



Michigan Surgical Quality Collaborative





Michael J. Englesbe, MD MSQC Program Director







QI initiative	Year Initiated	2012 Baseline Rate	2016 Baseline Rate	Current Rate (2020)	Target
Reduce Morbidity Rates (all procedures)	2012	11.8%	10.9%	6.26%	9%
Reduce Sepsis Rates (all procedures)	2012	2.63%	2.58%	2.30%	2%
Reduce SSI Rates (all procedures)	2012	3.67%	3.23%	3.05%	2.5%
Reduce Readmissions (all procedures)	2014	6.74%	6.49%	5.61%	5.8%
Reduce ED Visits (all procedures)	2014	9.45%	8.36%	7.09%	7.3%
Reduce LOS (all procedures)	2014	3.87 days	3.18 days	2.89 days*	4.2 days
Reduce Opioid Prescribing (average OME prescribed for all procedures)	2017	N/A	N/A (2017 baseline = 193)	80.7 OME	<180 OME





₽ÆOp	Patient Education - Paines pectrion; Imanagement - Wound care - Postogenthe ambulation and activity guidelines - Return to work	Preoperative Planning/Prehabilitation - To baccocastains: smorth prior to sugery - Weight bas counseling for BM10-40 - Simple, uncomplicated cases: Perform in a mobile to rysetting when the sible - Bible as linguing hernites consider MIS		La Ex/Radio logy La to: -Festing glucos e or Htt4 IC -Simple, uncomplicated cases: No routine imaging -Major/Complex cases: -Moncontrast CTM* Wallania -MRIss afternative if -contraind certion to CT	Glycemic Control +MALESCENEINE for one or more character is tick within the categories below: - Dia tests: Type 1, Type 2, discriptional DM or Pamily His buy or DM - Meta bodic Synd or me: Low HDL, High Trig lycarides or PCOS - Hesten Character is tis: Age 243, BMI280, Blood Press use 250/23 or HTN Preop Rete ms lift. +HOS 16.55%-15.% Consult PCP or endocrinology for ms rage ment of glycemic control +HOS 40.55% or glycose 250 mg/dL Consult PCP or endocrinology for ms ragement of glycemic control consider postponing surgery date
Immed is to PreOp	Preopenative Planning/ Prehabilitation - Tobacco cass stoon: 1 month prior to surgery - Weight loss course ling for 8 Mb=40 - Simple, uncomplicated cases: - Limite norm in a mb white ry setting when testible - Biletters I inguire the raiss consider MS	Preoperative Shower/Bath Shower with sop or antieptit agent on at best the night before surgery Provide productend clear instruction Appropriate N Prophylactic Antibiotics class is consistend clean and mesh not indicated this jor, Complex Cesses: Indicated for repils requiring mesh Cetacoling 2 (VYor patient 5: 120 kg Cetacoling 2 (VYor patient 5: 120 kg Administer 20-00 minutes before incision See AS HP guidelines in resources for other acceptable antibiotic regimens and beta-botam afternatives		Multimode I A na Iges is -Review pain ma regement plan prec phot ing -Acetamino plan 1000mg	Prevention of PO MV Some an all partients for PON V risk Administer a mithematic regimen based risk assessment score 48 k Assess ment file mp i: 48 k Assess ment file mp i: 48 rimmery file k Practors : Permete; Non-smoker; His fory of motions is latest; previous PON V; file procted administration of postoperative opicits Score 1 for eacher pixins be risk thator Of risk file hours one anestern all gratnin prior to end of case 2 risk file hours : Choose one or two agents is lad be low 3 risk file hours : Choose one or two agents is lad be low 4 risk file hours : Apply Scoppolamine patch at least 2 hours before induction, Administer Denamethes one 4-2 mg IV after induction, Ond ansetron 4 mg IV attend of surgery
	Normathermia - Maintain body tempe ature of 96.2°F 36°C	Lung Protective Ventilation -For patients with normal pulmonary function undergoing general ares thesis with endotrached intuitation, at miniter increased fix2 during surgery and after extubation in the immediate post bye miting period. -To optimize this us oxygen delikery, maintain periops rative normothermia and adequate volume replacement.		A ko hol-based Skin Preparation -Use a ko hol-based prep	Euro lemia Thilor infusion of crysta lloids to a void a scess fluid administration
IntraO p	Redosing of Antibiotics Internets: -cefteco in 4 hours Refer to ASHPguidelines in resources	Multimodal A religes to -Administer 27 non-opio id analges is medizations for mights: -1/1 Uid con line -Local wound infiltration with long-acting anesthetic -Till or regional block if not done proop -Till iniquipular and librity opport ric nene blocks for open inguinal hernia repairs		Operative Note Dictation "Type of he risk s "Type of met in tribed "Type of met	Avoidence of Tubes to be continued asses: Consider no foley catheter composition to asses: Consider no foley catheter composition asses: Consider removal of catheter at or case. **Resognative tube: Consider as a propriete for large ventral hernia repairs; lagaroscopic repairs; bowel manipulation or lysis of cathes one. **Restop dimins of large mesh insertion, dimins may reduce serome/fluid accumulation.
Multimodal Ara gesia Follow Michigan OPEN opio is prescribing recommendations: Oxycodone 3mg 10 tablet https://opioiprescribing.inb/ Schedule non-opioid amagesis instead of PRN for first 72 hours: After mating Acatam inophen 630mg with Ibu profen 600mg every 3 hours with 6 hours between dosing of acetam inophen and ibu profen - the opioids for breakthrough pain only		Normothermie in PACU -Meintein temperature 296.2°F BSC in PACU -Utilize forced air warmer Bair hugger PRR	Patient Education - Pain aspectations/ management - Wound are - Activity is pectations/Return to Work		
Post Discharge	Lete nie bereitt ies contectinioting nou tot bor o beigrie dres note		References -Centers for Disease Control and Prevention Guideline for the Prevention of Sungles Site Infection DO17 https://jamentevo.kcom/journes/jamens/		

MSQC Hernia Care Pathway

Hernia Lap Chole Colectomy Hysterectom Whipple

Revised Nov. 2020





New quality metrics needed



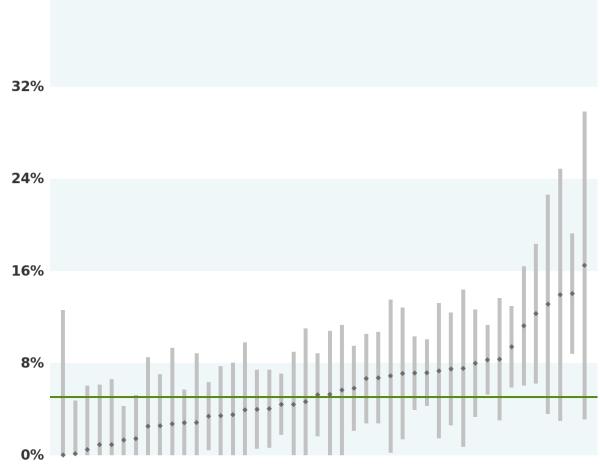




POSITIVE MARGIN FOLLOWING COLORECTAL CANCER SURGERY

Case Mix - Positive Margin Rate Elective

40%



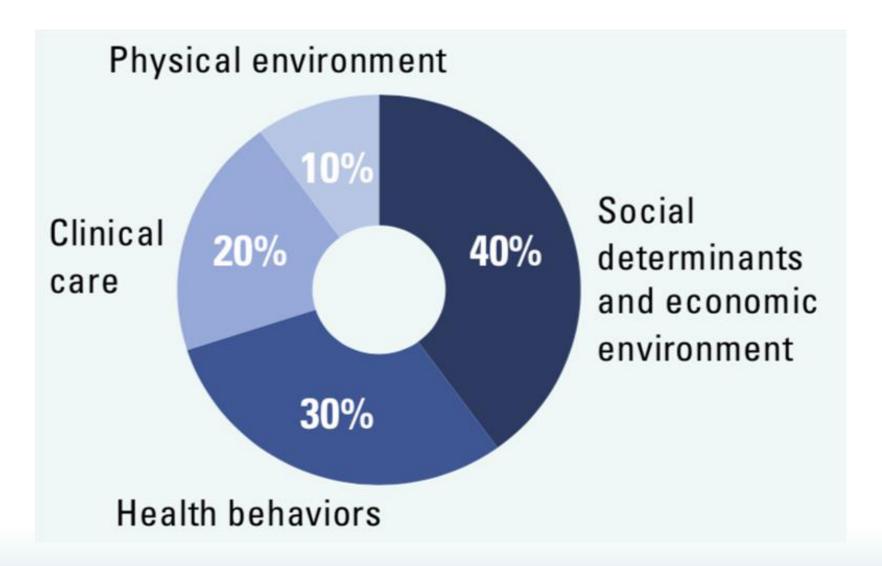
NOTICE: Data and reports/charts are STRICTLY CONFIDENTIAL. Use of these data and reports is restricted solely to each participating medical center FOR INTERNAL QUALITY IMPROVEMENT PURPOSES ONLY. This document contains confidential Patient Safety Work Product (PSWP) created for the purposes of conducting patient safety activities under the Michigan Surgical Quality Collaborative Patient Safety Organization. Unauthorized disclosure or duplication is absolutely prohibited. This document is protected from disclosure pursuant to the provisions of the Patient Safety and Quality Improvement Act of 2005, Pub. L. 109 - 41, 42 U.S.C. 299b-21 to - b-26 (PSQIA) and the Patient Safety Rule, 42 C.F.R. Part 3 (73 FR 70732).

LEGEND ■ Other Hospitals - MSQC - All 195% Confidence Interval



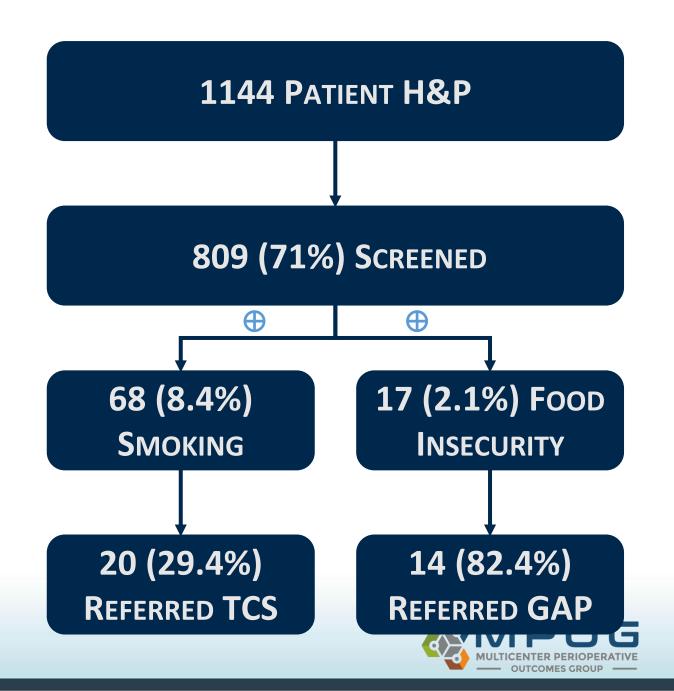


What contributes to health?





PILOT MAR 8 – MAR 26



New quality metrics needed







SUCCESS Study:

Surgical Urinary Catheter Care Enhancement Safety Study

- •Stakeholder Advisory Board meeting at 1pm today Members, please use the Zoom link in your calendar invite
- •We are still looking for volunteers to serve on this board which guides this important project. Please contact Jessica Ameling if you are interested: jameling@umich.edu





Nirav Shah, MD
ASPIRE Quality Improvement Program
Director









SAINT JOSEPH HEALTH SYSTEM A Member of Trinity Health Oakland MERCY HEAITH **Beaumont HEALTH** Farmington Hills Mercy Muskegon \ Mercy St. Mary Grand Rapids \ Grosse Pointe - Royal Oak Troy METRO HEALTH — UNIVERSITY OF MICHIGAN HEALTH ST. MARY MERCY LIVONIA SAINT JOSEPH MERCY HEALTH SYSTEM Holland Hospital HenryFord HEALTH SYST Detroit Macomb West Bloomfield Wyandotte **Beaumont BRONSON** SAINT JOSEPH Henry Ford Dearborn Battle Creek Taylor Kalamazoo HEALTH SYSTEM **ヽ** Trenton Allegiance Health A Member of Trinity Health Wayne **MICHIGAN MEDICINE** Ann Arbor Chelsea Livingston

2021 Michigan Sites

Welcome







Current measure list on our new QI reporting tool

ABX-01-08 Antibiotic Terring for Cesansan Delivery 91% Cases Trenheld a 90%	AXI-01 Acute Kidney Injury 8.2 Cases Developed 5 10%	BP-01 Low MAP Prevention < 55 97 - Cases Threshold + 905	BP-02 Avoiding Monitoring Gaps 96% Cases Thereford 4 90%
BP-03 Low Map Prevention < 65 Codes Thewhold 4 50%	8P-04-08 SBP × 90 in Cosarean Deliveries 95 % Cases Therefold is 90%	CARD-02 Myocardial Infarction 0.3% Cassos Thesebald x SX	CARD-03 Myocardial Infarction, High Risk Patients Cases Developing 5 Vis.
FLUID-01-C Minimizing Colloid Use (Cardiac) 100 In Cases No threshold	FLUID-01-NC Meramizing Colloid Use (Non-Cardiac) 99 % Cases No firewhold	GA-01-08 General Anesthesia During Cesarean Deliveries 7.9 Cases No threshold	GLU-01 High Glucose Treated, Intraop 97% Cases Treehold a 30%
GLU-02 Low Glucose Treated, Intraop 95% Cases Treehold a 90%	GLU-03 High Glucose Treated, Perlop Cases Therefold a 10%	GLU-04 Love Glucose Treated, Perlop 78 / Cases Threshold a 10%	GLU-05 Escalated High Glacose Treated 68% Cases Treehold a 30%
MED-01 Avoiding Medication Overdose 0.3% Cases Threshold a 5%	MORT-01 30 Day Post Op in Hospital Mortality Rate 0.7 Cases No firewhold	NMB-01 Train of Four Taken	NMB-02 Reversal Administrated 99% Cabis Treehold a 90%
PAIN-02 Multimodal Analgesia 84%, Cases Na thresheld	PAIN-01-Peds Multemodal Analgesia, Pedutrics 79 Cases Nei threshold	PONV-01 PONV prophytaxis 86 s Cases Threshold a 50%	PONV grophylads, Pudatrics 93% Cases Theolads 55%
PONV-03 Post Operative Nausea or Viereting 14.9 : Cases Thewhold 4 12%	PONV-03b Post Operative Nausea or Vomiting 5.9 Cases Description 19%	PUL-01 Protective Tidal Volume, 10 mL/sg PBW 99 // Cases Threshold a 50%	PUL-02 Protective Tidal Volume, 8 mL/kg PBW 85% Cases Trenheld 4 50%
PUL-03 Administration of PEEP 99% Cases No thenhald	SUS-01 Low Fresh Gas Flow Cases Thereford a NOS	TDMP-01 Thermoregulation Vigilance - Active Warming 94 - Cases Threshold a 905	TEMP-02 Thermoregulation Monitoring - Core Temperature 91% Cases Thereford 4 90%
TEMP-03 Persperative Hypothemia 2.9 % Cases Threshold s 10%	TEMP-04-Peds Pediatric Temperature Management 65% Cases Threshold a 10%	TOC-01 Intraoperative Transfer of Care 60%. Cases Threshold a 10%.	TOC-02 Postoperative Transfer of Care to PACU 96% Cases Tree/hold a 90%
TOC-03 Postoperative Transfer of Care to ICU N/A Coses Threshold a 30%	TRAN-01 Transhuson Management Vigillance 42 % Cases Threshuld a 100%	TRAN-02 Overtransfusion 13.5 Cases Treaheld x 105	

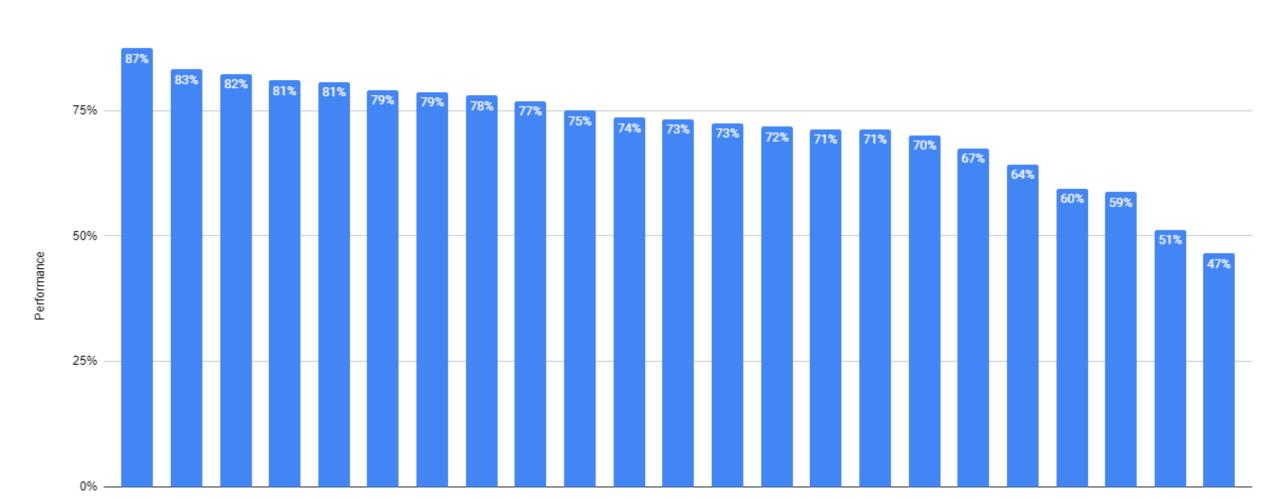
Your challenge is to pick measures that are relevant to your site and providers

Our challenge is to pick measures that are relevant across site and providers

Multimodal Analgesia across MI

100%

Use of non-opioid adjunct (acetaminophen, nsaids, ketamine, dexmedetomidine

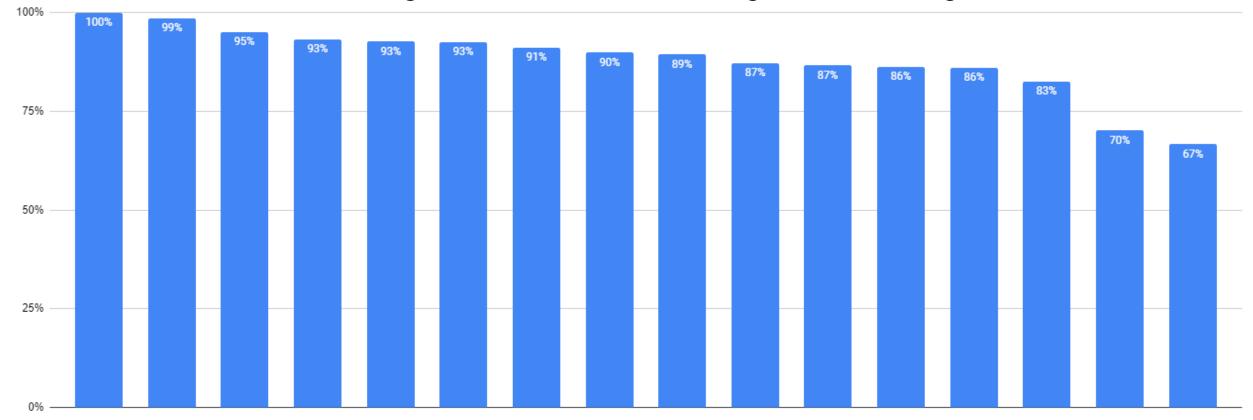


Sustainability across Michigan



Decarbonizing the Operating Room Emily Johnson, BS, MSc, MD Candidate University of Michigan Medical School

Low fresh gas flow across when using inhalational agent



Association of race or ethnicity with QI measure performance

Title of Study or Project:	Is Patient Race or Ethnicity Associated with Adherence to Anesthesiology Quality Metrics?	
Primary Institution:	Michigan Medicine	
Primary Author:	Nirav J Shah	
Co-Authors:	Matthew Wixson, Eric Sun, Michael Mathis; Douglas Colquhoun, Allison Janda, Sachin Kheterpal, Graciela Mentz; Michelle T. Vaughn. Potential collaborators from across MPOG sites.	
Statisticians:	Graciela Mentz, PhD; Michelle T. Vaughn, MPH	
Type of Study:	✓ Retrospective Observational	
IRB Number and Status:	Pending	
Hypotheses/Aims:	Most intraoperative anesthesiology processes of care used in ASPIRE have no clinical reason for variation by race or ethnicity. However, previous literature has demonstrated disparities in the use of specific obstetric and pediatric anesthesiology techniques. We hypothesize that among adult patients undergoing non-cardiac surgery, very few, if any, of the current process of care quality measures in ASPIRE will demonstrate a clinically significant variation associated with race or ethnicity.	

Welcome to RADAR

Our vision is a more diverse and inclusive community in academic anesthesiology.

Whether you're a student thinking about a career in medicine, a leader in the field, or somewhere in between, we invite you to explore our website, connect with us at an event, and join us as we lead transformative change in the field.

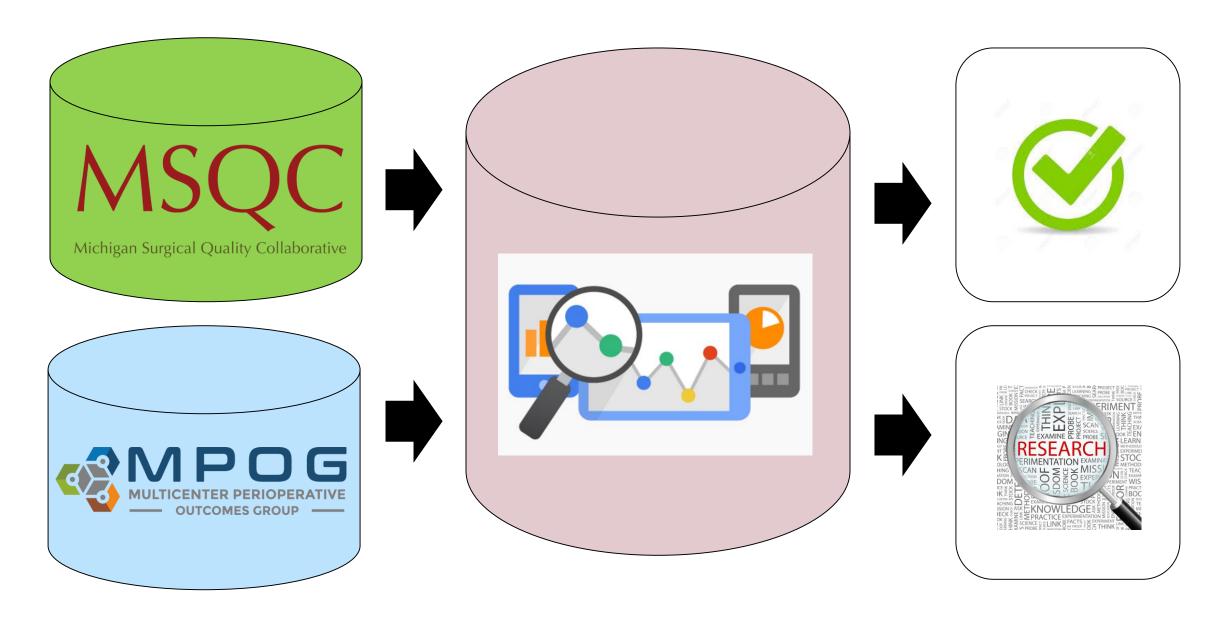








Still working on an automated linked dataset



Thank you

