Technical Description

The Pneumonia Sepsis Analytics Accelerator provides data and visualizations to improve assessment and care of patients with community-acquired pneumonia (CAP)—supporting teams in their efforts to reduce mortality, length of stay (LOS), readmissions, and cost of care.

Background

Organizations typically choose to focus on CAP for these reasons:

- Incidence and
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Application Overview

Insight to guide interventions and improve outcomes for patients with pneumonia

The Pneumonia Analytics Accelerator supports a focused, data-driven approach to evaluation and care, helping to drive and sustain significant improvement in clinical and financial outcomes. Typical implementations focus on initial diagnosis and disposition, timing and selection of medical therapy, antimicrobial stewardship, and care transitions.
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, LOS, readmissions, patient satisfaction, and cost-per-case. Typical process metrics include adherence to assessment standards (e.g., severity documented via CURB65 or other validated tool; chest X-ray); timing of initial empiric antibiotics; percentage of patients assigned to appropriate site of care, antibiotic stewardship, and percentage of patients receiving all elements of follow-up care within targeted timeframes.
- Access actionable insight for every patient. The application presents reports showing each patient’s severity and risk; these may inform appropriate interventions to prevent readmission.
- Start faster with meaningful, scalable clinical definitions. The cohorts, definitions, and process measures that come with the accelerator are clinically relevant, standard, and meaningful across domains, ready for customization or adoption in your organization.
- Do more than monitor: understand. Detailed analytics of each bundle 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

- Clinical directors
- Clinical educators
- Service-line leadership and teams
- Ambulatory, ED, ICU, and inpatient care units and improvement teams
- Care management teams

Use Cases

notes that readmissions for pneumonia patients are increasing. What are the drivers of this trend? Working with Pulmonology leaders, he uses the application to identify improvement opportunities in both their early assessment (use of severity scoring) and disposition—as well as in their follow-up care. After implementing reinforcing education and communication with providers, the team uses the accelerator to track severity documentation and appropriateness of site of care. They also design and implement a team-based care-transition model and use the application to monitor its adoption and the impact on care. After 9 months, the team is able to associate reduced practice variation with clear improvement in outcomes: lower readmissions and higher patient satisfaction—as well as improvement in other aspects of standardized best practice, such as appropriate use of chest X-rays and optimized antimicrobial therapy.

Data Sources

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

- EMR - Clinical
- Finance/Costing
- Claims
- Other:
  - Billing
  - Patient satisfaction

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Key Measures

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

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