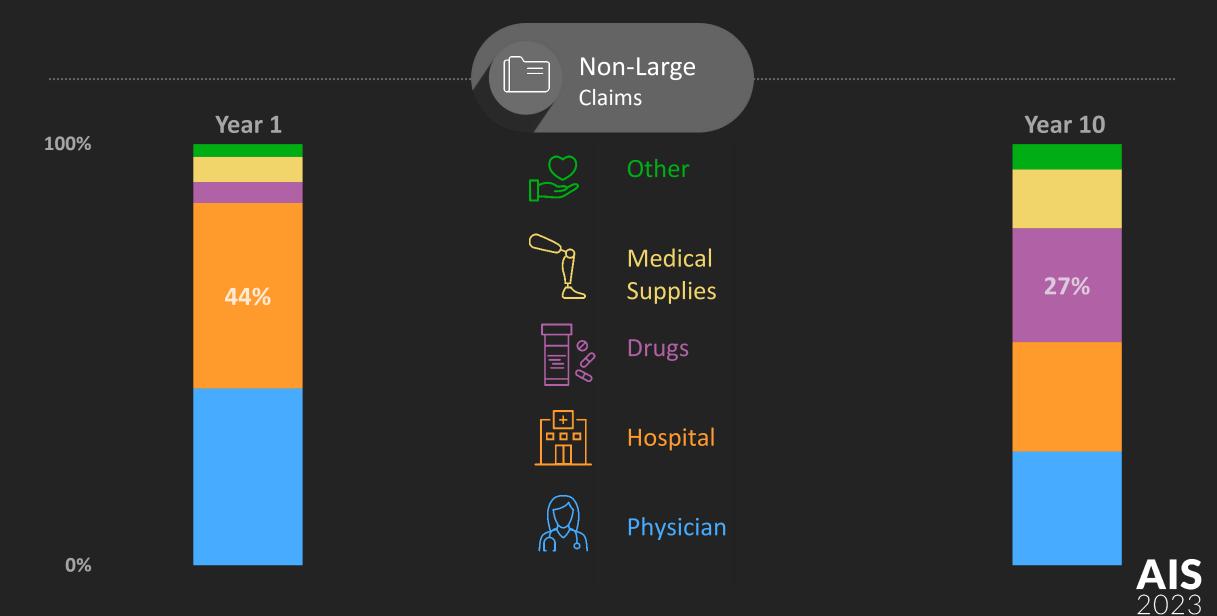


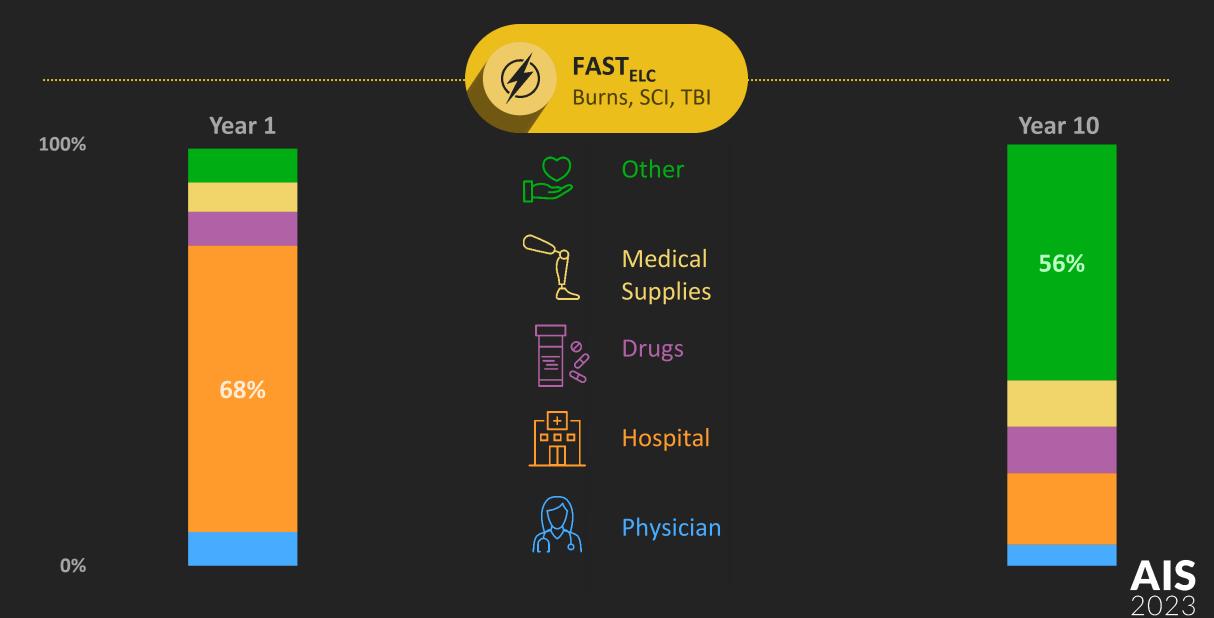


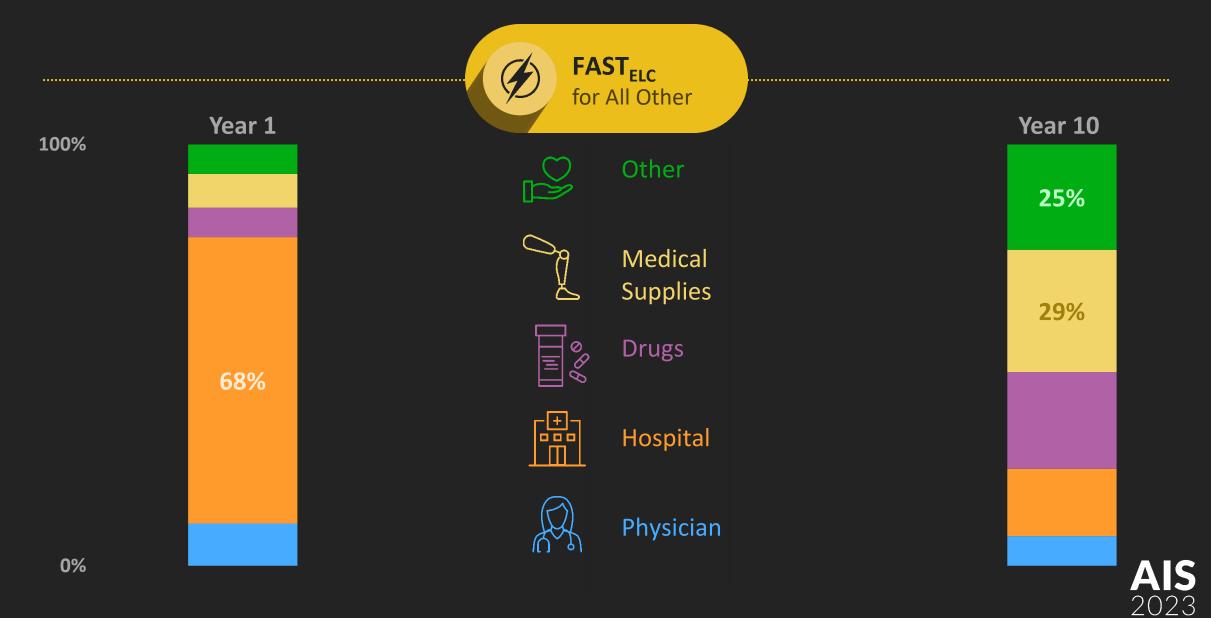
So what are the medical trends critical for severe injuries?









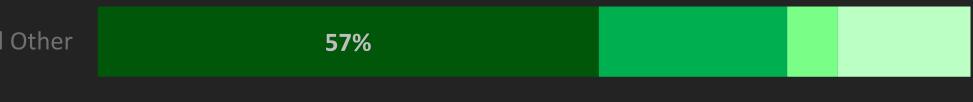








All	Other
	0 01101







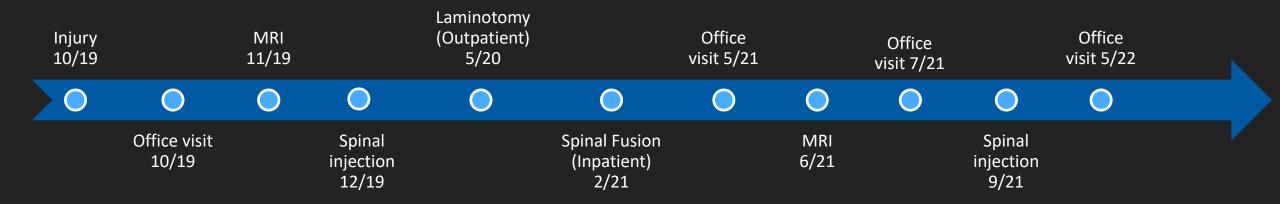
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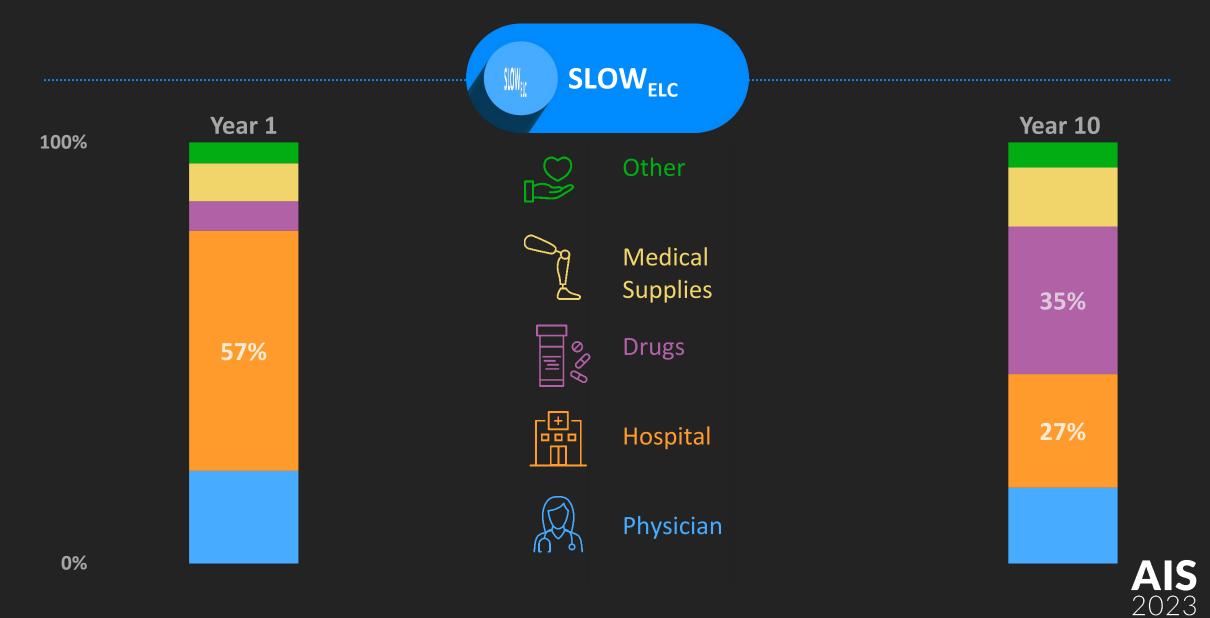
Injured Worker With a Low Back Strain

54-Year-Old Male Strain or Injury by: Repetitive Motion

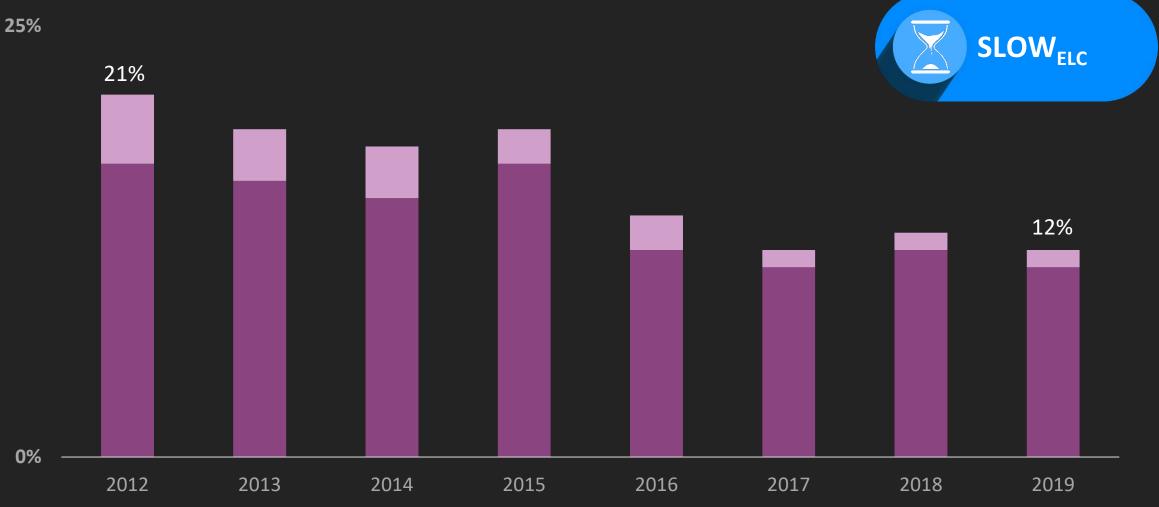








Both Non-Opioid and Opioid Share of Prescription Drugs Have Been Steadily Decreasing





And then there's medical inflation ...

We've seen the types of services, so how about prices?

Medical inflation steady

- PPI 3.0%
- CPI 2.8%

To what extent does inflation impact the cost of LARGE claims?



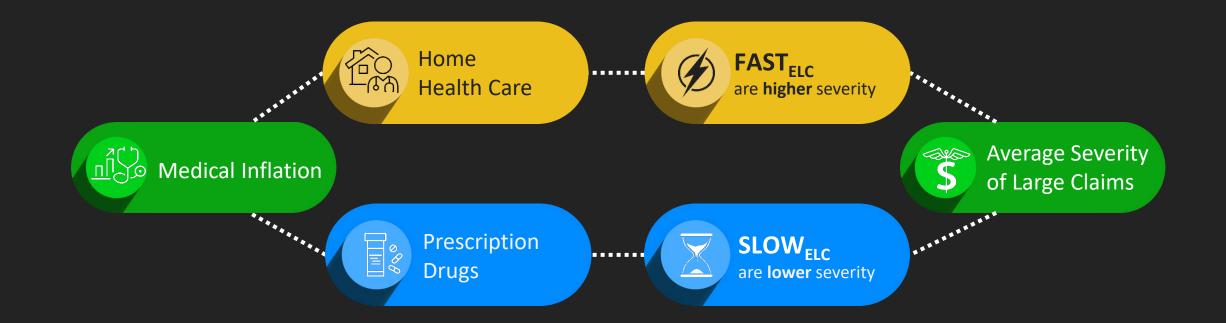


Yes, but that's not what we heard about the costs for large claims!

	Medical Service Category	Inflation Rate as of March	
A	Physician care	1.0%	
	Hospital <i>inpatient</i> care	3.5%	
	Hospital <i>outpatient</i> care	1.7%	
800 800	Prescription drugs	2.4%	
Ê,	Medical supplies	7.7%	Y, H OO
	Home health and hospice care	7.6%	
L ^{CU}	Nursing home care	5.7%	
₽ ₽	Transportation services	14.6%	

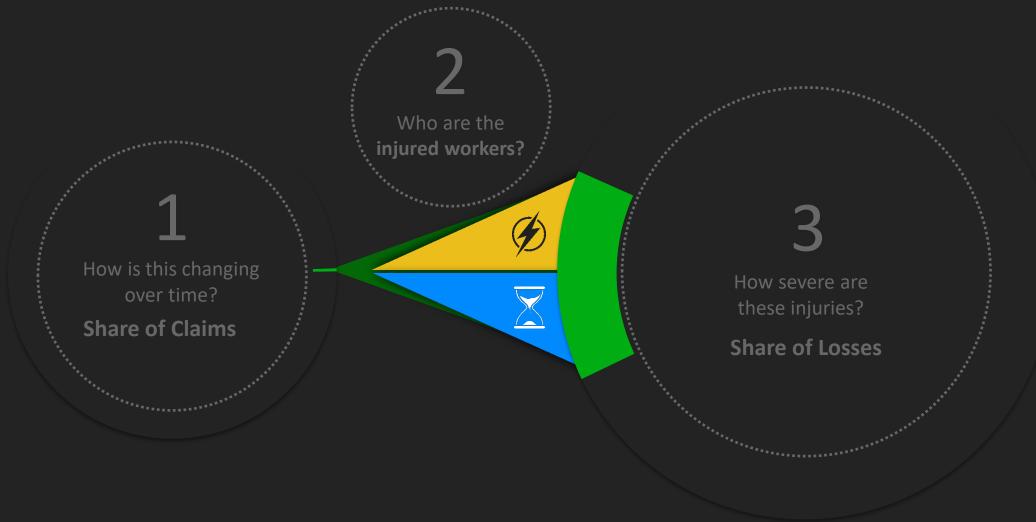


Reconstructing Large Claim Severity



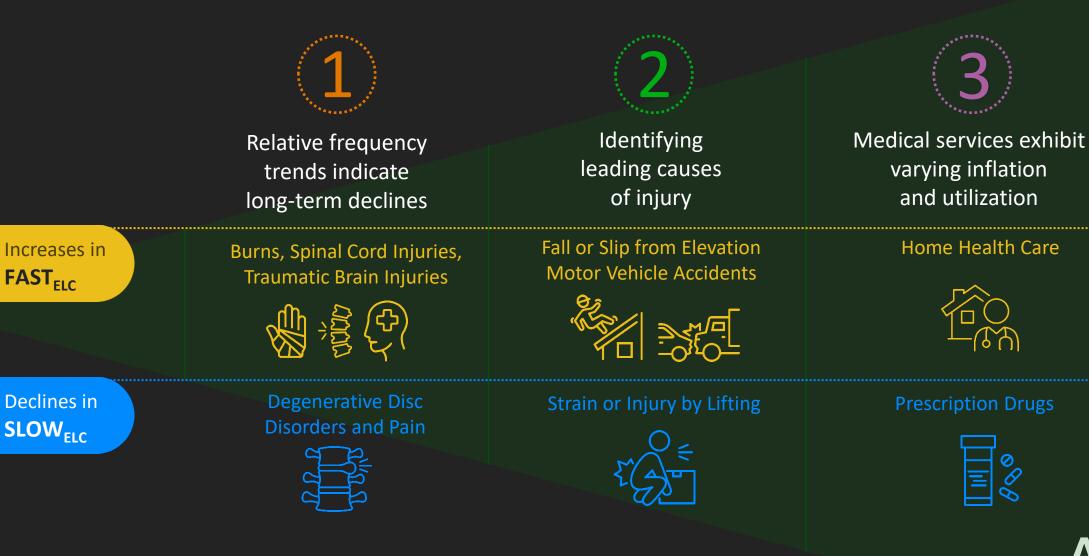


A large claim can be FAST or SLOW Emerging





Reconstructing Large Claims





Large claims Reconstructed

Relative frequency trends indicate long-term declines Identifying leading causes of injury

> Medical services exhibit varying inflation and utilization

3



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