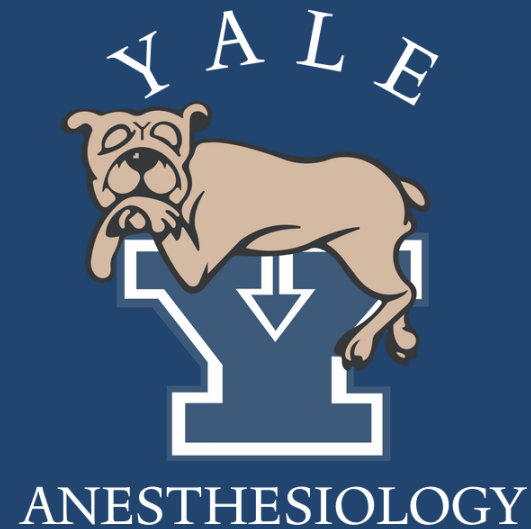


Measuring Quality in Ambulatory Anesthesiology: Challenges and Opportunities

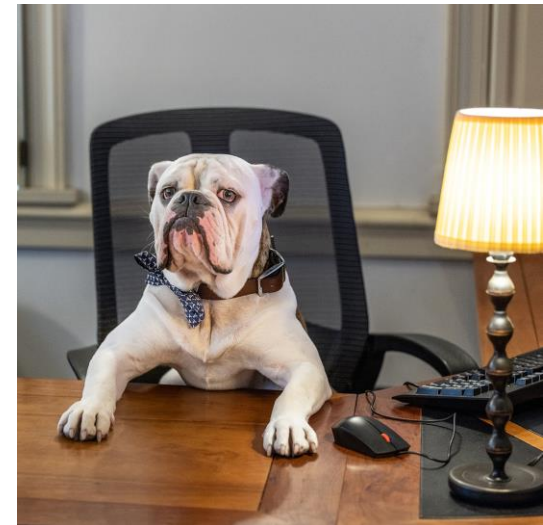
Jaime B. Hyman, MD

Yale SCHOOL OF MEDICINE



Learning Objectives

1. Assess safety in current ambulatory anesthesiology practice
2. Apply recent consensus statements relevant to ambulatory anesthesiology into practice
3. Formulate a patient-centered approach to high-quality perioperative care of the ambulatory surgical patient



History of Ambulatory Anesthesiology

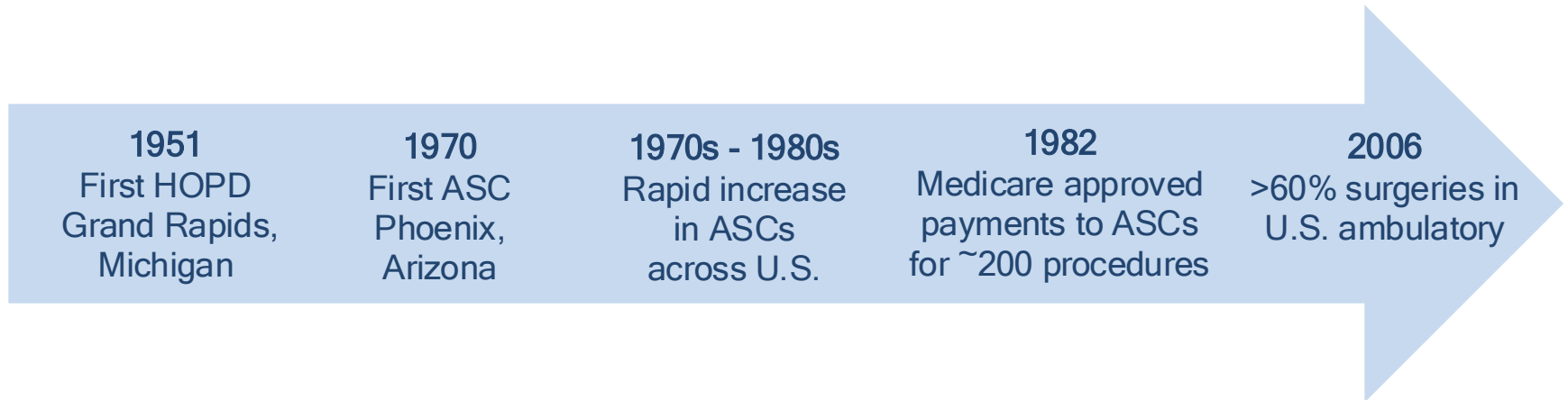
1900s

James Henderson Nicoll
~9000 peds procedures
Glasgow, Scotland

1910s

Ralph Milton Waters
Downtown Anesthesia Clinic
Sioux City, Iowa

History of Ambulatory Anesthesiology





Contents lists available at [ScienceDirect](https://www.sciencedirect.com)

Journal of Clinical Anesthesia

journal homepage: www.elsevier.com/locate/jclinane



Original Contribution

Since the COVID-19 pandemic, approximately 90% of elective anesthetics have been ambulatory: A retrospective analysis of statewide data in Florida from 2010 through 2022[☆]

Richard H. Epstein, M.D. F.A.S.A.^a, Franklin Dexter, M.D., Ph.D., F.A.S.A.^{b,*},
Brenda G. Fahy, M.D. M.C.C.M., F.A.S.A.^c

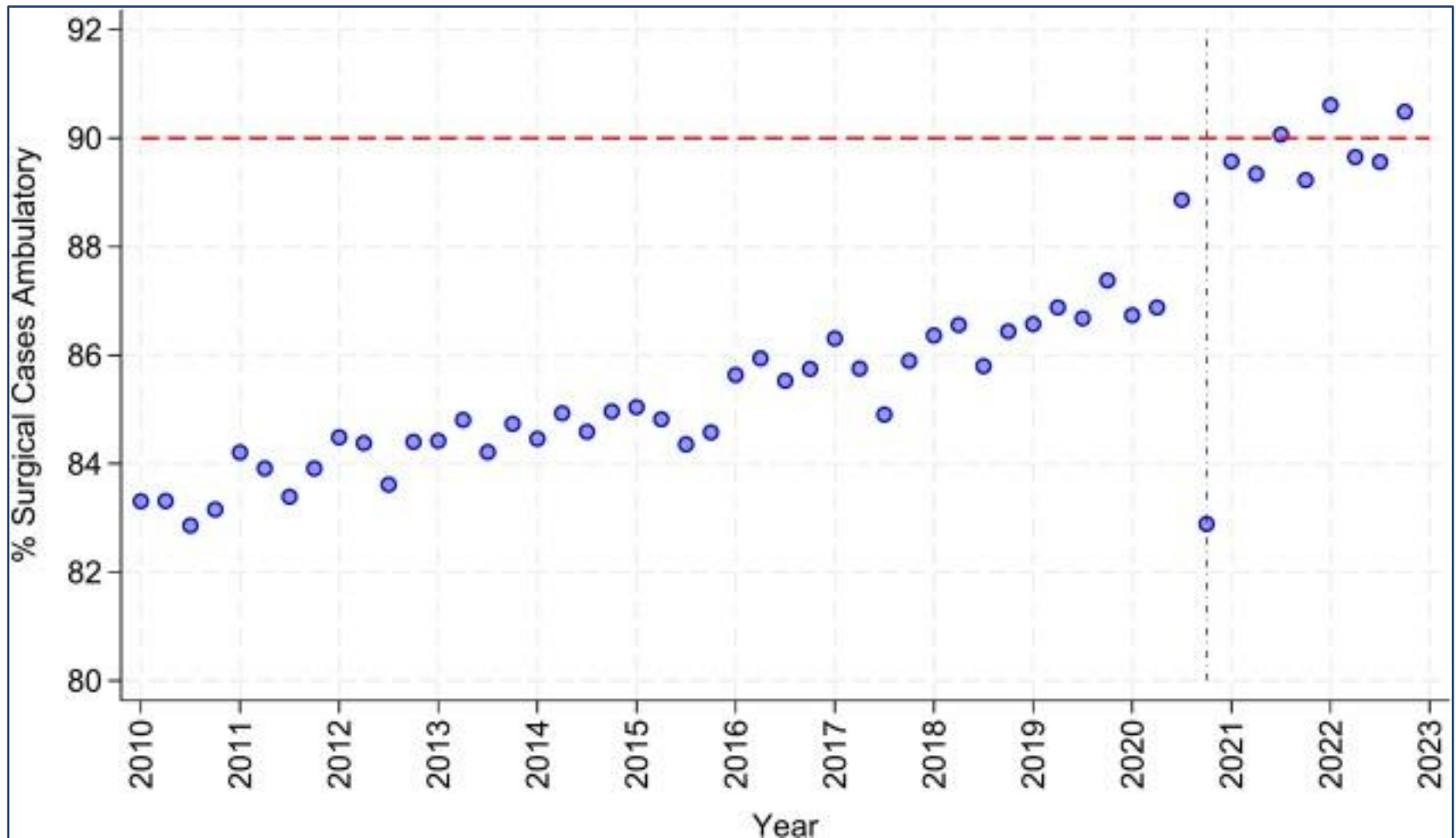
^a Professor of Clinical Anesthesiology, Department of Anesthesiology, Perioperative Medicine & Pain Management, University of Miami, Miller School of Medicine, Miami, FL, USA

^b Division of Management Consulting, Department of Anesthesia, University of Iowa, Iowa City, IA, USA

^c Professor of Anesthesiology, Department of Anesthesiology, University of Florida, Gainesville, FL, USA

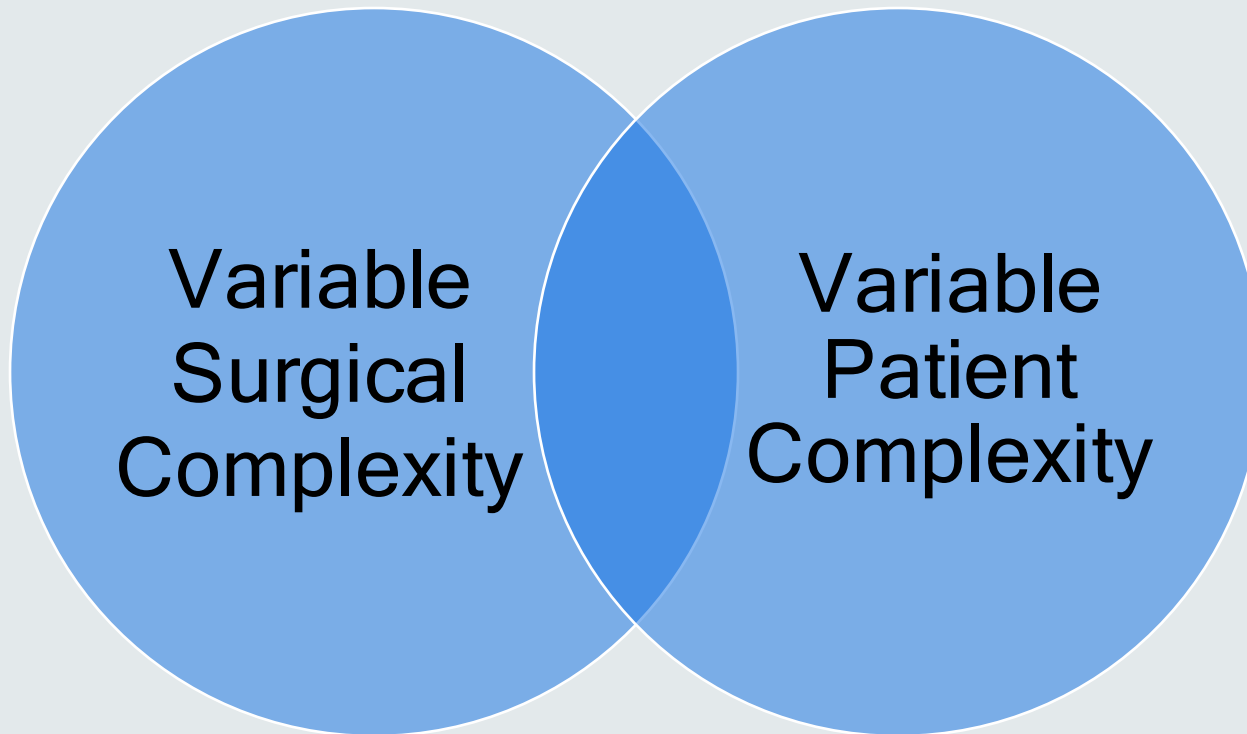


Percentage of Ambulatory Cases



Ambulatory Anesthesiology in 2025:

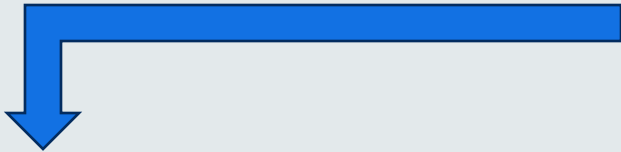
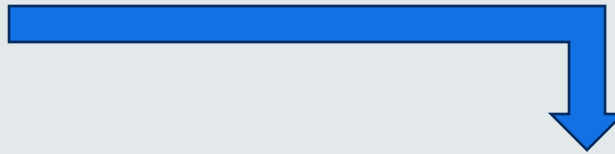
- >4,000 CMS approved procedure codes for ASCs



Remainder of Talk:

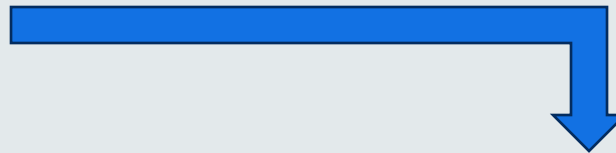


Reflect on safety



Consensus Statements

Beyond Morbidity...



Thoughts for the future

Patient Selection for Day Case-eligible Surgery

Identifying Those at High Risk for Major Complications

Michael R. Mathis, M.D.,* Norah N. Naughton, M.D., M.B.A.,† Amy M. Shanks, M.S.,‡
Robert E. Freundlich, M.D., M.S.,* Christopher J. Pannucci, M.D., M.S.,§ YiJia Chu, M.D.,*
Jason Haus, M.D.,* Michelle Morris, M.S.,‡ Sachin Kheterpal, M.D., M.B.A.||

- NSQIP database **2005-2010**; N = 244,397
- 100 most used CPT codes for outpatient surgery claims
- General or neuraxial anesthesia
- Primary outcome: 72h major morbidity/ mortality
- Occurred in 0.095%

Table 1. Most Commonly Performed (>1,000) Surgical Cases by CPT Code within Study Population

Primary CPT Code	Procedures Performed (% of Population)	Description	Frequency of Perioperative Mortality <72 h	Frequency of Perioperative Morbidity <72 h
47562	43,952 (18.0)	Laparoscopic cholecystectomy	5	67
49505	42,082 (17.2)	Inguinal hernia repair	4	26
19125	20,343 (8.3)	Excision of breast lesion	1	7
49585	20,063 (8.2)	Umbilical hernia repair	0	12
19301	17,811 (7.3)	Partial mastectomy	0	13
19120	17,692 (7.2)	Removal of breast lesion	0	7
49560	13,046 (5.3)	Abdominal wall hernia repair	3	21
49650	12,857 (5.3)	Femoral/inguinal hernia repair	0	14
47563	12,300 (5.0)	Laparoscopic cholecystectomy	1	11
43770	7,498 (3.1)	Laparoscopic gastric band placement	0	6
29881	5,422 (2.2)	Knee arthroscopy with meniscectomy	0	2
19302	4,051 (1.7)	Partial mastectomy with under-arm lymph node removal	0	2
57288	3,145 (1.3)	Repair of bladder defect	0	1
42826	2,691 (1.1)	Tonsillectomy over age 12	1	3
19318	2,222 (0.9)	Reduction of large breast	0	5
29826	2,137 (0.9)	Shoulder arthroscopy, bone shaving	1	1
29827	1,930 (0.8)	Shoulder arthroscopy, rotator cuff repair	0	0
29880	1,877 (0.8)	Knee arthroscopy with meniscectomy	0	0
29888	1,825 (0.7)	Knee arthroscopy with anterior cruciate ligament repair	0	0
63030	1,639 (0.7)	Low back disk repair	0	3
52648	1,451 (0.6)	Laser vaporization of prostate	0	3
52234	1,289 (0.5)	Cystoscopy, removal of small tumor	1	1
52235	1,163 (0.5)	Cystoscopy, removal of medium tumor	1	3



Outpatient surgery benchmarks and practice variation patterns: case controlled study

Chi Zhang, MD^{a,b}, Omair Shariq, MBBS, MS^{b,c}, Katherine Bews, MS^b, Katherine Poruk, MD^f, Mary M. Mrdutt, MD, MS^e, Trenton Foster, MD^d, David A. Etzioni, MD^a, Elizabeth B. Habermann, PhD, MPH^{b,c}, Cornelius Thiels, DO, MBA^{c,*}

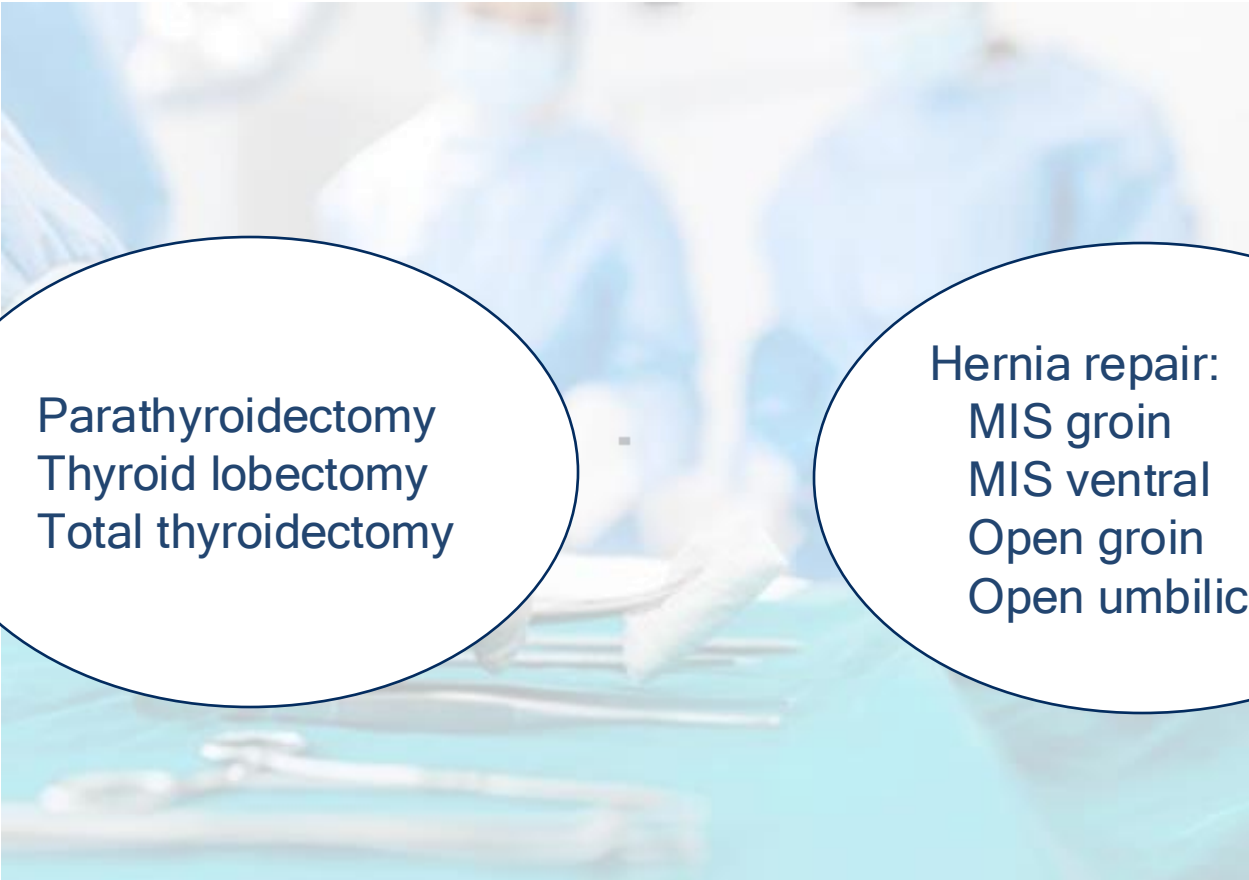
- NSQIP database 2016 - 2020; 14 procedure types
- N = 848,468
 - Inpatient 37%
 - Outpatient 63%
- 30d adverse events:
 - Outpatients: 2 - 9%
 - Inpatients: 3 - 13%
 - Outpatient vs inpatient:
 - aOR 0.38 (95% CI: 0.37-0.39)



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Same Day Discharge Surgeries



Parathyroidectomy
Thyroid lobectomy
Total thyroidectomy

Hernia repair:
MIS groin
MIS ventral
Open groin
Open umbilical



Outpatient surgery benchmarks and practice variation patterns: case controlled study

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Same Day Discharge Surgeries

Adverse Events:

2%
2%
2%

Parathyroidectomy
Thyroid lobectomy
Total thyroidectomy

2%
3%
2%
3%

Hernia repair:
MIS groin
MIS ventral
Open groin
Open umbilical



Outpatient surgery benchmarks and practice variation patterns: case controlled study

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Same Day Discharge Surgeries

Breast
Lumpectomy
&
Mastectomy

Minimally
Invasive
Adrenalectomy

Minimally
Invasive
Cholecystectomy



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Same Day Discharge Surgeries

Adverse Events:

4%

Breast Lumpectomy & Mastectomy

6%

4%

Minimally Invasive Adrenalectomy

3%

Minimally Invasive Cholecystectomy



Outpatient surgery benchmarks and practice variation patterns: case controlled study

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Next Day Discharge Surgeries

Minimally Invasive Colectomy-Benign

Minimally Invasive Fundoplication

Minimally Invasive Colectomy-Malignancy



Outpatient surgery benchmarks and practice variation patterns: case controlled study

Chi Zhang, MD^{a,b}, Omair Shariq, MBBS, MS^{b,c}, Katherine Bews, MS^b, Katherine Poruk, MD^f, Mary M. Mrdutt, MD, MS^e, Trenton Foster, MD^d, David A. Etzioni, MD^a, Elizabeth B. Habermann, PhD, MPH^{b,c}, Cornelius Thiels, DO, MBA^{c,*}

Next Day
Discharge
Surgeries

Adverse Events:

9%

Minimally
Invasive
Colectomy-
Benign

4%

Minimally
Invasive
Fundoplication

8%

Minimally
Invasive
Colectomy-
Malignancy

Consensus Statements to support our Practice...

Preoperative Care for Cataract Surgery: The Society for Ambulatory Anesthesia Position Statement

BobbieJean Sweitzer, MD, FACP, SAMBA-F, FASA,* Niraja Rajan, MD,† Dawn Schell, MD,‡
Steven Gayer, MD, MBA,§ Stan Eckert, MD,|| and Girish P. Joshi, MBBS, MD, FFARCSI¶

Cataract surgeries are among the most common procedures requiring anesthesia care. Cataracts are a common cause of blindness. Surgery remains the only effective treatment of cataracts. Patients are often elderly with comorbidities. Most cataracts can be treated using topical or regional anesthesia with minimum or no sedation. There is minimal risk of adverse outcomes. There is general consensus that cataract surgery is extremely low risk, and the benefits of sight restoration and preservation are enormous. We present the Society for Ambulatory Anesthesia (SAMBA) position statement for preoperative care for cataract surgery. (Anesth Analg 2021;133:1431–6)

GLOSSARY

ACC/AHA = American College of Cardiology and American Heart Association; **ASA-PS** = American Society of Anesthesiologists physical status; **ASC** = ambulatory surgery center; **CIED** = cardiac implantable electronic device; **CMS** = Centers for Medicare and Medicaid Services; **DAPT** = dual antiplatelet therapy; **ICD** = implantable cardioverter defibrillator; **POQI** = Perioperative Quality Initiative; **SAMBA** = Society for Ambulatory Anesthesia; **TIA** = transient ischemic attacks

Preoperative Care for Cataract Surgery: The Society for Ambulatory Anesthesia Position Statement

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Preoperative for Ambulatory

BobbieJean Sweitzer
Steven Gayer, MD,

SPECIAL ARTICLE

Society ent

MD,†
CSI‡

Cataract
Cataract
cataract
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GLOSSARY
ACC/AHA
Society of
implant
antiplate
Initiative;

= American
= cardiac
APT = dual
ive Quality
s



Cataract surgery *should likely* be delayed to allow optimization:

- MI within previous 30-60 days
- Recent PCI (without stenting 14 days, with stents 30 days)
- Significant arrhythmias with hemodynamic compromise (VT, afib/RVR)
- Decompensated CHF
- Acute pulmonary conditions (active pneumonia, URI, PE in past 3 months)
- Acute neurologic conditions (AMS, CVA within 3 months, uncontrolled epilepsy, increased ICP)
- DKA or hyperosmolar hyperglycemic nonketotic syndrome
- Malignant hypertension with **acute end-organ damage in at least 3 target organs**

SAMBA Consensus Statement on Perioperative Blood Glucose Management

SAMBA Consensus Statement on Perioperative Blood Glucose Management

Table 1. Summary Recommendations for Perioperative Blood Glucose Management in Adult Patients Undergoing Ambulatory Surgery

Recommendation	Strength	Grade of evidence	Change from 2010
We recommend procedure postponement in patients with hyperglycemia associated with symptoms suggestive of complications such as <u>diabetic</u> ketoacidosis or hyperglycemic hyperosmolar nonketotic syndrome	Strong	Moderate	Unchanged
We do not recommend postponing ambulatory procedure based on A1C levels	Strong	Moderate	New
We recommend proceeding with the planned procedure in patients presenting with hyperglycemia (BG >180 mg/dL, 10 mmol/L) in the absence of DKA or HHNS	Strong	Moderate	Unchanged
We recommend target blood glucose concentrations of 180–250 mg/dL, based on patient and procedure characteristics	Strong	Moderate	New
We recommend preprocedure hydration with water in lieu of carbohydrate loading in diabetes patients	Strong	Moderate	New
We recommend the use of subcutaneous insulin administration for treatment of hyperglycemia	Strong	Moderate	Unchanged
We recommend the use of point-of-care glucose meters to confirm accuracy of continuous glucose monitors and automated insulin dosing systems in periprocedure blood glucose management	Strong	Moderate	New
We suggest continuing a patient's continuous subcutaneous insulin infusion for procedures under 2 h if the device can be placed outside of the surgical field and can be easily visualized and accessed	Conditional	Low	New
We suggest that significant periprocedure hyperglycemia (blood glucose concentrations >250 mg/dL) in insulin naïve patients may be treated with insulin based on patient and procedure characteristics	Conditional	Low	New
We recommend the use of low-dose (4 mg) dexamethasone in patients with diabetes	Strong	Moderate	Unchanged
We recommend each facility develop and implement a blood glucose management protocol	Strong	Moderate	New

SAMBA Consensus Statement on Perioperative Blood Glucose Management

Table 1. Summary Recommendations for Perioperative Blood Glucose Management in Adult Patients Undergoing Ambulatory Surgery

Recommendation	Strength	Grade of evidence	Change from 2010
We recommend procedure postponement in patients with hyperglycemia associated with symptoms suggestive of complications such as diabetic ketoacidosis or hyperglycemic hyperosmolar nonketotic syndrome	Strong	Moderate	Unchanged
<u>We do not recommend postponing ambulatory procedure based on A1C levels</u>	Strong	Moderate	New
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We recommend the use of low-dose (4 mg) dexamethasone in patients with diabetes	Strong	Moderate	Unchanged
We recommend each facility develop and implement a blood glucose management protocol	Strong	Moderate	New

Moving Beyond Morbidity...

SPECIAL ARTICLE

Preoperative Medical Testing in Medicare Patients Undergoing Cataract Surgery

Catherine L. Chen, M.D., M.P.H., Grace A. Lin, M.D., M.A.S.,
Naomi S. Bardach, M.D., M.A.S., Theodore H. Clay, M.S.,
W. John Boscardin, Ph.D., Adrian W. Gelb, M.B., Ch.B.,
Mervyn Maze, M.B., Ch.B., Michael A. Gropper, M.D., Ph.D.,
and R. Adams Dudley, M.D., M.B.A.

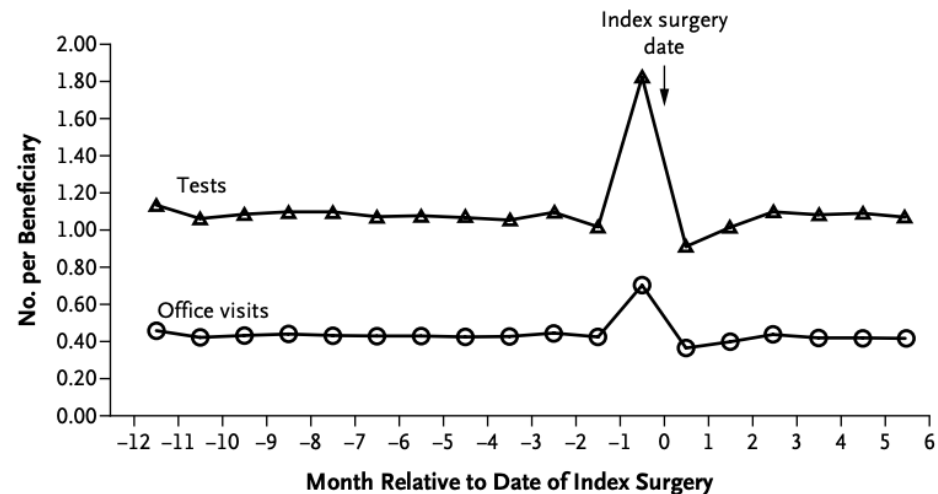
- Medicare beneficiaries undergoing cataract surgery in 2011 (N = 440,857)

Month before surgery:

- 53% had at least one preop test

Compared to preceding 11 months:

- Expenditures on testing \$4.8m higher
- Expenditures on visits \$12.4m higher



Preoperative Medical Testing and Falls in Medicare Beneficiaries Awaiting Cataract Surgery

Catherine L. Chen, MD, MPH,^{1,2,3} Stephen D. McLeod, MD,^{4,5} Thomas M. Lietman, MD,^{4,5} Hui Shen, MS,^{6,7} W. John Boscardin, PhD,^{8,9} Han-Ying Peggy Chang, MD,¹⁰ Mary A. Whooley, MD,^{6,7,8,9} Adrian W. Gelb, MbChb,³ Sei J. Lee, MD, MAS,^{6,8} R. Adams Dudley, MD, MBA^{11,12}

2006-2014 Medicare claims

Biometry



Cataract Surgery

Preoperative Medical Testing and Falls in Medicare Beneficiaries Awaiting Cataract Surgery

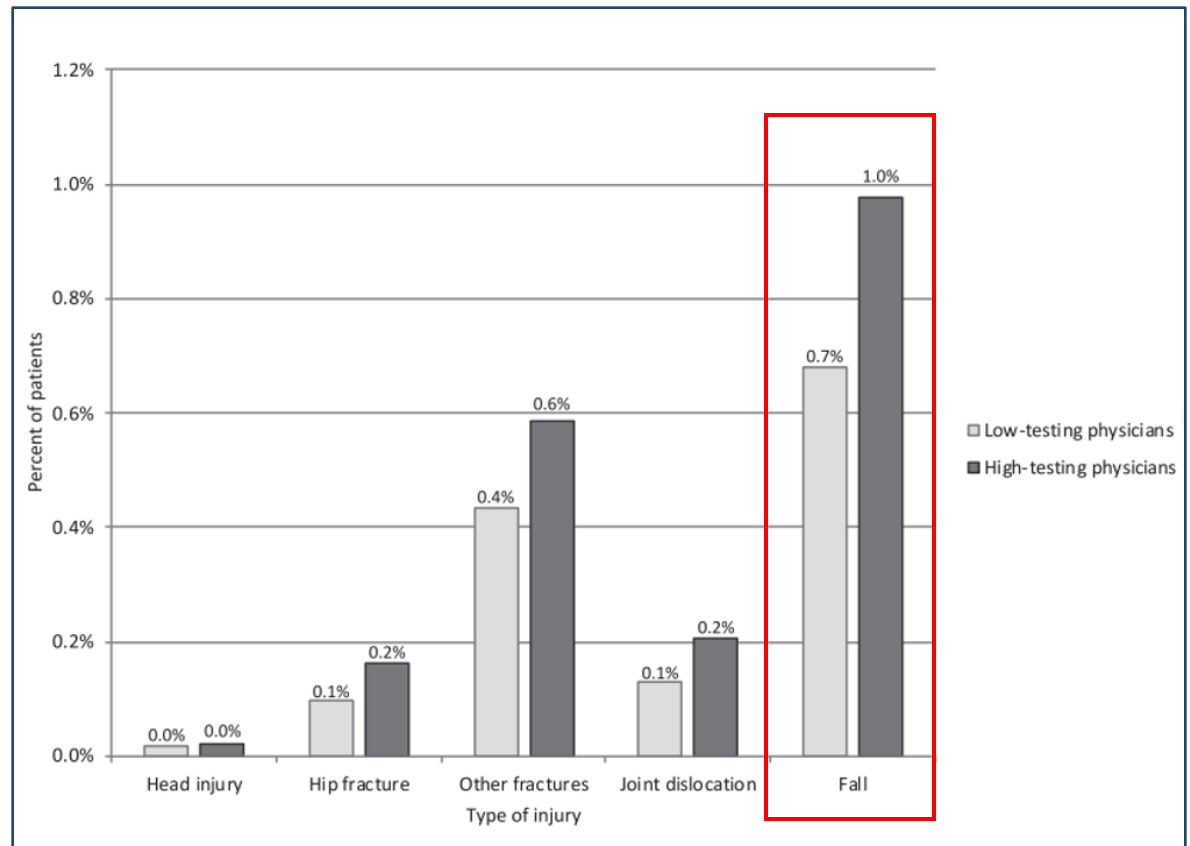
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2006-2014 Medicare claims

Biometry



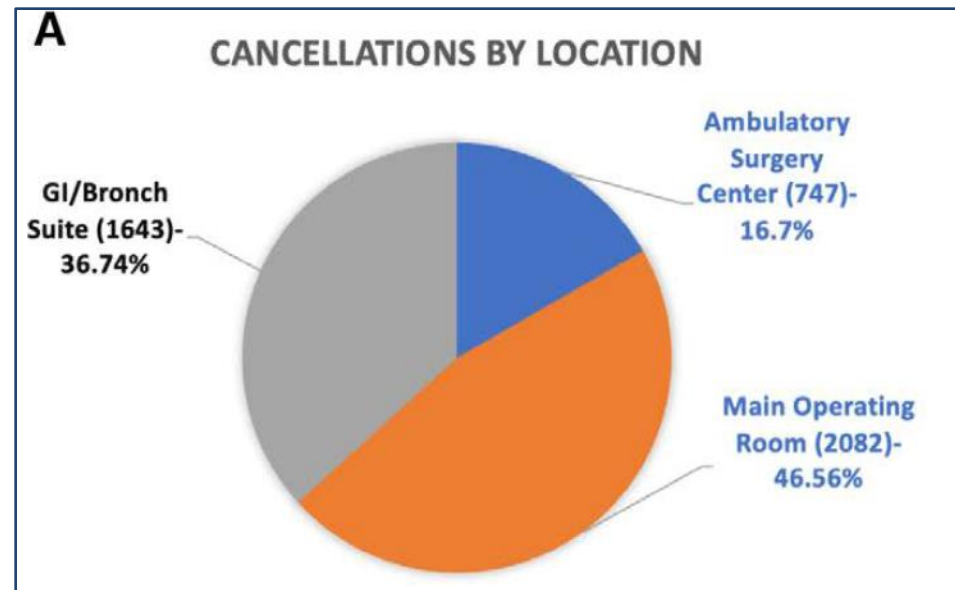
Cataract Surgery



Outcomes and Disposition of Patients After Case Cancellation on Day of Surgery for Reasons Attributed to Medical or Anesthetic Care: A Retrospective Cohort Analysis

George L. Tewfik, MD, Carlos Rodriguez-Aponte, MD, Kathy Zhang, BA, Bishoy Ezzat, BS, Pooja Suri, BS, and Faraz Chaudhry, MD

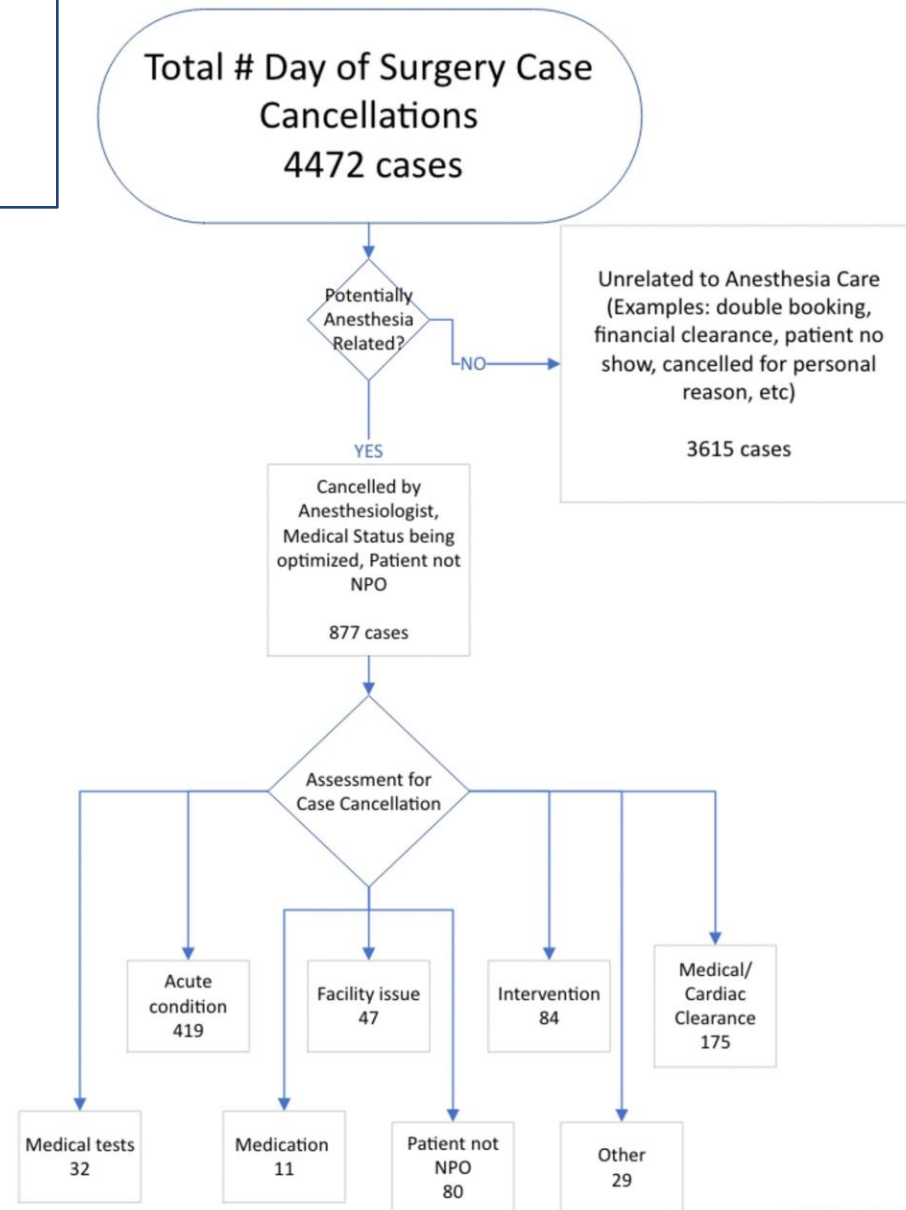
- Single-center retrospective review of cases cancelled on the day of surgery



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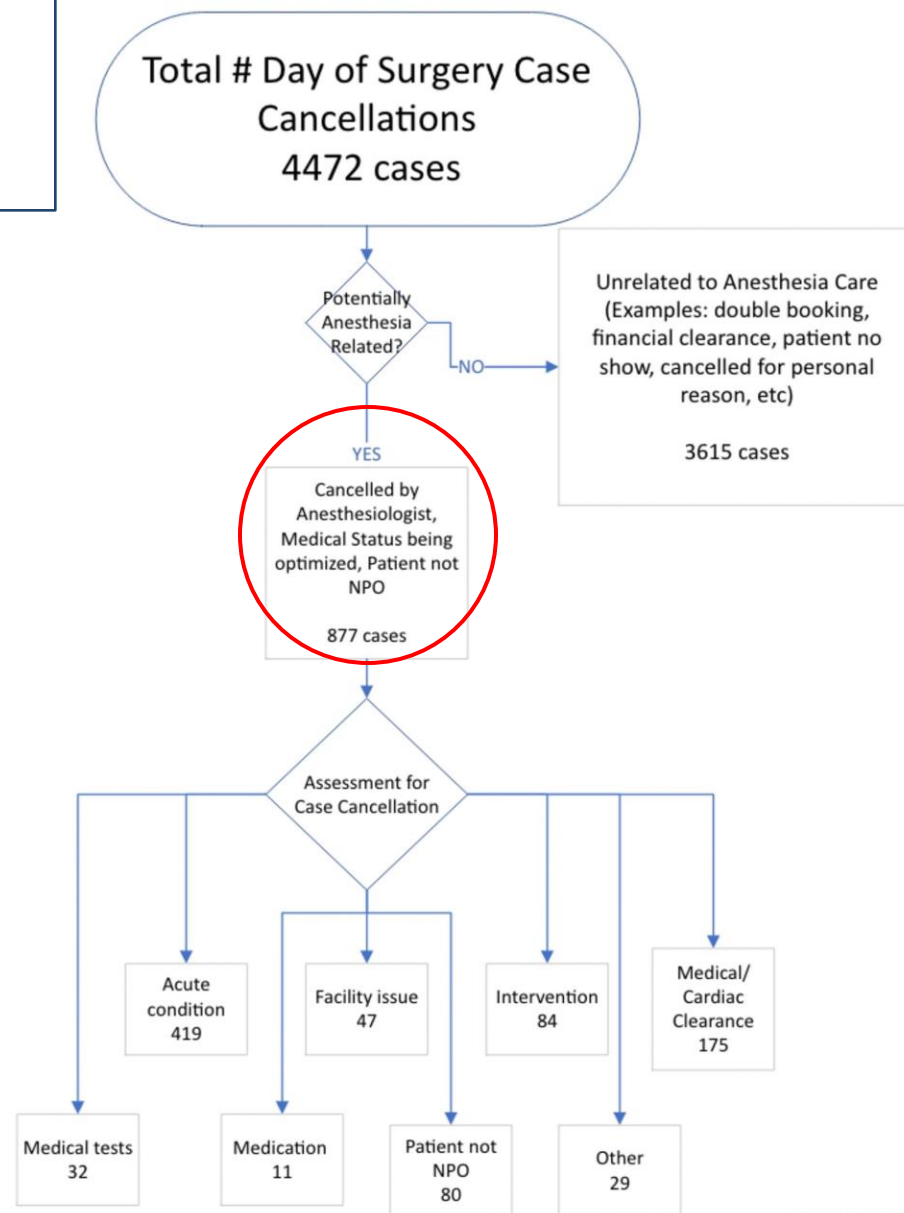
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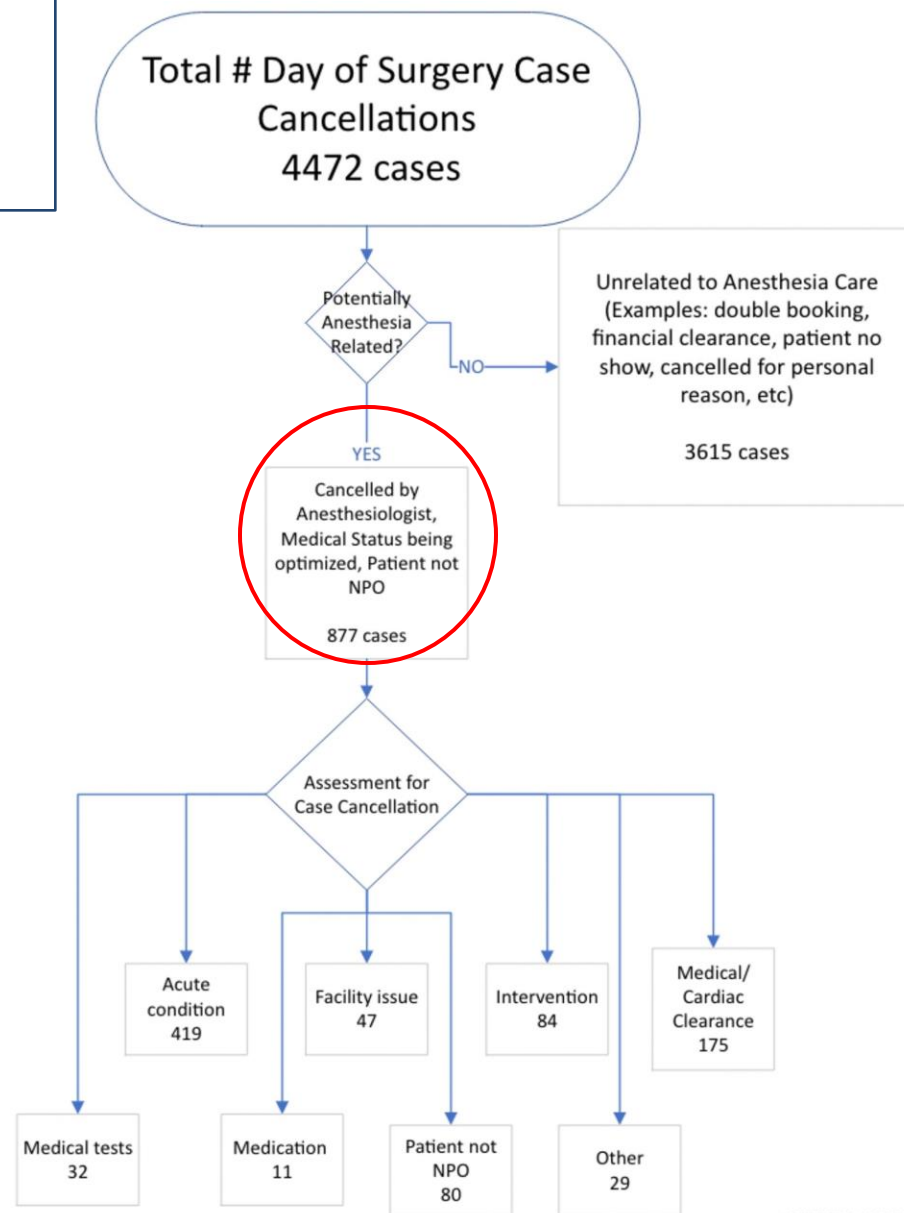
- Single-center retrospective review of cases cancelled on the day of surgery
- Cases cancelled for medical reasons (n = 877)



Outcomes and Disposition of Patients After Case Cancellation on Day of Surgery for Reasons Attributed to Medical or Anesthetic Care: A Retrospective Cohort Analysis

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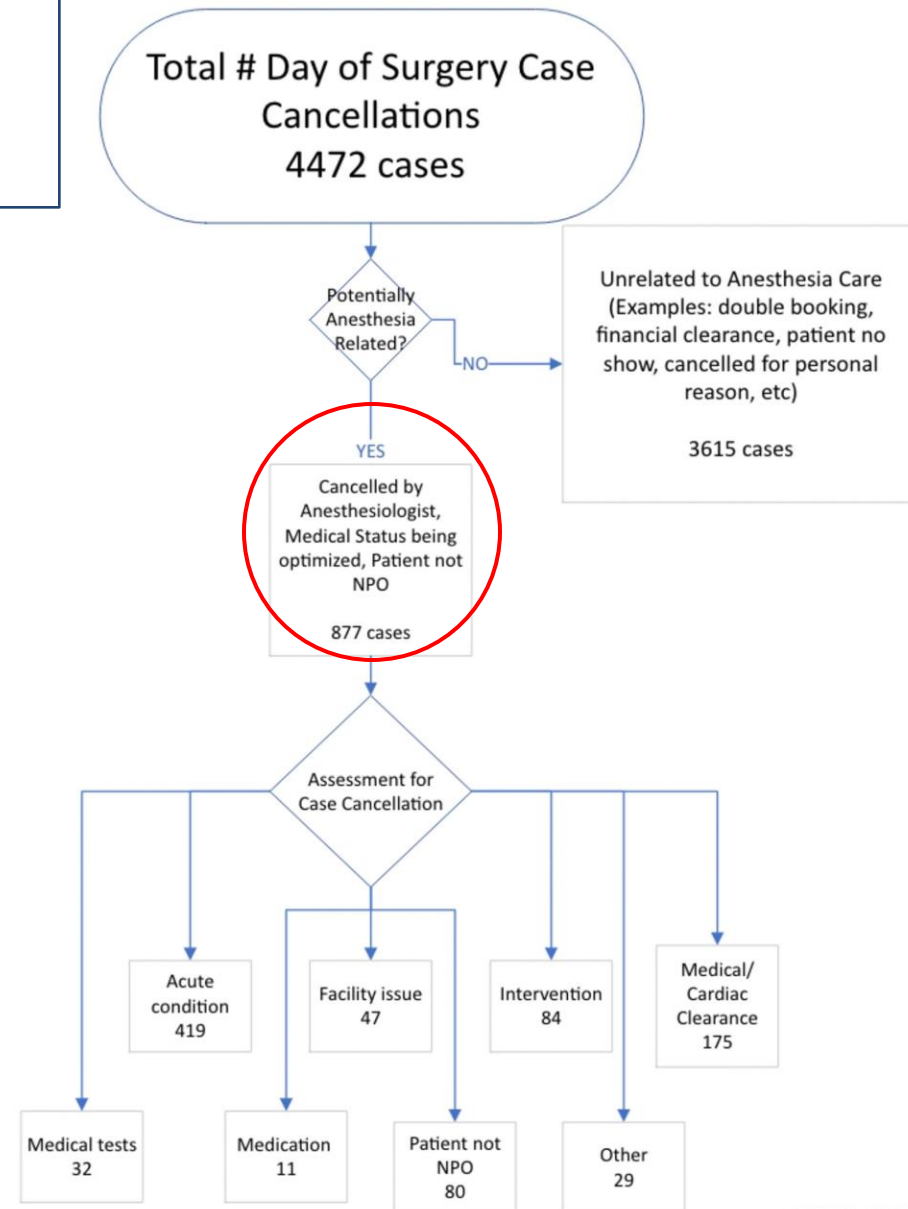
- Single-center retrospective review of cases cancelled on the day of surgery
- Cases cancelled for medical reasons (n = 877)
- 72% rescheduled



Outcomes and Disposition of Patients After Case Cancellation on Day of Surgery for Reasons Attributed to Medical or Anesthetic Care: A Retrospective Cohort Analysis

George L. Tewfik, MD, Carlos Rodriguez-Aponte, MD, Kathy Zhang, BA, Bishoy Ezzat, BS, Pooja Suri, BS, and Faraz Chaudhry, MD

- Single-center retrospective review of cases cancelled on the day of surgery
- Cases cancelled for medical reasons (n = 877)
 - 72% rescheduled
 - 83% of these had underlying issue resolved



Outcomes and Disposition of Patients After Case Cancellation on Day of Surgery for Reasons Attributed to Medical or Anesthetic Care: A Retrospective Cohort Analysis

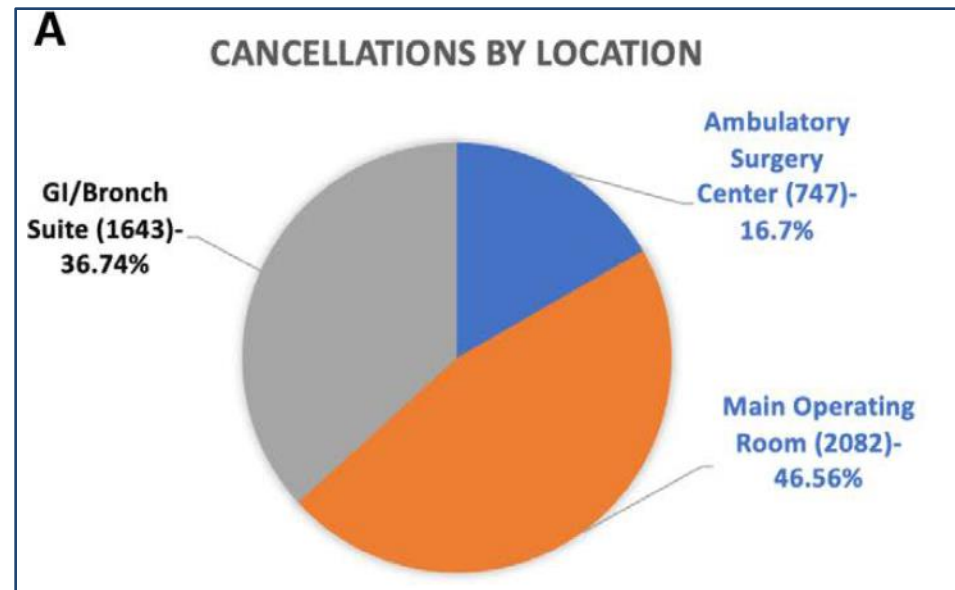
George L. Tewfik, MD, Carlos Rodriguez-Aponte, MD, Kathy Zhang, BA, Bishoy Ezzat, BS, Pooja Suri, BS, and Faraz Chaudhry, MD

- Reason for cancellation *not* addressed in 102 rescheduled cases

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George L. Tewfik, MD, Carlos Rodriguez-Aponte, MD, Kathy Zhang, BA, Bishoy Ezzat, BS, Pooja Suri, BS, and Faraz Chaudhry, MD

- Reason for cancellation *not* addressed in 102 rescheduled cases
- Several cases planned to be moved from ASC/GI suite to main OR ultimately performed at ASC/GI suite



Case Presentation

Case Presentation



Acute Pain after Ambulatory Surgery

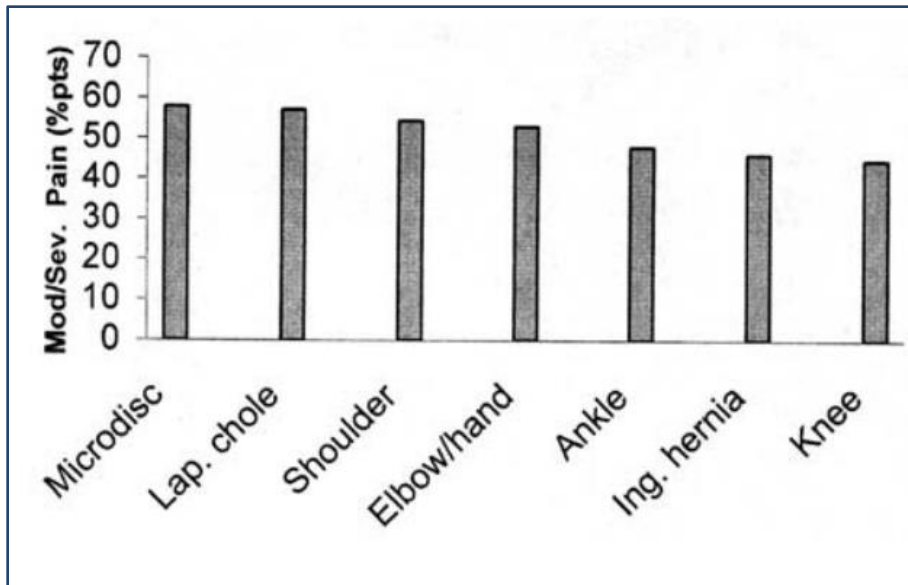
- Telephone survey 5,703 patients 24h after surgery

Acute Pain after Ambulatory Surgery

- Telephone survey 5,703 patients 24h after surgery
- 30% reported moderate/severe pain

Acute Pain after Ambulatory Surgery

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REPORTS OF ORIGINAL INVESTIGATIONS

**Patient and caregiver experience following ambulatory surgery:
qualitative analysis in a cohort of patients 65 yr and older**
**Expérience des patients et aidants naturels après chirurgie
ambulatoire: analyse qualitative d'une cohorte de patients âgés de
65 ans et plus**

Gregory L. Bryson, MD · Chris Mercer, MD ·
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- There were 105 patient-caregiver dyads:
 - 90 patients & 64 caregivers offered at least one response



REPORTS OF ORIGINAL INVESTIGATIONS

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65 ans et plus**

Gregory L. Bryson, MD · Chris Mercer, MD ·
Lara Varpio, PhD

- *“The impact of physical disability on home life was vividly described”*
- *“Patients and caregivers ardently described real challenges during convalescence”*
- *“Paramount for participants was the need for clear communication and a commitment to ongoing support following discharge”*

Quality in ambulatory anesthesiology



Quality in ambulatory anesthesiology

**Reducing waste and
cancellations in less
complex procedures**

A close-up, high-resolution photograph of a human eye, showing the iris, pupil, and eyelashes. The image is slightly blurred and has a warm, golden-brown color cast, serving as a background for the text.

Quality in ambulatory anesthesiology

**Reducing waste and
cancellations in less
complex procedures**

**Reducing adverse events
and improving post-
discharge recovery in
more complicated
procedures**



Ambulatory Surgical Center Quality Reporting (ASCQR) and Hospital Outpatient Quality Reporting Program (Hospital OQR)

- **ASC-21 and OP-42: THA/TKA PRO-Based Performance Measures**
- PRO data collected
 - HOOS, JR for THA recipients and KOOS, JR for TKA recipients
 - Success defined as improvement from pre-op
- Risk-adjustment:
 - PROMIS Global (mental health subscale items) or VR-12 (mental health subscale items)
 - Single Item Literacy Screener (SILS2) questionnaire
- Voluntary reporting started CY2025
- Mandatory reporting beginning CY2028

PAIN

An updated systematic review and consensus definitions for standardised endpoints in perioperative medicine: patient comfort and pain relief

Paul S. Myles^{1,*}, Sophie Wallace¹, Oliver Boney², Mari Botti³, Frances Chung⁴, Allan M. Cyna⁵, Tong J. Gan⁶, Michael P. W. Grocott⁷, Mark P. Jensen⁸, Henrik Kehlet⁹, Andrea Kurz¹⁰, Maxime Leger¹¹, Ulrica Nilsson¹², Phillip Peyton¹³, Daniel I. Sessler¹⁴, Martin R. Tramèr¹⁵, Christopher L. Wu¹⁶ the Alfred Health Patient Experience and Consumer Engagement Group[†]

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Endpoints:

- Supplementary analgesic use
- Subjective analgesic effectiveness
- Pain intensity (at rest, during movement, at 12, 24, 72 h)
- PONV at 0–6 h, 6–24 h, overall
- PDNV
- Severe PONV
- Time to mobilization
- Quality of Recovery (QoR-15)

CLINICAL INVESTIGATION

Quality of patient-centred recovery trajectories after different types of surgery: a prospective cohort study

Paul S. Myles^{1,2,*} , Belinda Phillips³, Sarah Robertshaw¹, Hazel Haughney¹, Timothy T. Houle⁴, Rebecca Rowland¹ , Damian Johnson¹ and Sophie Wallace^{1,2} 

Upper endoscopy

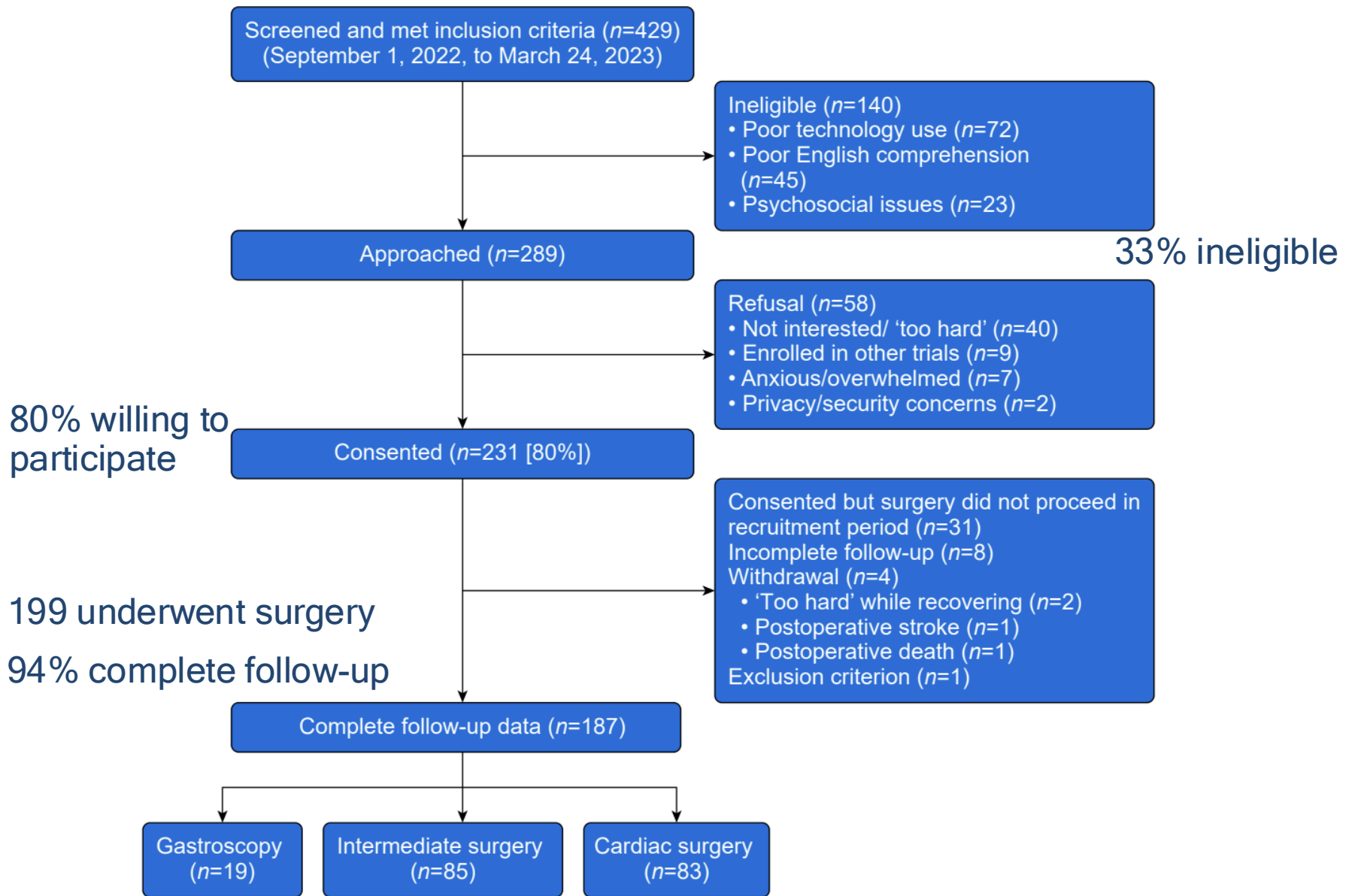
Knee, hip, shoulder
arthroplasty,
single-level spine
surgery,
laparoscopic
cholecystectomy

Cardiac surgery



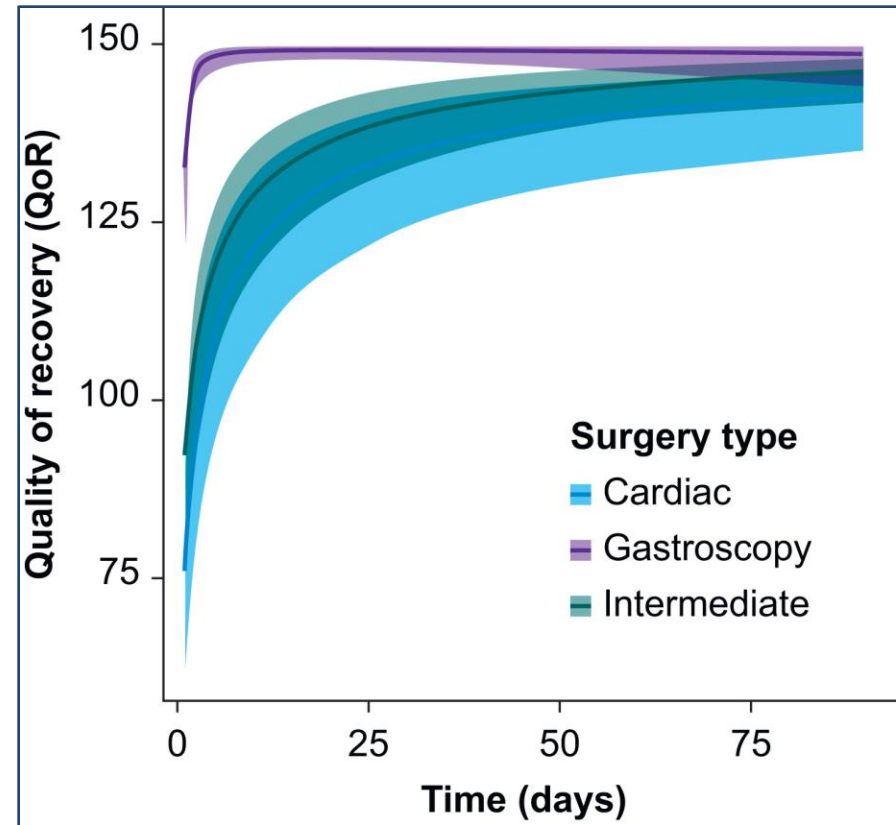
QoR-15

- Patient support, Comfort, Emotions, Physical Independence, and Pain



Nadir QoR-15 median (IQR):

- EGD= 128 (93-145)
- Intermediate surgery= 87 (70-102)
- Cardiac surgery= 70 (60-81)



Conclusions:

Conclusions:

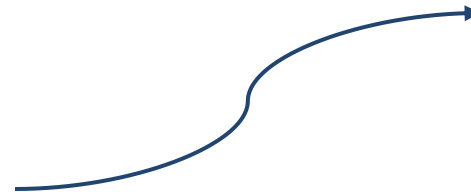
1. A patient-centered approach to quality in ambulatory anesthesiology includes reducing waste and delays for less complex procedures.

Conclusions:

1. A patient-centered approach to quality in ambulatory anesthesiology includes reducing waste and delays for less complex procedures.
2. Minimizing adverse events remains important for increasingly complex ambulatory surgery.

Conclusions:

1. A patient-centered approach to quality in ambulatory anesthesia includes reducing waste and delays for less complex procedures.
2. Minimizing adverse events remains important for increasingly complex ambulatory surgery.
3. Patient-reported recovery metrics represent the standard we should ideally aspire to in measuring quality improvement in ambulatory anesthesiology.



Thank you!
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