Quality Transparency Dashboard

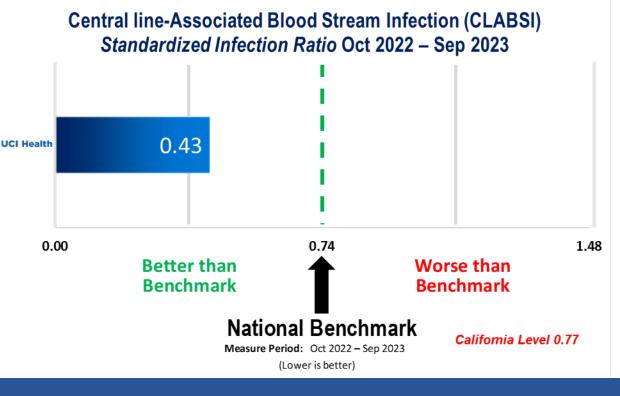
- In collaboration with the Hospital Quality Institute (HQI), the Patient Safety Movement Foundation (PSMF) and the California Hospital Association (CHA)
- Includes a succinct expression of 5 quantitative outcome measures and 3 program status measures, as well as consumer-level explanations and limitations of each measure

Five Outcome Measures

- 1. Central line-Associated Blood Stream Infection (CLABSI)
- 2. Colon Surgical Site Infection (SSI)
- 3. Nulliparous, Term, Singleton, Vertex (NTSV) Cesarean Birth Rate
- 4. Sepsis Mortality
- 5. All-Cause 30-day Unplanned Readmission Rate



CLABSI



What are we doing to improve:

UCI Health has an ongoing CLABSI performance improvement team that supports best practices for insertion, maintenance and discontinuation of central lines. The team regularly performs central line quality rounds to ensure that our central lines are maintained at the highest level. The team facilitates an in-depth review of all CLABSI cases to assess for apparent causes and routinely follows up on actions items developed during these reviews to ensure they are completed.

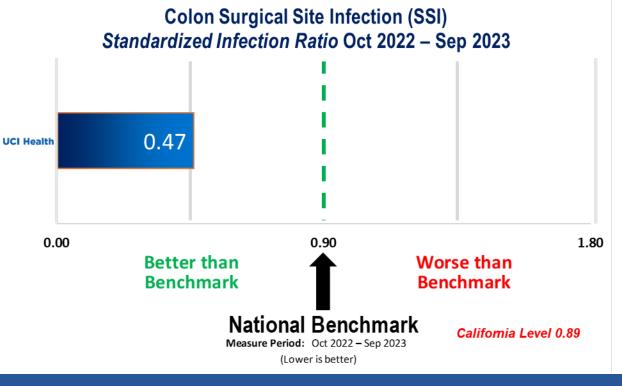
CLABSI – Central line-Associated Blood Stream Infection:

A central line is an intravenous catheter (IV) that allows access to large veins that empty out close to the heart to quickly treat conditions and can stay in place for weeks or months. Central Line Associated Blood Stream Infections (CLABSIs) occur when germs enter the bloodstream through a central line and cause an infection. The value shown above is a Standardized Infection Ratio (SIR), which is the ratio of observed-to-expected infections during the measure period. SIRs below 1.00 indicate that the observed number of infections during the measure period was lower than would be expected under normal conditions, whereas values above 1.00 indicate that the observed number of infections.

• Limitations:

In the calculation of the Standardized Infection Ratio (SIR), the CDC adjusts for differences between hospitals. However, patient risk factors are not taken into account. These patient-specific variables (e.g., poor skin integrity, immunosuppression) can increase the risk of developing a central line infection. Hence, the SIR for hospitals that care for more medically complex or immunosuppressed patients may not be adequately adjusted to account for those patient-specific risk factors.

Colon SSI



What are we doing to improve:

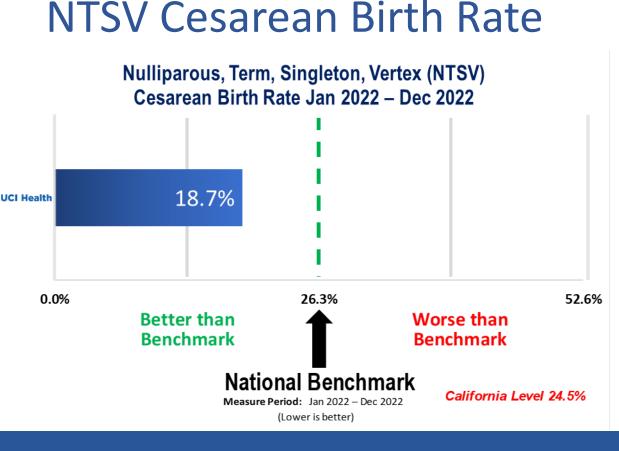
UC Irvine Medical Center is dedicated to achieving the highest surgical quality outcomes. Multidisciplinary performance improvement system actively leads evidence-based strategies on surgical site infection (SSI) prevention. Standardized perioperative patient care pathways and order sets have been implemented to ensure adherence to best practices the organization. Ongoing, across thorough monitoring of compliance with SSI prevention practices (bundles) is conducted at various organizational levels to ensure high adherence and identify opportunities for improvement. Data is used to drive practice and process changes to eliminate the risk of SSIs.

• Colon SSI – Colon Surgical Site Infection:

An infection (usually bacterial) that occurs after a person has colorectal surgery that occurs at the body site where the surgery took place. While some involve only the skin, others are more serious and can affect tissues under the skin, organs, or implanted material. The value shown above is a Standardized Infection Ratio (SIR), which is the ratio of observed-to-expected infections during the measurement period. SIRs below 1.00 indicate that the observed number of infections was lower than would be expected under normal conditions, whereas values above 1.00 indicate that the observed number of infections was higher than expected.

• Limitations:

Some, but not all, patient-specific risk factors are included in the adjustment of the SIR for these types of infections. However, not all relevant risk factors are included (e.g., complex trauma, emergency procedures). Hence, the SIRs for hospitals performing more complex procedures or with larger volumes of polytrauma or emergency procedures may not be adequately adjusted to account for those patient-specific risk factors.



California Health and Human Services Agency recognizes UCI Obstetrics Service line for our low NTSV Cesarean Delivery rates lower than the statewide target in 4 out of the last 5 years. UCI has a robust Perinatal Transport Service providing higher level of care for both the mothers and babies with complications. At UCI, we do not perform preterm deliveries without a compelling indication, and we remain at 100% compliance with administration timing and of steroids for premature babies to help develop their lungs and brain.

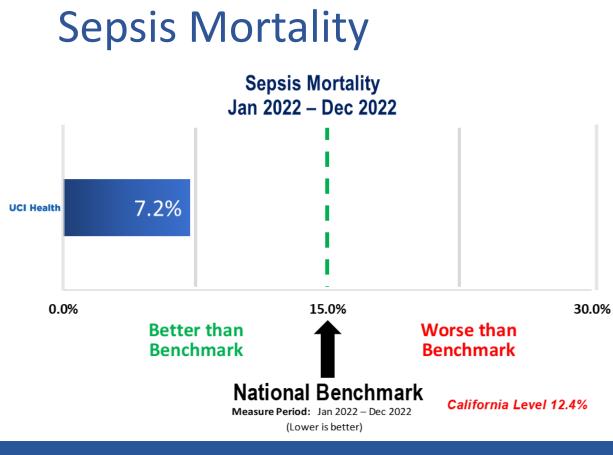
• NTSV - Nulliparous, Term, Singleton, Vertex Cesarean Birth Rate:

The percentage of cesarean (surgical) births among first-time mothers who are at least 37 weeks pregnant with one baby in a head down position (not breech or transverse). Lower values indicate that fewer cesareans were performed in the hospital among primarily low risk, first-time mothers.

• Limitations:

NTSV rates do not take into account certain obstetric conditions, such as placenta previa, that may make Cesarean delivery the safer route for both mother and infant.





Improvement Plans:

Health Sepsis Task Force UCI Committee meets monthly with key stakeholders to discuss sepsis bundle compliance, retrospective reviews and case process improvement opportunities. Current improvement plans focus on early detection and timely treatment of sepsis utilizing the newly developed ED sepsis checklist, Suspected Sepsis Order Set, and Best Practice Alert. Additionally, education efforts, including a new Computer-based Training module, are ongoing for physicians and nursing staff.

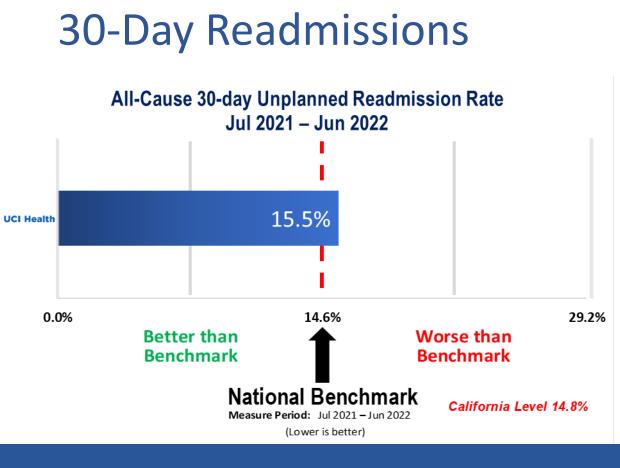
• Sepsis Mortality:

Percent of patients, with a severe infection, who die in the hospital. Most sepsis cases (over 90%) start outside the hospital. Lower percentage of death indicates better survival.

• Limitations:

Use of discharge/administrative data is limiting since such data has lower specificity for diagnoses than clinical data. In addition, without risk adjustment for differences in patient-specific factors, comparing rates among hospitals is difficult.





utilizing a program from We are CipherHealth to help manage follow-ups for discharged patients. We also work closely with skilled nursing facilities to prevent avoidable readmissions. Also, partnering with Dispatch Health and Care Partners has led to decreases in readmissions for certain service lines. Through our Readmission Task Force, we have been able to use technology and data to identify the high-risk patients for hospital readmission while they are still in the hospital for early intervention and prevention.

• 30-day Readmission - Hospital-wide All-Cause 30-day Unplanned Readmission Rate:

The percentage of patients who were unexpectedly readmitted within 30 days of discharge from the hospital for any reason. Lower values indicate that fewer cases were unexpectedly readmitted after discharge.

• Limitations:

Some, but not all patient-specific risk factors are included in the adjustment of the readmission rate. However, not all relevant risk factors are included (e.g., trauma, emergency procedures).



Three Program Status Measures

- 1. Maternity Safety Program
- 2. Sepsis Protocol
- 3. Respiratory Monitoring Program



Program Status Measures

Maternity Safety Program

UC Irvine has a maternity safety program in place. The maternity safety program provides a coordinated approach and emergency response to risks associated with pregnancy and childbirth.

Sepsis Protocol

UC Irvine has a sepsis protocol in place. The sepsis protocol provides guidance for a coordinated approach to identification and treatment of an infection and inflammatory response which is present throughout the body.

Respiratory Monitoring Program

UC Irvine has a respiratory monitoring program in place. The respiratory monitoring program provides guidance for assessment of risk of respiratory depression and includes continuous monitoring of breathing and functioning of the lungs and circulatory system when indicated.

Six Additional Outcome Measures

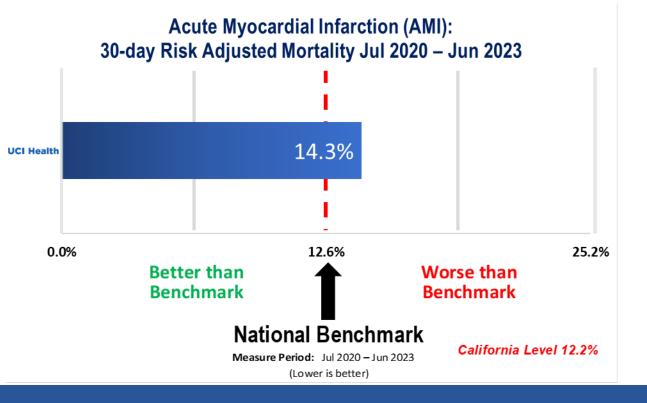
- 1. Heart Failure Mortality
- 2. Acute Myocardial Infarction Mortality (AMI)
- 3. Coronary Artery Bypass Graft (CABG)
- 4. Stroke Mortality
- 5. Pneumonia Mortality
- 6. Chronic Obstructive Pulmonary Disease Mortality (COPD)

Heart Failure Mortality Rate

Heart Failure: 30 day Risk Adjusted Mortality Jul 2020 – Jun 2023 12.6% UCI Health 0.0% 11.9% 23.8% Worse than Better than **Benchmark Benchmark** National Benchmark California Level 10.5% Measure Period: Jul 2020 – Jun 2023 (Lower is better)

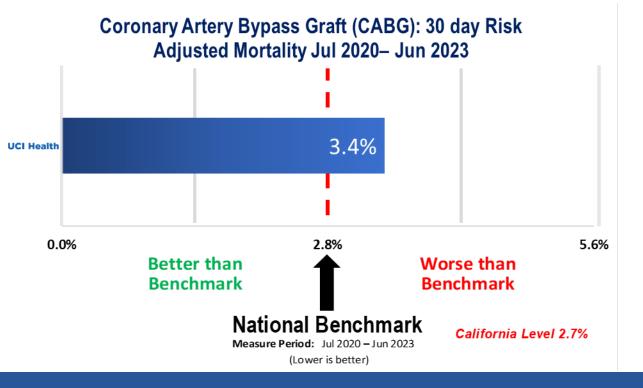
What are we doing to improve:

AMI Mortality Rate

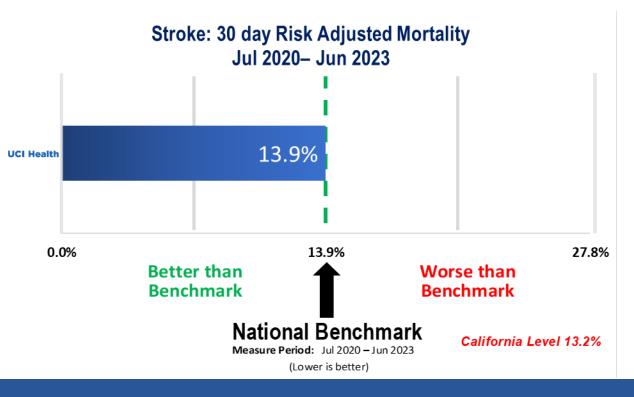




CABG Mortality Rate



Stroke Mortality Rate



Pneumonia Mortality Rate

Pneumonia: 30 day Risk Adjusted Mortality Jul 2020 – Jun 2023 15.3% UCI Health 35.8% 0.0% 17.9% Better than Worse than **Benchmark Benchmark** National Benchmark California Level 16.5% Measure Period: Jul 2020 – Jun 2023 (Lower is better)

What are we doing to improve:



COPD Mortality Rate

Chronic Obstructive Pulmonary Disease (COPD): 30-day Risk Adjusted Mortality Jul 2020 – Jun 2023 9.0% UCI Health 18.8% 0.0% 9.4% Better than Worse than **Benchmark Benchmark** National Benchmark California Level 9.0% Measure Period: Jul 2020 – Jun 2023 (Lower is better)

What are we doing to improve:

• 30-day Risk Adjusted Mortality:

Death (mortality) rates for patients who are hospitalized for certain conditions or procedures who die in the 30 days after either (a) entering the hospital for a specific condition or (b) having a coronary artery bypass graft (CABG) surgery. Deaths can be for any reason and can occur in the hospital or after discharge. Data were retrieved from CMS Hospital Compare Complication and Death files, which are updated annually in July. The file used for the estimates was updated on 07/22/2022 (https://data.cms.gov/provider-data/topics/hospitals/complications-deaths#deaths).

