

LMHS Quality Comparisons, Technological Advances and Upcoming Initiatives 2018

**Presented By:
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Licking Memorial Health Systems
April 2, 2018**

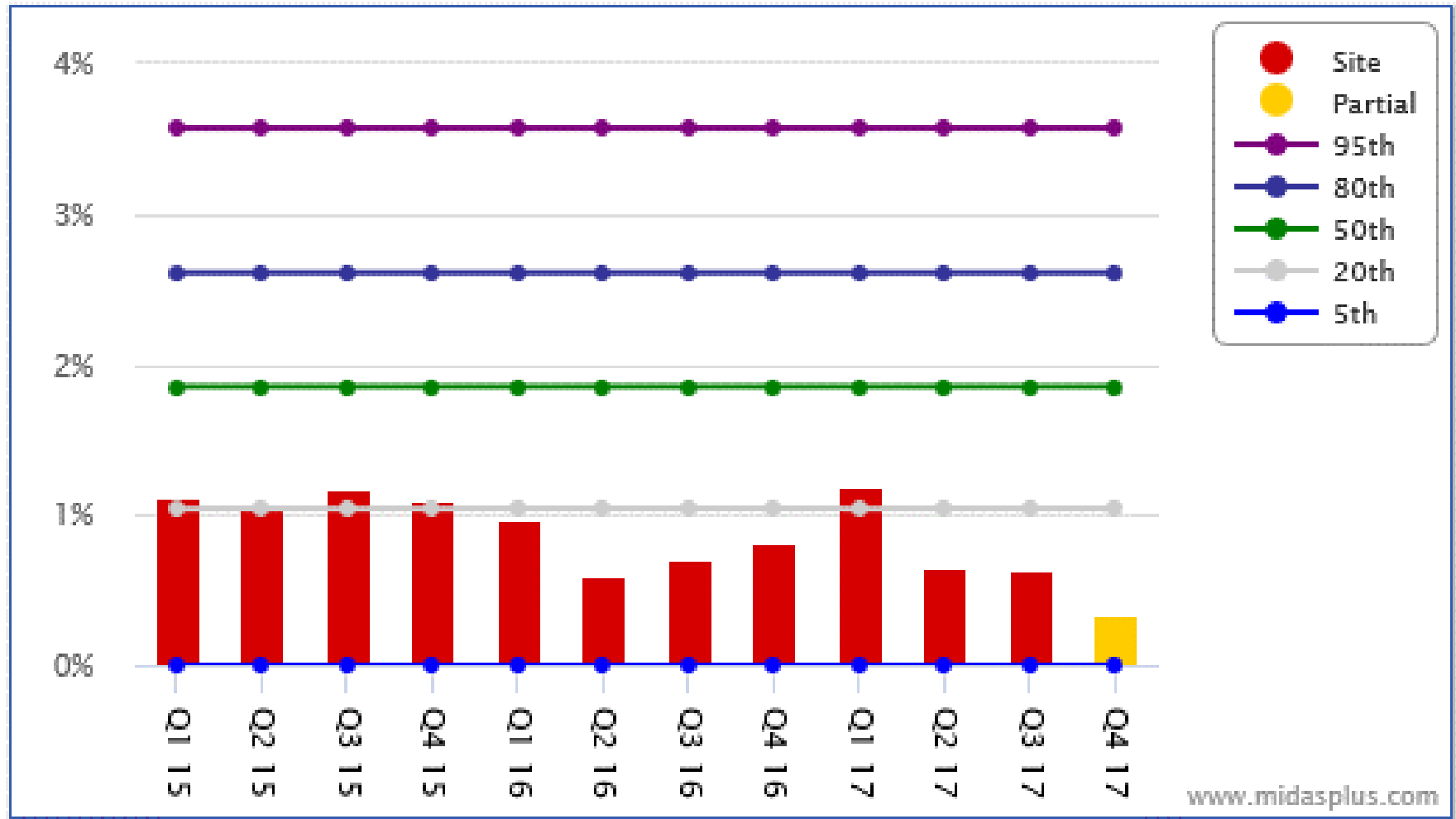


Hospital Comparisons

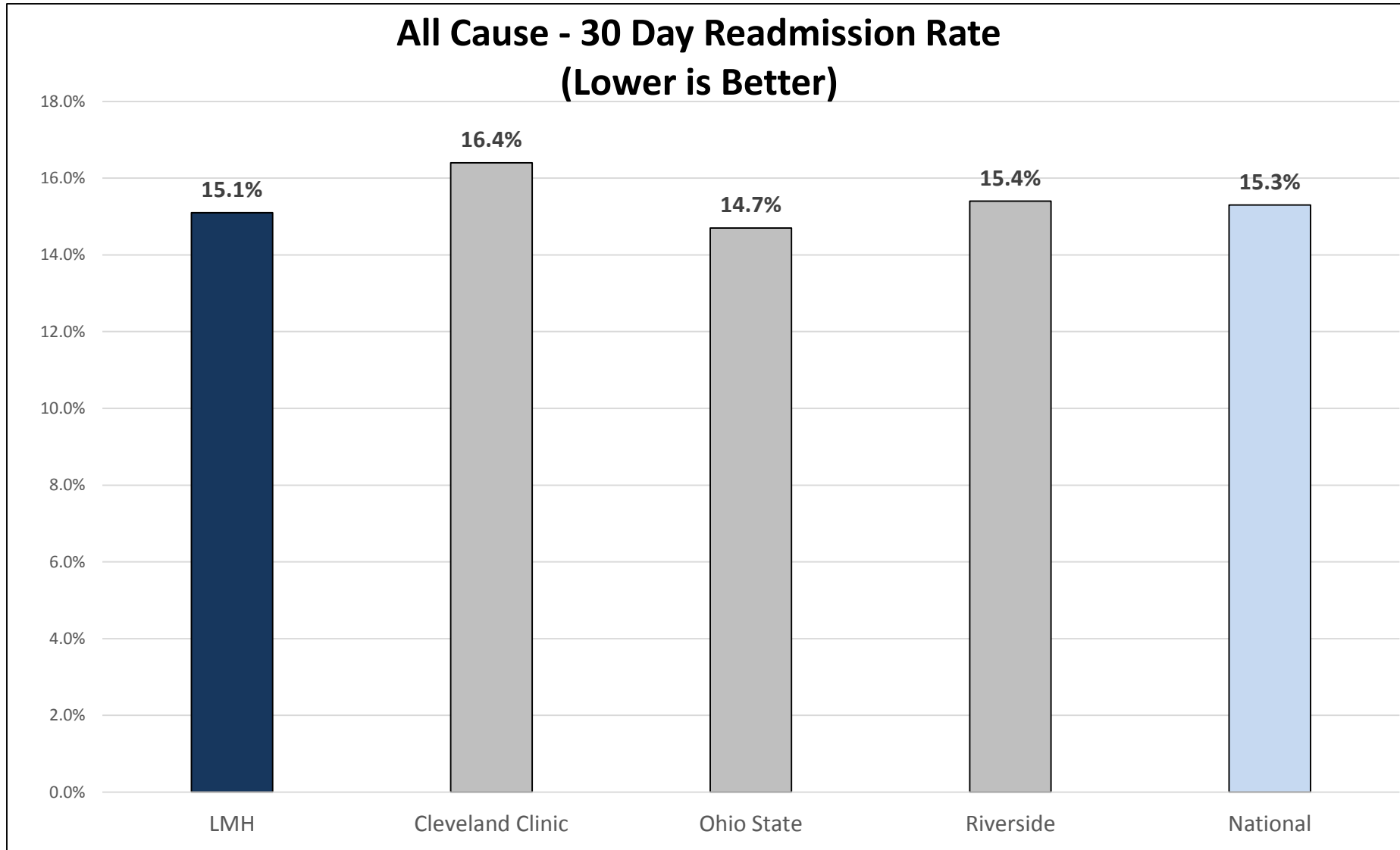


Licking Memorial Hospital Quality Indicators

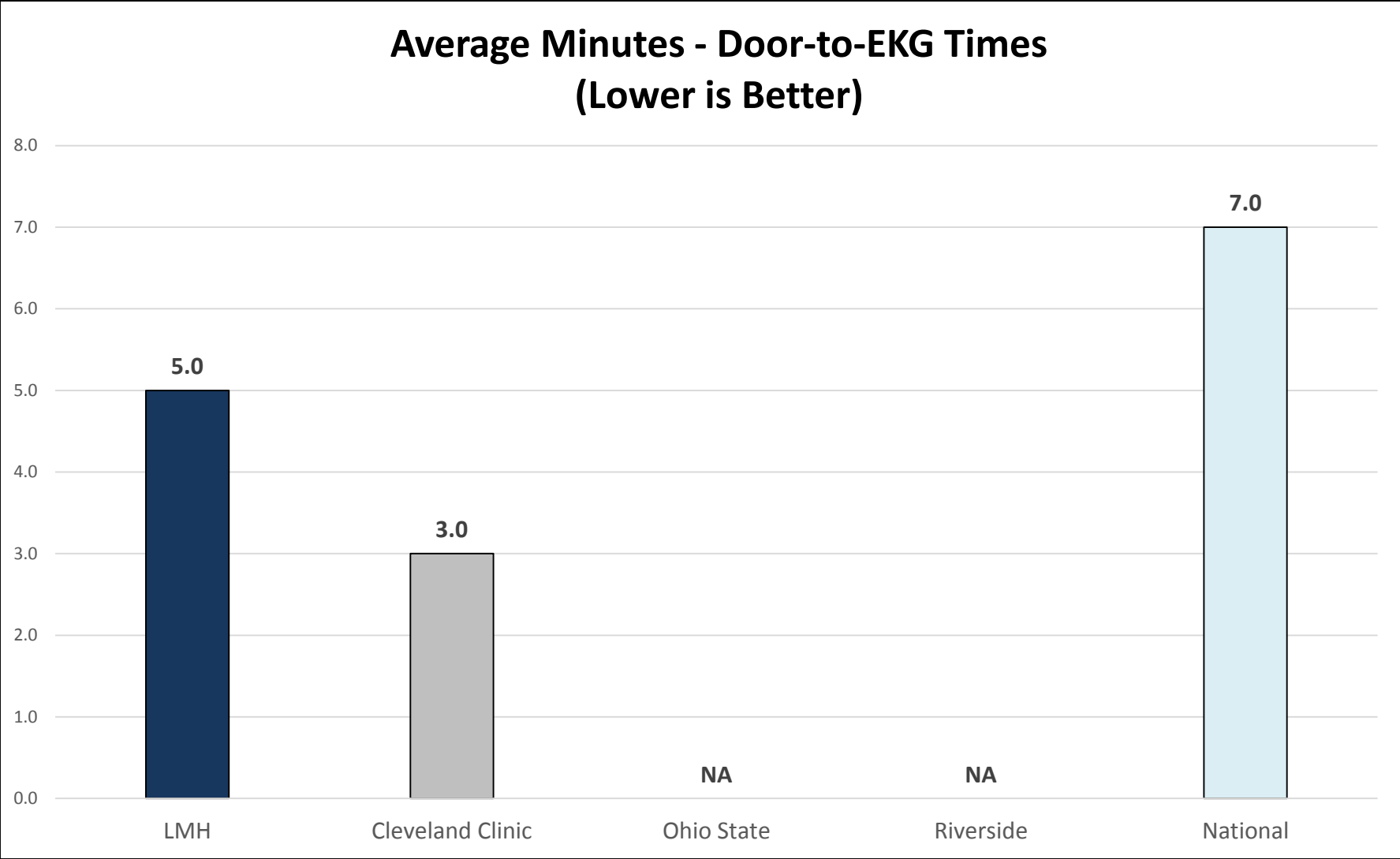
Inpatient Mortality – Deaths in the Hospital
(Lower is Better)



Licking Memorial Hospital Quality Indicators

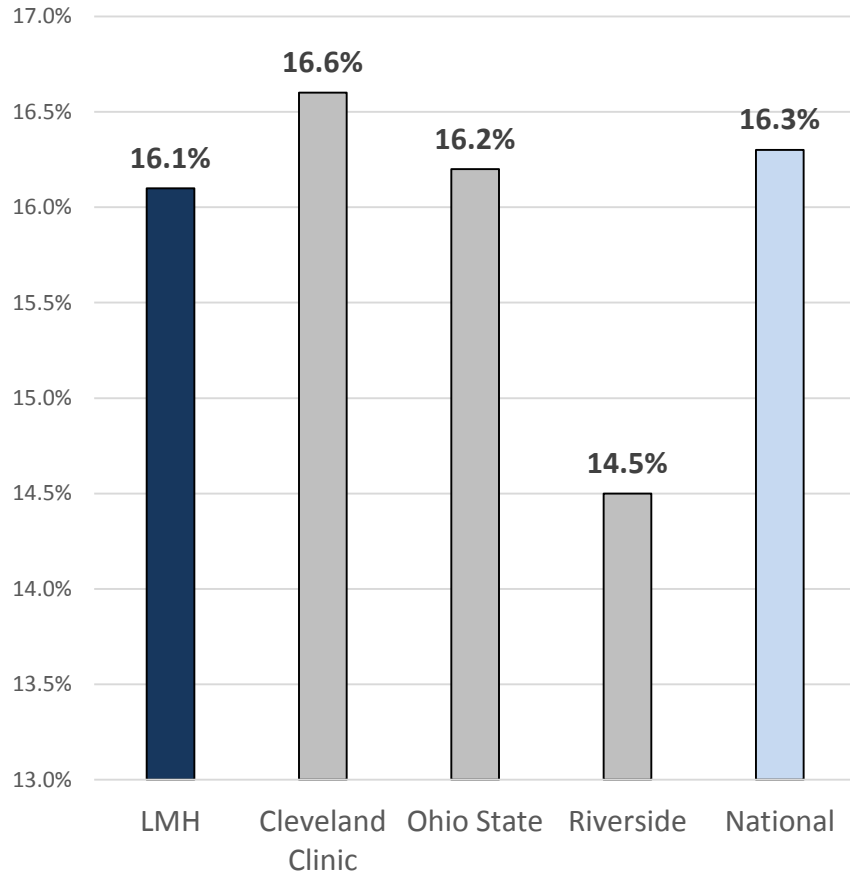


Licking Memorial Hospital Clinical Quality Indicators

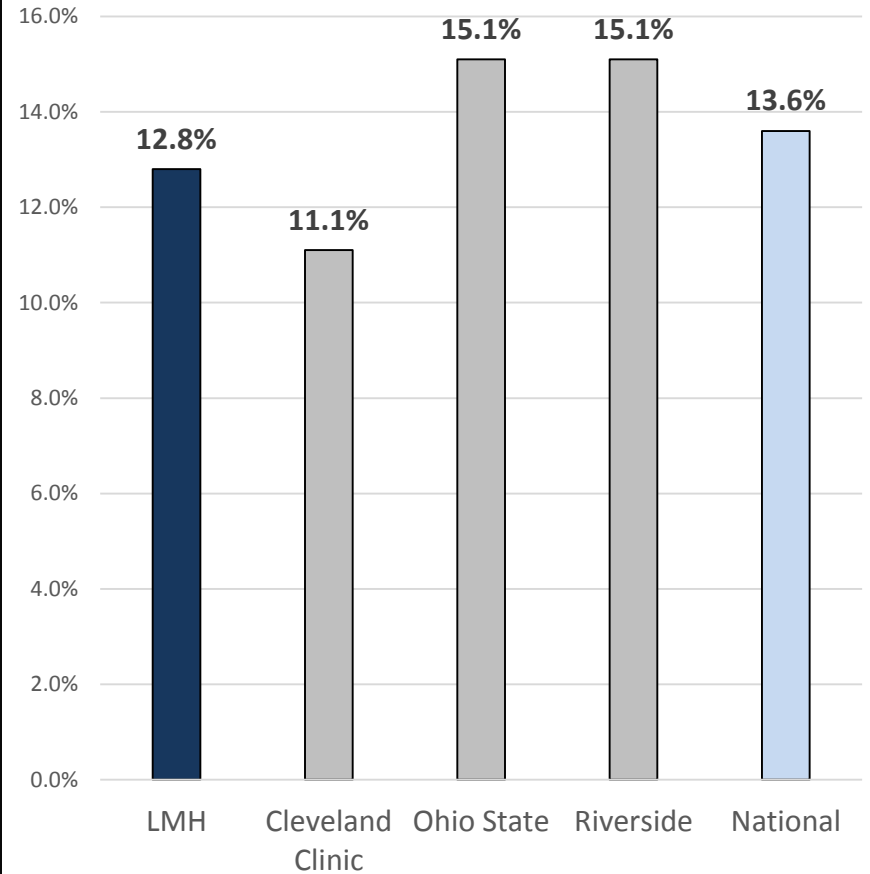


Licking Memorial Hospital Readmissions/Mortality

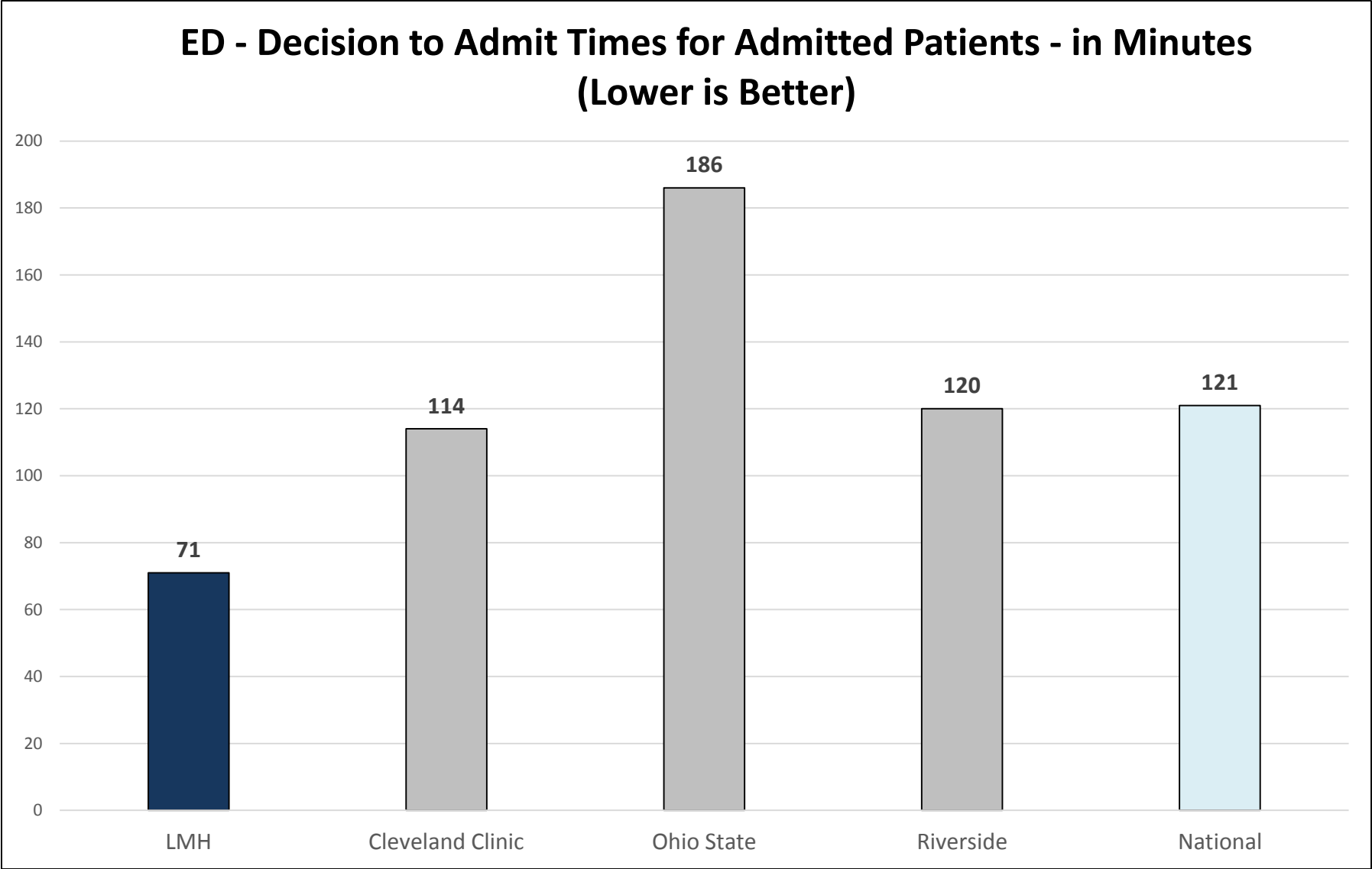
**Heart Attack - 30 Day Readmission Rate
(Lower is Better)**



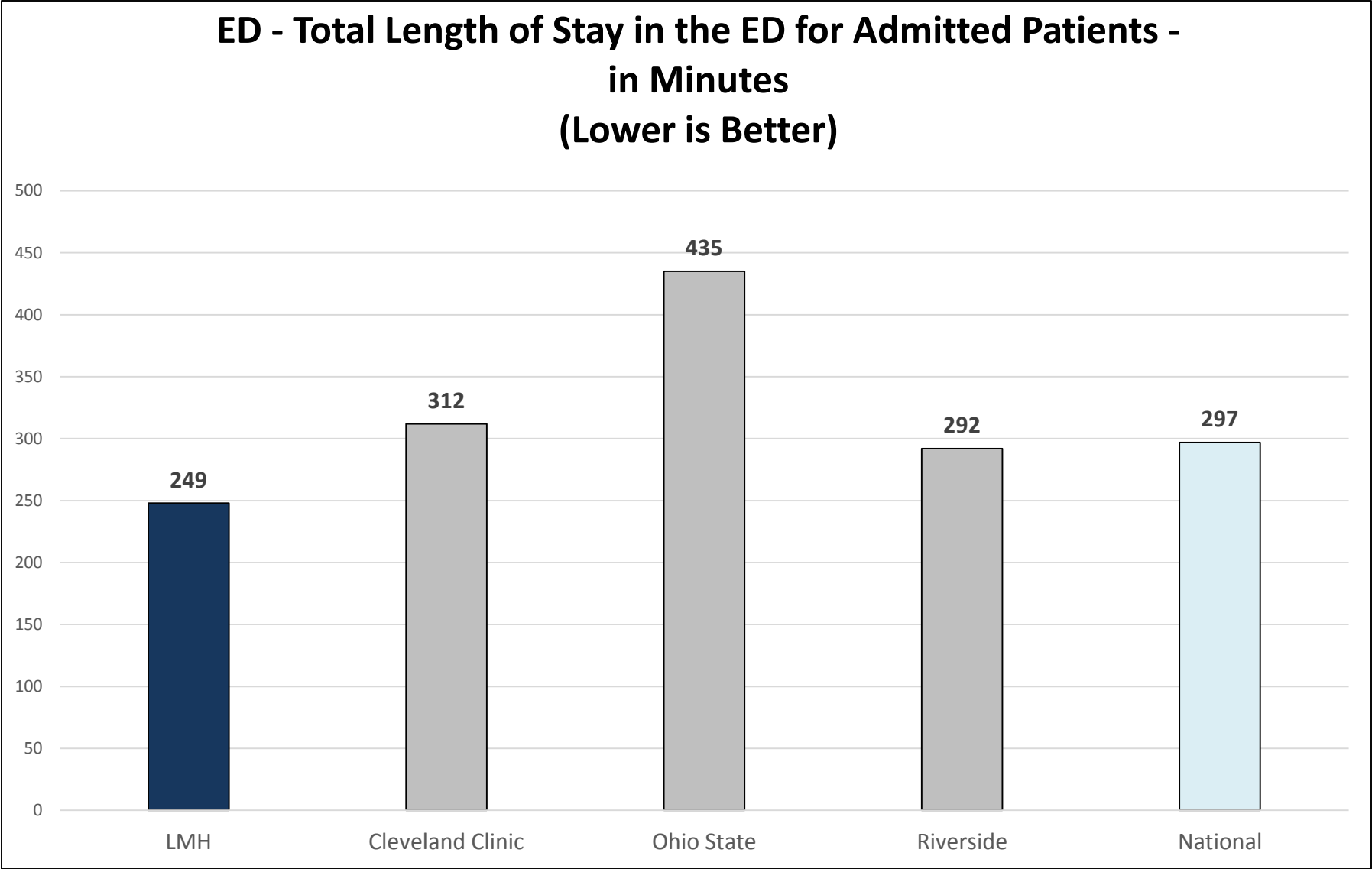
**Heart Attack - 30 Day Mortality Rate
(Lower is Better)**



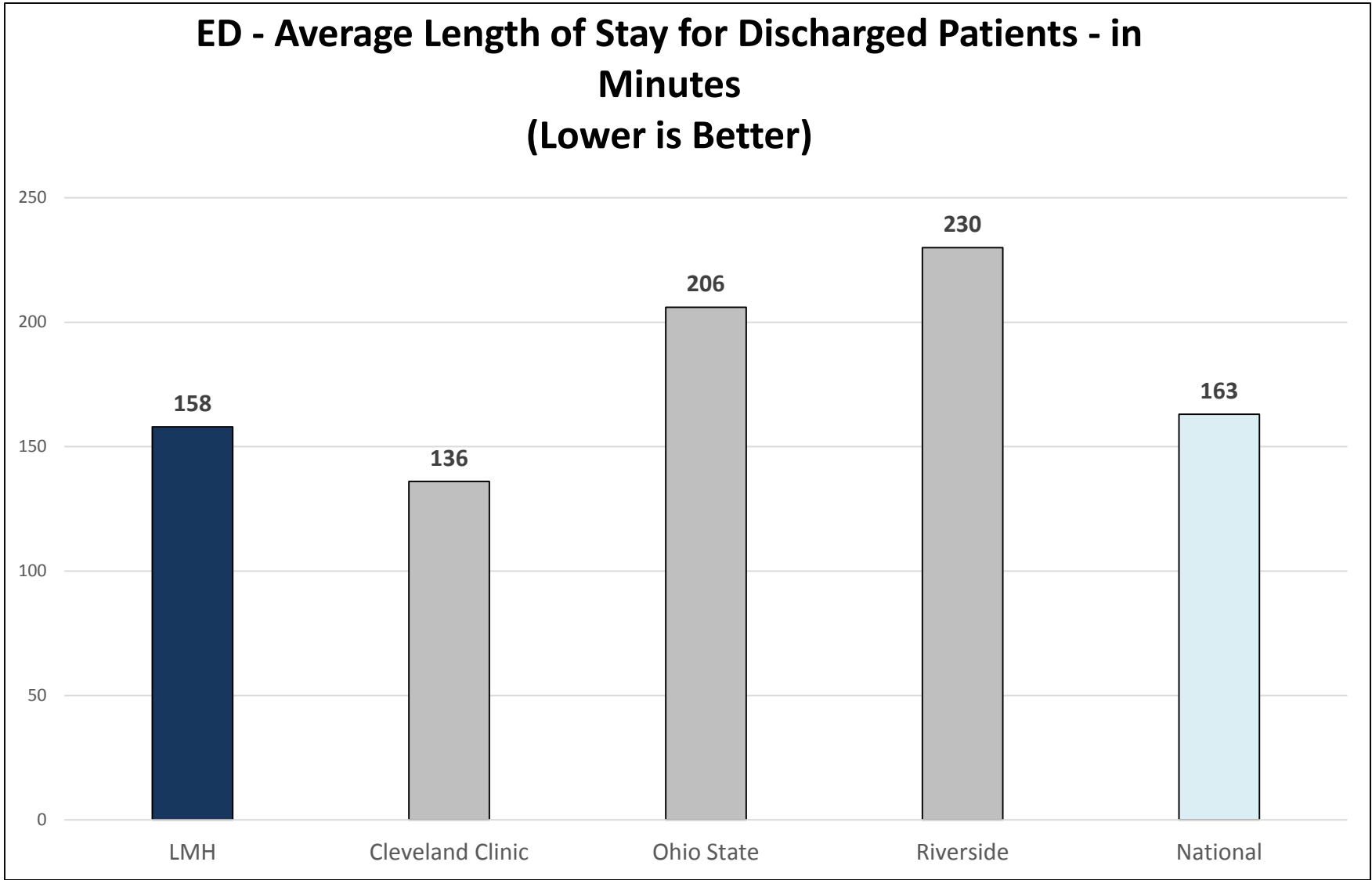
Licking Memorial Hospital Clinical Quality Indicators



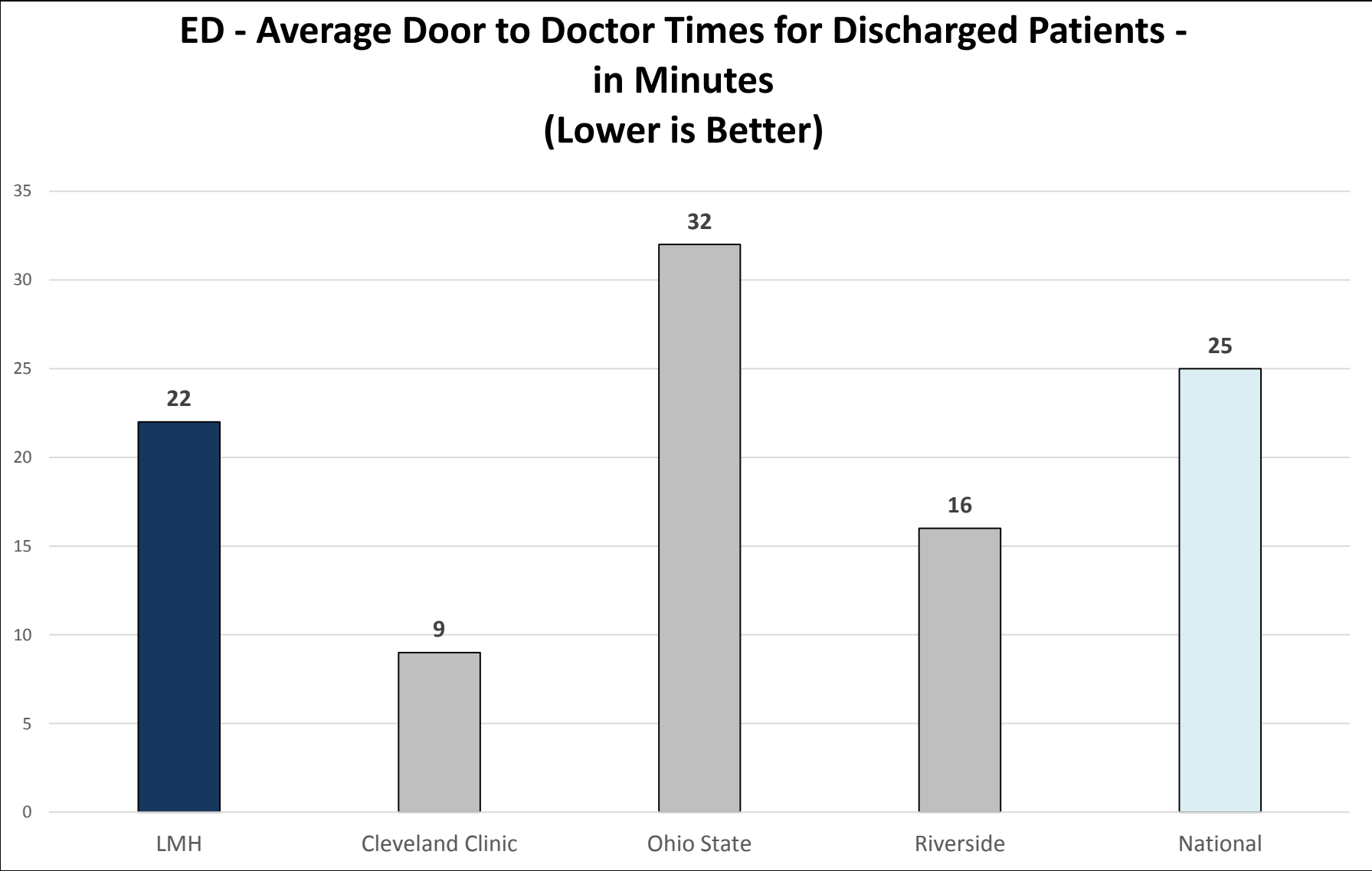
Licking Memorial Hospital Clinical Quality Indicators



Licking Memorial Hospital Clinical Quality Indicators

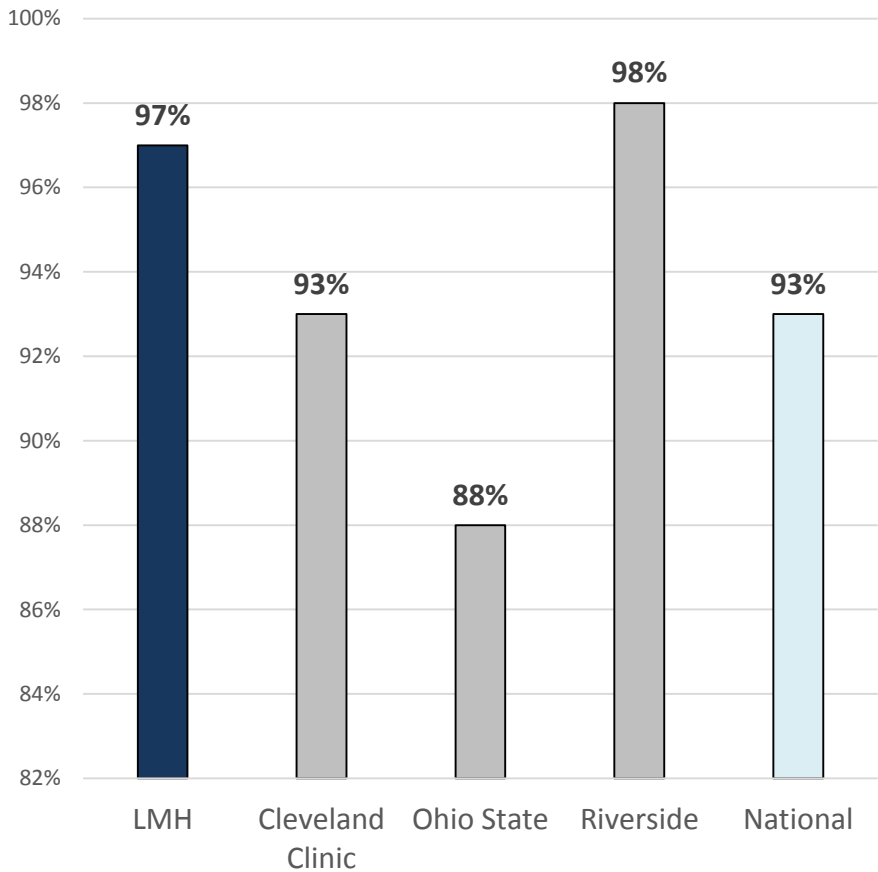


Licking Memorial Hospital Clinical Quality Indicators

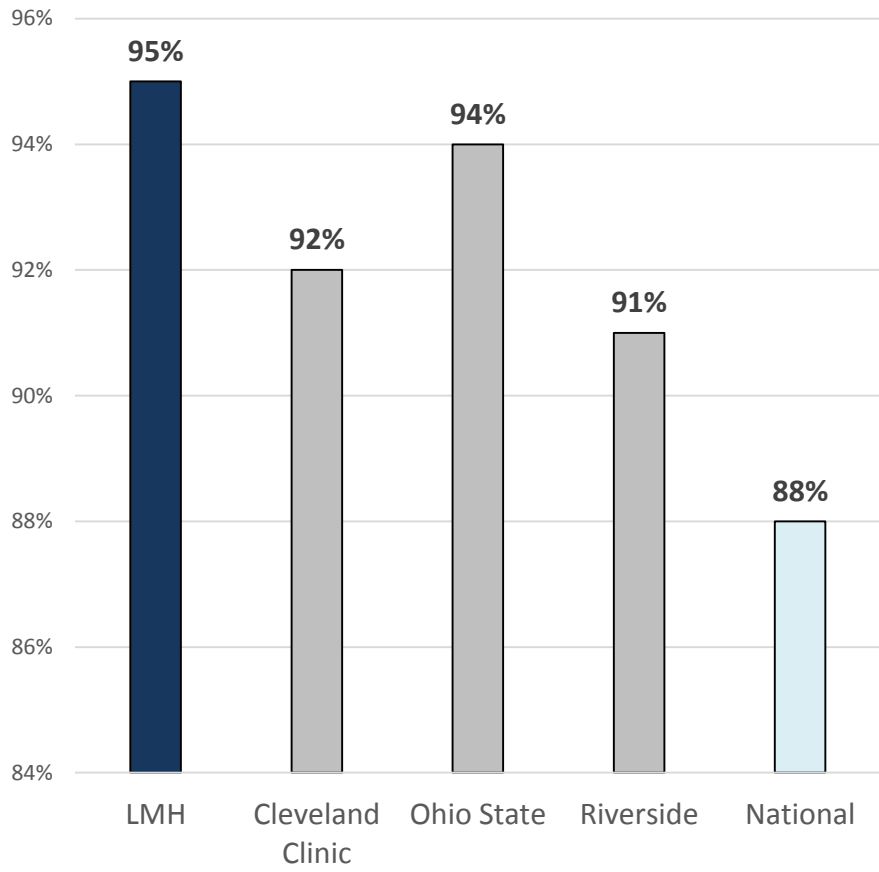


Licking Memorial Hospital Clinical Quality Indicators

**Preventive Care - Influenza
Vaccination of Inpatients
(Higher is Better)**

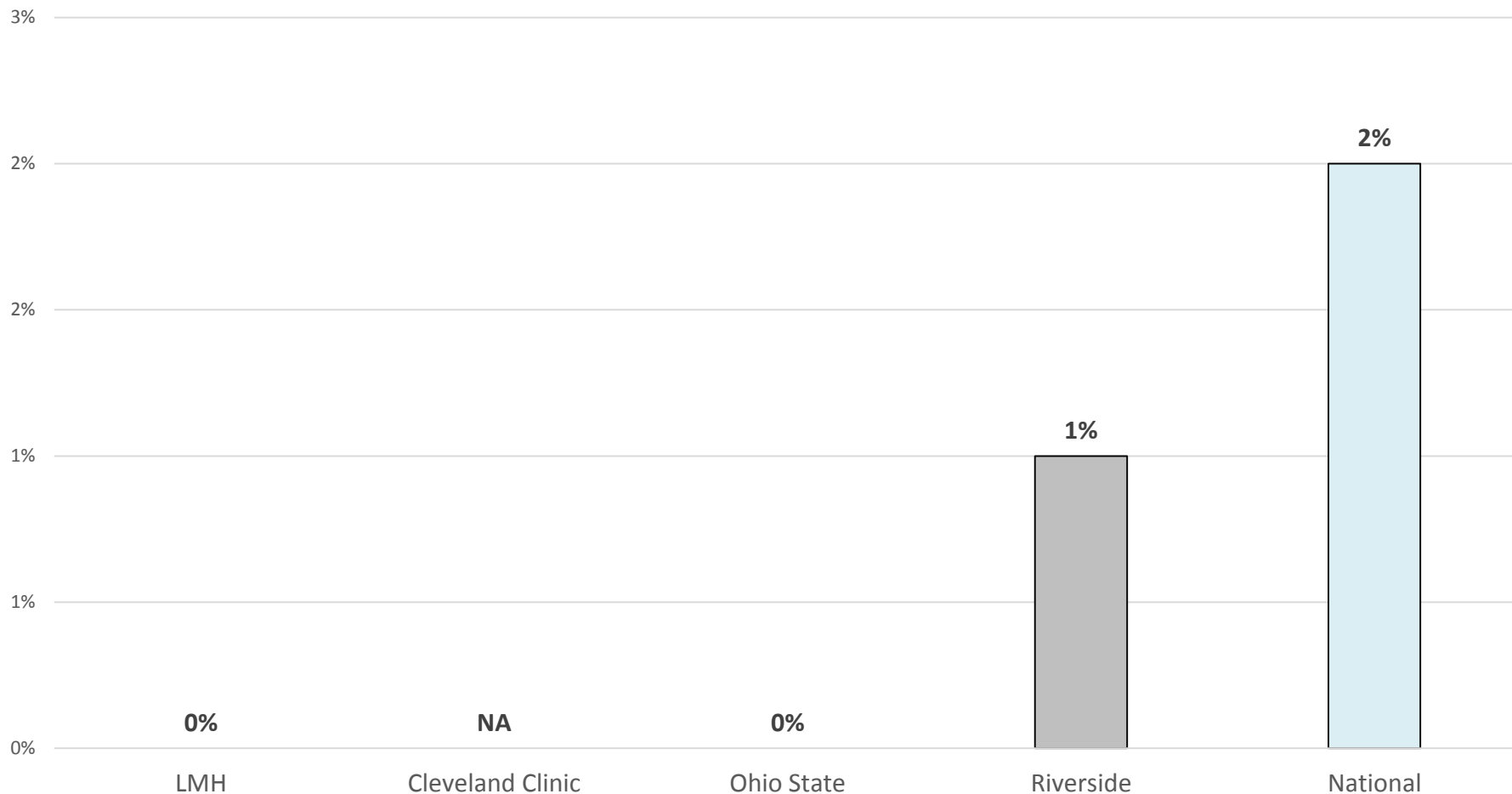


**Preventive Care - Healthcare
Worker Influenza Vaccination
(Higher is Better)**



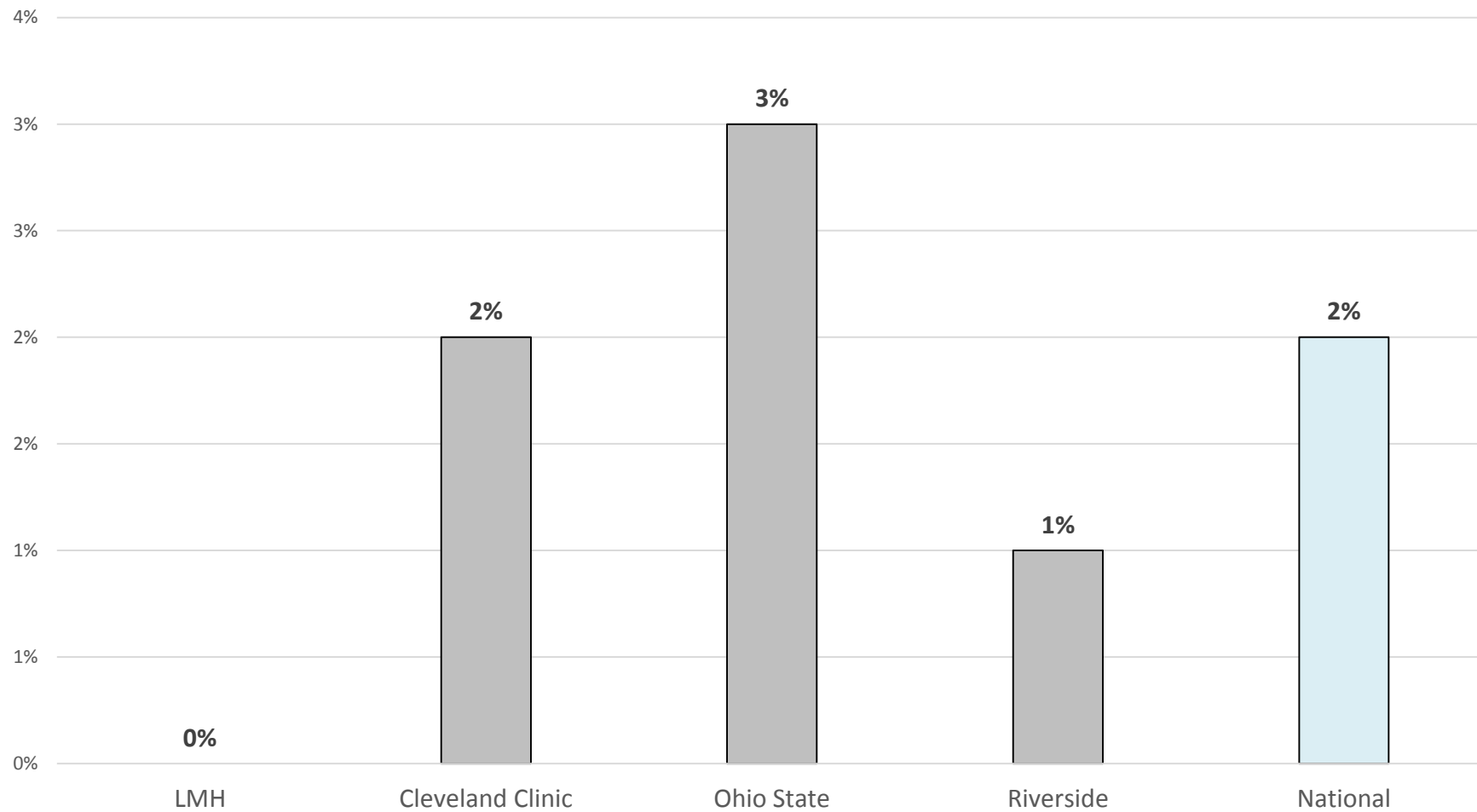
Licking Memorial Hospital Quality Indicators

Perinatal Care - Percentage of Unnecessary Scheduled Deliveries (Lower is Better)



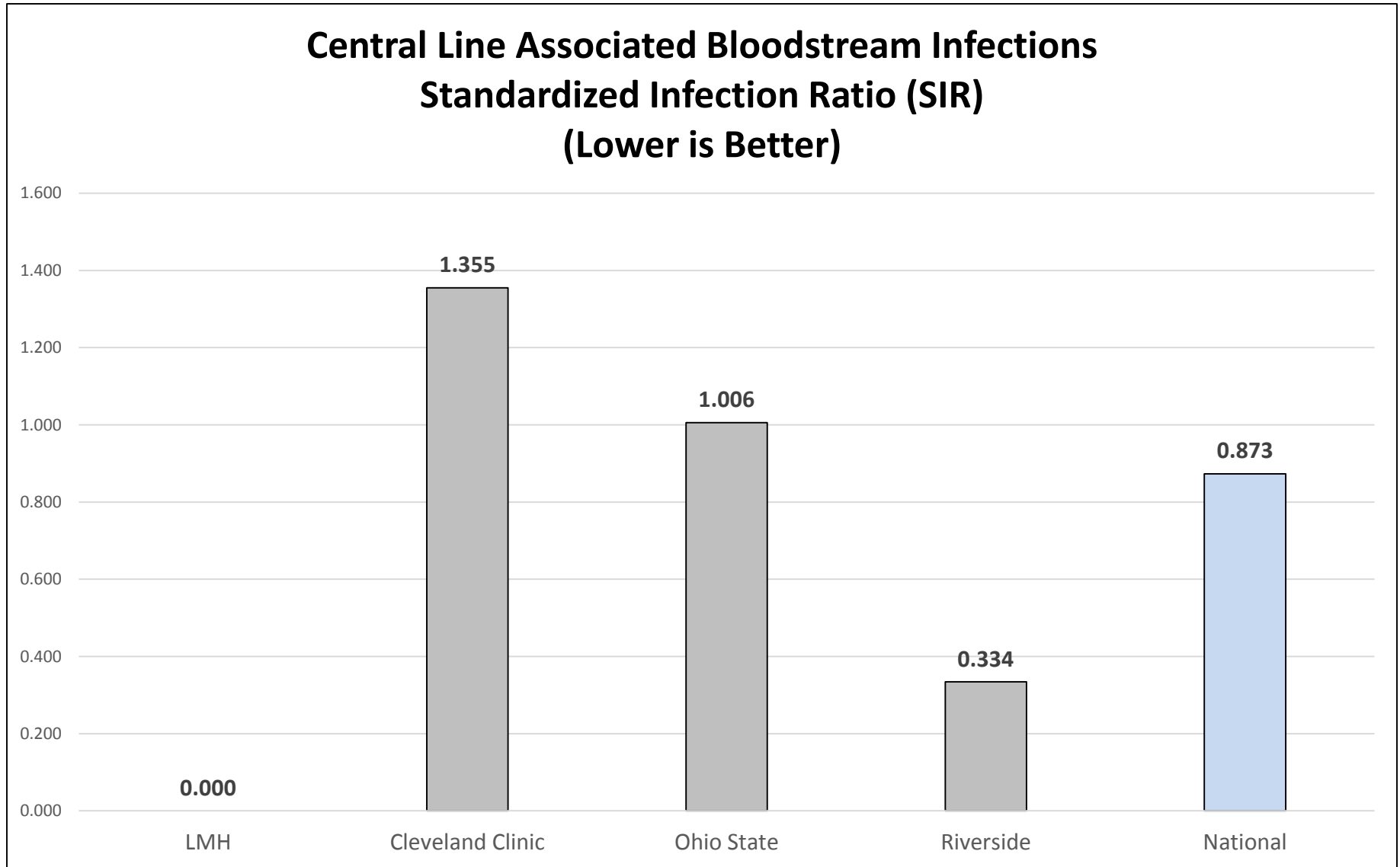
Licking Memorial Hospital Quality Indicators

Blood Clots - Incidence of Preventable VTE (Lower is Better)

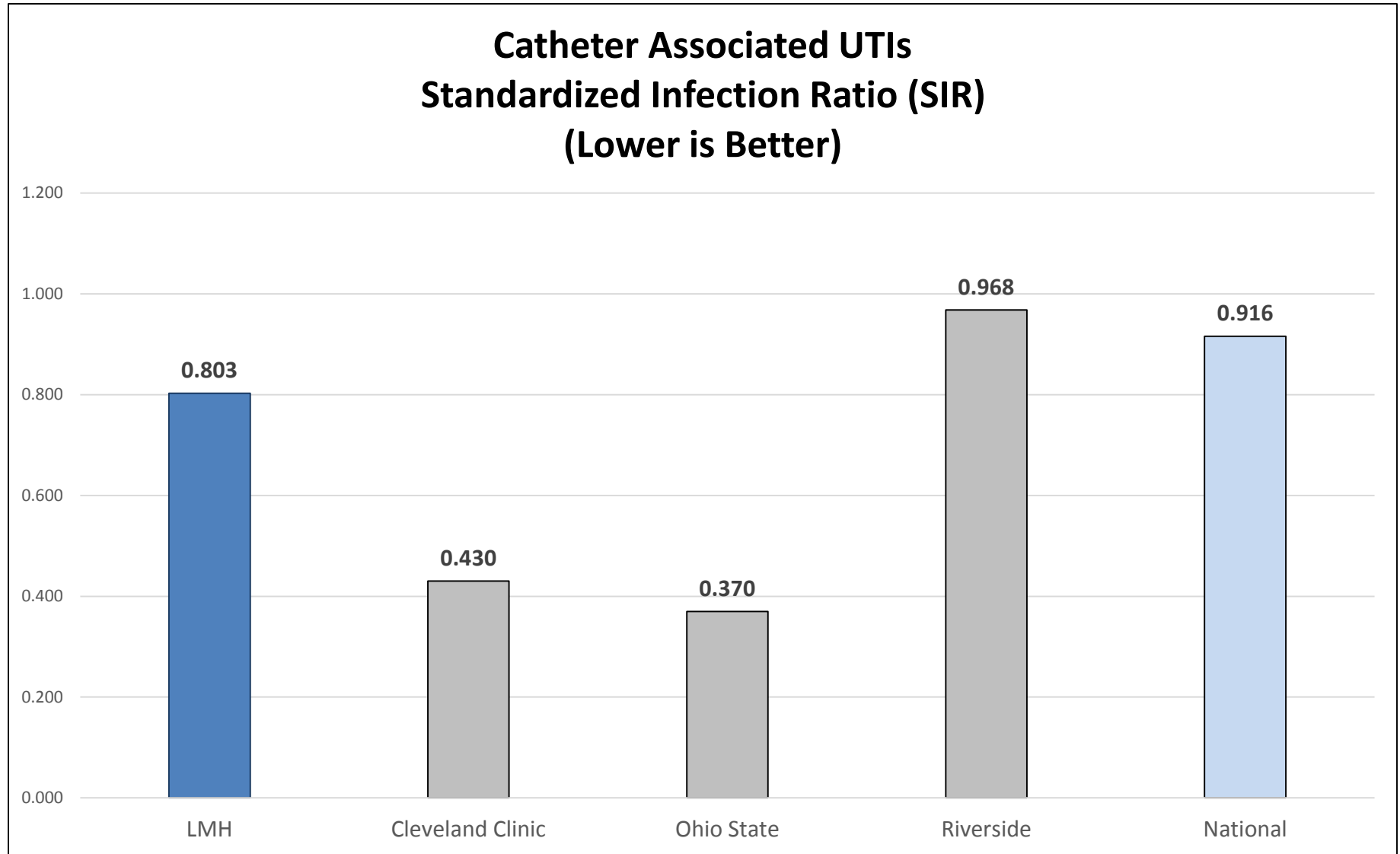


Licking Memorial Hospital Complications

Central Line Associated Bloodstream Infections Standardized Infection Ratio (SIR) (Lower is Better)

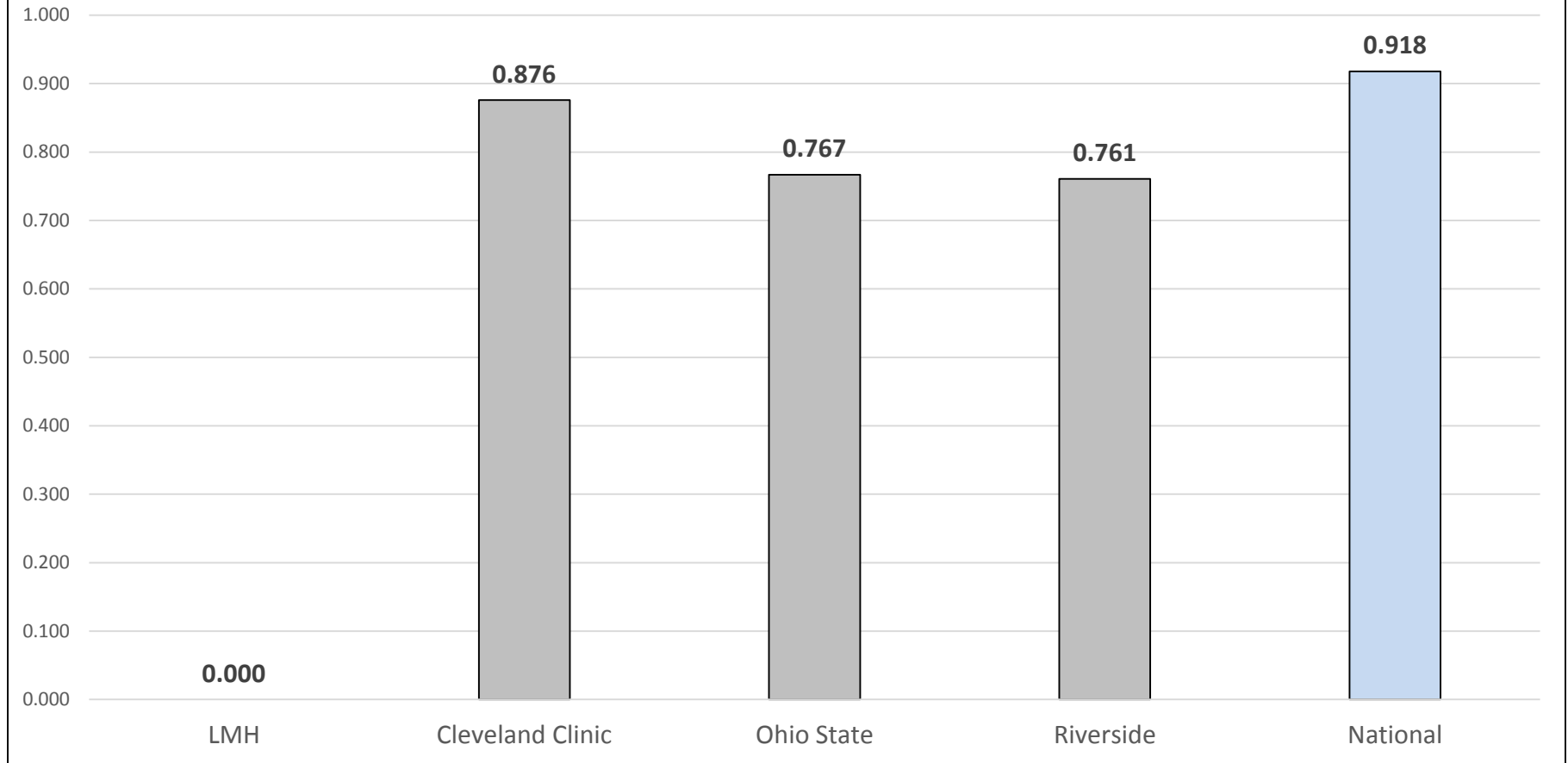


Licking Memorial Hospital Complications



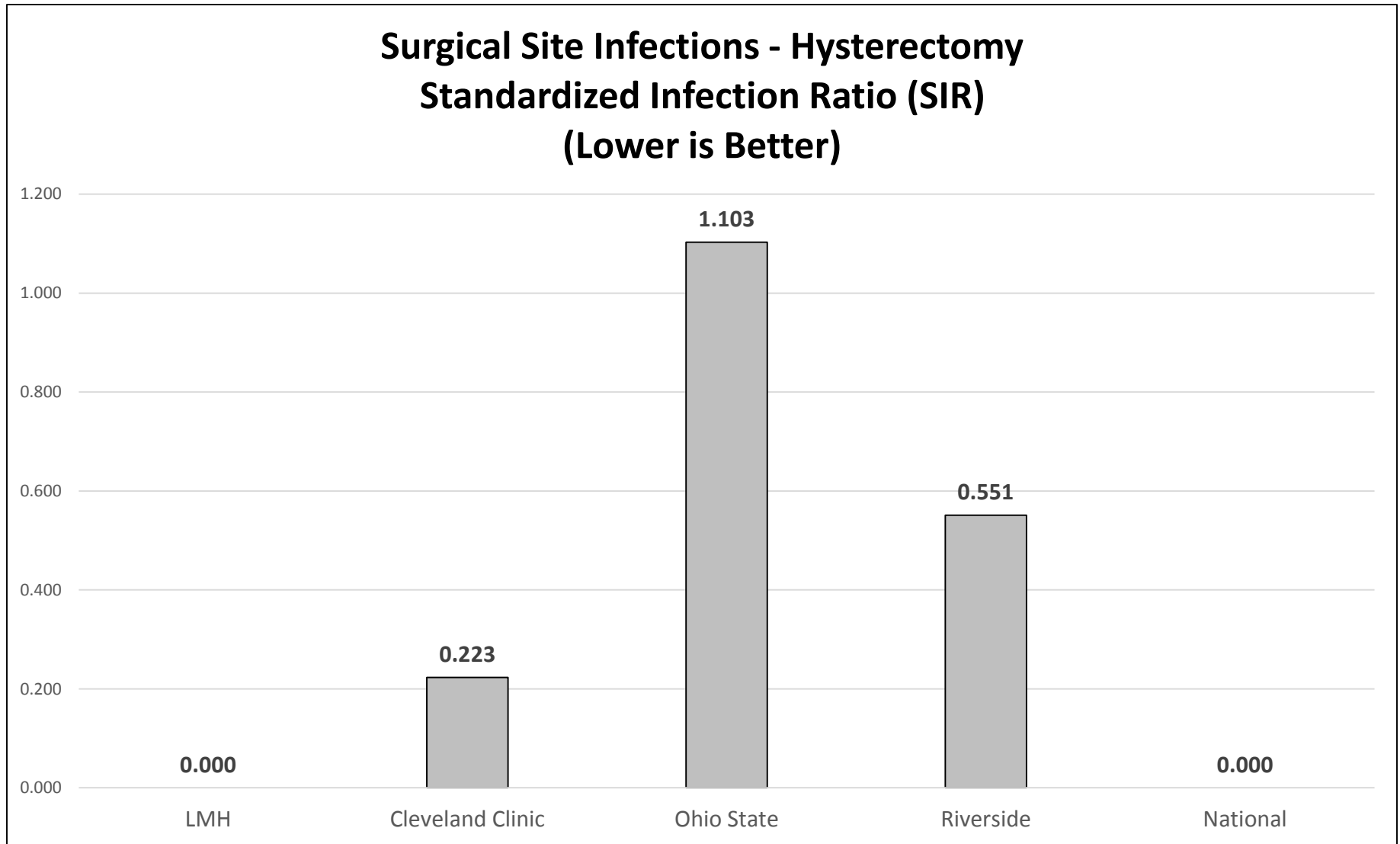
Licking Memorial Hospital Complications

Surgical Site Infection - Colon Surgery Standardized Infection Ratio (SIR) (Lower is Better)



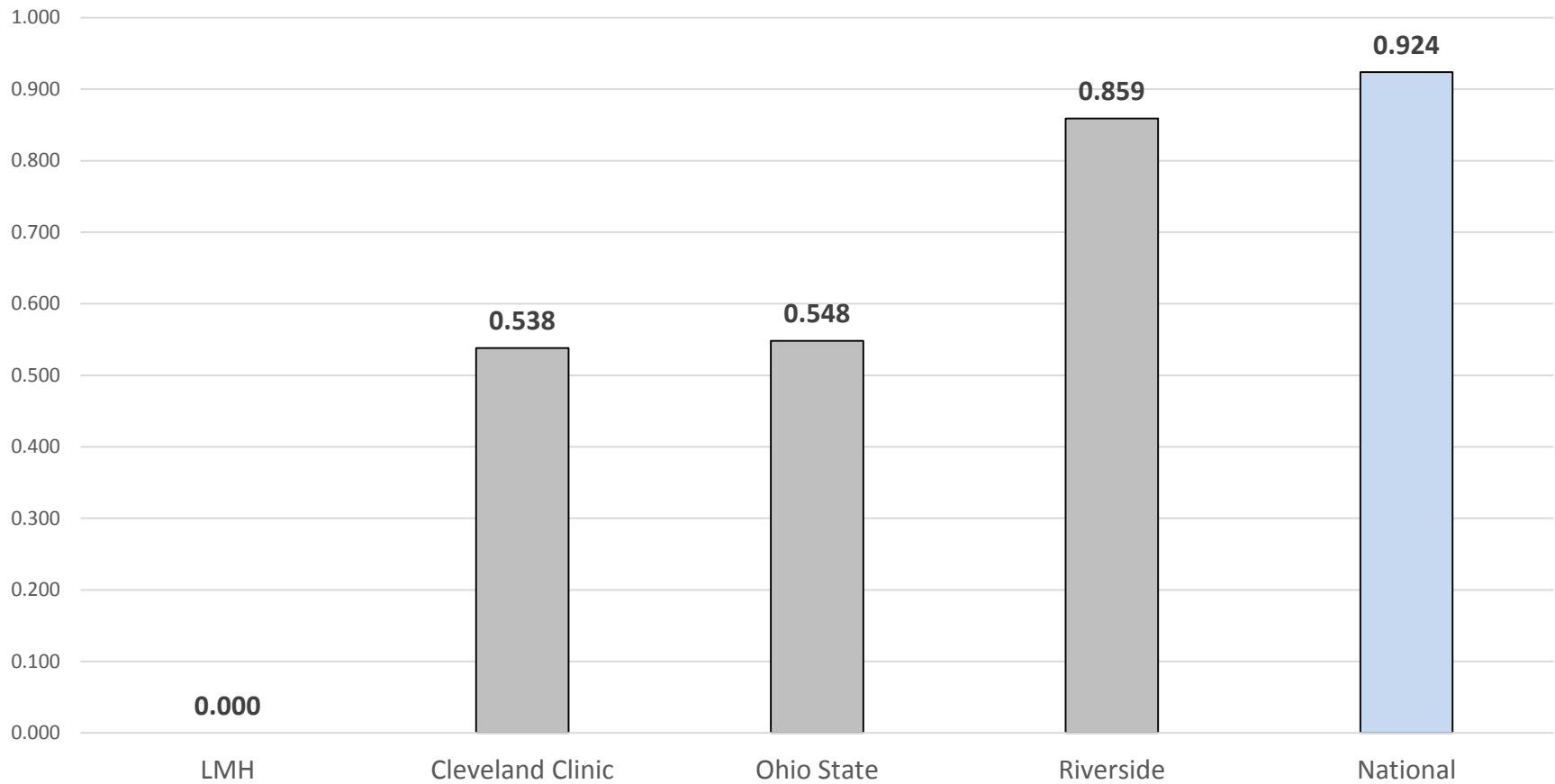
Licking Memorial Hospital Complications

Surgical Site Infections - Hysterectomy Standardized Infection Ratio (SIR) (Lower is Better)

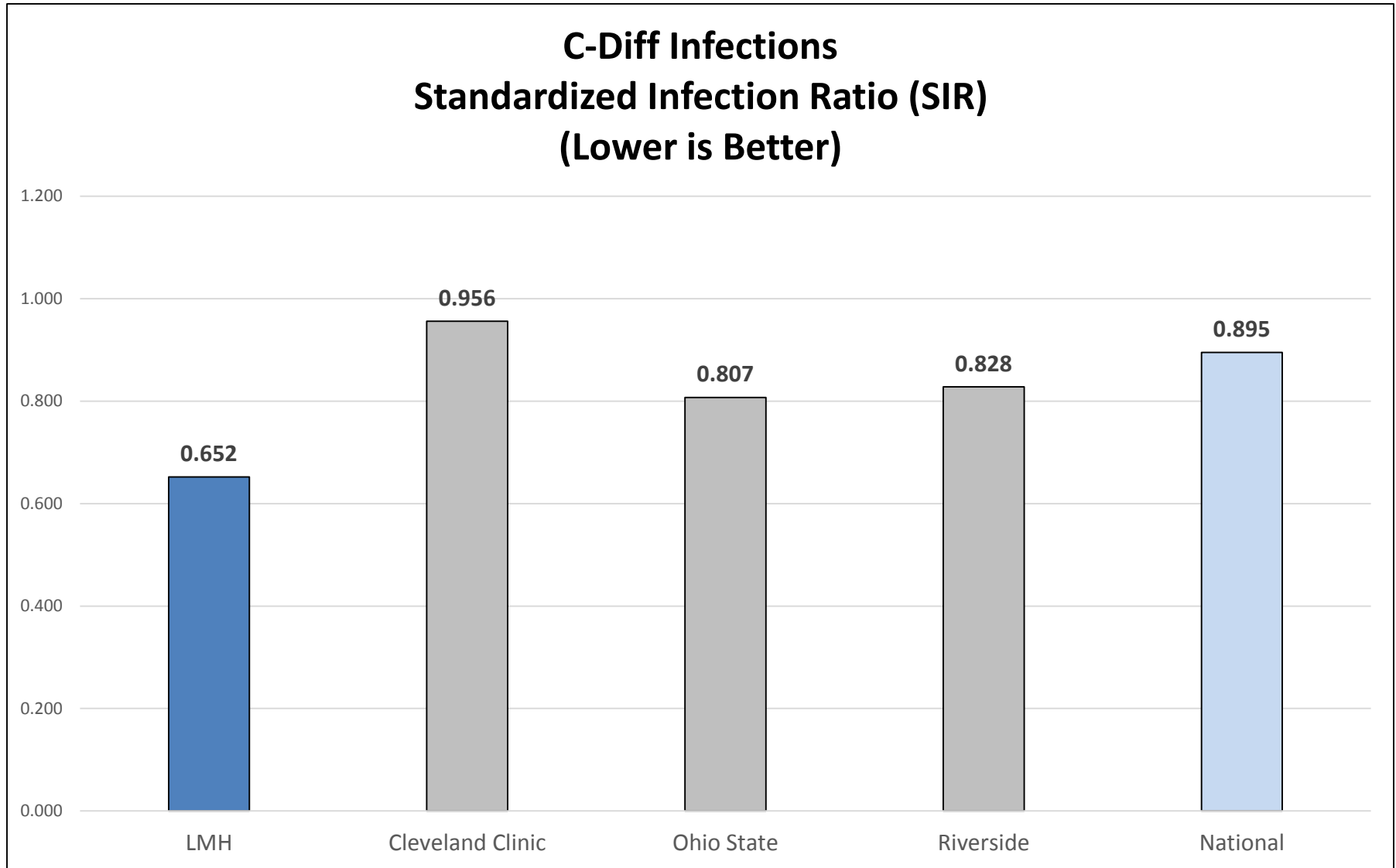


Licking Memorial Hospital Complications

MRSA Bloodstream Infections Standardized Infection Ratio (SIR) (Lower is Better)

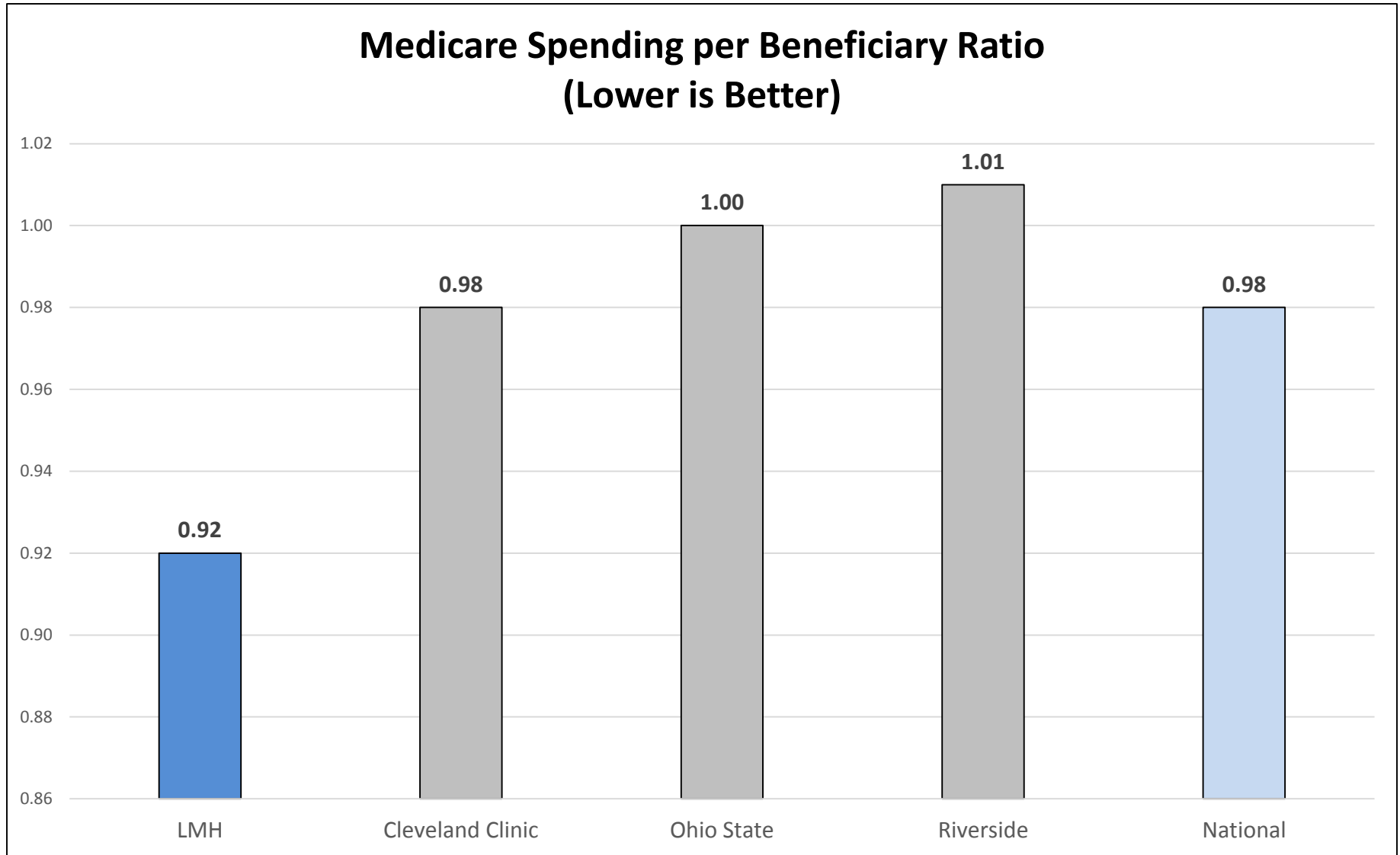


Licking Memorial Hospital Complications



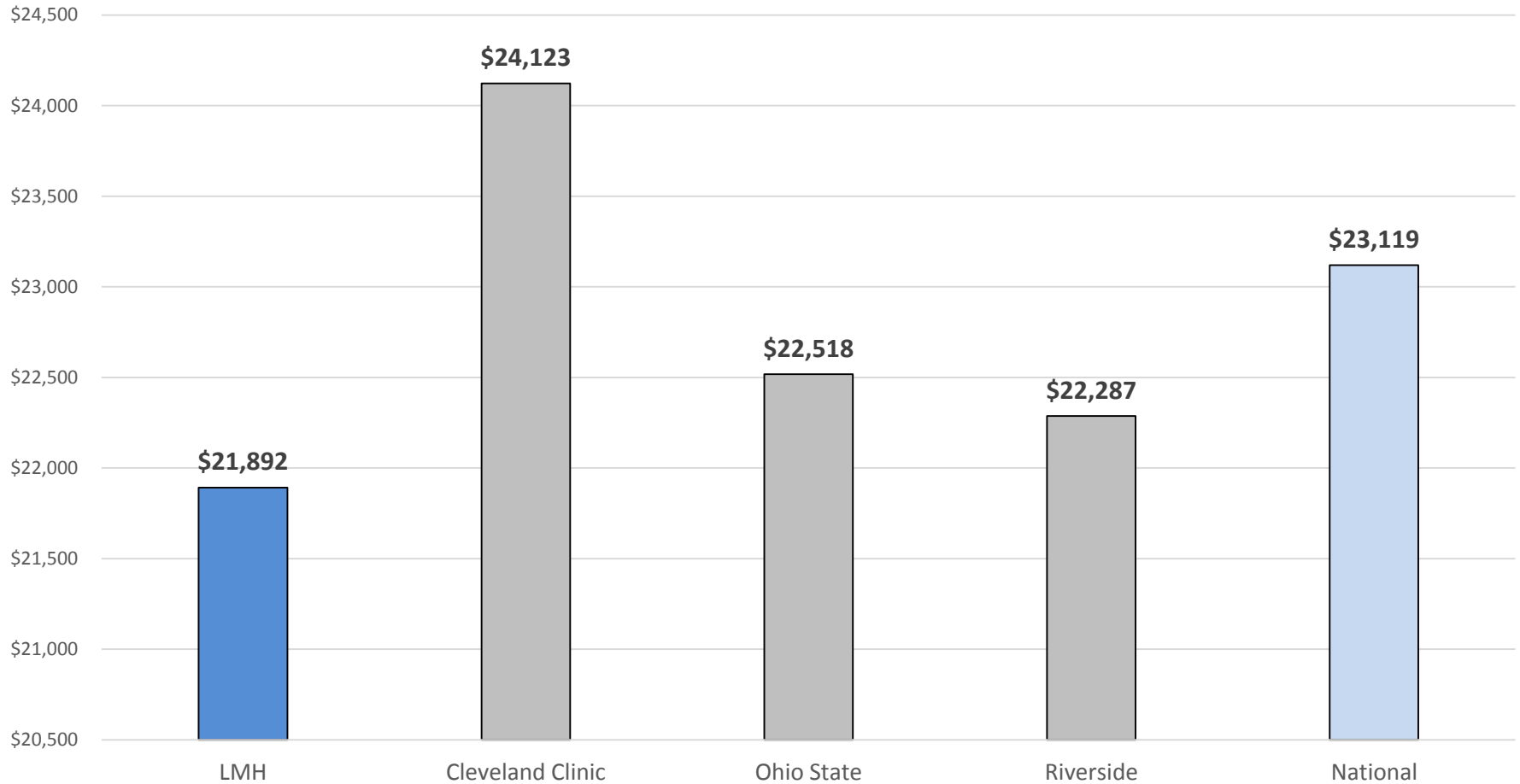
Licking Memorial Hospital Efficiency Indicators

Medicare Spending per Beneficiary Ratio (Lower is Better)



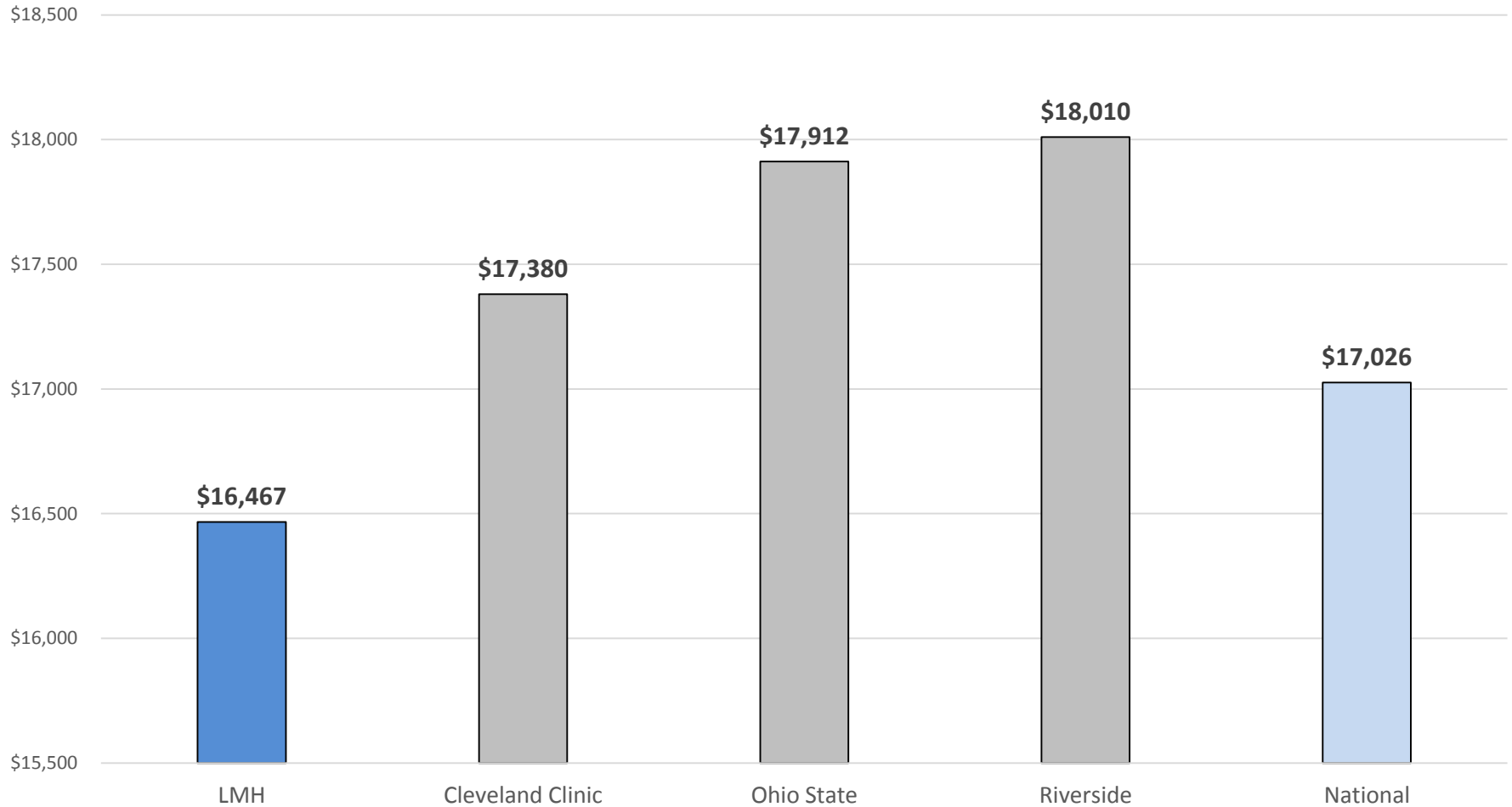
Licking Memorial Hospital Efficiency Indicators

Medicare Payment for Heart Attack Patients (Lower is Better)



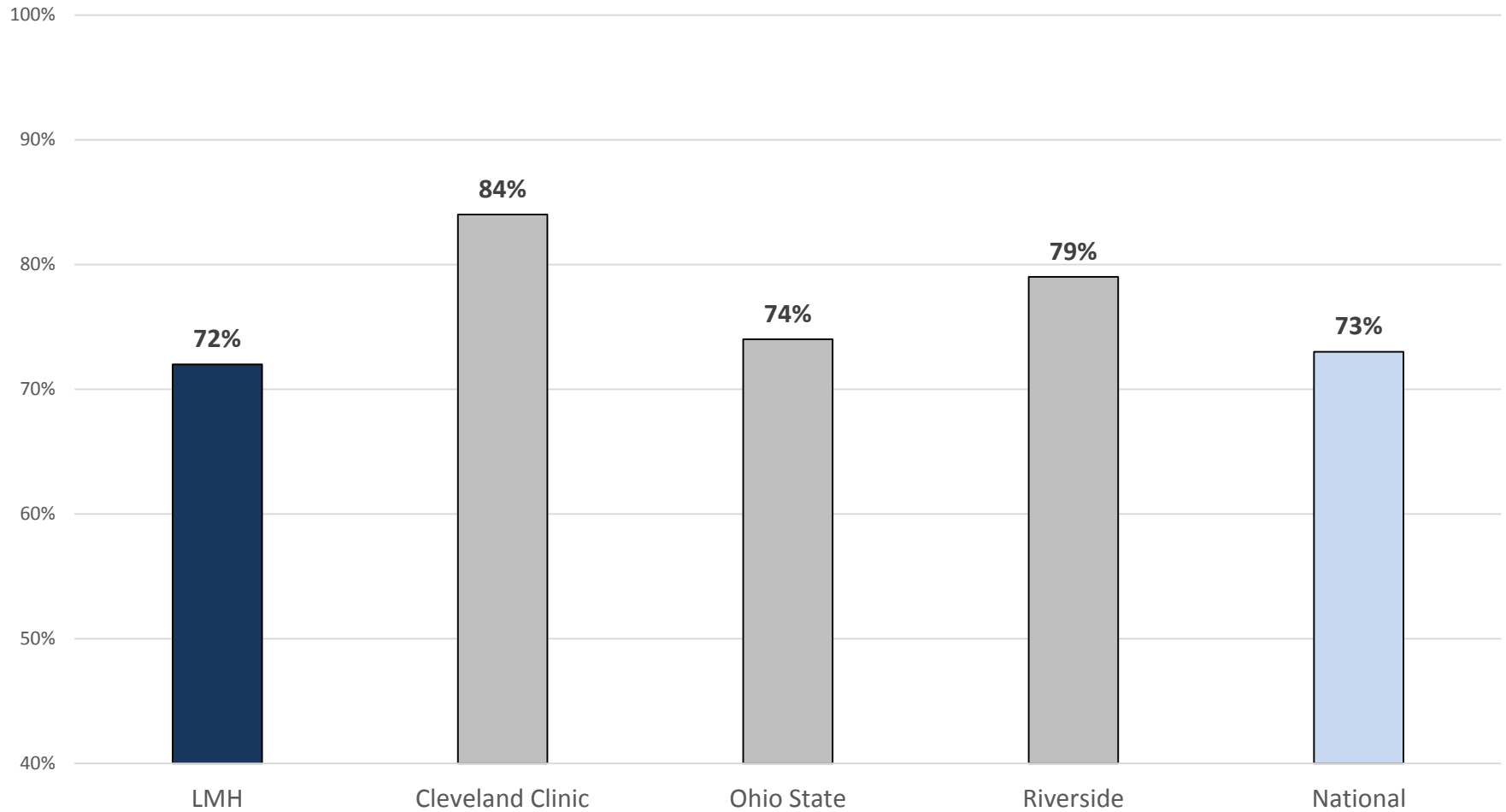
Licking Memorial Hospital Efficiency Indicators

Medicare Payment for Pneumonia Patients (Lower is Better)



Licking Memorial Hospital Efficiency Indicators

Patient Experience - Rate Hospital 9-10 (Higher is Better)



Initiatives Completed in 2017



Early Sense



- Code Blue rate prior to Early Sense = 1.8 per 1,000 patient days
- Code Blue rate after Early Sense = 0.6 per 1,000 patient days
- This is a 67% reduction on units where Early Sense is now in place



Hercules Patient Positioning System



HERCULES™
PATIENT REPOSITIONER

**Safely Repositioning a Patient
with the Push of a Button
in 10 Seconds**



THE **morel**
COMPANY

www.morelcompany.com



Real-time Clinical Communication Telehealth for Heart Failure Clinic



Genetics Navigator

- Implemented hereditary cancer risk assessment (HCRA) in the Women's Health offices and Oncology in December 2014
- To date, we have tested over 1,000 patients for hereditary cancer based on their family history
- 5.2% of the patients tested had positive *actionable* genetic mutations
 - National Average: 5.0%
- 33% of the patients tested were negative for tested gene mutations, but were considered high risk based on their family history
 - Greater than 20% lifetime risk of breast cancer or >5% risk of Lynch Syndrome
- Soon to be implementing new software to collect family history more efficiently to enable HCRA in the family practice offices



Advance Care Planning

- Community Presentations
- Inpatient & Outpatient Consultations
 - State of Ohio Health Care POA
 - State of Ohio Living Will Declaration
 - State of Ohio Do-Not-Resuscitate (DNR) Identification Form



OHA has adopted Sepsis as an initiative because.....

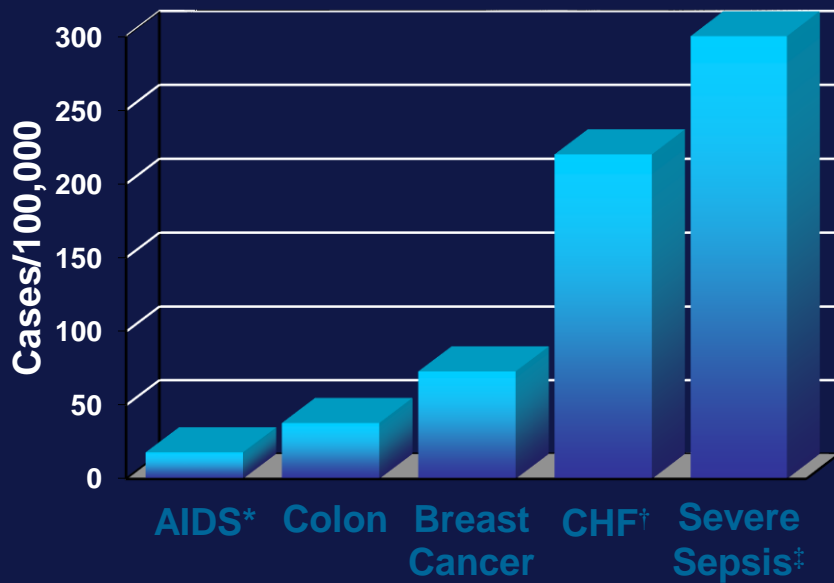
- Frequent
 - 751,000 U.S. cases annually
- Deadly
 - 500 deaths in U.S. **DAILY** (one every 3 minutes)
- Costly
 - Cost per case - **\$22,000 - \$57,000**
- Increasing
 - Estimated increase 1.5% annually



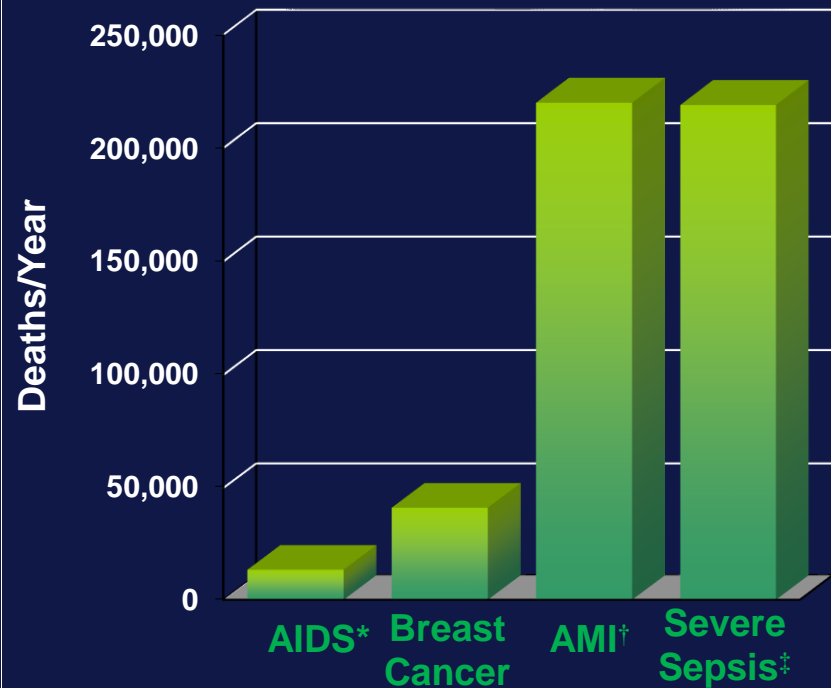
Severe Sepsis

How Common – How Deadly?

Incidence of Severe Sepsis



Mortality of Severe Sepsis

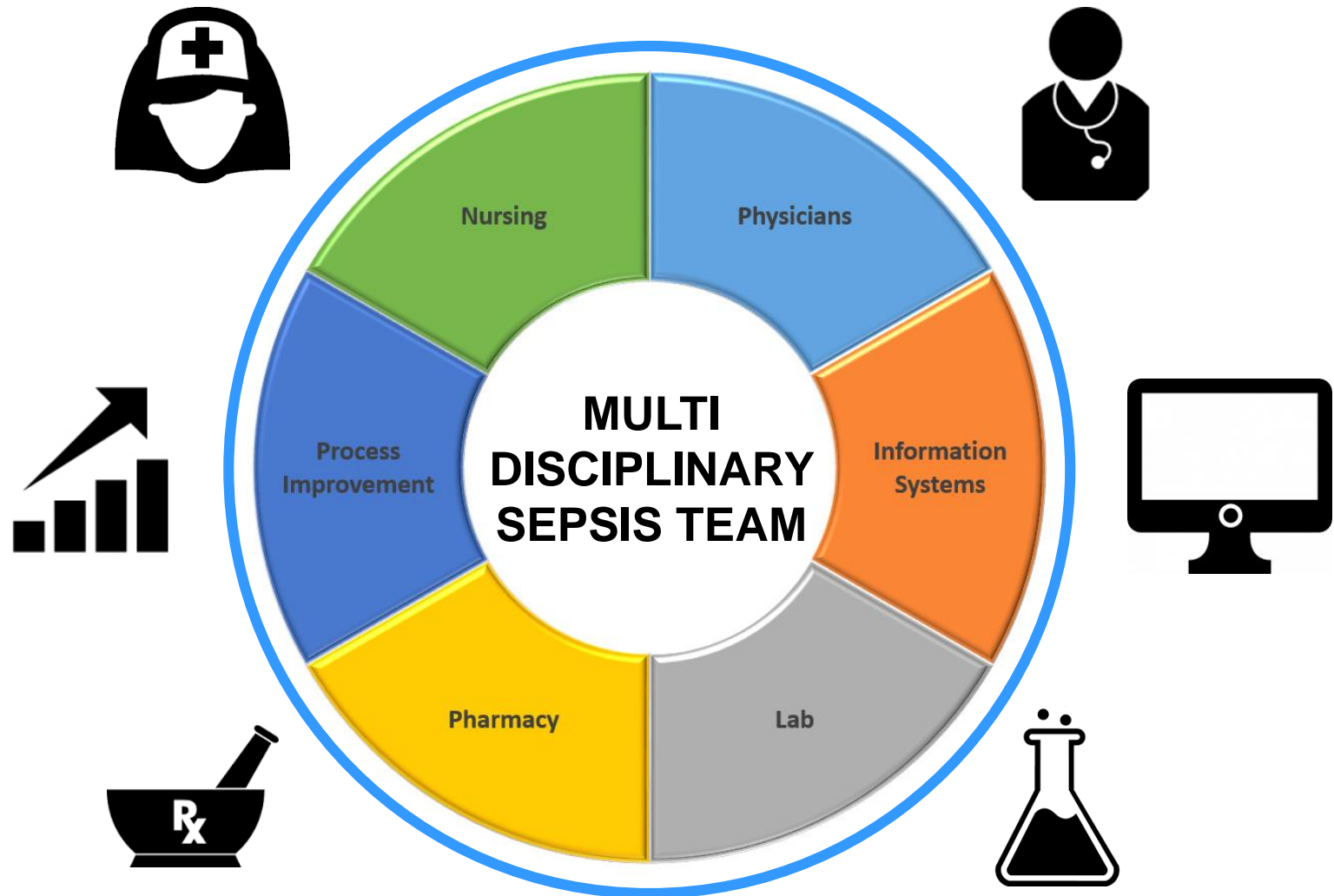


†National Center for Health Statistics, 2001. §American Cancer Society, 2001. *American Heart Association, 2000. ‡Angus DC et al. *Crit Care Med.* 2001 (In Press).





































Partners in Patient Safety

Sepsis Initiatives



Partners in Patient Safety

Sepsis Smart Board

Result	Timer	Last SShock	Last SSep	Location
SEPTIC SHOCK 	88:04	10/16/16 2117		4N 404-2
SEVERE SEPSIS 	45:44		10/18/16 1537	4N 412-2
SEVERE SEPSIS 	45:44		10/18/16 1537	4N 428-2
SEVERE SEPSIS 	131:05		10/15/16 0216	4N 432-2
SEVERE SEPSIS 	129:06		10/15/16 0415	4S 405-2
SEVERE SEPSIS 	2:43		10/20/16 1038	4S 409-2
SEVERE SEPSIS 	5:14		10/20/16 0807	4S 417-2
SEVERE SEPSIS 	12:35		10/20/16 0046	5S 507-2
SEVERE SEPSIS 	45:44		10/18/16 1537	5S 515-2
SEVERE SEPSIS 	45:43		10/18/16 1538	5S 521-2
SEVERE SEPSIS 	66:19		10/17/16 1902	CCU 246-1
SEVERE SEPSIS 	4:58		10/20/16 0823	ICU 208-1
SEVERE SEPSIS 	60:50		10/18/16 0031	ICU 210-1
SEVERE SEPSIS 	45:44		10/18/16 1537	STDN 271-1
SEVERE SEPSIS 	69:12		10/17/16 1609	STDN 274-1
SEVERE SEPSIS 	52:38		10/18/16 0843	STDN 276-1
POSSIBLE SEPSIS 	5:19			4N 434-1
POSSIBLE SEPSIS 	169:41		10/13/16 1140	4S 411-2
SIRS 				4N 414-2
SIRS 				4N 420-2
SIRS 				4N 436-1
SIRS 				4S 427-2
SIRS 				4S 435-1
SIRS 				4S 437-1
SIRS 				5S 519-2
SIRS 				5S 529-2
SIRS 				CCU 244-1
SIRS 				CCU 245-1
SIRS 				CCU 248-2
SIRS 				ICU 200-1
SIRS 				ICU 209-1
SIRS 				STDN 275-1
NEGATIVE 				4N 402-2
NEGATIVE 				4N 404-1
NEGATIVE 				4N 406-2
NEGATIVE 				4N 408-2

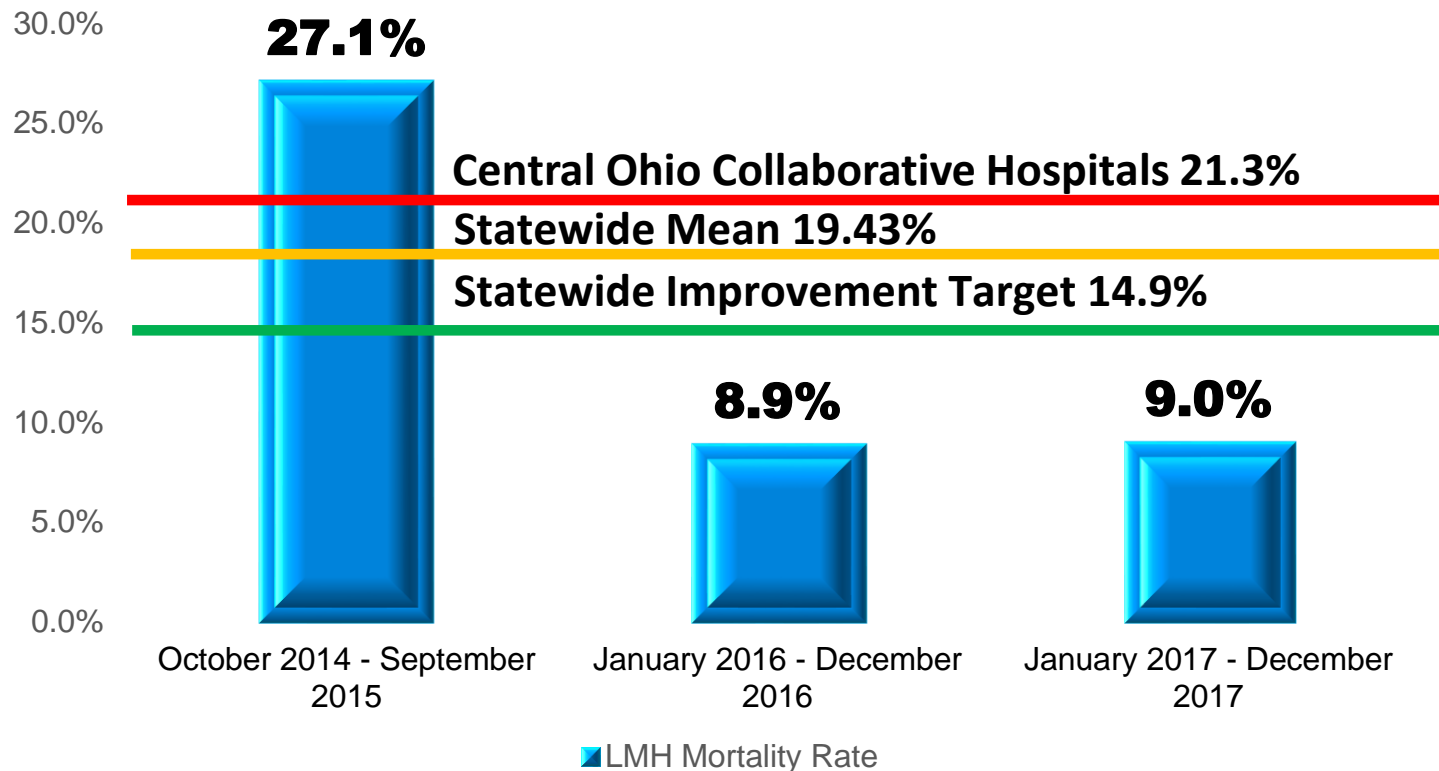


Patient Impact

Mortality Reduced

Sepsis Mortality Rate for Patients Diagnosed with Severe Sepsis or Septic Shock

An
Estimated
59 Additional
Lives Saved in
2017



Nearly a 70% decrease in mortality sustained



Additional Completed Initiatives

- Replaced all anesthesia machines
- Arthroscopy Surgical Equipment
- Endoscopic Ultrasound
- Homecare Telehealth
- Secure Texting for Physicians and Staff
- Aspen Breast by MRS Systems, Inc.
- CliniSync Community Health Record
- Stellate Ganglion Block for PTSD
- Tumor Spine Ablation – for painful metastatic lesions of the spine



Completed Initiatives - Continued

- Meditech MHealth App to access Patient Portal
- Dermatology adds Mohs Surgery to remove cancer tissue
- ENB (electromagnetic navigational bronchoscopy) Biopsy provides a more efficient, safer outcome for patients
 - The best and most effective method of obtaining biopsies of the lung to assist in cancer diagnosis, staging and treatment
- Margin probe
- Food Rx program



2018

Initiatives in the Works and Those Yet to Come



Radiology Initiative

- Numerous equipment upgrades
- Undergoing significant renovation and re-design
- Room renovation and redesign to be completed by Spring 2018



Cardiology Department Renovations

- Significant departmental renovations
- Increased room size for patient comfort
- Additional room for rehabilitation & technological services
- Renovations are expected to be completed by March 2018



Nurse Call Light System

- Customizable touch screen panel in patient rooms
- Integrates to the EMR allowing automation of dome light functionality
- Color-coded patient status lights in hall
- Pillow speakers have specific options for patient to call for water, pain medication, or the toilet
- Bathroom pull speakers with two-way communication in select locations
- Robust reporting to help manage call light response time



ScottCare

- Industry-leading cardiac rehab telemetry technology to monitor patients while exercising
- System integrates with our EMR allowing telemetry monitoring to directly feed into the EMR and marries up with documentation by staff
- iPads allow for staff mobility in rehab while monitoring patients
- System assists with development of Individualized Treatment Plans which is required for rehab programs
- Direct integration into the AACVPR registry for accreditation
- Can also be used to support pulmonary rehab services



Communication Pagers Replaced with HIPAA Compliant Secure Texting



Additional 2018 Initiatives

- Health Coaches
- Follow-up Clinic
- Comprehensive Electronic Health Record
- Transportation



Questions?

