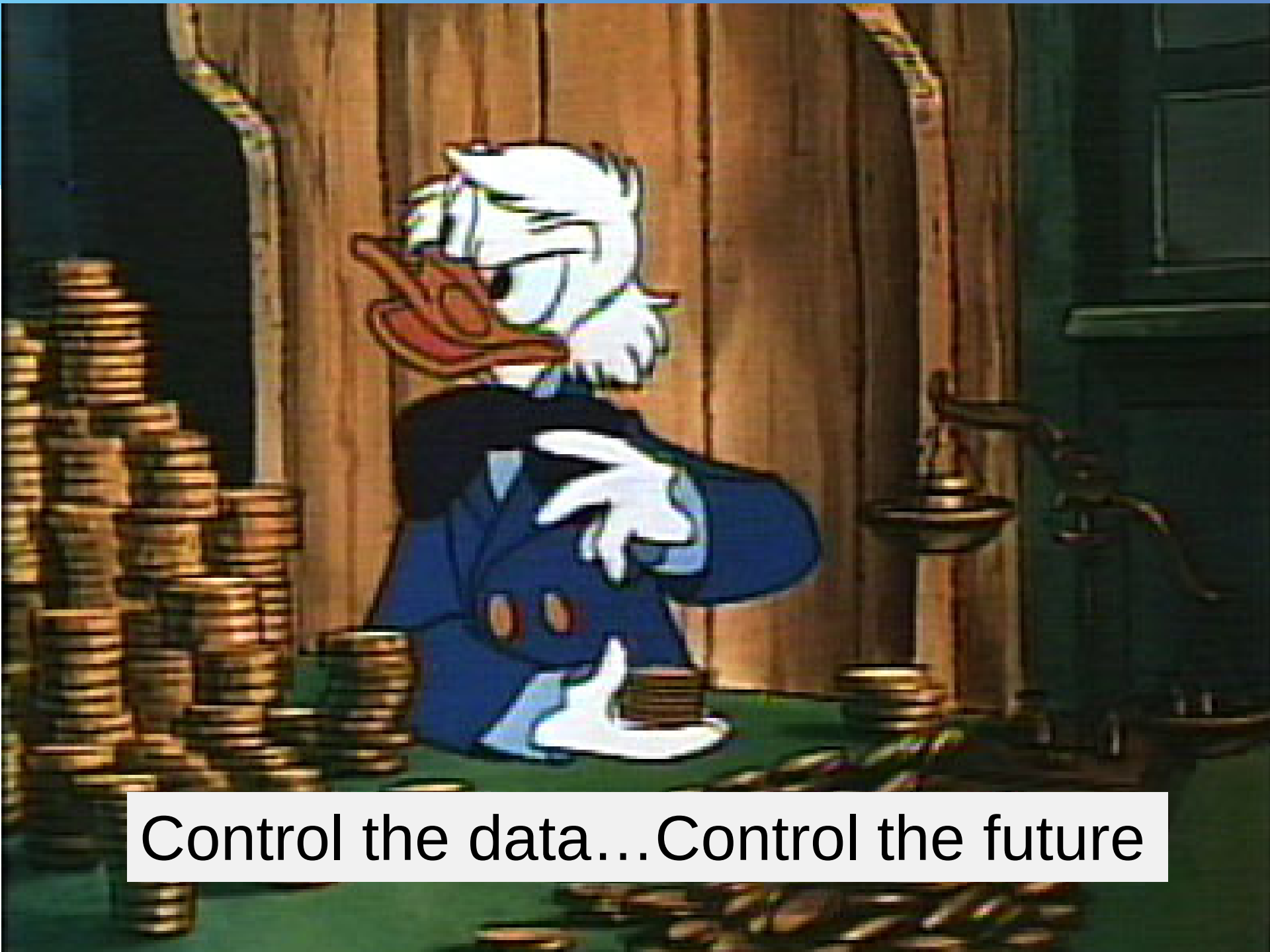

Control the data…Control the future

Quality Management in Your Department: A National Perspective

11/3/2012

Anesthesia Quality Institute

Learning Objectives

- **Describe the need for a QM program**
- **Show how the AQI can help**
- **(Persuade you to get on board!)**

Anesthesia Quality Institute

Disclosure

- **I am the Executive Director of the Anesthesia Quality Institute, a public charity devoted to creating a national registry. The AQI pays my salary.**

Anesthesia Quality Institute

Which of the following best describes how you report on key quality indicators (e.g. PONV rate) within your Department?

a) We don't collect this information
b) The hospital collects it, but we don't see it
c) Only the Chair / QM Officer see the data
d) We report the rate for the group as a whole
e) Each provider sees their own rate
f) Each provider sees their own rate, relative to others
g) Provider performance on this rate is publicly reported within the group
h) Provider performance on this rate is publicly reported to the hospital

Anesthesia Quality Institute

Why Have Quality Management?

- To improve patient outcomes
- To improve business efficiency
- To meet regulatory requirements

Anesthesia Quality Institute

The Challenge

The government wants to know that Ma and Pa are getting the healthcare they deserve … and that our taxes pay for.

Data: Indicators

- **Business (numbers, times, dollars)**
- **Outcomes (deaths, complications)**
- **Processes**
  - Steps that lead to outcomes?
  - Often problematic
- **Focused reviews**
- **Sentinel events**

Anesthesia Quality Institute

Reporting Options

- Perfectly private
- Private, with private benchmarks
- Private, with public benchmarks
- Public, aggregate
- Public, within the family
- Public, within the institution
- Really, really public

Anesthesia Quality Institute

We live in the Information Age…

"Your data is going to be collected. Do you want it to be gathered by your friends or by your enemies?"

*

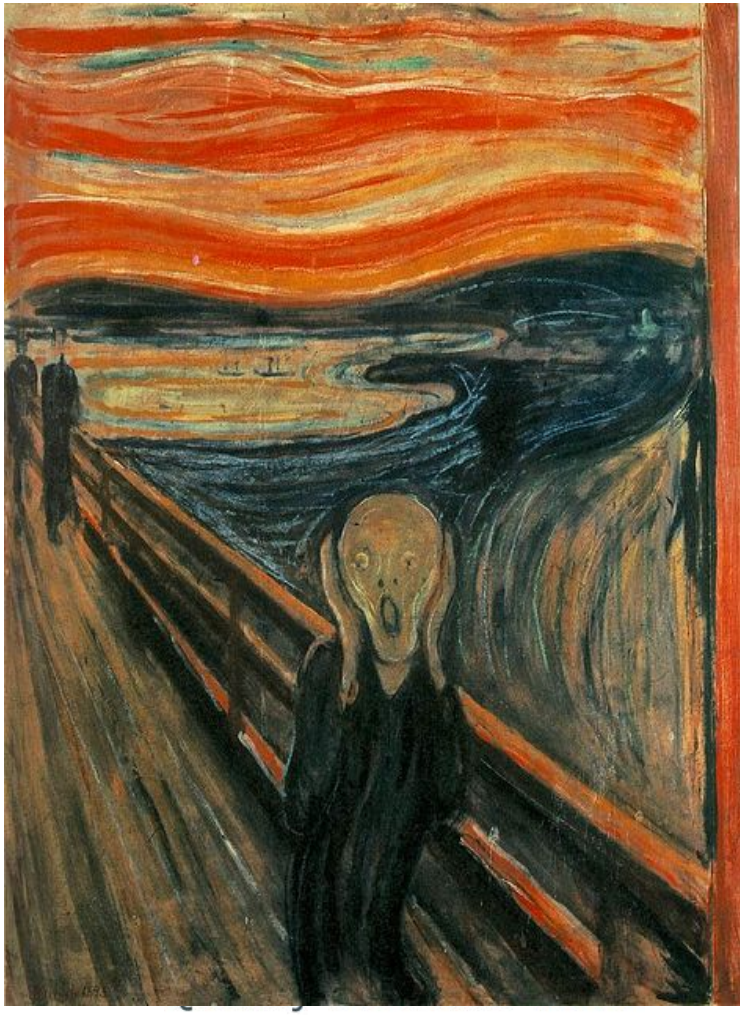
-- Keith Ruskin, MD

*** Goofy picture of Keith obtained in 5.4 seconds of internet search.**

Anesthesia Quality Institute

Who has your data already?

- The federal government
  - CMS – Medicare Data
  - AHRQ – CAHPS Data
- Private insurance companies
- The Joint Commission
- The ABA
- Your IT vendors



Ongoing Professional Practice Evaluation

- **TJC review of hospital credentialing**
- **“There is a clearly defined process in place that facilitates the evaluation of each provider’s professional practice”**
- **Medical Staff Chapter MS.08.01.03**

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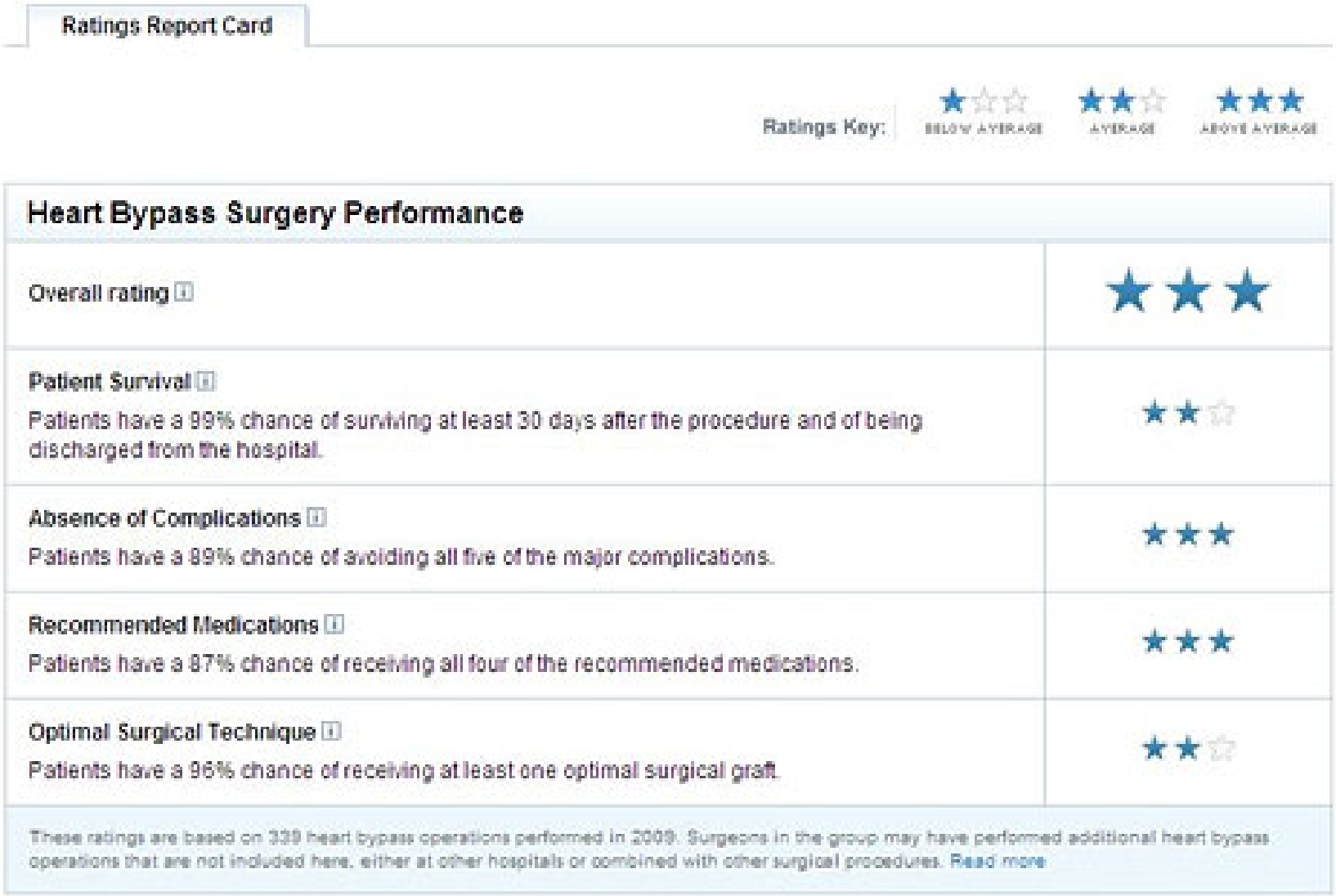
Really, Really Public



Ratings Report Card

Ratings Key: ★☆☆ BELOW AVERAGE ★★☆ AVERAGE ★★★ ABOVE AVERAGE

Heart Bypass Surgery Performance

Overall rating	★★★
Patient Survival Patients have a 99% chance of surviving at least 30 days after the procedure and of being discharged from the hospital.	★★☆
Absence of Complications Patients have a 89% chance of avoiding all five of the major complications.	★★★
Recommended Medications Patients have a 87% chance of receiving all four of the recommended medications.	★★★
Optimal Surgical Technique Patients have a 96% chance of receiving at least one optimal surgical graft.	★★☆

These ratings are based on 339 heart bypass operations performed in 2009. Surgeons in the group may have performed additional heart bypass operations that are not included here, either at other hospitals or combined with other surgical procedures. Read more

Which of the following best describes how your Department compares to other Departments of Anesthesia?

a) We're pretty sure we do a good job
b) We have quality management data that shows our performance improving over time
c) We participate in national benchmarking efforts, but don't distribute the data
d) We report to all providers on comparisons between our practice and others
e) External comparisons don't work for us, because our practice is different

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Knowledge is Power!

-- Sir Francis Bacon, 1597

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Basic Principles

- **The more you know, the better you do**
- **Quality management data**
  = research data
  = business data
- **Every patient encounter is a data point**

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AQI Registries

- **NACOR**

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NATIONAL ANESTHESIA CLINICAL OUTCOMES REGISTRY

- **AIRS**

Anesthesia Quality Institute

ANESTHESIA INCIDENT REPORTING SYSTEM (AIRS)

Report Adverse Events & Near Misses

www.aqiairs.org

- **PPAI**

PPAI Practice Performance Assessment and Improvement

NACOR: the National Anesthesia Clinical Outcomes Registry

- Electronic capture
- All cases (no bias)
- All available data
- De-identified, but with context
- Automated reporting
- Automated validation
- Analysis and reporting

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Large or Small, Open to All

AQI Non-Barriers

- We don’t know what to do
- We have too many lawyers
- We don’t have electronic records
- It’s too expensive
- Our hospital won’t let us
- We don’t capture outcomes

Anesthesia Quality Institute

How Big is NACOR?

Practices under contract:	195
Provider and facility information:	186
Case data:	137
“In production”	87
Facilities represented	1,355
Providers represented	10,955

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6,900,000 Cases

- **Adding 2,000,000 cases per quarter**
- **Will capture 20% of all the anesthesia cases in the U.S. in 2013**
- **The largest registry of its kind?**

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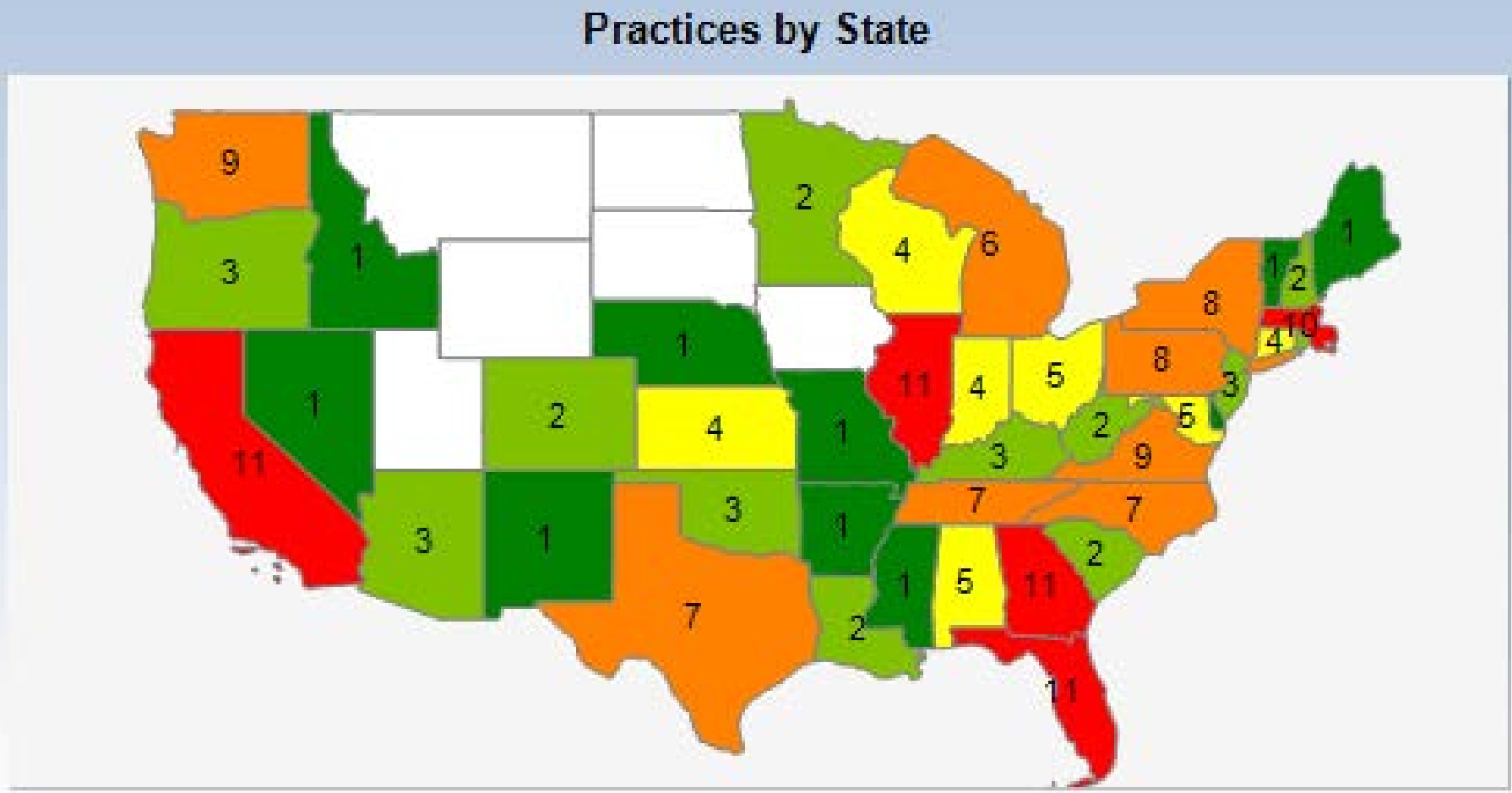
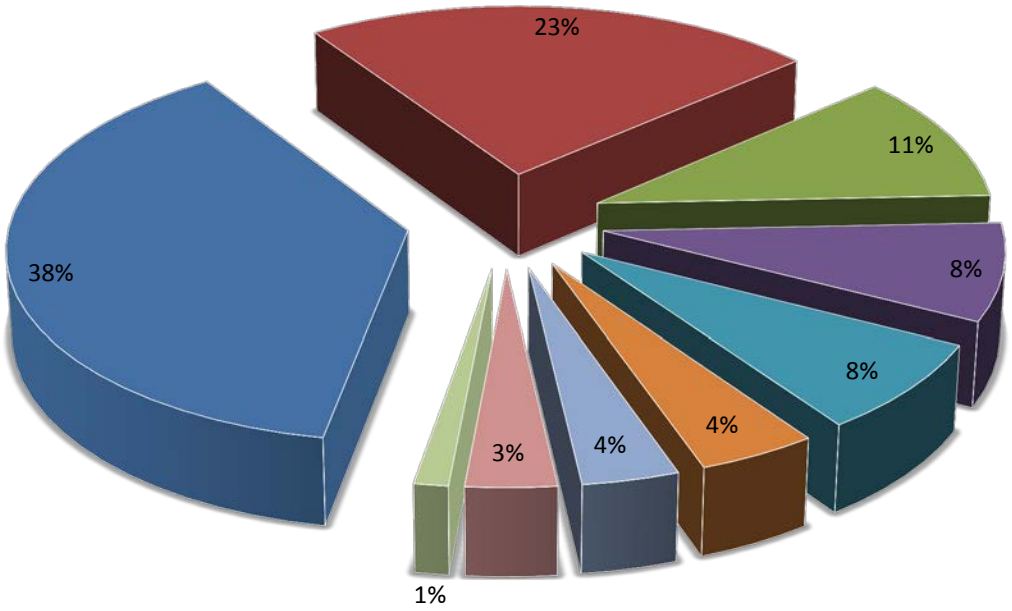
NACOR Participants



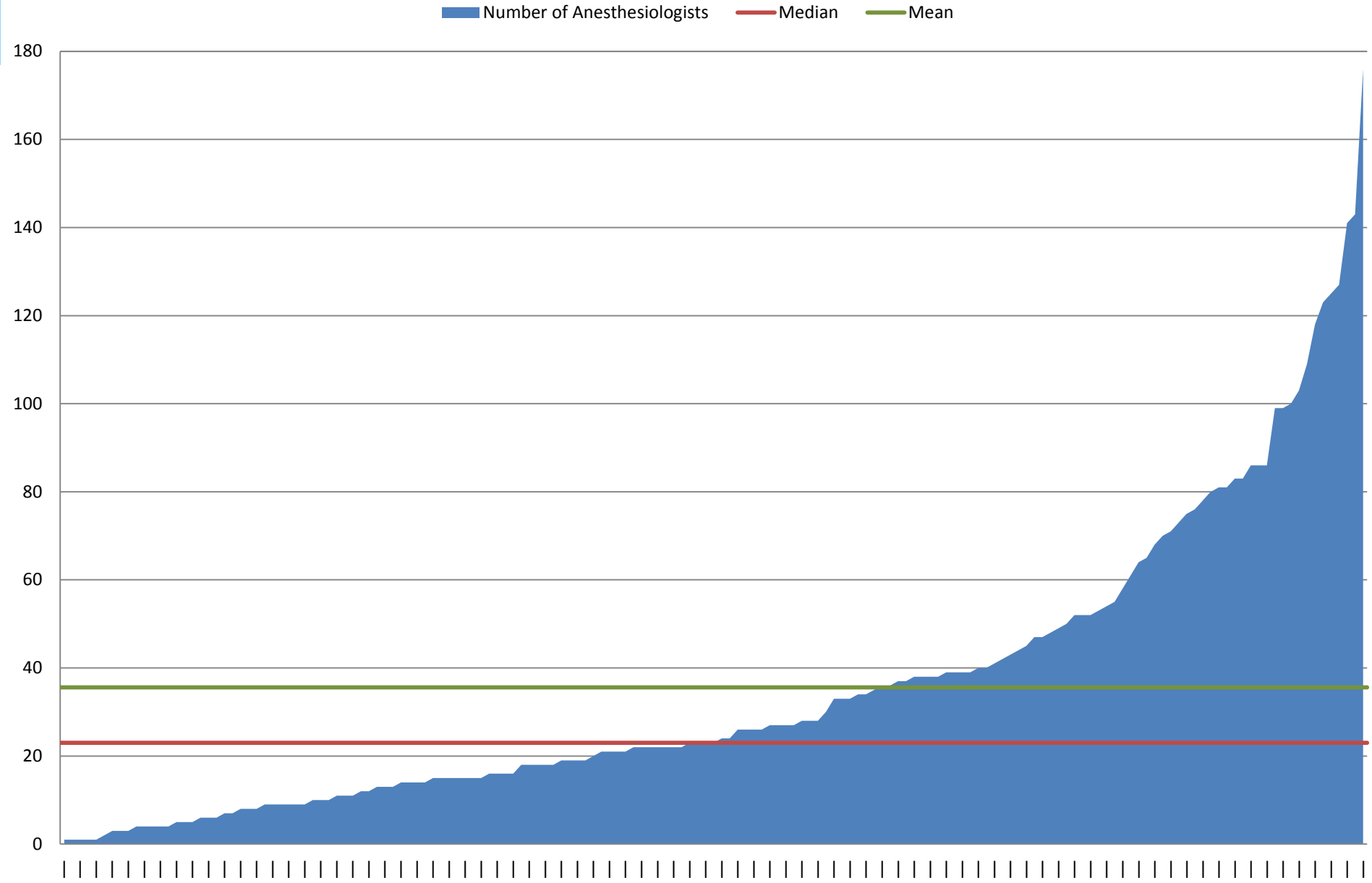
"We have lots of information technology, we just don't have any information"

Facility Types

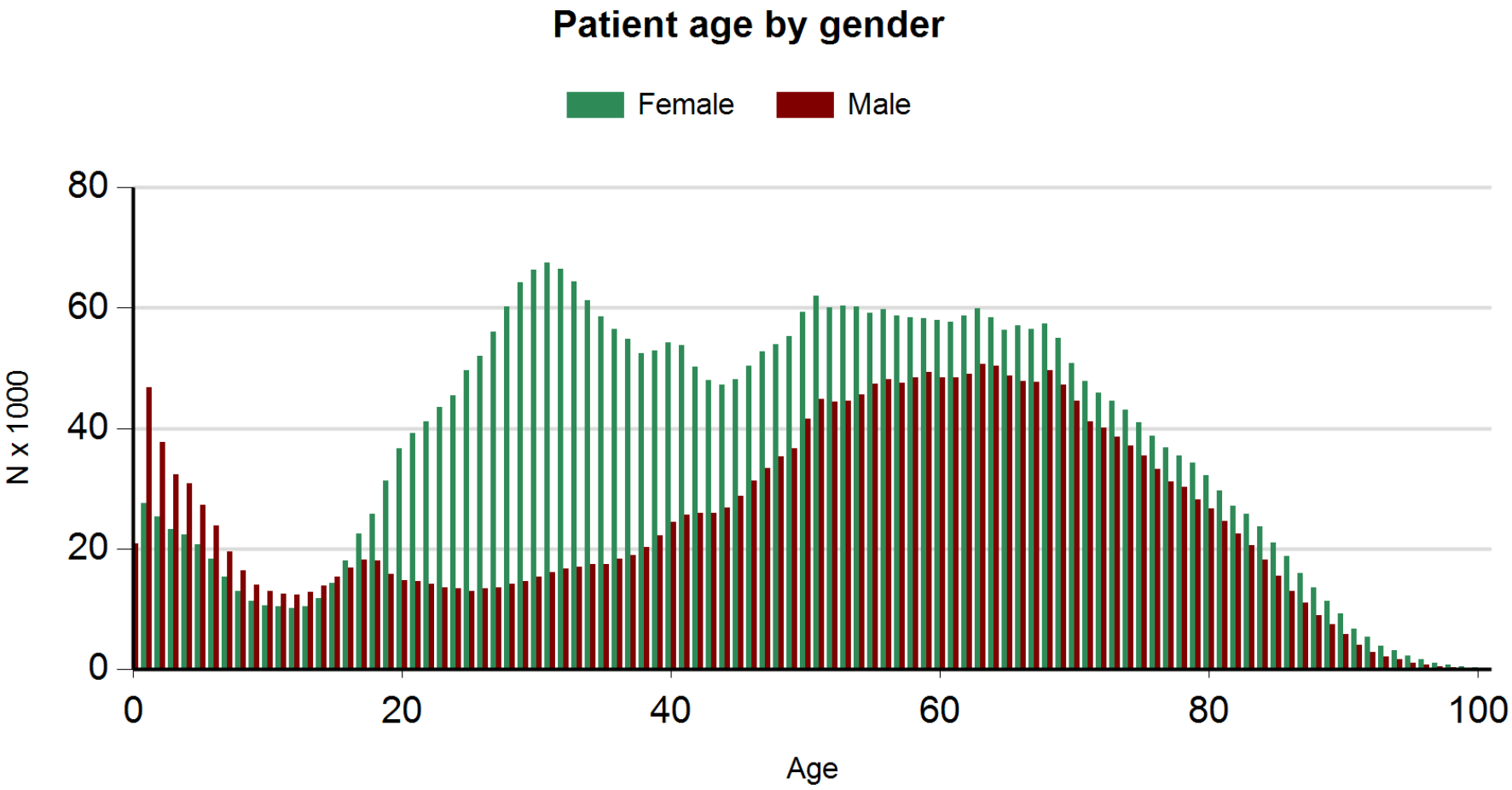


- Medium Community Hospital (100-500 beds)
- Freestanding Surgery Center
- Attached Surgery Center
- Large Community Hospital (over 500 beds)
- Surgeon Office
- Small Community Hospital (less than 100 beds)
- University Hospital
- Speciality Hospital
- Pain Clinic

Anesthesiologists by Practice



Our Patients



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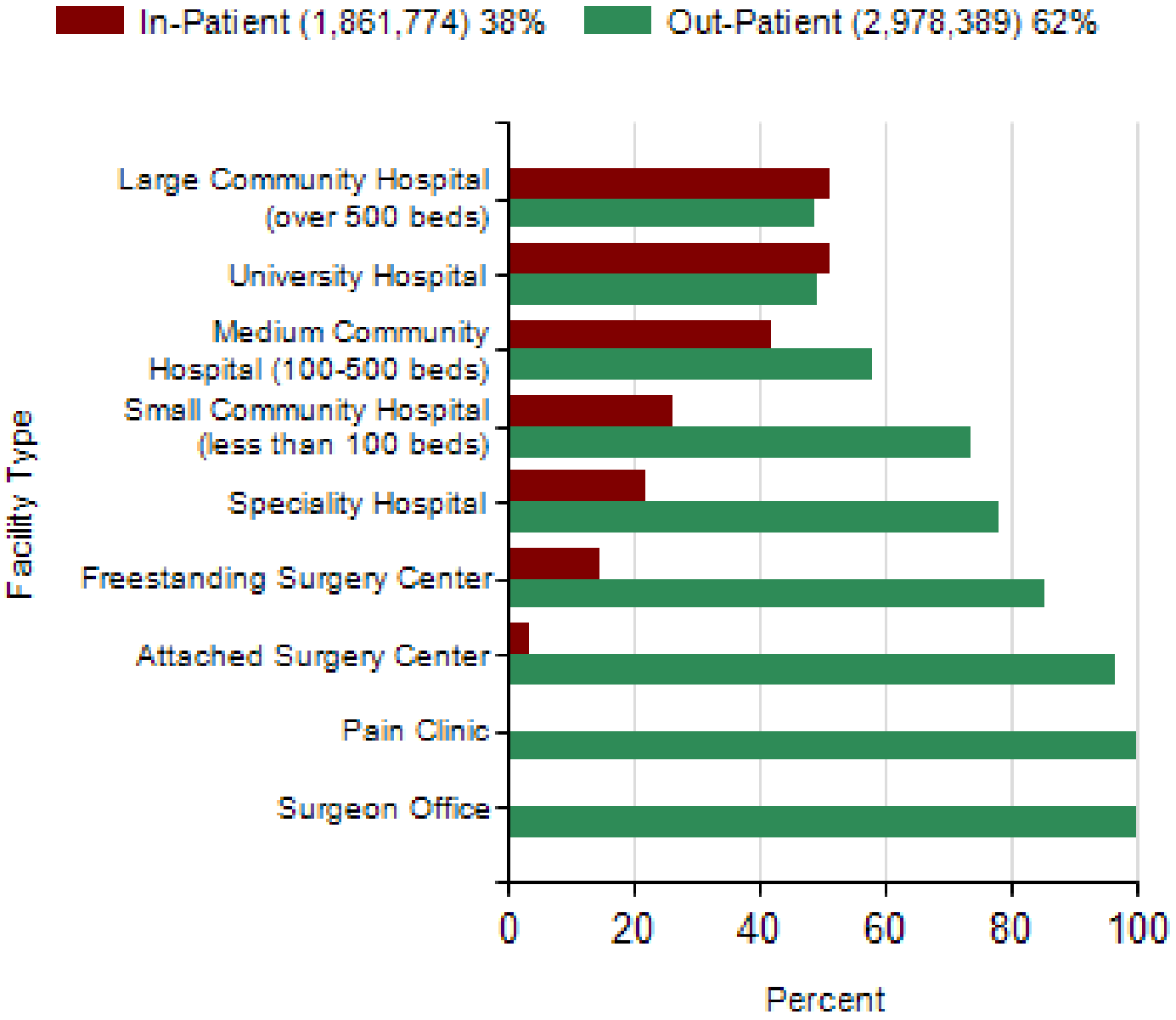
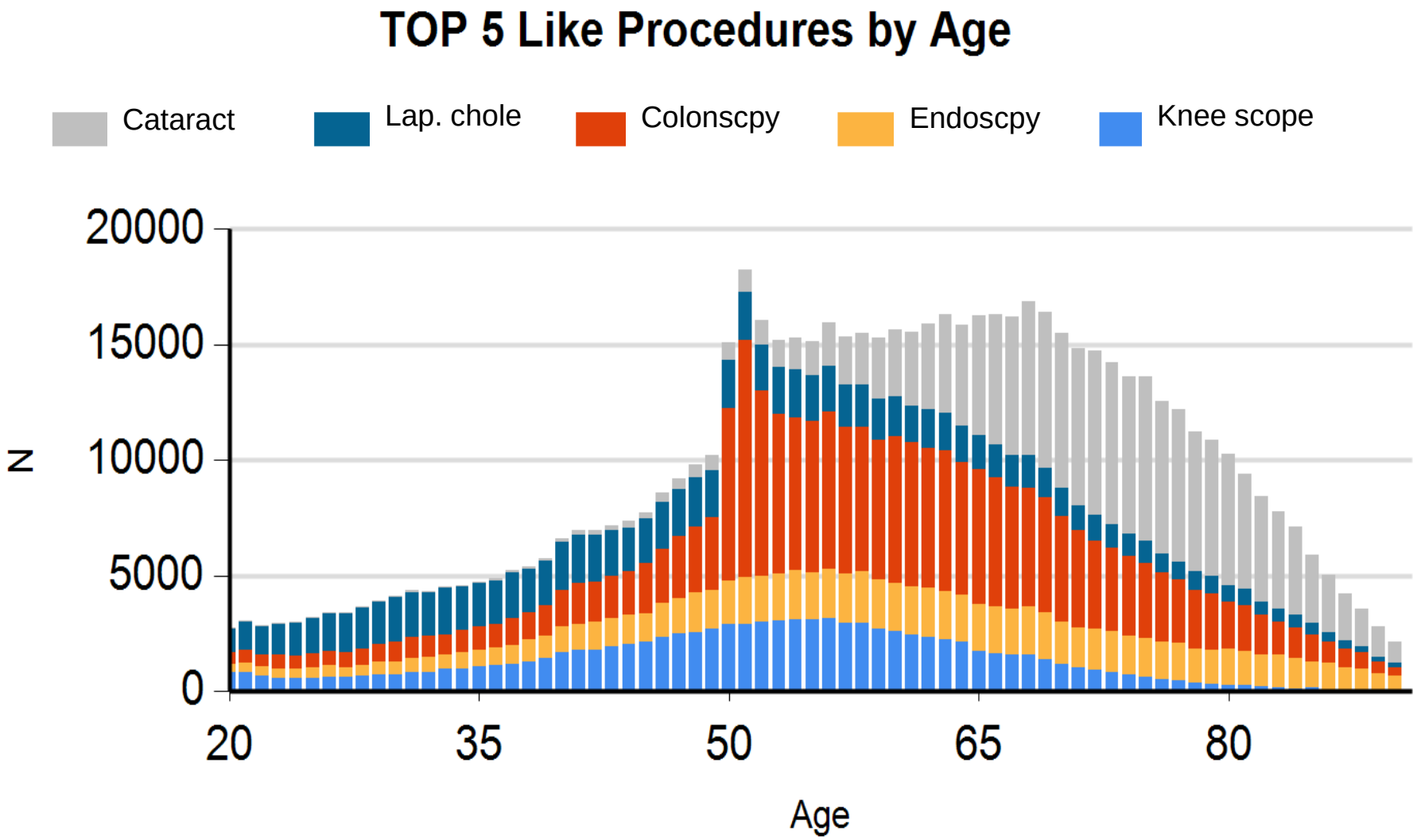
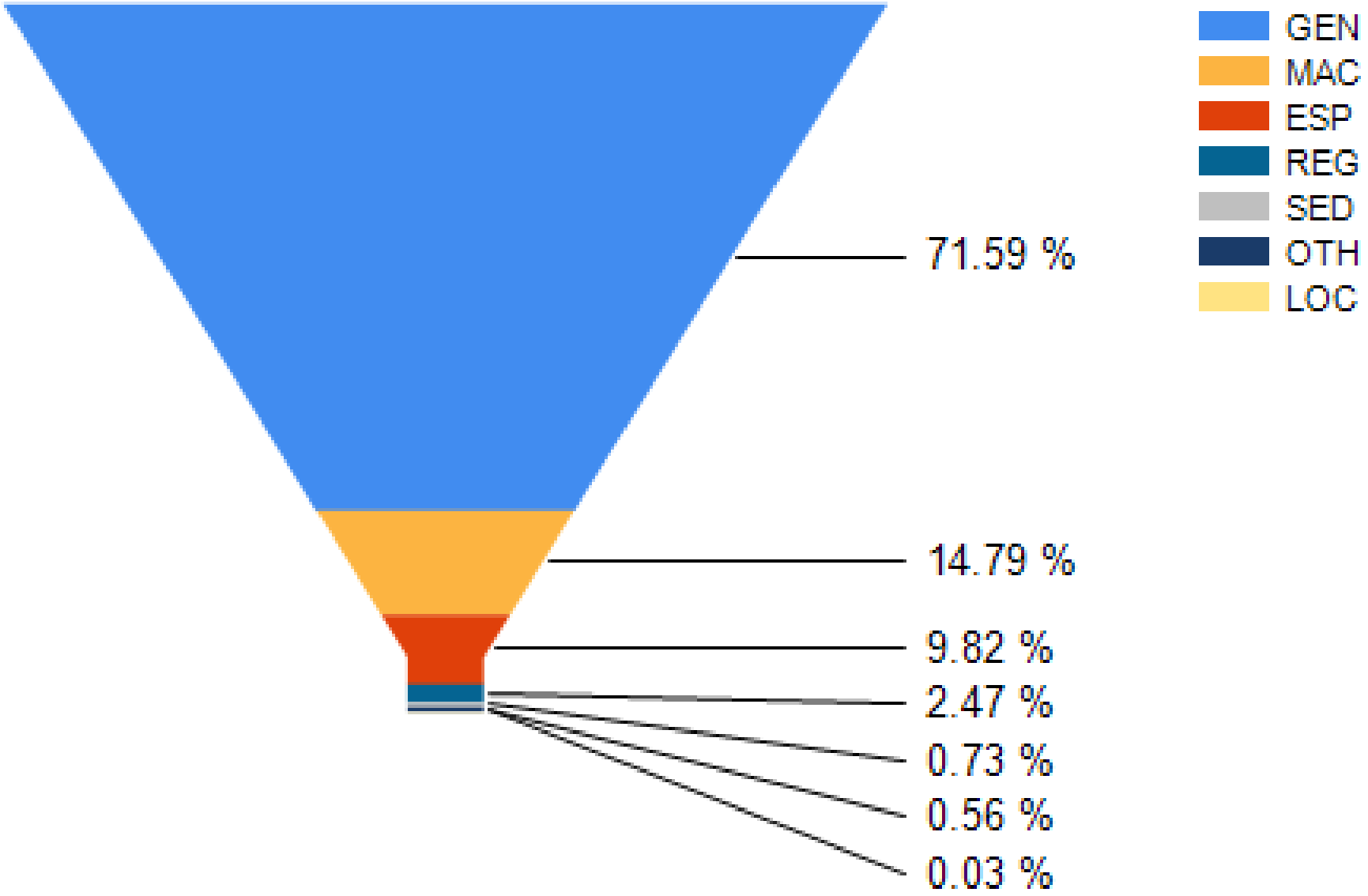
Percent In/Out patient by facility type



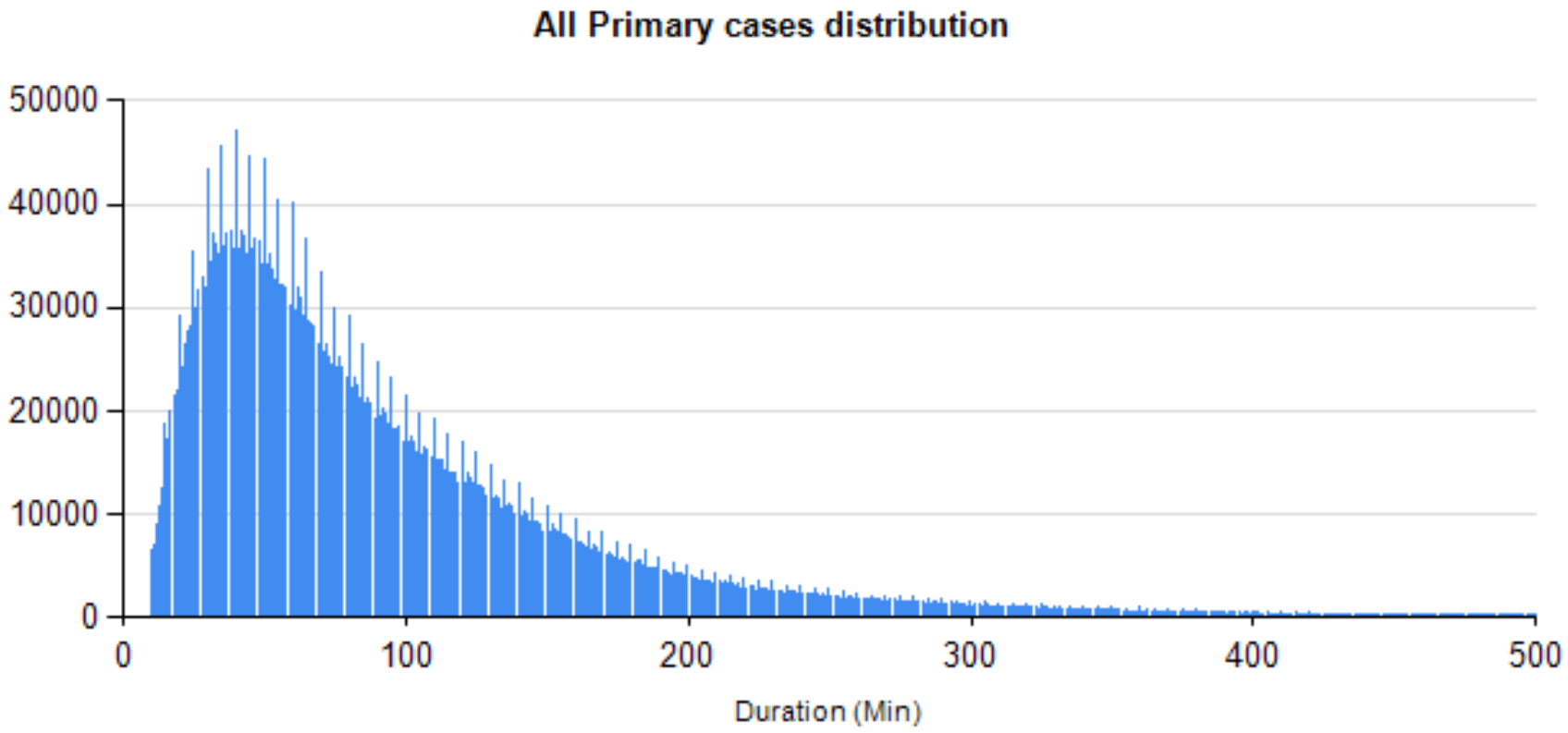
Internal Reporting …



Anesthesia type



Surgical Duration



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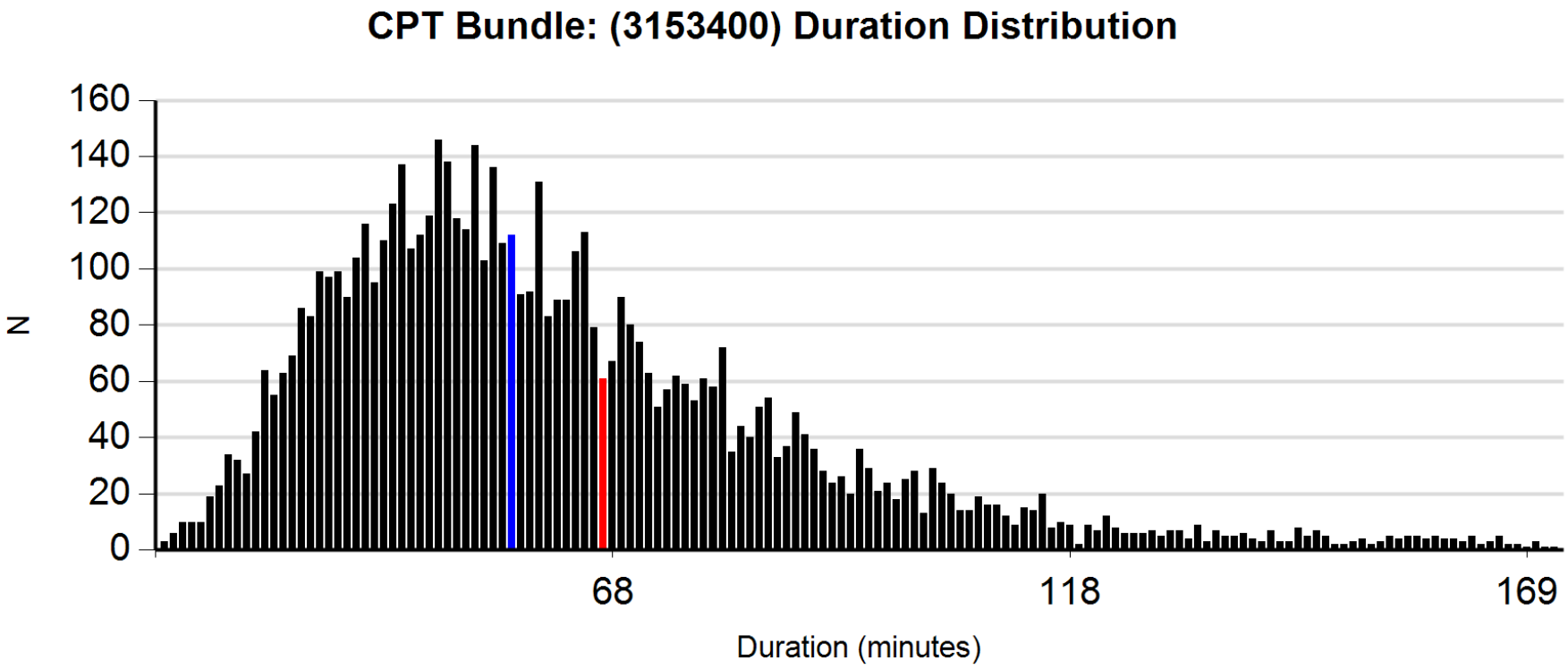
Surgical Duration



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Mean Case Time by Practice -- Cataract

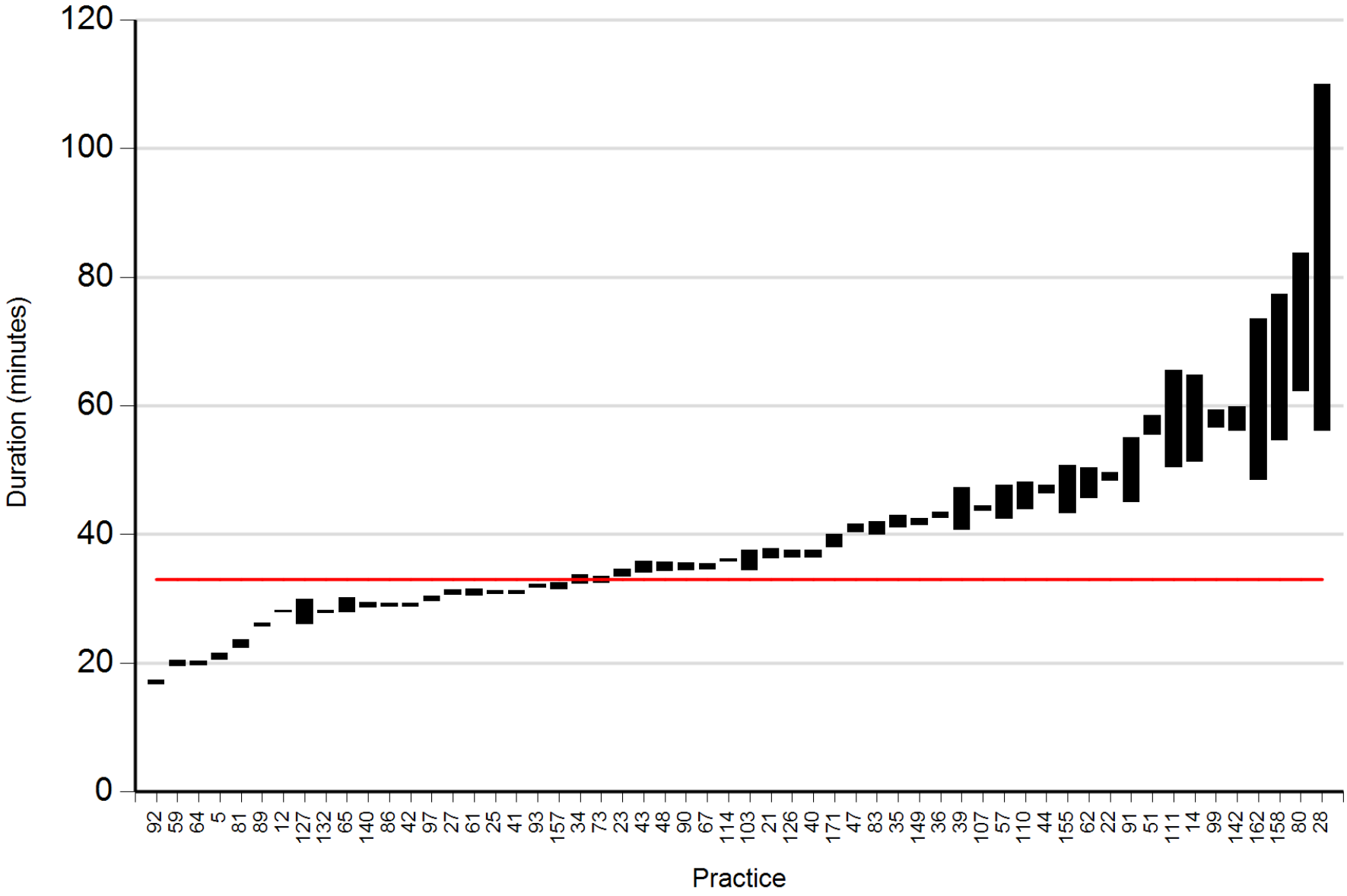


Figure 10. Case-weighted mean case times by practice

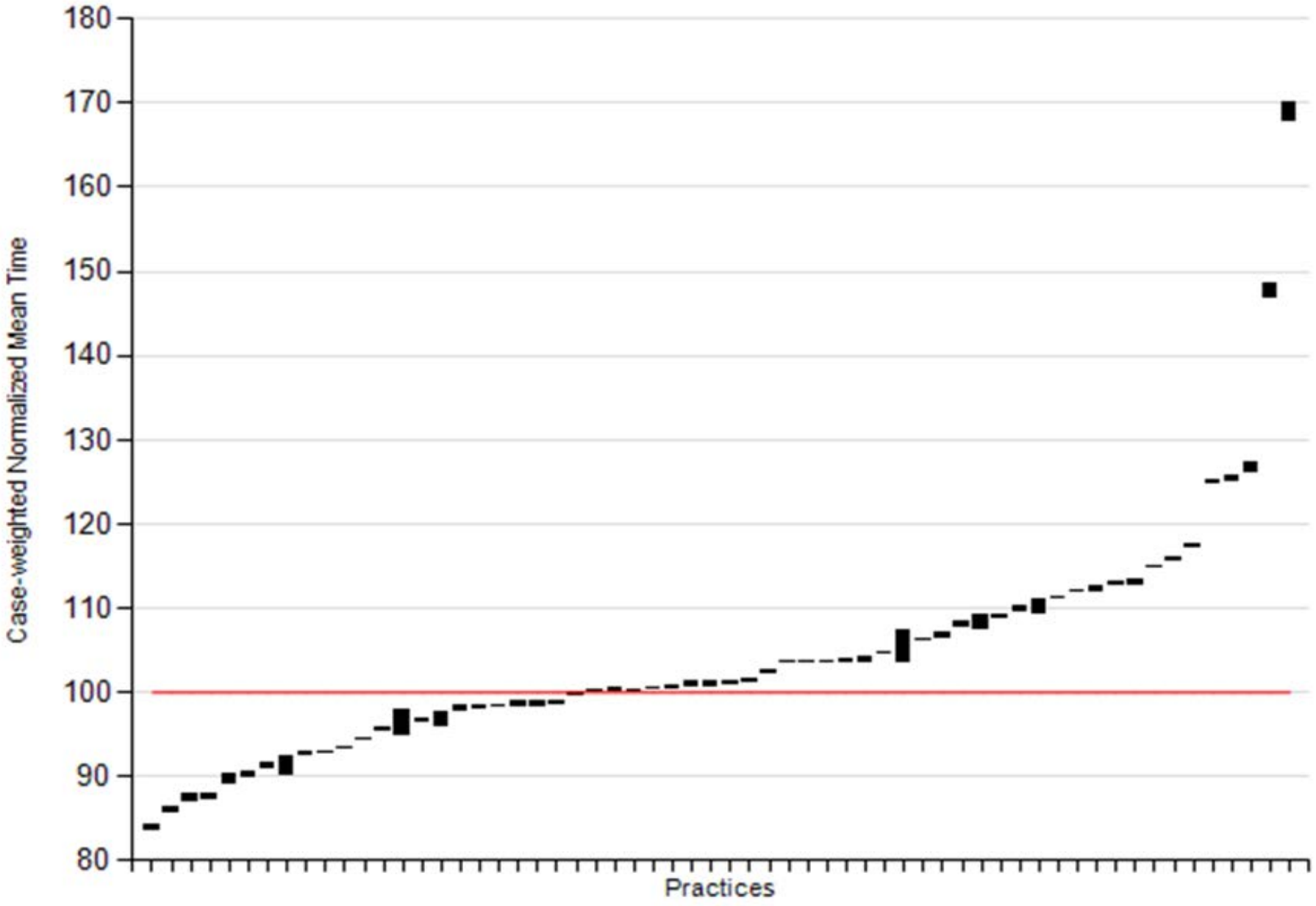
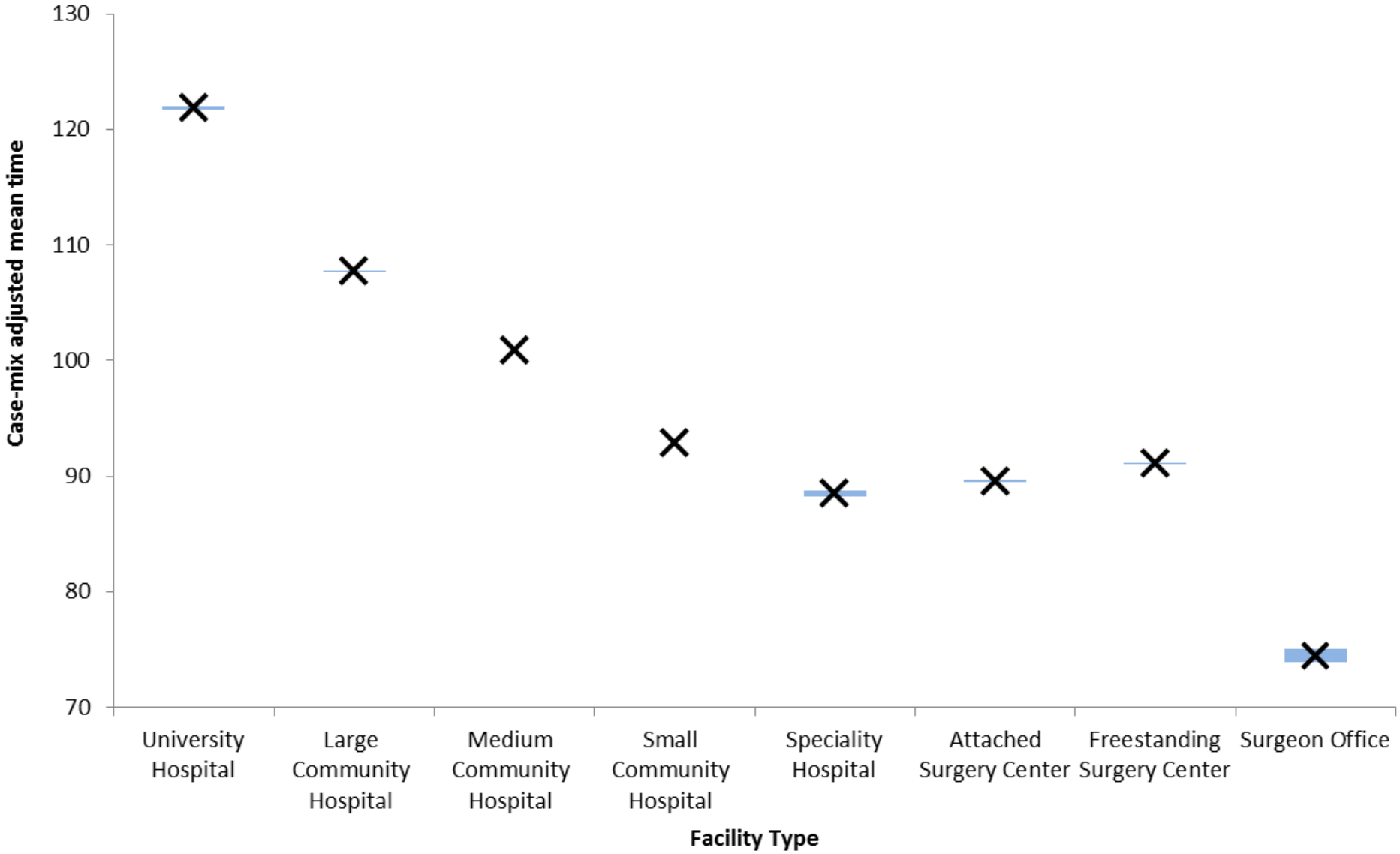


Figure 6. Case-mix adjusted relationship between mean case time (+/- 95% confidence interval) and type of surgical facility



Anesthesia Quality Institute

Home of the National Anesthesia Clinical Outcomes Registry (NACOR)

MEMBERS ONLY

Username: I<3AQI

Password: ••••••••••

Forgot username Forgot password

Member Benefits Submit

Become a Member

Anesthesia Quality Institute

AQI MEMBER

Quality in Your Practice

Become an AQI Preferred Vendor

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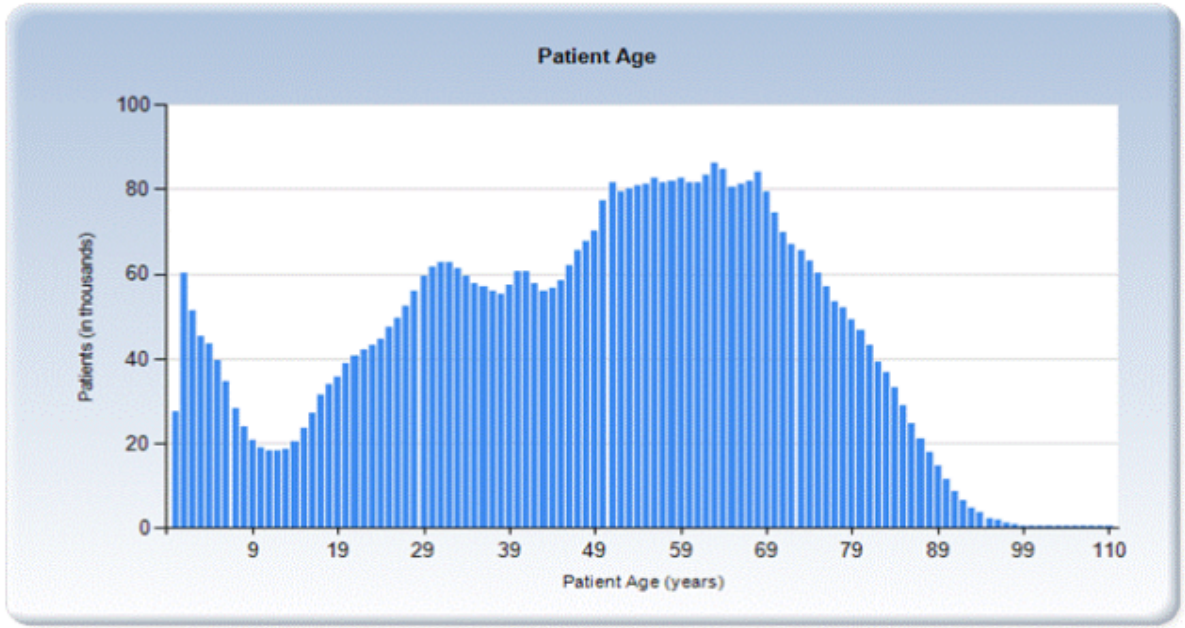
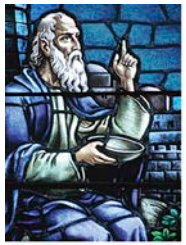
PREFERRED VENDOR





Welcome to the Anesthesia Quality Institute

Welcome to the Anesthesia Quality Institute (AQI) website, home of the National Anesthesia Clinical Outcomes Registry (NACOR). Participation in the AQI is open to every anesthesiology practice in the United States. The registry has experienced tremendous growth in the last year and we invite you to be part of our future growth by becoming an AQI Member. AQI will be of value to practicing anesthesiologists for personal benchmarking, quality reporting, hospital credentialing, maintenance of licensure, maintenance of certification and clinical research.

We know more than we did two years ago about

What's NEW!

Anesthesia Quality Institute

ANESTHESIA INCIDENT REPORTING SYSTEM (AIRS)

Report Adverse Events & Near Misses

www.aqiairs.org

More...

Anesthesia Quality Institute

Home of the National Anesthesia Clinical Outcomes Registry (NACC

Logout | Instructions | Practice | Providers | Facilities | Technology | Data Loads | Reports | Users

Practice:

Welcome to the AQI

AQI Anesthesia in the US 2012 (pdf)
The annual publication (complimentary to AQI members) contains abstracted descriptive statistical information about the profession of anesthesiology.

1 of 1 Find | Next

dashboard

Date: 9/21/2012

Anesthesia Quality Institute

AQI Reporting Services - Practice Report

Practice Name: Consultants, P.A.
Member Since:
AQI Contact:
Last Date of Service:
Cases Submitted to Date:

SURVEY
- Facilities
- Providers
- Technology

DATA
- Cases
- Outcomes
- Monthy Upload

Current Status

Click on message(s) below to go directly to the action item.

Please complete the Technology Survey

Recent Uploads

Date	File Name

Back to Practice DashBoard

Practice | Patients | Cases | Outcomes

1 of 2 ? Find | Next

Document Map

- outcomes1
  - Practice Outcomes

Date: 9/21/2012

Anesthesia Quality Institute

AQI Reporting Services - Outcomes Report

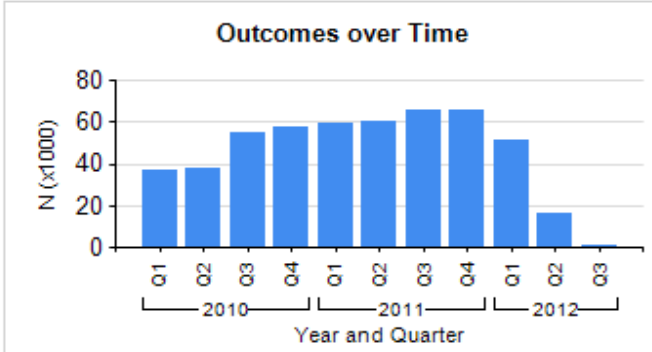
NACOR Outcomes

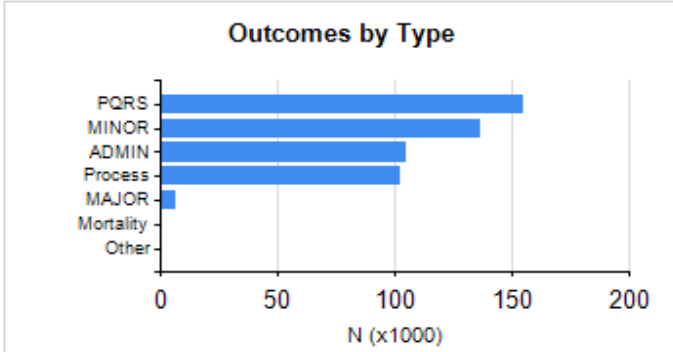
The following graphs display categorized outcomes by their **percentage** cross with ASA Physical Status, Age, Case Duration, and Gender.

Below each graph is a corresponding table that displays the **counts** used to portray each graph, with a visual representation of the count displayed on the right.

Please note: NACOR accepts data from various sources where Age, ASA Physical Status, Case Duration, and Gender may not be recorded completely. This creates the potential to have different total counts (between graph sets) as all unknown values are excluded from the data used to create this report.

The following information is based on [ ] **outcomes from** [ ]





Practice Specific Outcomes

National Practice

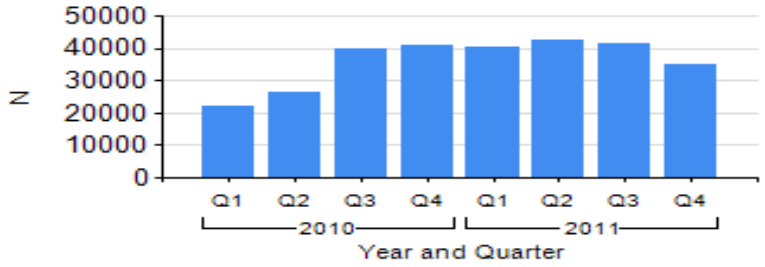
Curious about what is included in each category?

Click on the blue titles below

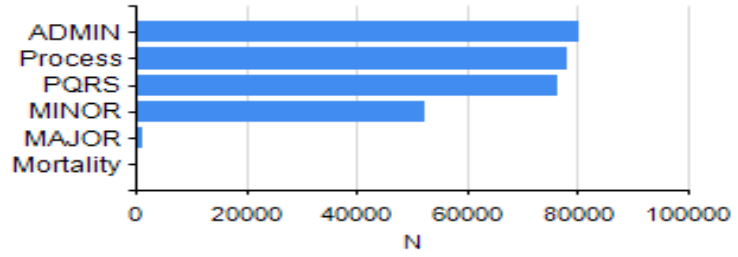
The following information is based on _____ outcomes from _____ cases.

Most recent case in NACOR from your practice: 4/30/2012
Most recent outcome in NACOR from your practice: 4/30/2012

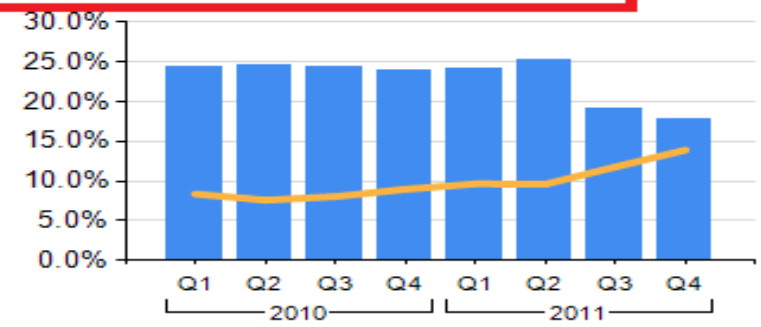
Outcomes over Time



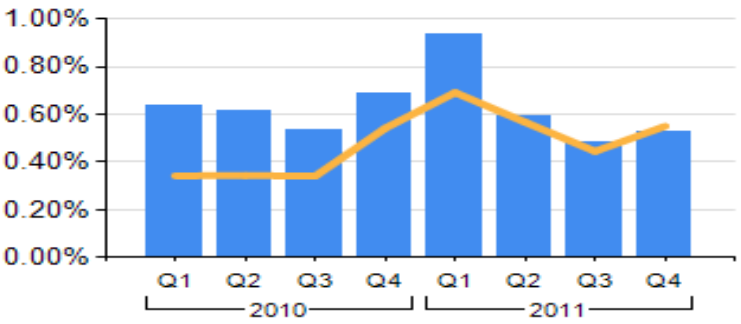
Outcomes by Type



Minor Outcome Rate (Practice vs National)



Major Outcome Rate (Practice vs National)



Mortality Outcome Rate (Practice vs National)

Category	Year	Quarter	Practice	National
⊞ MAJOR			0.5871%	0.4244%
⊞ MINOR			21.9344%	9.4306%
⊞ Mortality			0.0829%	0.0307%

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AQI Reporting Services - Outcomes Report

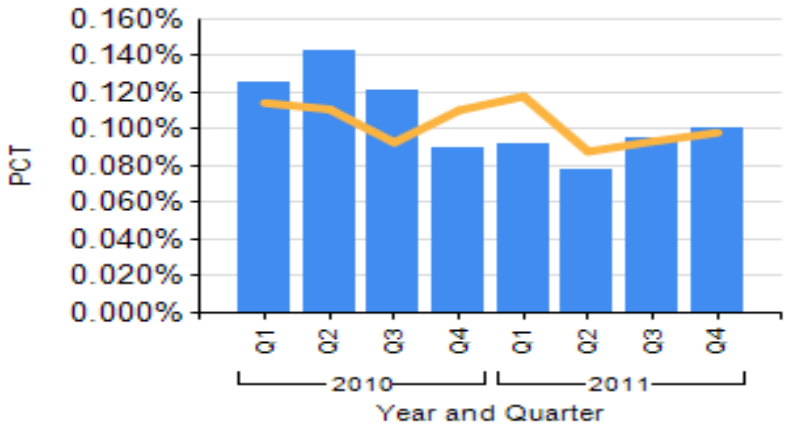
You are currently exploring MINOR outcomes.

The graph on the left currently shows the aggregate rate for all Airway/Intubation outcomes.
The table on the right shows a specific subcategory.

Change Categories (Minor/Major/Mortality) with the blue buttons on the left.

View the individual, practice specific outcomes you've submitted using the "Practice Only Button"

Change your current graph with the blue links from the table on the right .



Practice Specific Outcomes in this subcategory
PP_Difficult_8
CQI_Failed_35

Sub Category	Year	Quarter	Practice	N	National
⊞ Airway/Intubation			0.1064%	278	0.1068%
⊞ any PONV			8.9467%	23920	4.9943%
⊞ Blood - Vascular			0%	0	0.0126%
⊞ Cardiac			0%	0	0.0105%
⊞ Dental/Oral/Tooth/Mouth			0.0341%	84	0.0411%
⊞ Eye/Ocular/Corneal			0.0519%	118	0.0944%
⊞ PAIN - any			1.3978%	3729	2.8699%
⊞ Respiratory - Pulmonary			0.0721%	191	0.0329%
⊞ Unplanned Anything			0%	0	0.0125%
⊞ UNSPECIFIED			14.707%	38583	3.0082%

Back to Prev. Page

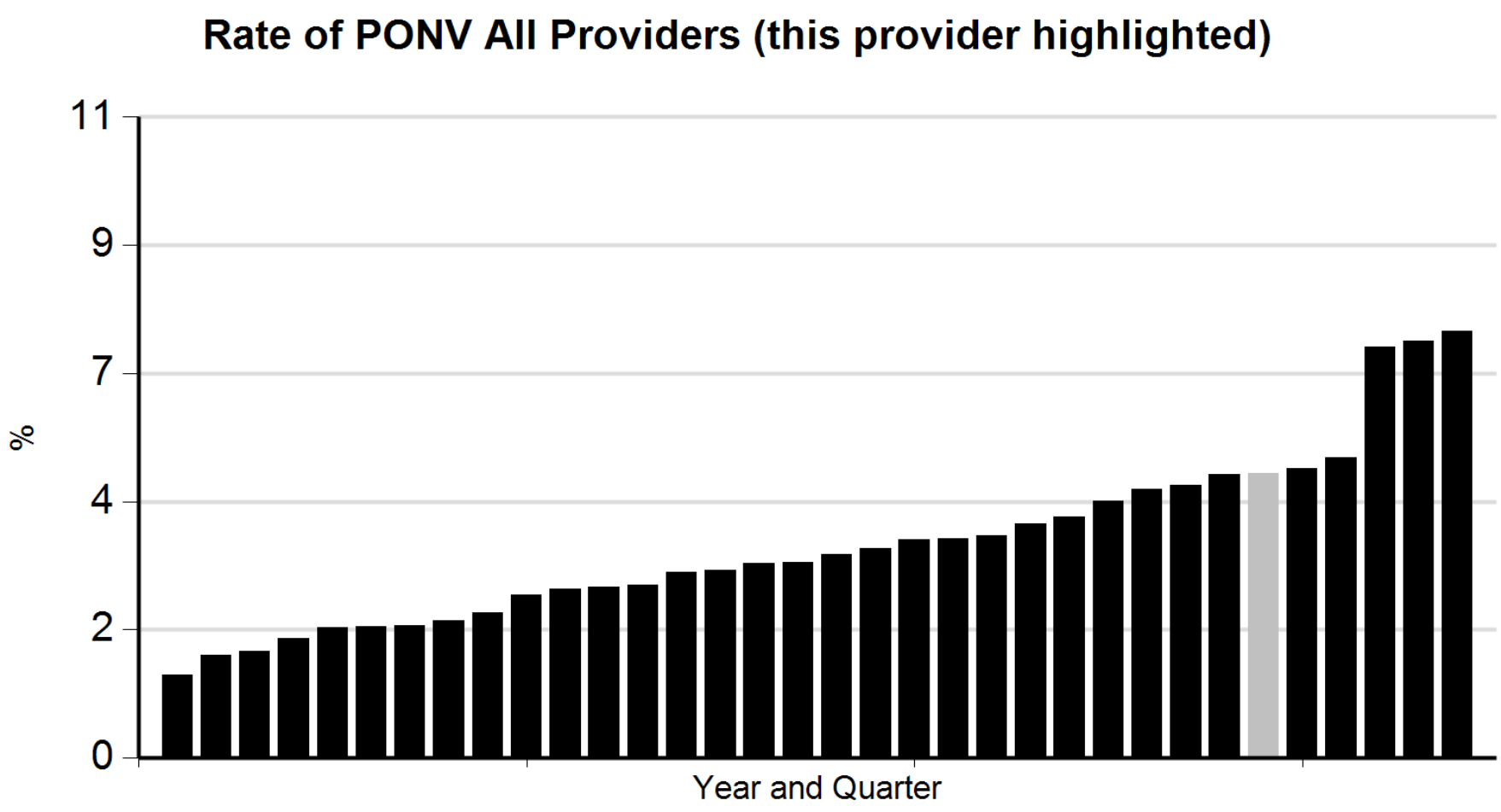
MINOR

MAJOR

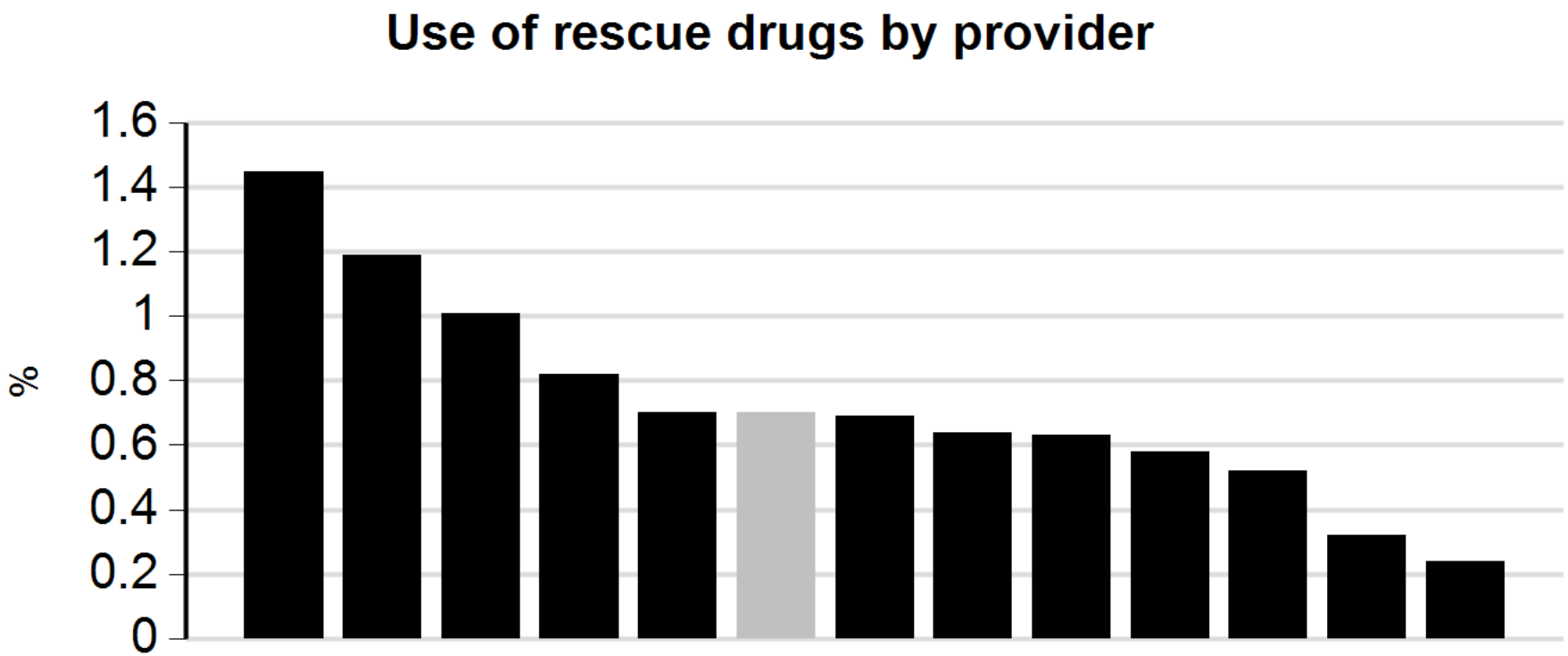
Mortality

Practice Only

Practice Reports



Practice Reports



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MPOG – Joint Efforts

- **Identical data formats**
  - Keeping things easy for vendors
- **Similar technical steps**
  - Use an MPOG extract to send to AQI
  - Use an AQI extract to map for MPOG
- **Defining the future!**
  - Preoperative evaluation
  - Postoperative outcomes

Anesthesia Quality Institute

AQI Data Use Policy

- **De-identified data from NACOR is available to any AQI participant**
  - Coming in 2013: Annual Data Files (ADFs)
- **Apply to the Executive Director:**
  - Intended use of data
  - IRB approval
  - Funding (for complex questions)
- **Acknowledge AQI, and share all publications**

Anesthesia Quality Institute

Contact Us!

www.aqihq.org

or

r.dutton@asahq.org

Anesthesia Quality Institute