



## Comprehensive Care for Joint Replacement (CJR) model 5<sup>th</sup> Annual Evaluation Report



#### Report Highlights

A wide range of hospitals in diverse markets were able to achieve the aims of the model. Episode-based quality-adjusted target pricing is a demonstrated strategy for

- ✓ Encouraging care delivery transformation
- ✓ Reducing payments for lower extremity joint replacement
- ✓ Maintaining or improving quality

The Coronavirus Disease 2019 (COVID-19) pandemic impacted the performance of the model in several ways and led to significant Medicare losses in the fifth performance year.



# What we are covering today

How the CJR model has **transformed care delivery** for patients undergoing lower extremity joint replacement

How the CJR model has impacted **quality of care** for patients

How the CJR model has impacted the cost of care

The **reach** of the CJR model and how it has impacted **equity** 



#### Highlights:

**Care Delivery Transformation** 

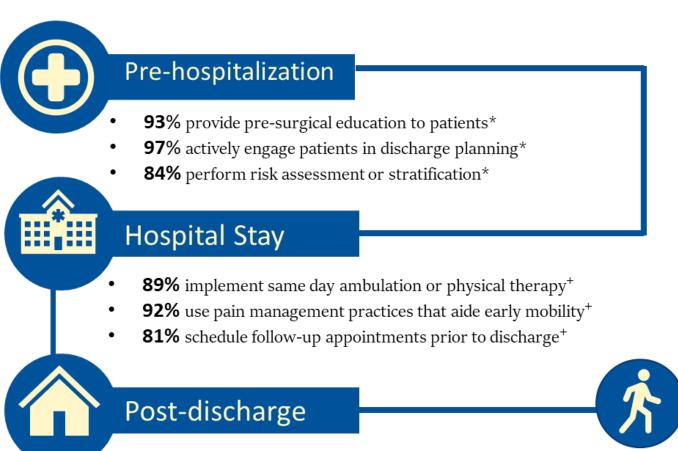
√ Hospitals implemented or enhanced numerous activities across
the care continuum.

√ The most common activities focused on improving patient care
and care coordination pre- and post-discharge.

✓ Condition-specific factors were more frequently identified as a determining factor for discharge destination than social determinants of health.



## Hospitals used a multifaceted approach across the entire episode of care to reduce institutional post-acute care and discharge patients directly home.



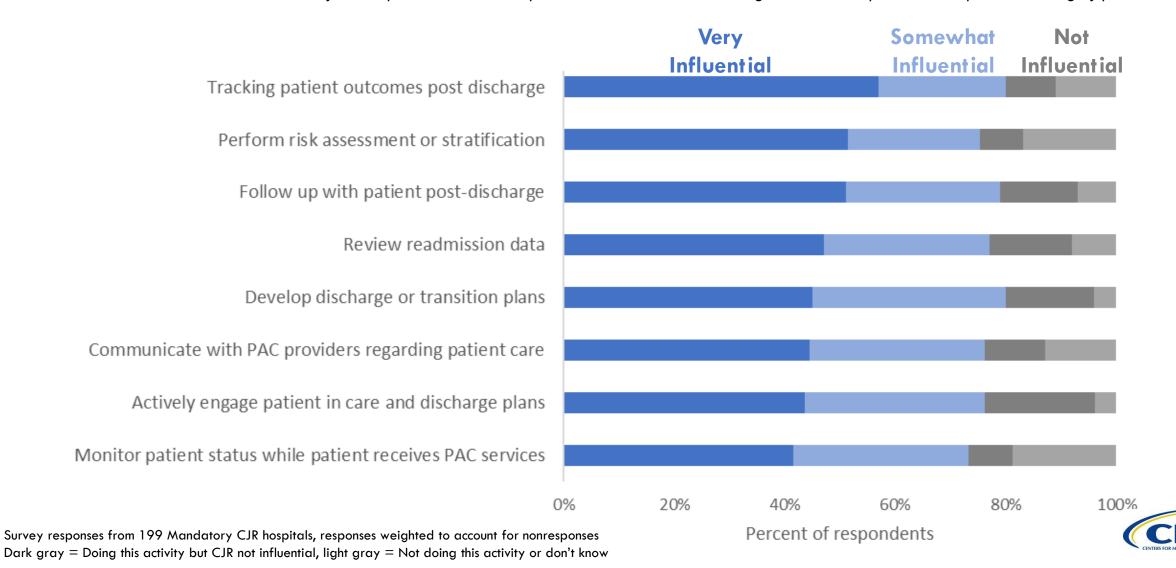
- 88% communicate with PACs regarding patient care\*
- 93% follow-up with patients after discharge\*
- 88% collect and analyze outcomes data\*



<sup>\*</sup> Findings from Year 4 Care Coordinator survey + Findings from Year 2 Hospital Administrator survey

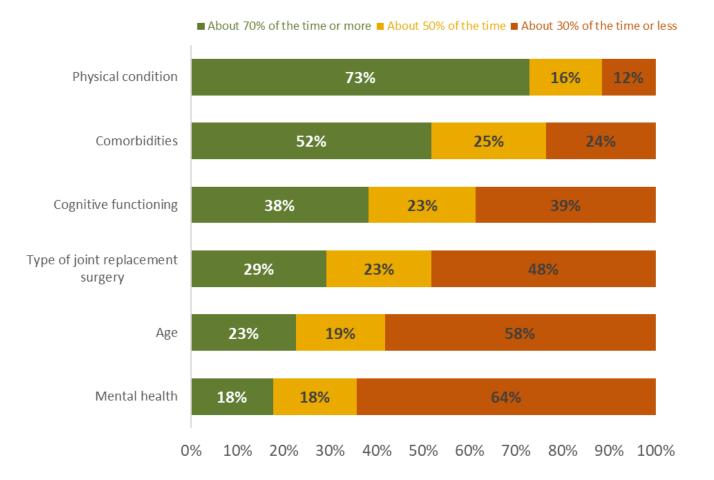
#### The CJR model was most influential for activities related to post-discharge

How influential was the CJR model in your hospital's decision to implement or enhance the following activities for hip and knee replacement surgery patients?



Condition-specific factors were more frequently identified as a determining factor for discharge destination than social determinants of health

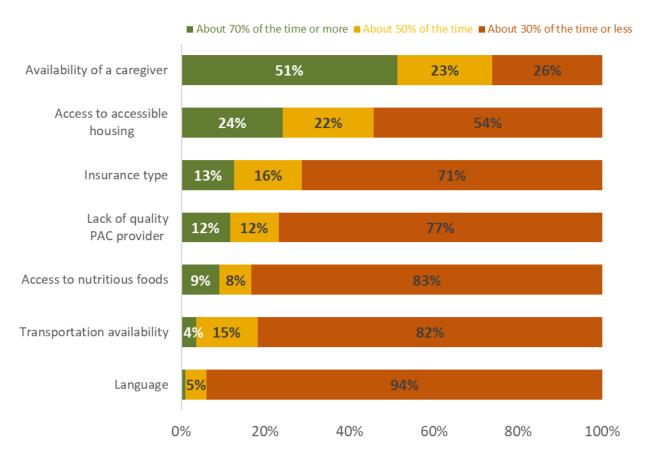
#### How often were the following characteristics a determining factor in the discharge destination decision?





Condition-specific factors were more frequently identified as a determining factor for discharge destination than social determinants of health

#### How often were the following characteristics a determining factor in the discharge destination decision?





## Approximately 80% of hospitals identified specific goals for their care coordination program

Which outcomes are monitored to measure the success of your hospital's care coordination strategy? (select all) **97**% 100% 92% 90% **87**% **87**% 90% 80% **76**% 70% 61% 61% 60% 49% **47**% 50% 40% 30% 20% 10%

Complications or

infections

PAC utilization

PRO



NPRA

Emergency department use Patients' progess after PAC

Hospital LOS

Patient satisfaction

Discharge disposition

0%

Readmissions

The CJR model reduced the elective complication rate but did not impact other claims-based measure of quality

	Cumulative Impact PY1-PY5
Unplanned Readmission Rate	No Impact
ED Use	No Impact
Mortality	No Impact
Elective Complication Rate	7.4%



#### Highlights:

**Cost of Care** 

√ The CJR model reduced average episode payments for mandatory
CJR hospitals in every performance year.

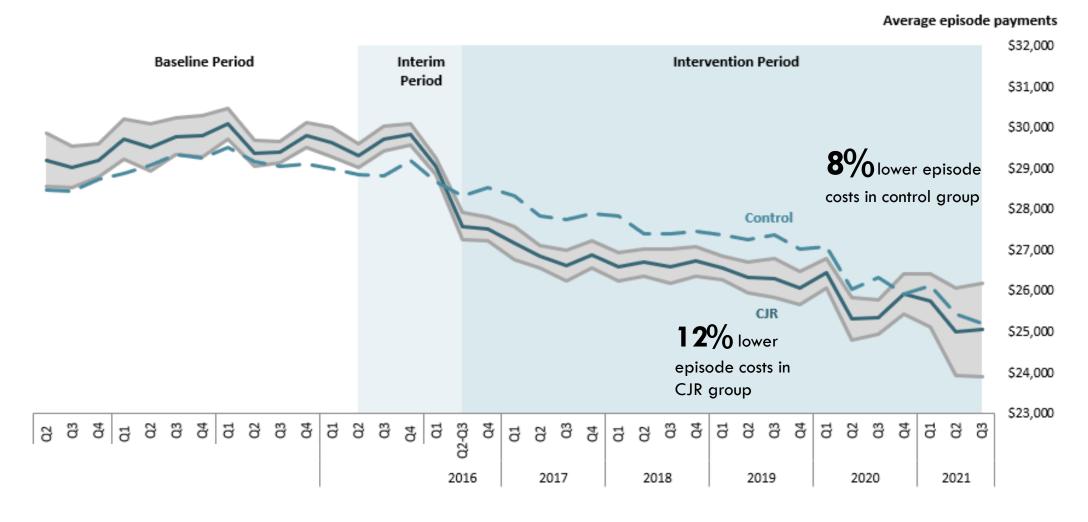
✓ The reduction in payments decreased over time due to policy changes that allowed outpatient LEJRs and the public health emergency.

✓ The savings trend observed in the first four performance years reversed in performance year 5.

✓ The significant losses in performance year 5 were large enough to offset savings from prior performance years.

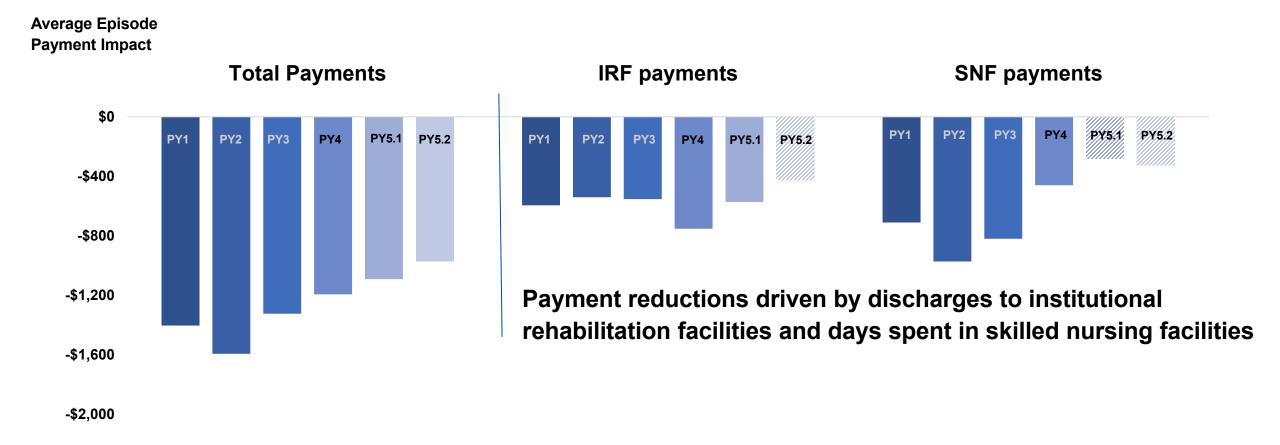


### Episode payments for joint replacements declining across the board, larger reductions from CJR model hospitals





## The CJR model significantly reduced average episode payments due to reductions in payments for post-acute care





## The CJR model mandatory hospitals were on track to save Medicare money until the COVID Public Health Emergency





Performance Year 1

Performance Year 2

The reversal in Medicare savings was due to a generous relief policy and smaller impacts in Year 5



Performance Year 4

Performance Year 5

Performance Year 3

#### Highlights:

### Reach and Equity

√The CJR model was not designed to address equity, and we saw
few impacts on payment and quality outcomes.

✓ There were similar patterns in the reduction of institutional postacute care across all groups.

✓ Quality was maintained or improved across all groups.

✓ There are indications that the gap in the rates of lower extremity joint replacement is widening for patients who are Black.



## CJR was not designed to address equity, and we saw few impacts on utilization and quality outcomes

#### **Utilization:** Similar patterns in the reduction of institutional post-acute care across all groups

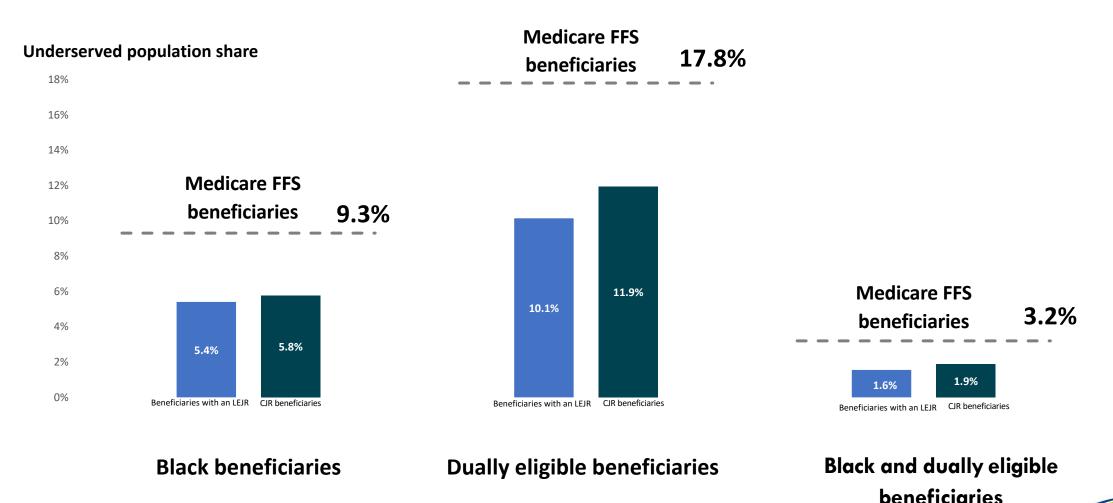
 Fewer discharges to inpatient rehabilitation facility, fewer skilled nursing facility days and greater use of home health

#### Quality: Maintained or improved across all groups

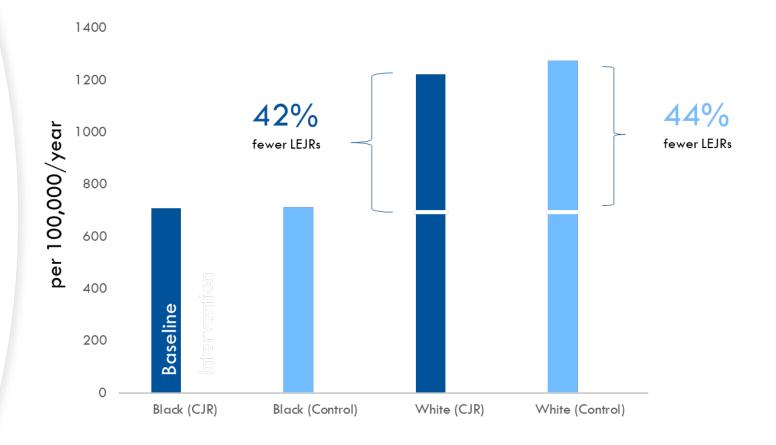
- No impact on ED visits or readmissions
- Similar changes in functional status for patients across all groups
- For patients who were Black,
  - Significant relative decrease in mortality and
  - Significantly higher satisfaction with care management, particularly higher ratings health care providers listening to preferences



## Underserved populations are underrepresented in the CJR model reflecting patterns for Medicare fee-for-service (FFS) beneficiaries with a lower extremity joint replacement

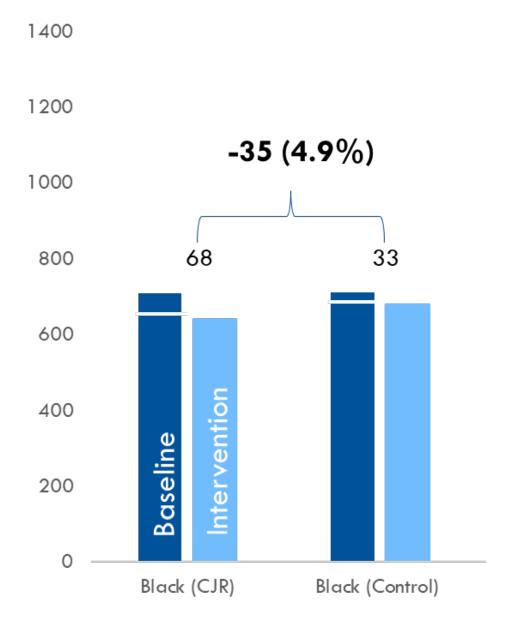


Historical differences in the rate of LEJR for Black Americans compared to White Americans that we see reflected in both the CJR and Control groups at baseline (2014-2016).



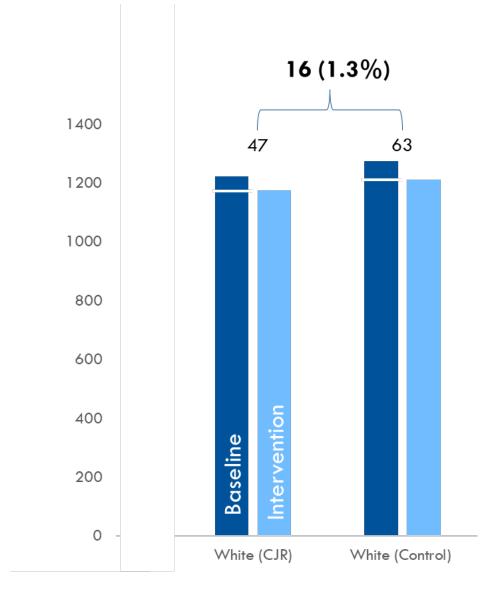


The relative decrease in LEJR rate of 35 LEJRs per 100,000 beneficiaries per year, a decrease of 4.9% of the baseline rate, relative to Black control beneficiaries was not statically significant.



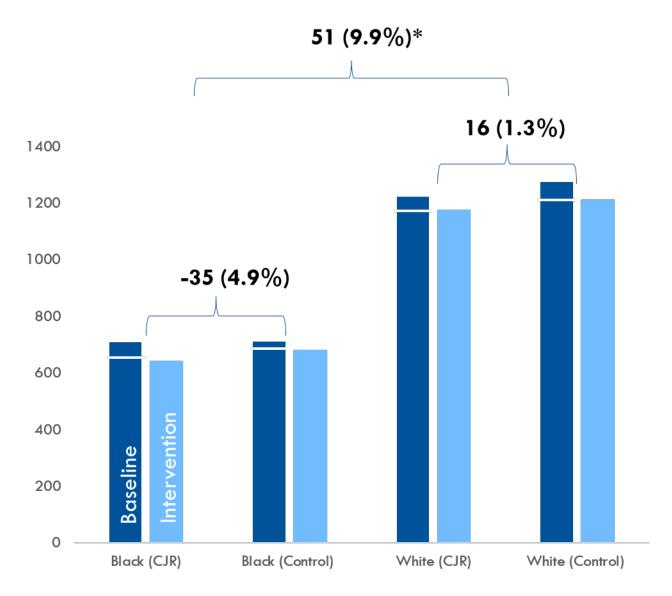


The relative decrease in LEJR rate of 16 LEJRs per 100,000 beneficiaries per year, a decrease of 1.3% of the baseline rate, relative to White control beneficiaries was not statically significant.





While not individually statistically significant, these changes combined led to a statistically significant widening of the baseline LEJR rate between Black and White CJR beneficiaries



\*Estimates are significant at the 10% significance level



#### Wrap Up

√ The CJR model remains a promising approach for reducing LEJR episode payments and generating savings to Medicare, although changes in the health care landscape affected its performance.

✓ The shift to outpatient has been a steady progression with now well over 60% of knees and 40% of hips being performed as outpatient.

√ The CJR model impact is narrowing due to less PAC use overall.

