Driving Performance in a Value-Based Landscape: Aligning Clinical Excellence with Economic Value in Post-Operative Pain Management

Healthcare Executive Leadership

PP-EX-US-10093



Navigating Healthcare's Future: Delivering Value, Prioritizing Quality, While Balancing Financial Sustainability

Value-based care prioritizes delivering the best possible outcomes

Ensure alignment with clinical objectives and financial sustainability

Driving improved outcomes at optimal cost

1. Butts, D., Gursahaney, V. (2014) Hospital Quality and Efficiency Program is Key to Successful Clinical Integration. Becker's Hospital Review. https://www.beckershospitalreview.com/hospital-physician-relationships/how-a-hospital-quality-and-efficiency-program-is-key-to-successful-clinical-integration.html 2. American Society of Anesthesiologists. (2014). ASA PSH: An Overview. https://www.asahq.org/psh/resources/an-overview

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Transforming Episode Accountability Model (TEAM) & CMS

Coming January 2026

Accountable for ensuring Medicare recipients receive coordinated, high-quality care during and after certain surgical procedures.

Improvement Aim: Quality in high-volume surgical procedures, reduce rehospitalization and recovery time while lowering for the total cost of care.



What is the TEAM Model?

Directly Links _____

Hospital reimbursement to both clinical quality and financial performance

Participation Tracks —

Evaluated against a regional benchmark to determine whether they receive a positive or negative reconciliation

Scale and Focus -

741 acute care hospitals \$6 billion hospital in revenue \$481 million in Medicare savings

Hospital Responsibility

Cost of the procedure, as well as the total cost of care post 30 days post discharge

Hospitals Performance -

A Composite Quality Score to adjust reconciliation amounts linking quality performance to payment

A financial bonus or a penalty

Episodes of Care ___

Participants are responsible for all episode categories unless specific exclusions apply, as defined by MS-DRG and/or HCPCS codes

Elevating Performance Across High-Volume, High-Risk Episodes

All Cause Readmissions

Hybrid Hospitals



These readmissions often signal preventable gaps in care coordination, patient education, discharge planning, or post-acute support. High readmission rates are associated with worse patient outcomes, avoidable costs, and reimbursement penalties.

PSI-90

Patient Safety & Adverse Event Composite



It captures a weighted group of serious, potentially preventable adverse events that occur during hospitalization.

LEJR PROMs

Patient Reported Outcomes Measures



Focuses on measuring functional outcomes, pain improvement, and patient satisfaction following elective primary total hip (THA) and total knee arthroplasty (TKA).

Hospital Harm

Falls with Injury



Focuses on serious lapses in inpatient safety and are often preventable.

Hospital Harm

Postop Respiratory Failure



Preventable complications following surgery that require unplanned intubation, mechanical ventilation, or ICU-level care.

30-Day Mortality

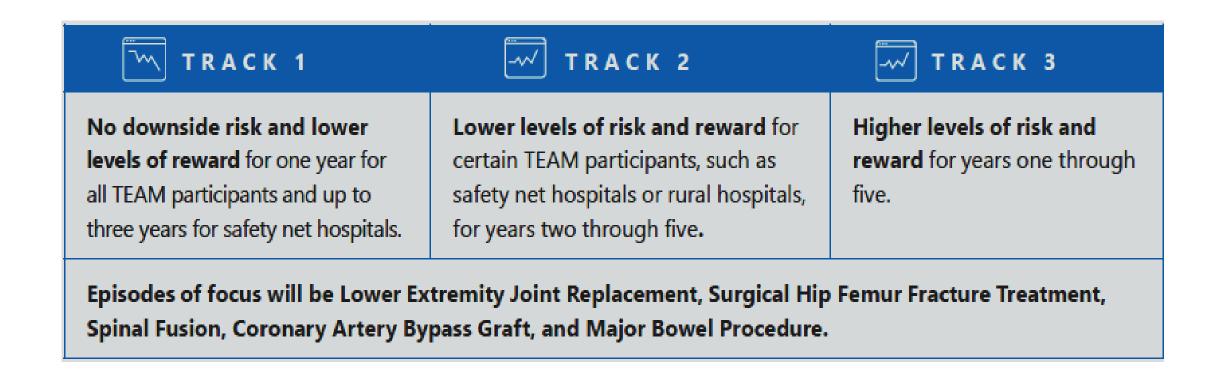
Failure to Rescue



Reflecting deaths from any cause within 30 days of a hospital admission, procedure, or surgery.

1. Centers for Medicare & Medicaid Services. TEAM Care Quality Score Methodology. 2024. https://innovation.cms.gov/media/document/team-cqs-methodology

Transforming Episode Accountability Model (TEAM) & CMS



Enhanced Recovery After Surgery (ERAS®): Cost-Effective Perioperative Pathways to Reduce Spend, Improve Outcomes and Maximize Value

ERAS is designed to:

- Reduce variability³
- Increase value by reducing cost and improving quality of care^{2,3}
- Reduce complications and LOS³
- Facilitate surgical throughput leading to (early) postoperative discharge
- Maintain preoperative bodily compositions and organ function²

Professional Societies Endorse ERAS®: Clinical Best Practices That Drive Financial Value in Surgical Care



















Outpatient • Office Based • Non-Operating Room















THE SOCIETY OF GYNECOLOGIC ONCOLOGY

















References :ERAS® Society, Fawcett, W. J., Mythen, M. G., Ljungqvist, O., et al. (2019). Enhanced Recovery After Surgery (ERAS) Society recommendations for spine surgery. BJA: British Journal of Anaesthesia, 123(4), 450–460. https://doi.org/10.1016/j.bja.2019.05.021N 2. orth American Spine Society (NASS). (n.d.). Multimodal pain management and opioid stewardship resources. Retrieved from https://www.spine.orgA 3. merican Association of Neurological Surgeons (CNS). (n.d.). Joint clinical guidelines on perioperative neuroanesthesia best practices for spine surgery. Retrieved from https://www.spine.orgA 4. Society for Neuroscience in Anesthesiology and https://www.spine.orgA 4. Society for Neuroscience in Anesthesiology and https://www.spine.orgA 4. Society of Neuroscience in Anesthesiology and https://www.spine.orgA 4. Society of Retrieved from https://www.spine.orgA 5. American Society of American Society of Colorectal Surgeons (ACS). (n.d.). not for Surgery & NSQIP initiatives supporting ERAS pathways. https://www.spine.orgA 7. American Society of Colorectal Surgeons (ASC). (n.d.). Perioperative surgical home and ERAS alignment. https://www.sahq.org. 8. American Society of Colorectal Surgeons (ASCRS). (n.d.). Clinical practice guidelines for enhanced recovery in colorectal surgery. https://www.sahq.org. 9. Society of Thoracic Surgeons (STS). (n.d.). As clinical practice guidelines for thoracic surgery. https://www.sahq.org. 10. American Academy of Orthopaedic Surgeons (AAOS). (n.d.). Perioperative optimization and opioid reduction strategies. https://www.sahq.org. 11. American Urological Association (AUA). (n.d.). ERAS in gynecologic oncology surgery guidelines. https://www.sahq.org. 14. Societyfor Ambulatory Anesthesia (SAMBA). (n.d.). Guidelines for outpatient surgery and multimodal analgesia. https://www.sahq.org. 14. Societyfor Ambulatory Anesthesia (SAMBA). (n.d.). Guidelines for outpatient surgery and multimodal

Aligning ERAS® Pathways with the Quintuple Aim for Sustainable Health Outcomes

01: Direct revenue through evidence-based care

02: Risk-based payments via standardized processes

03: Reduces clinical variability for reliable, high-quality care

04: Indirect savings via efficiency & performance improvement

05: Mitigates penalties & optimizes throughput for value



^{1.} Nivet, M. A., & Berlin, A. (2022). The Quintuple Aim for health care improvement: A new imperative to advance health equity. JAMA, 327(6), 521–522. https://doi.org/10.1001/jama.2021.25181. 2. Gonzalo, J. D., Thompson, B. M., Haidet, P., & Wolpaw, D. R. (2022). Academic health centers and the Quintuple Aim of health care. Academic Medicine, 97(12), 1775–1780. 3. American Society of Anesthesiologists. (2014). ASA PSH: An Overview. https://www.asahq.org/psh/resources/an-overview.4. Butts, D., Gursahaney, V. (2014) Hospital Quality and Efficiency Program is Key to Successful Clinical Integration. Becker's Hospital Review. <a href="https://www.beckers/hospital-physician-relationships/how-a-hospital-physician-rel

Shared Savings – Recovery That Pays Off

Driving Economic Value Across the Surgical Episode with ERAS and Opioid Sparing Strategies

•	Savings	Category
	Patient)	

Reduced LOS (1–3 days)

- Avoided Readmissions
- Avoided ORAEs (e.g., ileus, P-ONV)
- Avoided PSI-90 Events
- Reduced Penalties (CMS)
- Lower Opioid Rx Costs
- Total Per-Patient Savings
- Estimated Annual Savings (1,000 cases)

Shared Savings (Per

2,000 - 6,000

\$2,000 - \$4,000

\$1,500 - \$3,500

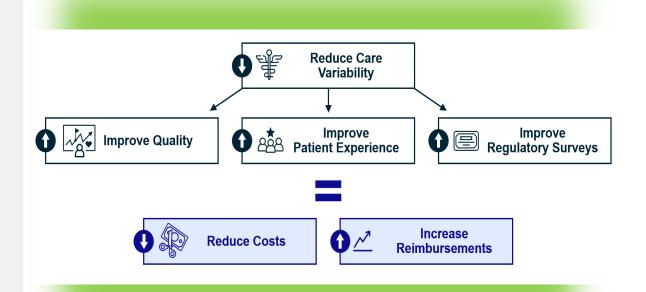
\$2,000 - \$55,000

\$500 – \$11,000

\$200 – \$5,500

\$8,200 - \$20,000

\$10 million



10

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^{*}Estimated savings are illustrative and assumed savings opportunities if all cost categories applied uniformly across patients. Actual savings depend on baseline rates of complications and resource use.

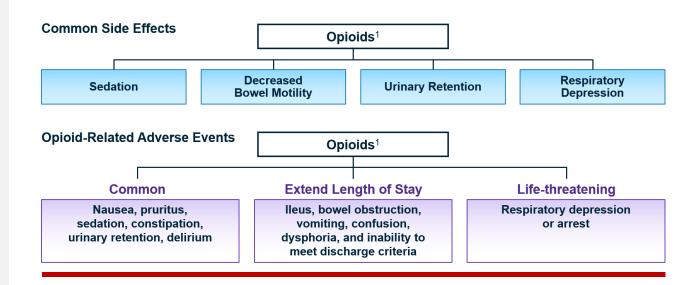
^{1.}Premier Inc. Optimizing Surgical Outcomes Through Enhanced Recovery: Evidence from Premier Healthcare Database. Premier, Inc. 2021. https://www.premierinc.com. 2. Premier Inc. Accelerating Value: Real-World Insights on Surgical Episode Optimization and Cost Containment. 2020. https://www.premierinc.com. 3. Vizient Inc. Enhanced Recovery After Surgery: Lowering Costs While Improving Outcomes. Vizient, Inc. 2022. https://www.vizientinc.com. 4. Vizient Inc. 2021. https://www.vizientinc.com. 4. Vizient, Inc. 2021. https://www.vizientinc.com.

High-Cost Complications Due to Surgical Variability

Complication	Extended LO	S Costs
Postoperative Ileus (POI)	3–7+ days	\$8,000-\$15,000
Uncontrolled Pain	1–3 days	\$5,000-\$10,000
Nausea & Vomiting (PONV)	0.5–2 days	\$3,000–\$6,000
Respiratory Depression	2–5+ days	\$10,000-\$20,000+
Delirium (Older Adults)	3–6 days	\$7,000–\$12,000
Surgical Site Infection (SSI)	7–10 days	\$11,000–\$30,000+
Wound Dehiscence	5–12 days	\$15,000–\$25,000
Pressure Ulcers	5–15 days	\$20,000-\$40,000
PE/DVT	3–10 days	\$8,000-\$30,000
Readmission Penalty		Up to 4% Medicare Reduction
PSI-90 Events (Aggregate)	3–10+ days	\$10,000–\$35,000+

Complications Potentially Exacerbated by Opioids

Opioid – Related Adverse Events That Can Increase LOS or Delay Discharge



*Some complications on the left (e.g., ileus, PONV, respiratory depression) may be opioid-related. Others are associated with surgical variability but can be compounded by poor pain control, sedation, or delayed mobility.

^{1.} Agency for Healthcare Research and Quality (AHRQ). Reducing Variation in Surgical Outcomes: The Case for Enhanced Recovery. AHRQ.gov. 2. Centers for Medicare & Medicaid Services (CMS). Care Variation and Outcome Disparities in Surgical Episodes. CMS.gov.. 3. Premier Inc. Variation in Surgical Practices: Impact of Opioid-Centric Pain Management. Premier Healthcare Database. 4. Vizient Inc. Benchmarking Surgical Variation: The Case for Enhanced Recovery Protocols. Vizient Analytics Reports. 5. JAMA Surgery. Association of Opioid Use With Increased Variation in Surgical Recovery and Outcomes. JAMA Surg. 2020;155(7):e200000.. 6. Annals of Surgery. Clinical Variation and Cost Implications of Non-Standardized Perioperative Pathways. Ann Surg. 2019;270(4):647–653.7. Anesthesia & Analgesia. Perioperative Opioid Use and Its Association With Length of Stay and Postoperative Complications. Anesth Analg. 2021;132(4):e110–e119.

True Preventative Legislation: The Non-Opioids Prevent Addiction in the Nation (NOPAIN) Act

- Consolidated Appropriations Act of 2023
 - Mandates CMS reimburse for qualifying non-opioid drugs and devices used in ASC or HOPD settings for 3 years
- Qualifying drugs will be reimbursed at ASP +6%
- Qualifying devices will be reimbursed up to 18% of the OPD fee schedule amount for the OPD service
- Demonstrated the ability to reduce or avoid intraoperative or postoperative opioid use or the quantity of opioids prescribed

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Opioid Abuse and Dependence Put Financial Strain on the Workplace

90 days after diagnosis of opioid use disorder, average unadjusted healthcare costs increased by 55% per member per month¹

Up to 85%

of workers' compensation claims with pain medication prescriptions included opioids³ To Payers, Employees, & Employers...

Total workers' compensation claim costs are up to 8 times higher

8 times higher

for patients prescribed 1 opioid vs no opioids²

Workers' compensation claimants on long-term opioids (>90 days) typically

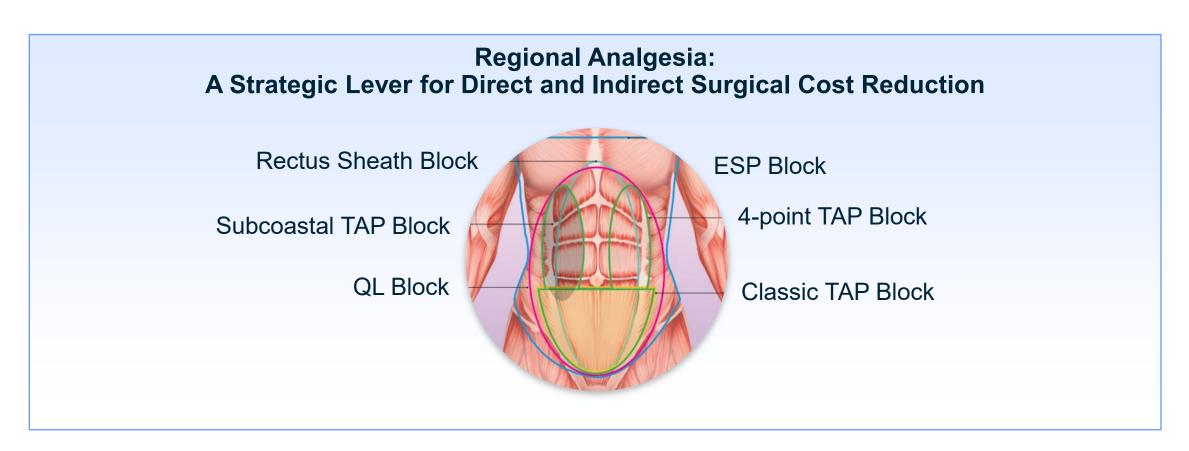
DO NOT return to work²

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^{1.} LaRochelle MR, et al. Med Care. 2020;58:919-926. 2. Rosenblum KE. Opioids wreak havoc on workers' compensation costs. Lockton, Inc. Accessed November 8, 2023. https://www.akleg.gov/basis/get_documents.asp?session=28&docid=24570; 3. Thumula V, et al. Interstate variations in use of opioids, 4th edition. Workers Compensation Research Institute. Accessed January 10, 2024. https://www.wcrinet.org/reports/interstate-variations-in-use-of-opioids-4th-edition

Regional Field Blocks: Lowering Costs, Driving Efficiency, and Advancing Value-Based Surgical Care

A High-Value Strategy for Enhancing ERAS® Outcomes and Reducing Total Surgical Spend



ESP=Erector Spinae Plane; TAP=Transversus Abdominis Plane; QL=Quadratus Lumborum 1. Gadsden J, et al. Local Reg Anesth. 2015;8:113-117.

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ERAS® Supporting the Migration to the HOPD Setting

With ever-increasing pressure to send patients home sooner, hospitals are faced with the challenge of improving the patient experience while also protecting the bottom line.

Decreases in...

- Opioid use³
- Opioid-related adverse events (ORAEs)³
- Length of hospital stay^{3,4}
- Acute postsurgical pain⁵
- Risk of developing chronic pain⁶
- Postsurgical complications⁷
- Cost per patient^{3,4}

Improvement in...

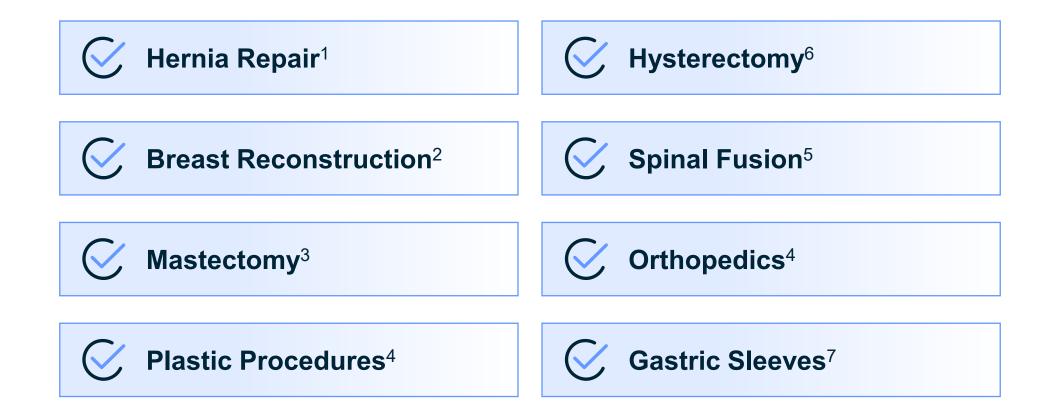
- Efficiency of hospital resources^{3,4}
- Patient satisfaction⁷

Non-opioid liposomal bupiviacaine is proven to be an important part of the multimodal analgesia

HOPD = hospital outpatient department.

*The clinical benefit of the decrease in opioid consumption
was not demonstrated in the pivotal trials.

Strategic Integration of ERAS® in Outpatient Surgery: Targeting High-Volume, High-Cost Episodes of Care



ERAS=enhanced recovery after surgery.

^{1.} Majumder A, et al. J Am Coll Surg. 2016;222(6):1106-1115; 2. Batdorf NJ, et al. J Plast Reconstr Aesthet Surg. 2015;68(3):395-402;

^{3.} Rojas KE, et al. Breast Cancer Res Treat. 2018;171(3):621-626; 4 Jenkins, J. S., & Rogers, T. S. (2023). Journal of Orthopedic Surgery and Research, 18(4), 125-138. https://pmc.ncbi.nlm.nih.gov/articles/PMC10566339/.
5. Wang MY, et al. J Neurosurg Spine. 2017;26:411-418. 6. Baker BW, et al. J Pain Res. 2018;11:3109-3116. 10. Hutchins J, et al. Int J Gynecol Cancer. 2015;25(5):937-941. 7.Lemanu DP, et al. Br J Surg. 2013;100(4):482-489.

Regulatory Compliance and Accreditation: Measuring ERAS® and Non-Opioid Pain Management in DNV and JCAHO Surveys

Ensuring Quality & Compliance: How DNV and JCAHO Evaluate ERAS Protocols and Opioid Minimization



TJC supports incorporating non-opioid pharmacologic strategies to enhance post-surgical pain management in alignment with ERAS protocols.



DNV's accreditation standards address pain management, requiring healthcare organizations to implement effective pain assessment and management protocols.

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QBRs Evaluating Implementation and Reimbursement

Unlocking
Value-Based Success:
ERAS® + NOPAIN
Act Alignment

Complimentary Services ERAS GAP Analysis

Nerve Block
Workshops to Drive
Migration to ASCs

EHR/EMR
NOPAIN J-Code
Evaluation

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Unlocking Value-Based Success: ERAS® + NOPAIN Act Alignment

Driving Financial Performance, Patient Outcomes, & Regulatory Excellence

- ERAS Implementation Results in Proven Reduction in LOS and Complications
- NOPAIN Multimodal Analgesia Increased Reimbursement at ASP +6%
- Reduction in Post-Operative ER Visits / Re-Admission Penalties

Quintuple AIM for Sustainable Health Outcomes

- Improved HCAHPS Scores for Patient Experience
- Drives Lower Long-Term Cost by Minimization of Opioid Utilization
- Standardization Reduces Cost while Increasing Throughput
- Lowers Total Cost of Care (TCC) CMS TEAM
- Minimizes Penalties and Establishes Accreditation

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Driving Performance in a Value-Based Landscape



Financial Benefits

- LOS
- Total cost of care
- Readmission risk & subsequent penalties
- Boost high-revenue beds



Quintuple AIM

- HCAHPS Scores
- Evidenced-based practice
- Reduced care variability
- Highly reliable care
- Efficiency & performance



ERAS® & Field Blocks

- Non-opioid Pain
 Management Strategies
 - Aligned with TEAM Model & NOPAIN
 - Complementary Gap Analysis

21

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THANK YOU