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Will Pandemic Delays Harm Injured Workers and Raise Costs?



ER Fears



Clinics Closed



Surgeries Delayed

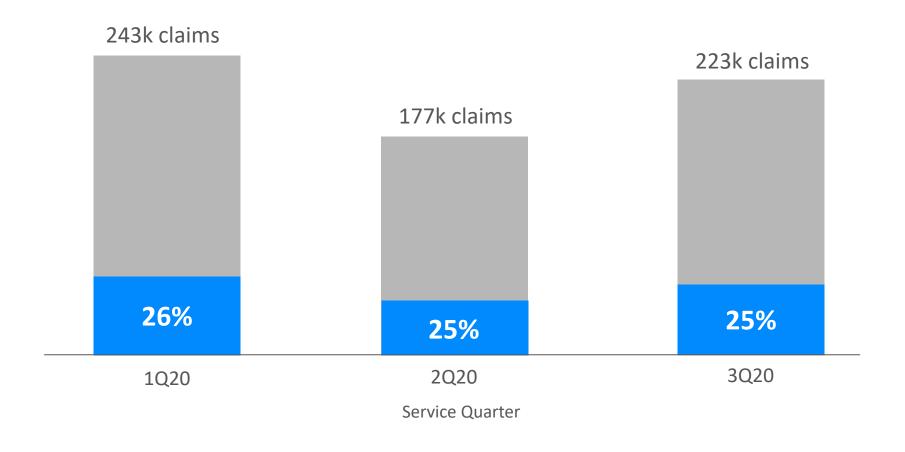


Increased Self-Treatment



ER Visit Share Remains Steady Despite Lower Volume

Share of Newly Active Claims With an Emergency Room Visit

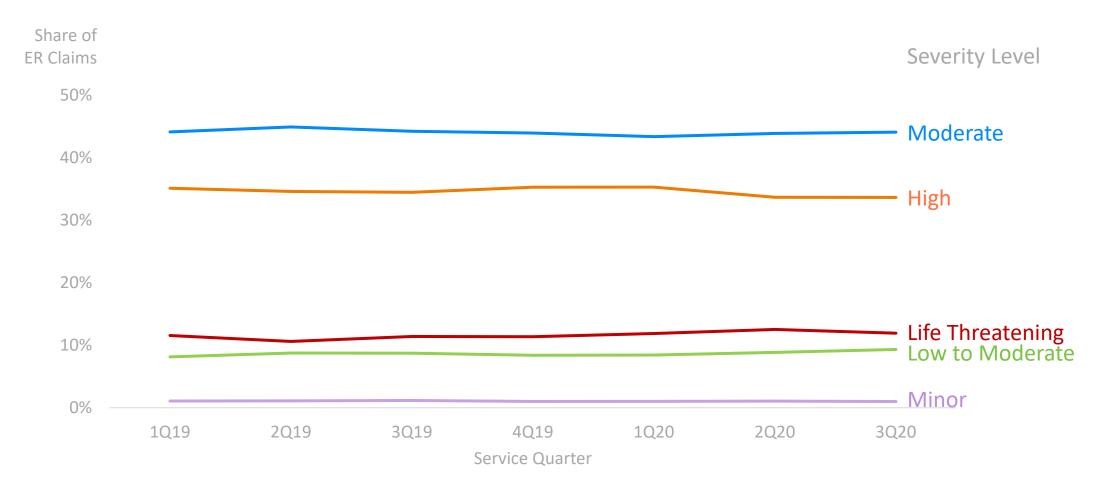




Newly active claims with at least one medical transaction in the same quarter the injury occurred Source: NCCI Medical Data Call for the following states: AK, AL, AR, AZ, CO, CT, DC, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, MD, ME, MI, MN, MO, MS, MT, NC, NE, NH, NJ, NM, NV, OK, OR, RI, SC, SD, TN, UT, VA, VT, WI, WV



ER Claim Mix Remains Steady



Newly active claims with at least one ER visit in the same quarter the injury occurred

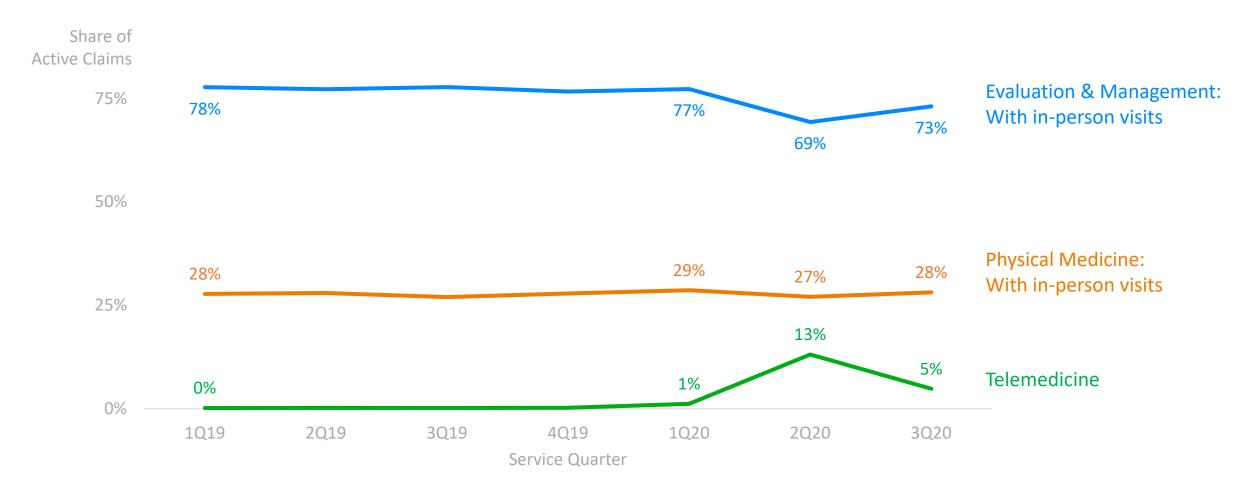
Severity Level based upon CPT codes 99281–99285; severity level is assigned based upon the most serious ER CPT code

CPT = Current Procedural Terminology, a trademark of the American Medical Association

Source: NCCI Medical Data Call for the following states: AK, AL, AR, AZ, CO, CT, DC, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, MD, ME, MI, MN, MO, MS, MT, NC, NE, NH, NJ, NM, NV, OK, OR, RI, SC, SD, TN, UT, VA, VT, WI, WV



Telemedicine Grew Dramatically



E&M and Physical Medicine: share of all active claims with at least one in-person visit

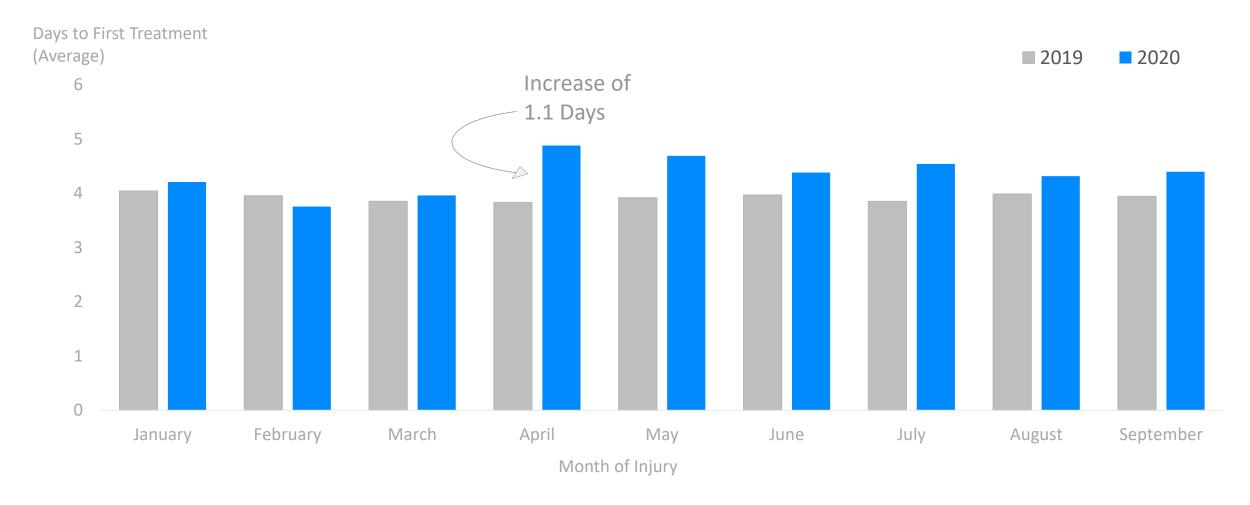
Telemedicine: share of all active claims with at least one E&M telehealth or one Physical Medicine telehealth session

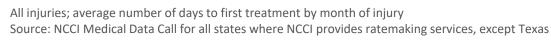
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Pandemic Increased Time to Treatment Slightly

All Injuries: Average Number of Days From Injury to First Treatment





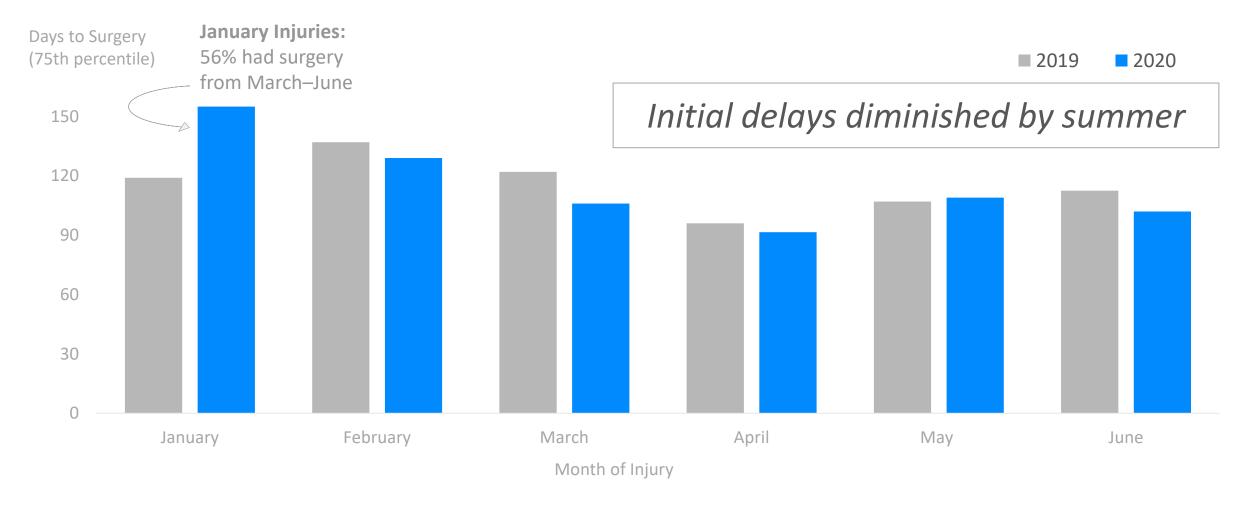


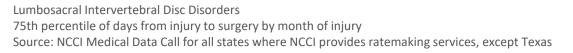
Time to Treatment: A Deeper Dive

- Cruciate Ligament Tears
- Lumbar Disc Herniation

Lumbar Disc Herniation: Delays in 2020

Days From Injury to Surgery







Time to Treatment

- Nuanced—More than access to care
 - Look beyond initial encounter
 - Do longer times to treatment impact injured workers' outcomes for the specific injury and treatment?
- Sooner is not always better
 - Most low back pain injuries resolve with conservative care

Delay has negative connotations

Longer time to treatment is not always bad



Injuries Where Longer Time to Surgery Not Impactful



Cruciate ligament tears



Grade 1 rotator cuff tears



Mild-to-moderate carpal tunnel syndrome

Longer time to surgery is not always associated with worse outcomes



Longer Time to Surgery May Be Associated With Better Outcomes

May postpone surgery to treat concurrent medical conditions



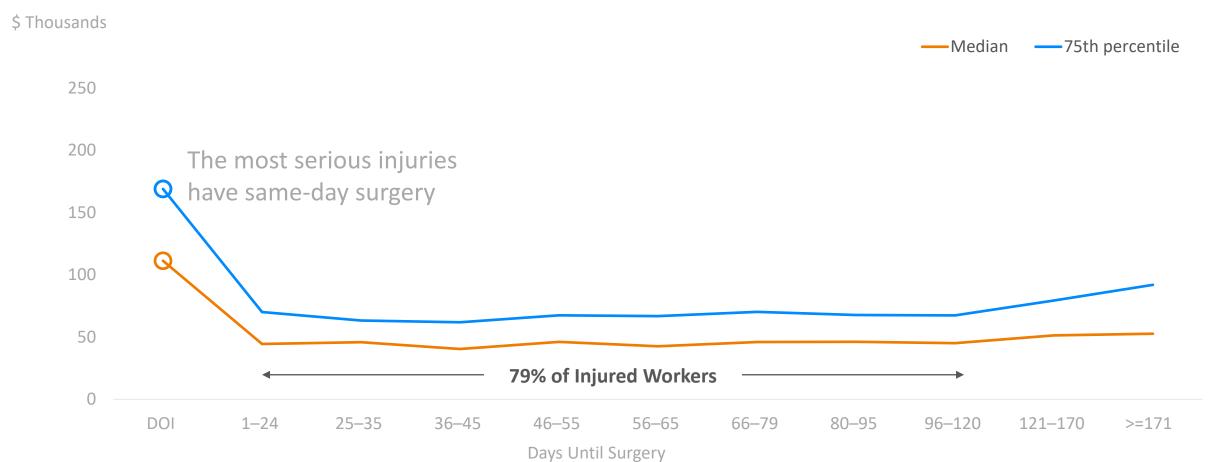
Uncontrolled hypertension







Cruciate Ligament Tear Total Cost Is Comparable for Surgeries Day 1 to Day 120 Increased Modestly Thereafter



Approximately 10% of claims in each interval beyond the date of injury (DOI)

Reported incurred indemnity + medical cost from date of injury to surgery; latest report for Accident Years 2014–2015

Source: NCCI Medical Data Call; NCCI *Statistical Plan* data for all states where NCCI provides ratemaking services, except Texas



Injuries Requiring Urgent Attention



Head Trauma/Concussion



Severe Fracture

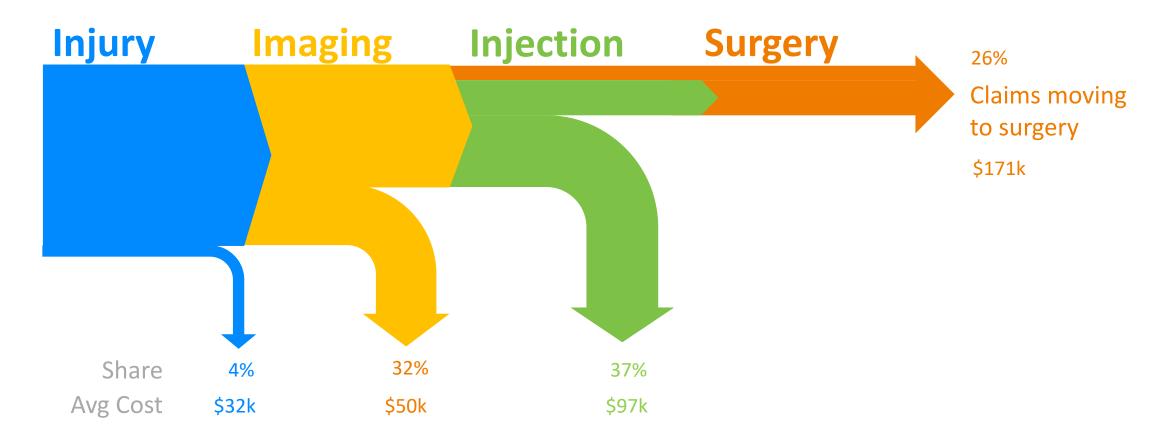




Lumbar Disc Herniation—more nuanced



Lumbar Disc Herniation Over 70% Resolved Without Surgery



Claims with a surgical procedure but no MRI were excluded from this analysis

Not represented here are 1% of claims that only receive an injection and no imaging or surgical services

Average reported incurred indemnity + medical cost; latest report for Accident Years 2016–2018

Source: NCCI Medical Data Call; NCCI Statistical Plan data for all states where NCCI provides ratemaking services, except Texas



Lumbar Disc Herniation Only 40% of Surgeries Occur From Day 1 to Day 120 Cost Increased Considerably Thereafter

\$ Thousands —Median —75th percentile 250 The most serious injuries have same-day surgery 200 Correlation 150 is not 100 causation 50 40% of injured workers → DOI 1 - 45>=338 46-70 71-96 97 - 120121-148 149-180 181-218 219-265 266 - 337Days Until Surgery

Approximately 10% of claims in each interval beyond the date of injury (DOI)

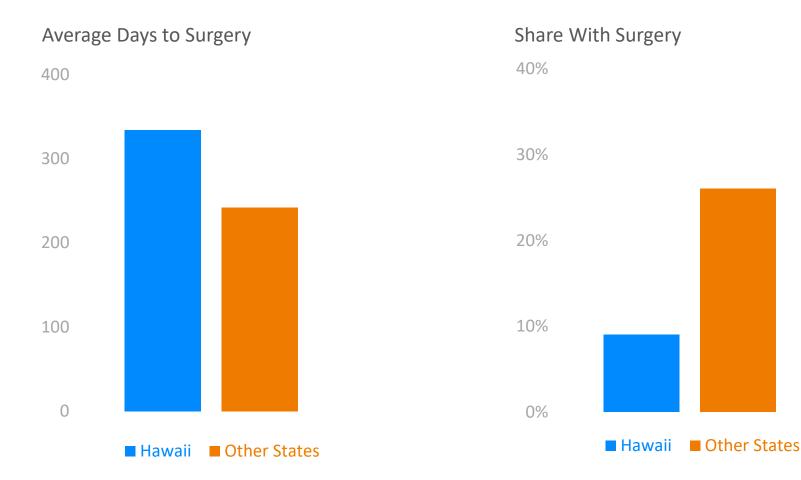
Reported incurred indemnity + medical cost from date of injury to surgery; latest report for Accident Years 2014–2015

Source: NCCI Medical Data Call; NCCI *Statistical Plan* data for all states where NCCI provides ratemaking services, except Texas



Longer Conservative Treatment Time May Be Associated With Lower Surgery Rates for Some Injuries

Lumbar Disc Herniation Injuries in Hawaii Compared to Other States



AIS /

Both differences are statistically significant at 1% Accident Years 2016–2018

Source: NCCI Medical Data Call for all states where NCCI provides ratemaking services, except Texas

Key Findings—Time to Treatment

- COVID-19 had limited impact on time to treatment
- Longer time to invasive treatment may be appropriate for the specific injury

For 2020, overall cost impact uncertain



Why Is This Important?



For medical directors and claim adjusters Focus on injuries where time to treatment is impactful



Why Is This Important?



For assessing results

Longer period of conservative treatment can lead to better outcomes in some cases



Why Is This Important?



For injured workers and employers

As economy improves, more return-to-work opportunities

- Modified return-to-work opportunities may be available even if treatment is ongoing
- Expanded world of telecommuting presents even more modified returnto-work opportunities

