

Type

Analytics Accelerator

Status

Custom Services

Revised

2019-November-22

Technical Description

The **Pediatric Sepsis Analytics Accelerator** provides data and visualizations to improve best-practice treatment of sepsis and septic shock—supporting teams in their efforts to reduce mortality, morbidity, length of stay (LOS), and cost of care.

Background

Organizations choose to focus on pediatric sepsis for these reasons:

- **Pediatric sepsis is** More than 75,000 children develop s each year ; almost 7,000 die. The specialized care required for these gravely ill children presents a significant financial burden; h more than 7 12 times the median cost of all other hospitalizations for children, including those for cancer and trauma treatment.

Application Overview

Insight to speed recognition, improve care—and save lives

The **Pediatric Sepsis Analytics Accelerator** supports a disciplined, data-driven approach to screening and care, helping to drive and sustain significant improvement in clinical and financial outcomes. Typical implementations focus on early recognition, initial resuscitation, and ongoing ICU care—areas where getting it right is especially meaningful.

Benefits and Features

- **Access an at-a-glance, near real-time view of quality of care and its impact.** The application dashboard visualizes outcome and process metrics in an easy-to-consume, one-page summary.
- **Focus your team on what matters most.** Outcome metrics typically include mortality, ICU admissions, LOS (ICU and overall), and cost-per-case. Typical process metrics include overall and by-component compliance with 5-minute early recognition protocols and resuscitation pathways. The result? Your team understands the priorities and can help solve problems that stand in the way of improvement.
- **Do more than monitor: understand.** Detailed analytics of each care practice provide dynamic data exploration, real-time filtering, and drill-down to patient-level detail. The application also provides export or print capability for patient list, metric performance, etc. so you can share and follow up.

Intended Users

- Chief Medical Officer
- Chief Nursing Officer
- Clinical directors
- Clinical nurse specialists and educators
- ED and PICU leadership and teams

Use Cases

notes that their pediatric sepsis mortality rate has increased in recent quarters. What are the drivers of this upsetting trend? Which aspect of standardized care is proving most challenging for front-line staff? The team uses the application to identify improvement opportunities in their ED processes (e.g., average time to MD notification, high-flow oxygen, and testing) and resuscitation pathway (e.g., average time to initial fluids and antibiotics). After implementing education and communication with providers, the team uses the accelerator to track reduction in practice variation—and improvement in outcomes.

Data Sources

This product may leverage one or more of the following sources:

- EMR - Clinical
- Billing
- Claims
- Other:
Patient satisfaction

Clinical specialty (laboratory)

Key Measures

- Mortality
- Morbidity
- ICU admission
- LOS
- Cost-per-case

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