

Annual Insights Symposium 2024





Trends in Healthcare—Hospitals



General Healthcare:

1 in 4 hospitals closed in the past 20 years

"Cross-market, within-state hospital mergers yield price increases of 7%–9% for acquiring hospitals."

Sources: Hoag Levins, "Hospital Consolidation Continues to Boost Costs, Narrow Access, and Impact Care Quality: A Penn LDI Virtual Seminar Unpacks the Challenging Contradictions of This Continuing Trend," University of Pennsylvania Leonard Davis Institute of Health Economics, January 19, 2023

Dafny, L., Ho, K. and Lee, R.S. (2019), The price effects of cross-market mergers: theory and evidence from the hospital industry. The RAND Journal of Economics, 50: 286-325.

https://doi.org/10.1111/1756-2171.12270



Trends in Healthcare—Hospitals



General Healthcare:

14% fewer inpatient admissions

Workers Compensation:

30% fewer inpatient admissions



Trends in Healthcare—Opioids

General Healthcare



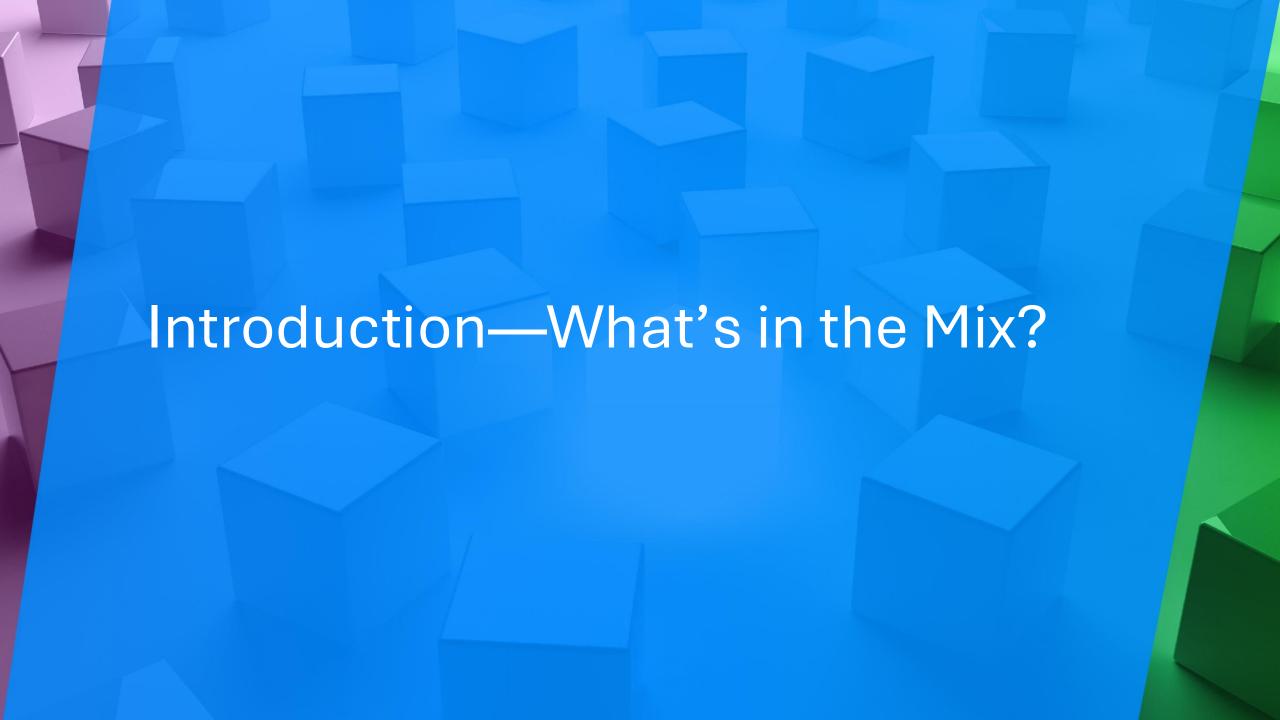
National opioid epidemic continues

Workers Compensation

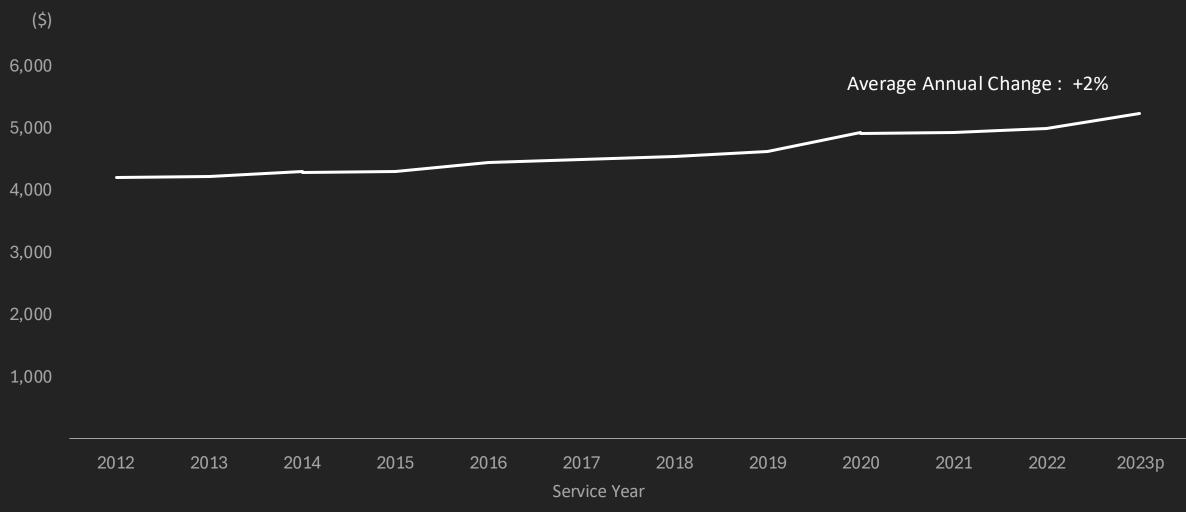


Significantly reduced opioid prescribing, contributing to 2.5% annual decrease in drug cost





Medical Paid Cost per Claim Trend

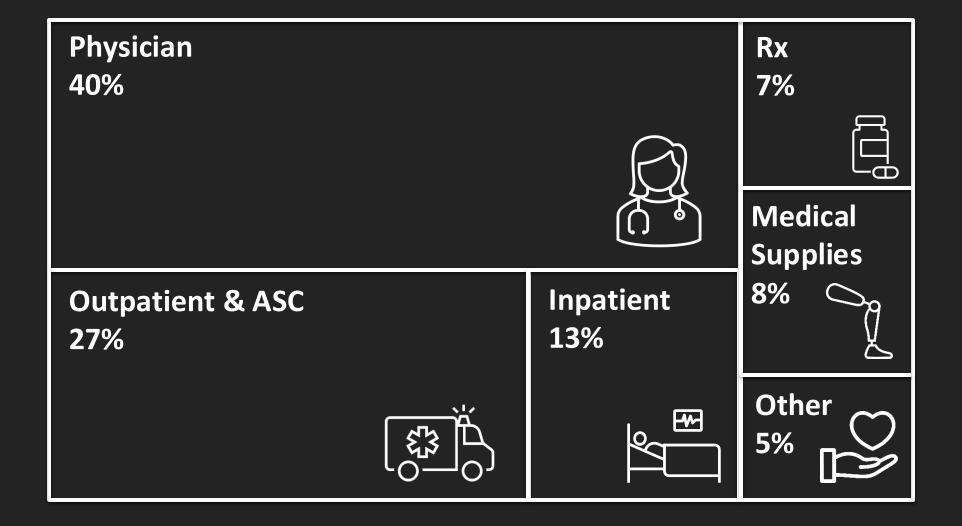


p Preliminary

Source: NCCI Medical Data Call

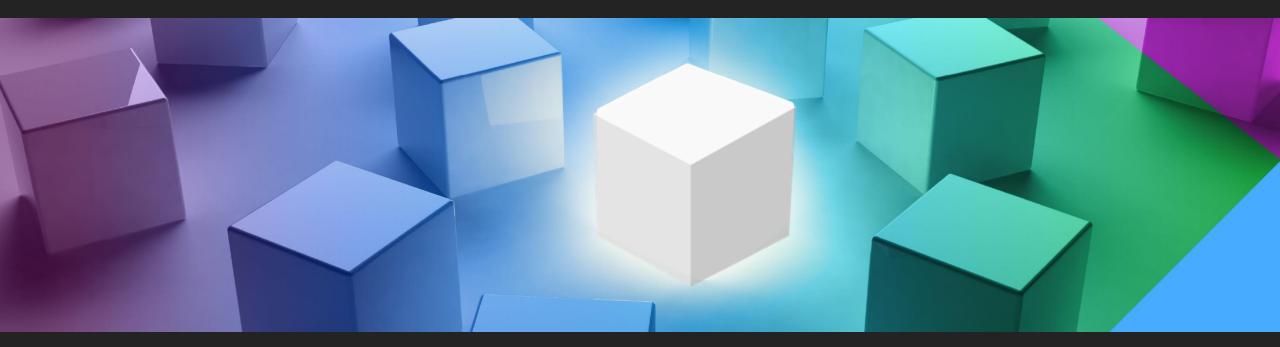


Medical Paid Cost Distribution—Service Year 2022





There is much more to the medical story in workers comp.



Introduction—What's in the Mix?

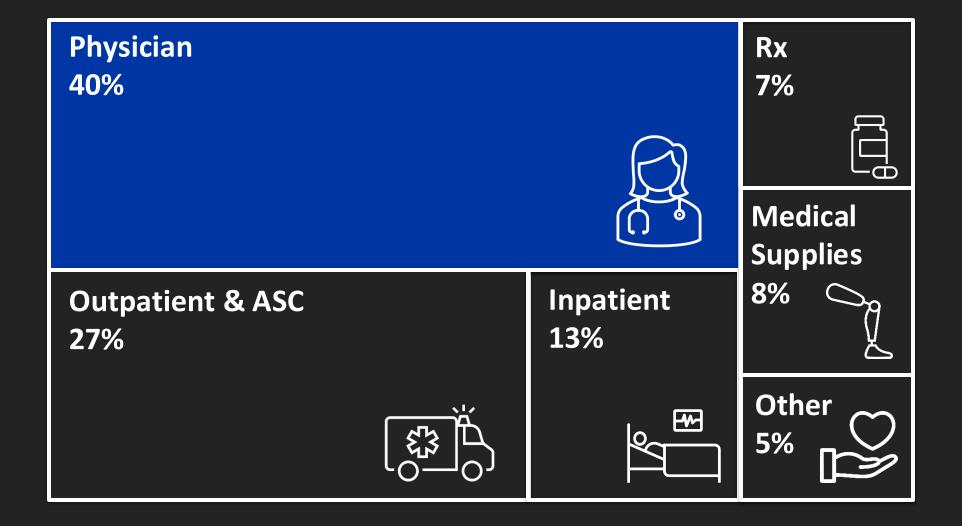


AIS 2024

Introduction—What's in the Mix? INPATIENT TRENDS INPATIENT UTILIZATION INPATIENT PRICE DRUGS

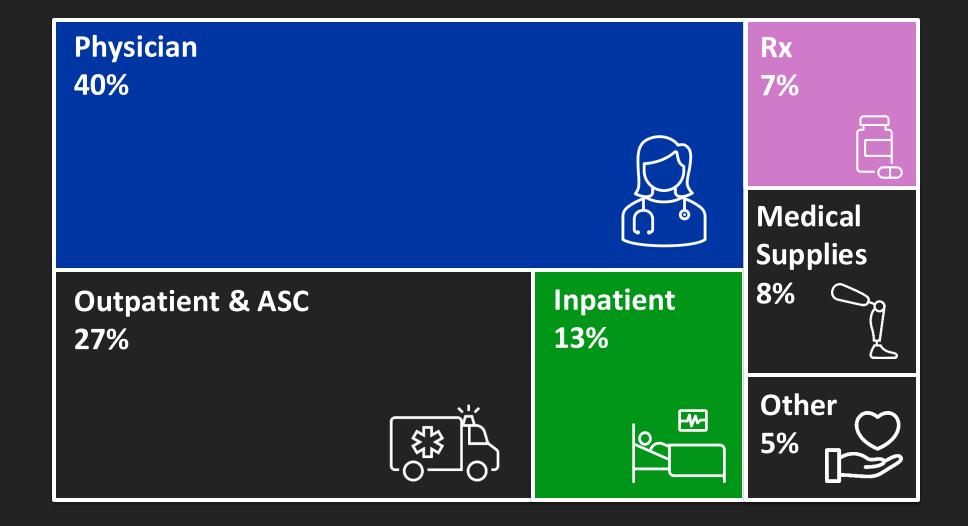


Medical Paid Cost Distribution—Service Year 2022



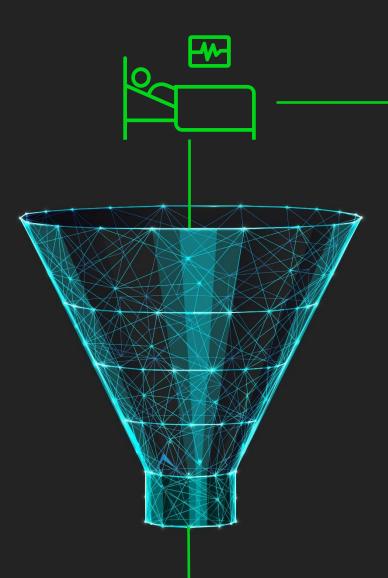


Medical Paid Cost Distribution—Service Year 2022



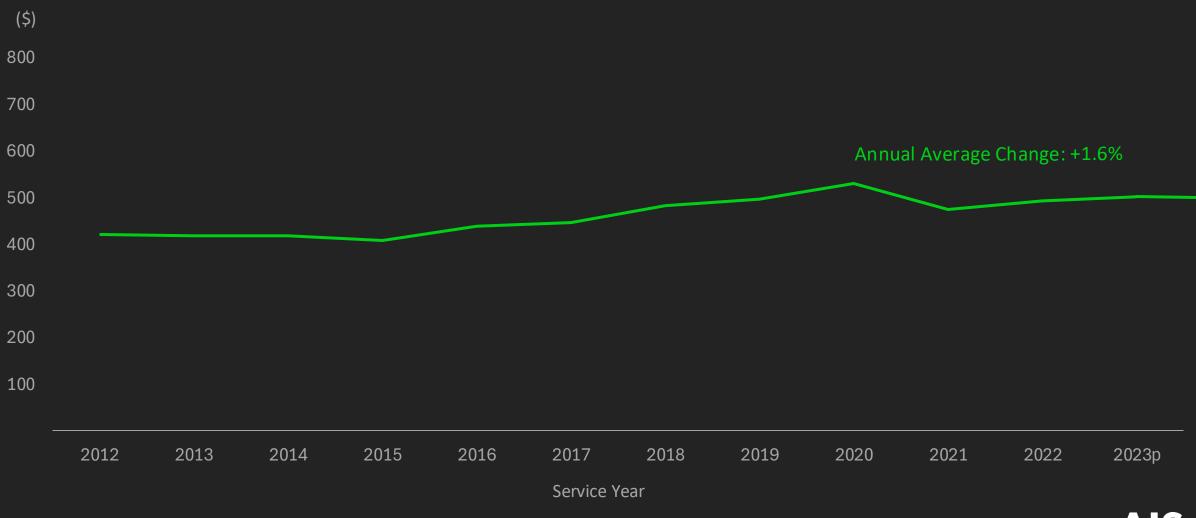


Inpatient Trends





Inpatient Paid Cost per Claim

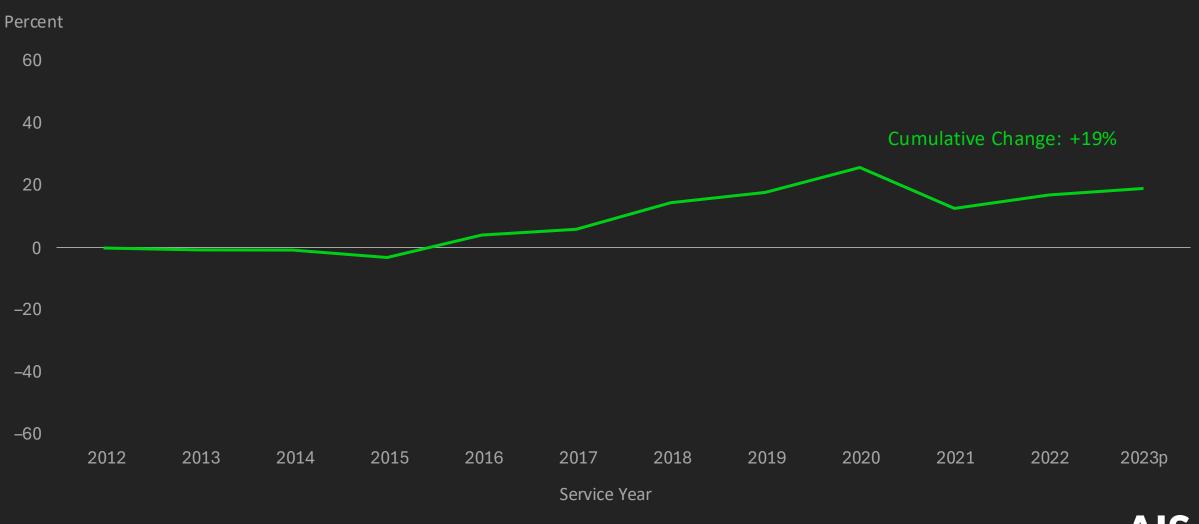


p Preliminary

Source: NCCI Medical Data Call

AIS 2024

Inpatient Paid Cost per Claim



p Preliminary Source: NCCI Medical Data Call AIS 2024

INPATIENT PRICE \$

INPATIENT COST

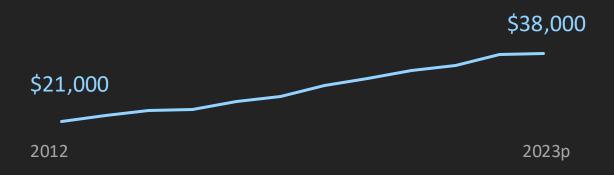


INPATIENT UTILIZATION 🕏



INPATIENT COST

INPATIENT PAID PER STAY

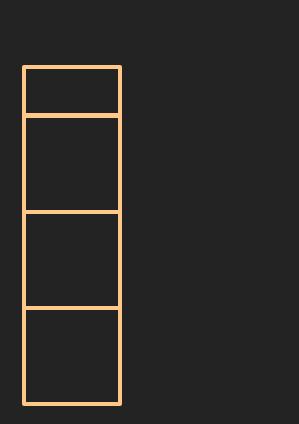


INPATIENT STAYS per 1,000 claims

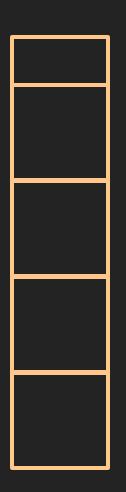




INPATIENT DAYS







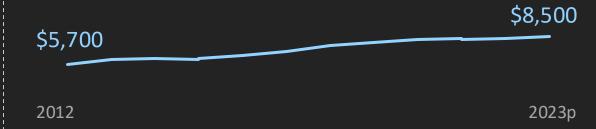
4.5 days per stay in 2023p

p Preliminary

Source: NCCI Medical Data Call



INPATIENT PAID PER DAY



INPATIENT DAYS per 1,000 claims



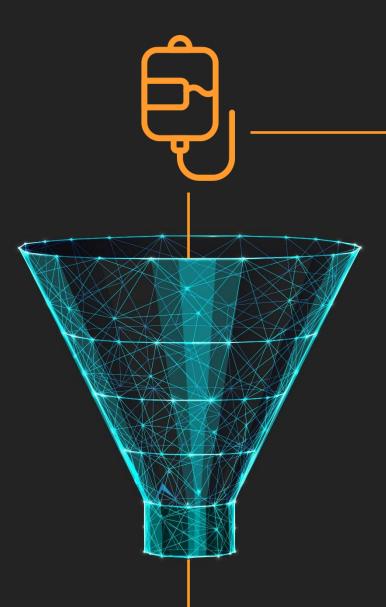
p Preliminary Source: NCCI Medical Data Call







Inpatient Utilization



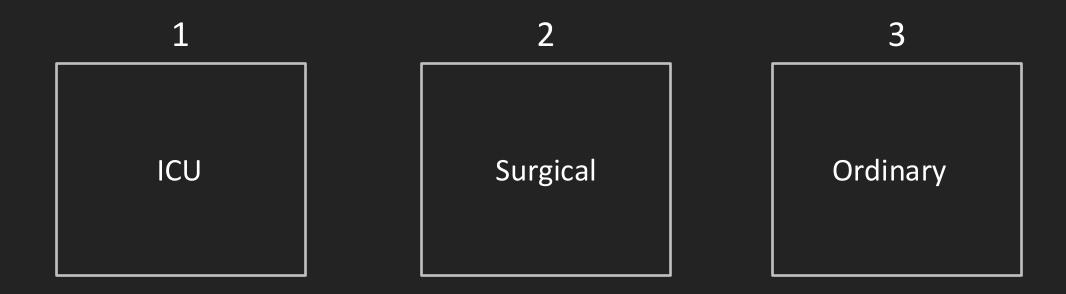


Inpatient Utilization is a function of

1. The medical condition treated

- 2. The type of treatment provided
 - Intensive care unit (ICU)
 - Surgical
 - Ordinary observation



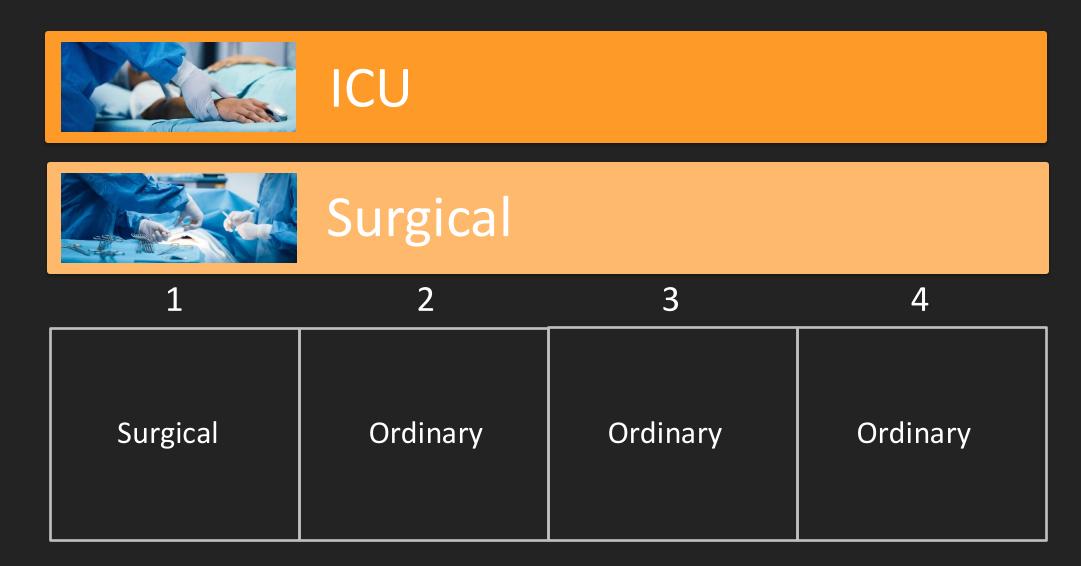




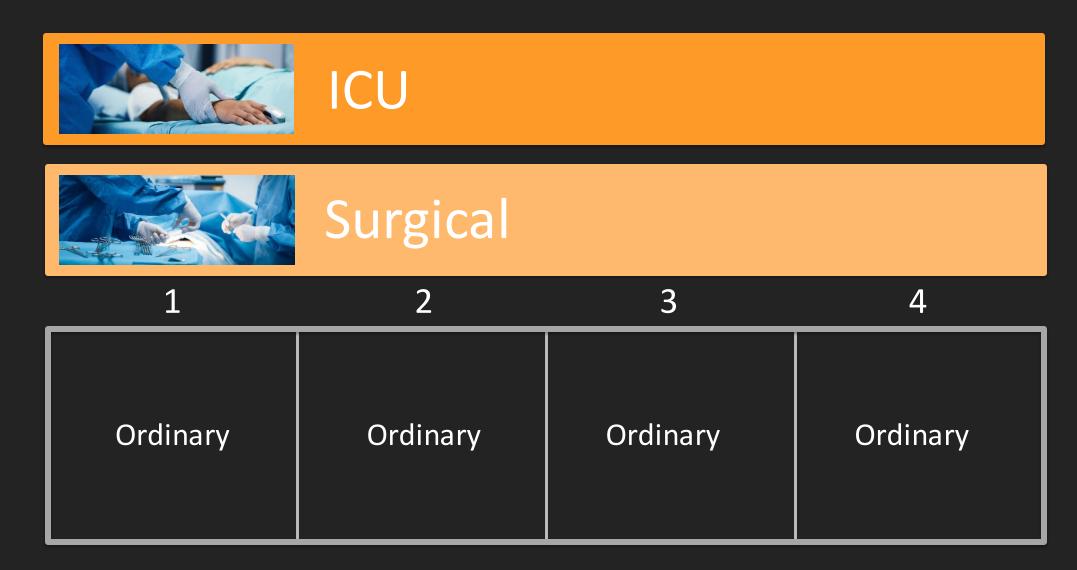
. 2 3 4

ICU Surgical Ordinary Ordinary













ICU

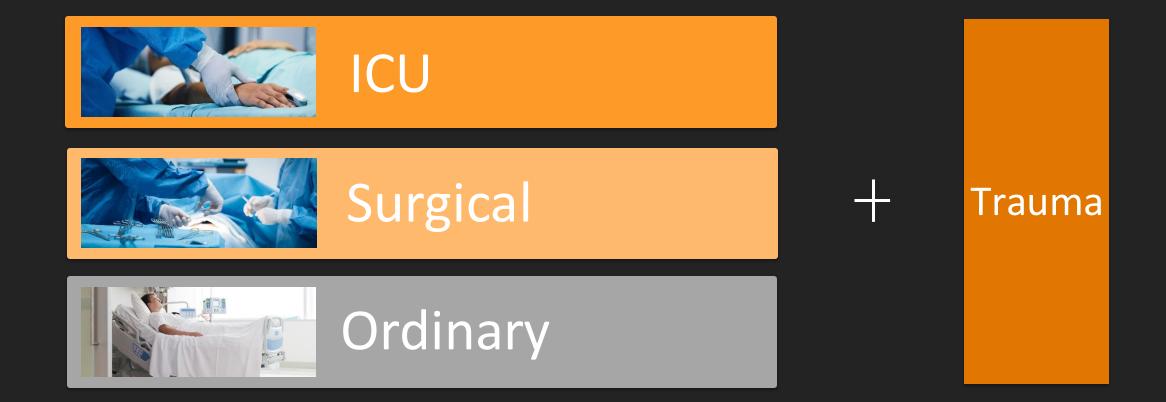


Surgical



Ordinary







Inpatient Utilization Example—Traumatic Brain Injury

An injured worker is admitted for a five-day stay with the principal diagnosis of a traumatic brain injury. The patient is admitted and undergoes surgery. She stays in the hospital for an additional four days before being discharged.

1	2	3	4	5
Surgical	Ordinary	Ordinary	Ordinary	Ordinary
25,000	5,500	5,500	5,500	5,500

Surgical Stay = 47,000 Utilization Units



Inpatient Utilization Example—Pelvis Fracture

An injured worker is admitted for a five-day stay with the principal diagnosis of a pelvis fracture. The patient is admitted and undergoes surgery. He stays in the hospital for an additional four days before being discharged.

 1
 2
 3
 4
 5

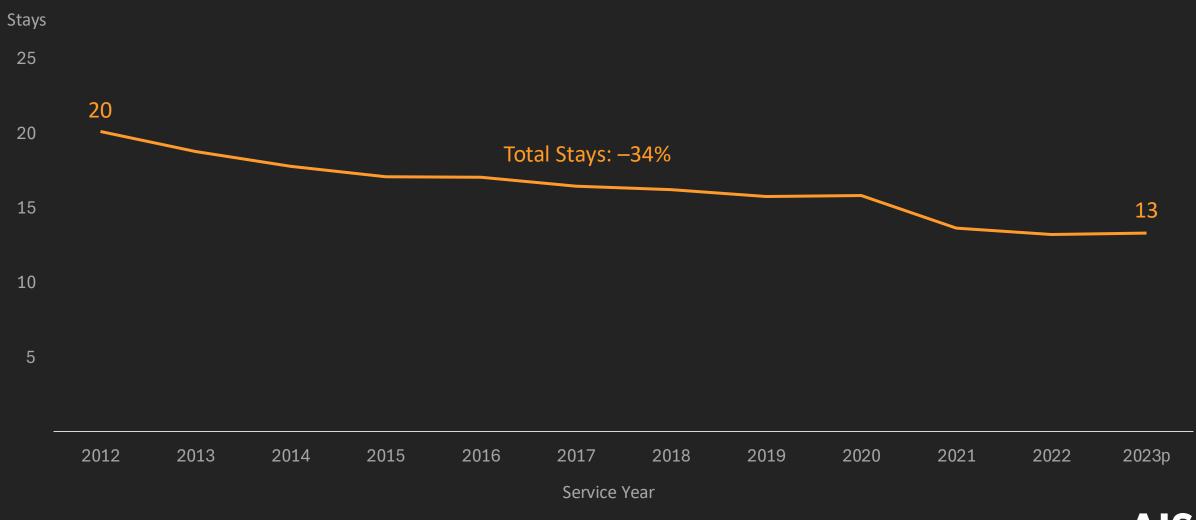
 Surgical
 Ordinary
 Ordinary
 Ordinary
 Ordinary

 18,000
 2,500
 2,500
 2,500
 2,500

Surgical Stay = 28,000 Utilization Units



Inpatient Stays per 1,000 Claims

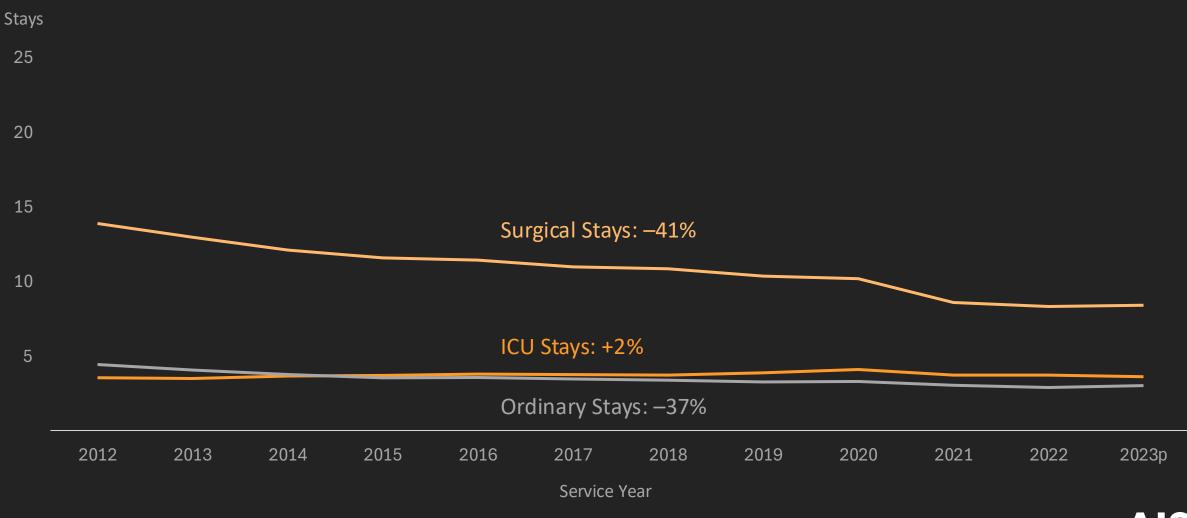


p Preliminary

Source: NCCI Medical Data Call

AIS 2024

Inpatient Stays per 1,000 Claims



p Preliminary

Source: NCCI Medical Data Call

AIS 2024

Where Are Surgeries Taking Place?

ASC visits per claim increased by 11%

All facility surgeries per claim decreased by 16%

Outpatient visits per claim decreased by 23%

Inpatient stays per claim decreased by 46%



Facility Venue Example—Knee Degeneration/Overuse Injuries

1 in 5 surgeries performed in an inpatient setting in 2012

1 in 20 surgeries performed in an inpatient setting today



Utilization per Surgical Stay



Surgical Stays per Claim



Surgical Utilization per Claim





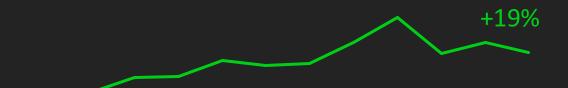
Source: NCCI Medical Data Call

AIS 2024

Utilization per ICU Stay



ICU Utilization per Claim



ICU Stays per Claim



2012 2023p

2012 2023p



p Preliminary Source: NCCI Medical Data Call

Utilization per Ordinary Stay



Ordinary Stays per Claim

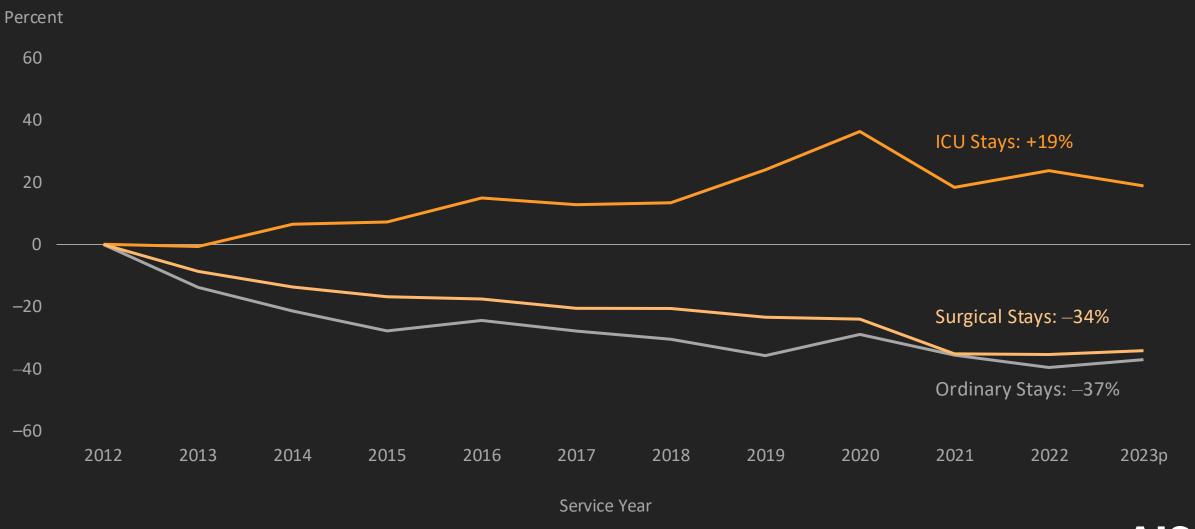


Ordinary Utilization per Claim





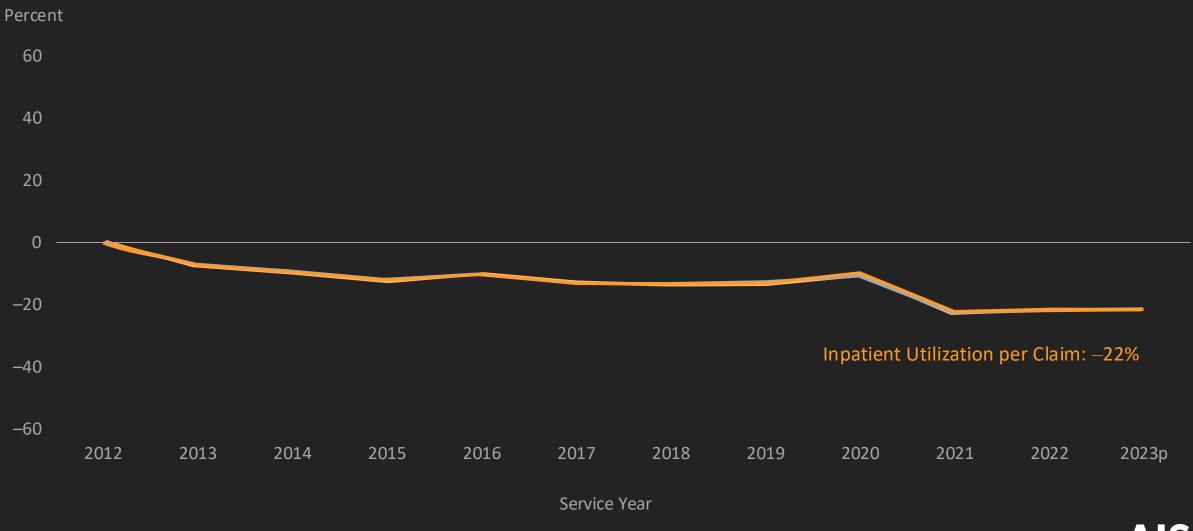
Inpatient Utilization per Claim by Stay Type



p Preliminary

Source: NCCI Medical Data Call

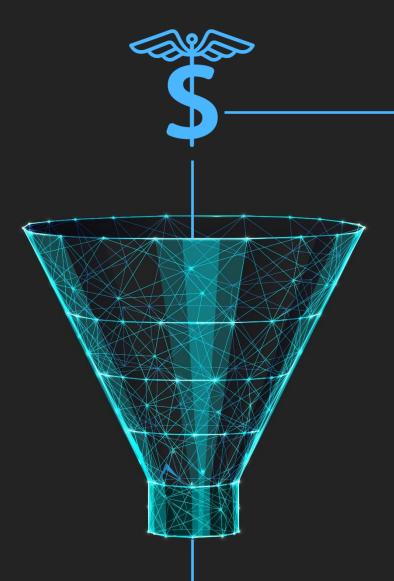
Inpatient Utilization per Claim



p Preliminary

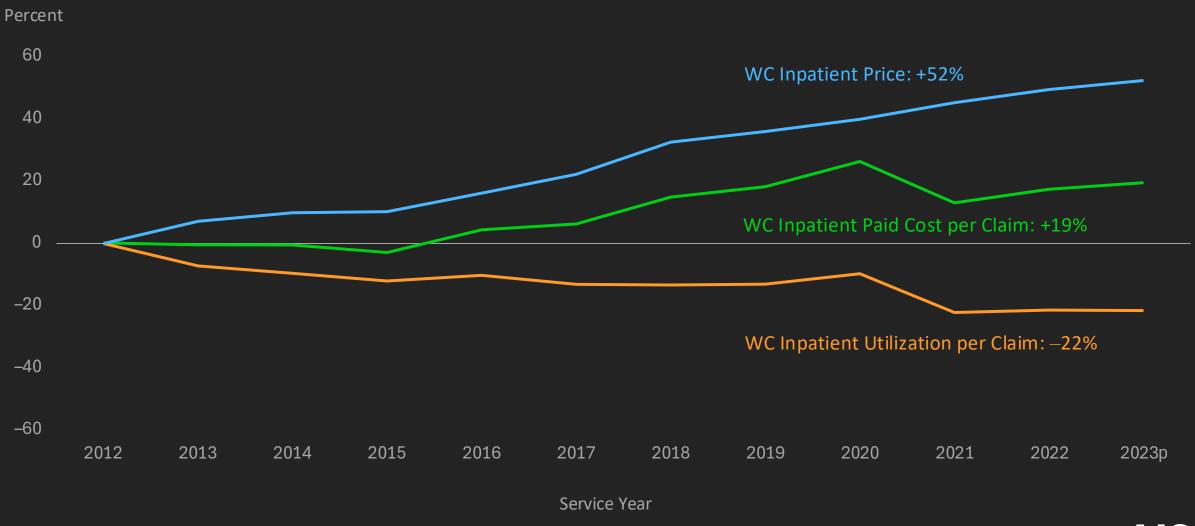
Source: NCCI Medical Data Call

Inpatient Price





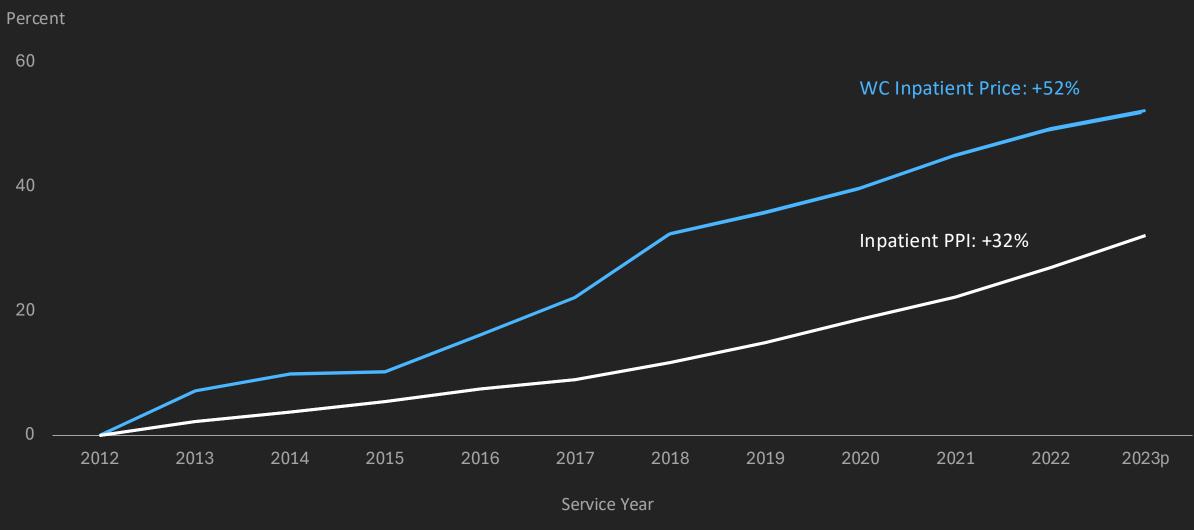
Inpatient—Utilization and Price

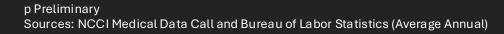


p Preliminary

Source: NCCI Medical Data Call

Inpatient Prices Compared to PPI







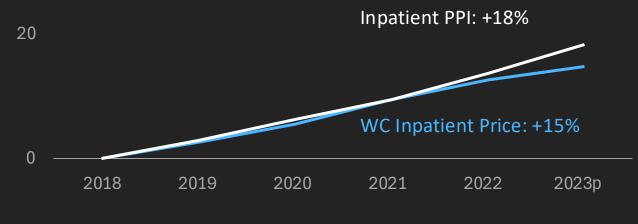
Inpatient Prices Compared to PPI—2018 to 2023p

Percent

60

40

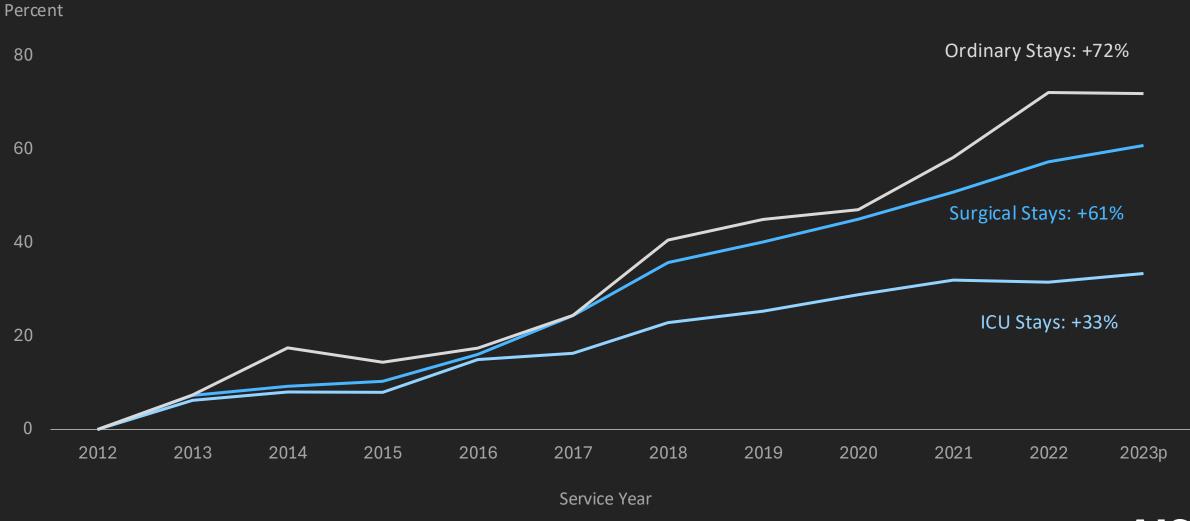
In more recent years ...



Service Year



Inpatient—Price Change by Stay Type



p Preliminary

Source: NCCI Medical Data Call



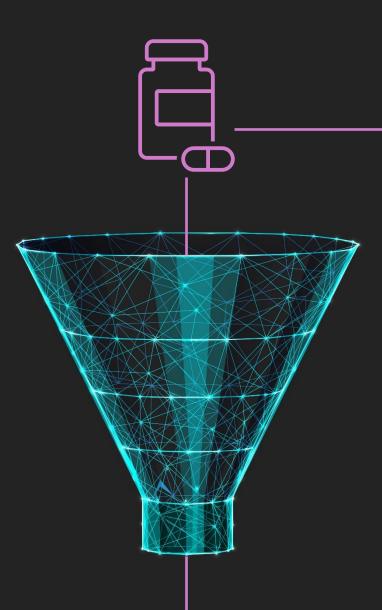
INPATIENT PRICE \$\frac{1}{5}\$

INPATIENT COST SET +19%

INPATIENT UTILIZATION €

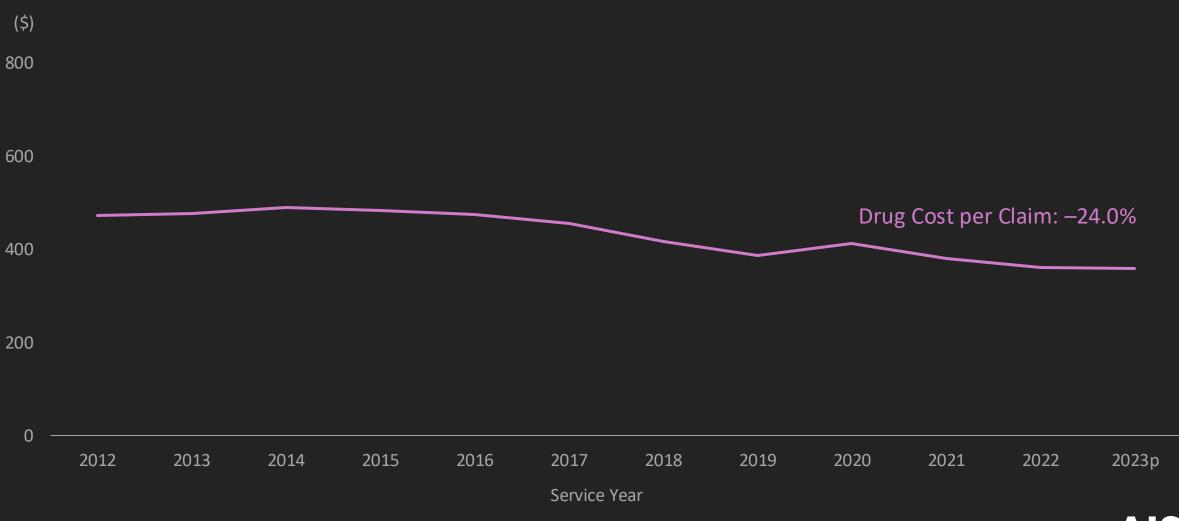
-22%

Drugs



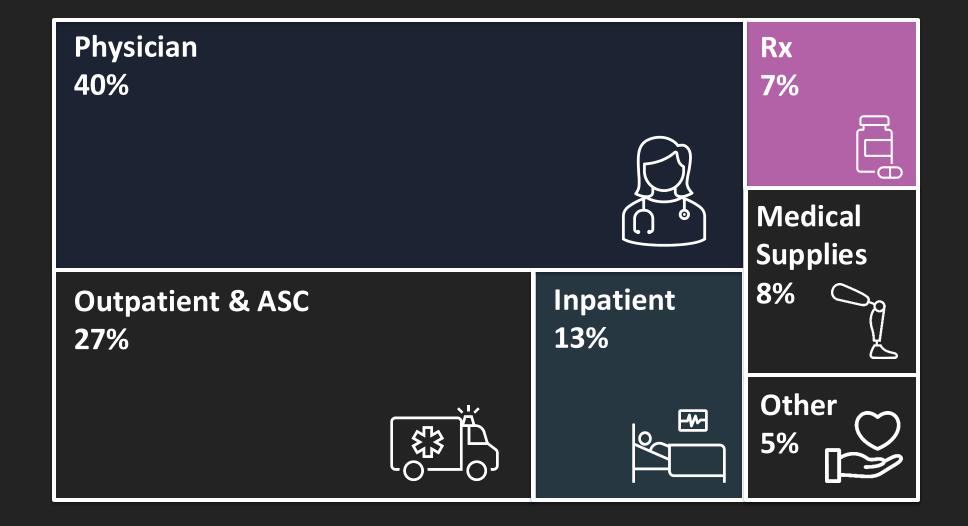


Drugs Paid Cost per Claim



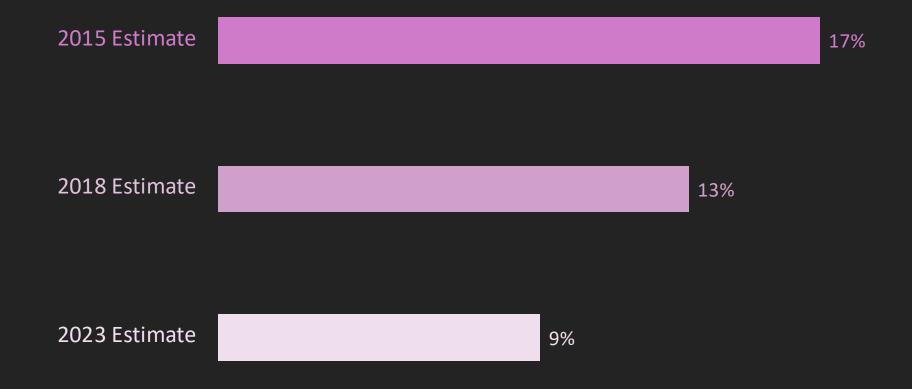
p Preliminary Source: NCCI Medical Data Call

Medical Paid Cost Distribution—Service Year 2022





Estimate of Rx Share of Medical Costs Has Decreased Accident Year 2014





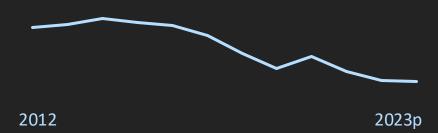
Opioid Usage in Workers Compensation



1 in 4 claims received an opioid prescription in 2012

1 in 16 claims received an opioid prescription in 2023

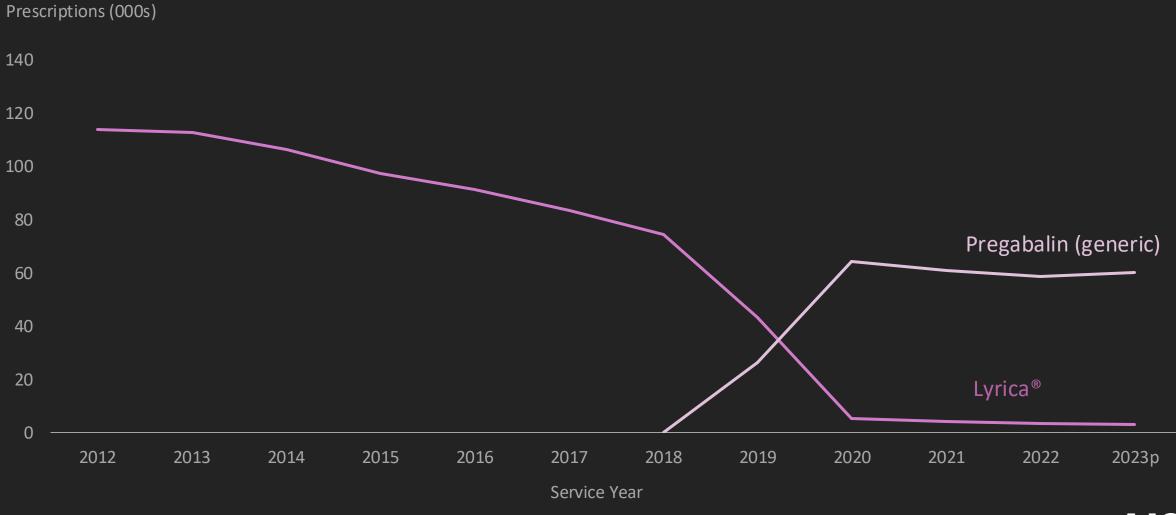
Total Drug Cost per Claim: -24.0%



Opioids account for 2/3 of the decrease in total drug cost



Lyrica® and Pregabalin Prescribing

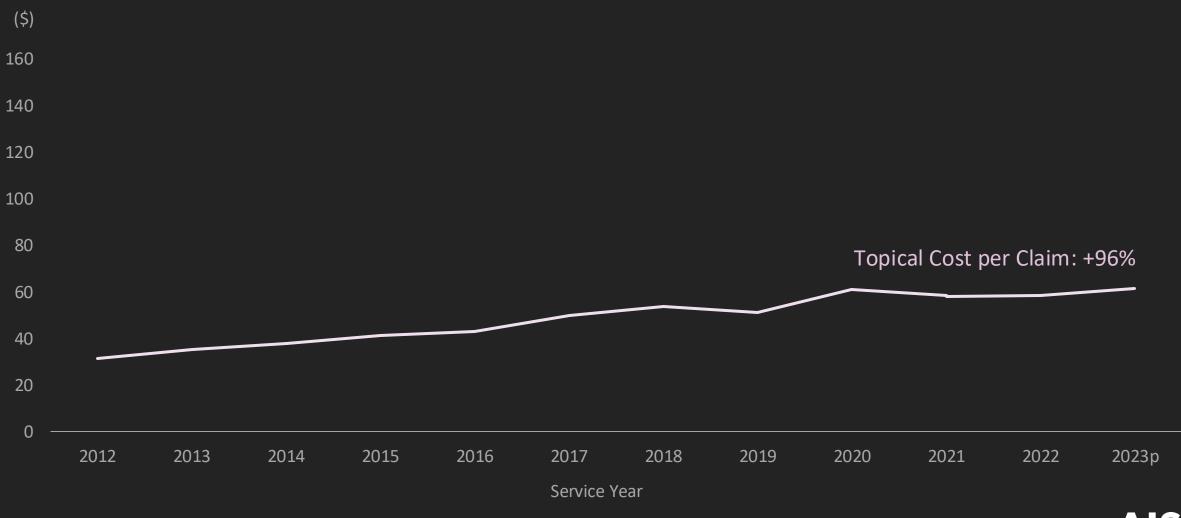




Source: NCCI Medical Data Call



Topical Paid Cost per Claim



p Preliminary

Source: NCCI Medical Data Call



Putting It All Together



INPATIENT PRICE \$



+52%

INPATIENT COST

+19% -

INPATIENT UTILIZATION 🗟

-22%

Source: NCCI Medical Data Call

© 2024 NCCI Holdings, Inc. All Rights Reserved.

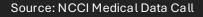
INPATIENT TRENDS

INPATIENT UTILIZATION

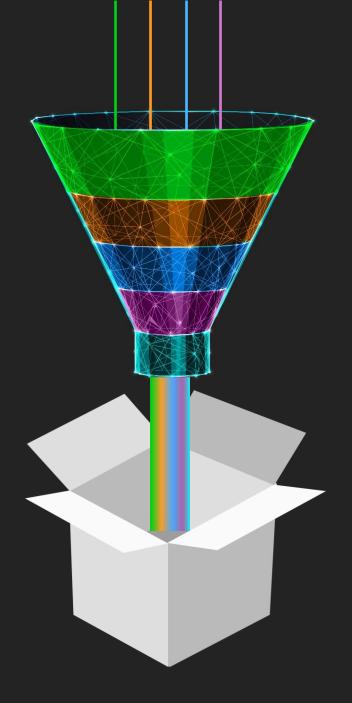
INPATIENT PRICE



24% decrease in pharmacy cost





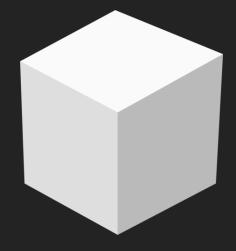


INPATIENT TRENDS

INPATIENT UTILIZATION

INPATIENT PRICE

DRUGS





Annual Insights Symposium 2024

