

Care Process Improvement Map

Sepsis (Sepsis and Septic Shock)

LEGEND

Outcome Metrics

Process Metrics

Recommended initial improvement focus areas

Recommended standardized knowledge assets

Areas to prevent or avoid OR areas to consider only after careful review of indicators

Time-measured processes

Opportunity: Sepsis has the highest mortality rate and cost of any condition treated in U.S. hospitals, and causes significant morbidity. It ranks high on Health Catalyst's key process analysis of opportunity based on financial and volume metrics from a large normalized data set.

About this map: This high-level Care Process Improvement Map illustrates key evidence-based best practices for each phase of care, along with associated improvement opportunities that drive metrics and data visualizations in the Sepsis application. It is not intended as an inclusive care process model or a precise representation of application metrics, but rather to catalyze iterative outcomes improvement work.

KEY OUTCOME METRICS

Clinical

- Hospital mortality rate
- Length of stay (ICU, overall)
- Readmissions
- Ventilator days
- Time on vasopressors
- Discharges to home (vs. long-term care)

Financial

- Variable cost per case

ABBREVIATIONS

- Sepsis:** Life-threatening organ dysfunction caused by a dysregulated host response to infection; includes severe sepsis (Sepsis-3)
- Septic shock:** A subset of sepsis in which underlying circulatory and cellular/metabolic abnormalities are profound enough to substantially increase mortality in excess of 40% (Sepsis-3)

KEY DATA SOURCES

- Electronic Medical Record (EMR)**
- Billing:** Professional and Hospital
- Financial**

